(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
15 May 2003 (15.05.2003)

PCT

(10) International Publication Number
WO 03/039484 A2

(51) International Patent Classification[7]: A61K

(21) International Application Number: PCT/US02/36071

(22) International Filing Date:
8 November 2002 (08.11.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/052,482 8 November 2001 (08.11.2001) US

(71) Applicant *(for all designated States except US)*: **SAGRES DISCOVERY** [US/US]; Suite 400, 2795 Second Street, Davis, CA 95616 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **MORRIS, David, W.** [US/US]; 1802 Valdora Street, Davis, CA 95616 (US). **ENGELHARD, Eric, K.** [US/US]; 704 Hudson Street, Davis, CA 95616 (US).

(74) Agents: **BASU, Shantanu** et al.; Morrison & Foerster LLP, 755 Page Mill Road, Palo Alto, CA 94304-1018 (US).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 03/039484 A2

(54) Title: NOVEL COMPOSITIONS AND METHODS FOR CANCER

(57) Abstract: The present invention relates to novel sequences for use in diagnosis and treatment of carcinomas, especially lymphomas. In addition, the present invention describes the use of novel compositions for use in screening methods.

NOVEL COMPOSITIONS AND METHODS FOR CANCER

The present application is a continuing application of U.S.S.N.s 09/747,377, filed December 22, 2000 and 09/798,586, filed March 2, 2001, both of which are expressly incorporated herein by reference.

FIELD OF THE INVENTION

The present invention relates to novel sequences for use in diagnosis and treatment of cancer, especially carcinomas, as well as the use of the novel compositions in screening methods.

BACKGROUND OF THE INVENTION

Oncogenes are genes that can cause cancer. Carcinogenesis can occur by a wide variety of mechanisms, including infection of cells by viruses containing oncogenes, activation of protooncogenes in the host genome, and mutations of protooncogenes and tumor suppressor genes.

There are a number of viruses known to be involved in human cancer as well as in animal cancer. Of particular interest here are viruses that do not contain oncogenes themselves; these are slow-transforming retroviruses. They induce tumors by integrating into the host genome and affecting neighboring protooncogenes in a variety of ways, including promoter insertion, enhancer insertion, and/or truncation of a protooncogene or tumor suppressor gene. The analysis of sequences at or near the insertion sites led to the identification of a number of new protooncogenes.

With respect to lymphoma and leukemia, murine leukemia retrovirus (MuLV), such as SL3-3 or Akv, is a potent inducer of tumors when inoculated into susceptible newborn mice, or when carried in the germline. A number of sequences have been identified as relevant in the induction of lymphoma and leukemia by analyzing the insertion sites; see Sorensen et al., J. of Virology 74:2161 (2000); Hansen et al., Genome Res. 10(2):237-43 (2000); Sorensen et al., J. Virology 70:4063 (1996); Sorensen et al., J. Virology 67:7118 (1993); Joosten et al., Virology 268:308 (2000); and Li et al., Nature Genetics 23:348 (1999); all of which are expressly incorporated by reference herein.

Accordingly, it is an object of the invention to provide sequences involved in cancer and in particular in oncogenesis.

SUMMARY OF THE INVENTION

In accordance with the objects outlined above, the present invention provides methods for screening for compositions which modulate carcinomas, especially lymphoma and leukemia. Also provided herein are methods of inhibiting proliferation of a cell, preferably a lymphoma cell. Methods of treatment of carcinomas, including diagnosis, are also provided herein.

In one aspect, a method of screening drug candidates comprises providing a cell that expresses a carcinoma associated (CA) gene or fragments thereof. Preferred embodiments of CA genes are genes which are differentially expressed in cancer cells, preferably lymphatic, breast, prostate or epithelial cells, compared to other cells. Preferred embodiments of CA genes used in the methods herein include, but are not limited to the nucleic acids selected from Tables 1-40. The method further includes adding a drug candidate to the cell and determining the effect of the drug candidate on the expression of the CA gene.

In one embodiment, the method of screening drug candidates includes comparing the level of expression in the absence of the drug candidate to the level of expression in the presence of the drug candidate.

Also provided herein is a method of screening for a bioactive agent capable of binding to a CA protein (CAP), the method comprising combining the CAP and a candidate bioactive agent, and determining the binding of the candidate agent to the CAP.

Further provided herein is a method for screening for a bioactive agent capable of modulating the activity of a CAP. In one embodiment, the method comprises combining the CAP and a candidate bioactive agent, and determining the effect of the candidate agent on the bioactivity of the CAP.

Also provided is a method of evaluating the effect of a candidate carcinoma drug comprising administering the drug to a patient and removing a cell sample from the patient. The expression profile of the cell is then determined. This method may further comprise comparing the expression profile of the patient to an expression profile of a heathy individual.

In a further aspect, a method for inhibiting the activity of an CA protein is provided. In one embodiment, the method comprises administering to a patient an inhibitor of a CA protein preferably selected from the group consisting of the sequences outlined in Tables 1-40 or their complements.

A method of neutralizing the effect of a CA protein, preferably a protein encoded by a nucleic acid selected from the group of sequences outlined in Tables 1-40, is also provided. Preferably, the method comprises contacting an agent specific for said protein with said protein in an amount sufficient to effect neutralization.

Moreover, provided herein is a biochip comprising a nucleic acid segment which encodes a CA protein, preferably selected from the sequences outlined in Tables 1-40.

Also provided herein is a method for diagnosing or determining the propensity to carcinomas,

especially lymphoma or leukemia by sequencing at least one carcinoma or lymphoma gene of an individual. In yet another aspect of the invention, a method is provided for determining carcinoma including lymphoma and leukemia gene copy number in an individual.

Novel sequences are also provided herein. Other aspects of the invention will become apparent to the skilled artisan by the following description of the invention.

DETAILED DESCRIPTION OF THE INVENTION

The present invention is directed to a number of sequences associated with carcinomas, especially lymphoma, breast cancer or prostate cancer. The relatively tight linkage between clonally-integrated proviruses and protooncogenes forms "provirus tagging", in which slow-transforming retroviruses that act by an insertion mutation mechanism are used to isolate protooncogenes. In some models, uninfected animals have low cancer rates, and infected animals have high cancer rates. It is known that many of the retroviruses involved do not carry transduced host protooncogenes or pathogenic *trans*-acting viral genes, and thus the cancer incidence must therefor be a direct consequence of proviral integration effects into host protooncogenes. Since proviral integration is random, rare integrants will "activate" host protooncogenes that provide a selective growth advantage, and these rare events result in new proviruses at clonal stoichiometries in tumors.

The use of oncogenic retroviruses, whose sequences insert into the genome of the host organism resulting in carcinoma, allows the identification of host sequences involved in carcinoma. These sequences may then be used in a number of different ways, including diagnosis, prognosis, screening for modulators (including both agonists and antagonists), antibody generation (for immunotherapy and imaging), etc. However, as will be appreciated by those in the art, oncogenes that are identified in one type of cancer such as lymphoma or leukemia have a strong likelihood of being involved in other types of cancers as well. Thus, while the sequences outlined herein are initially identified as correlated with lymphoma, they can also be found in other types of cancers as well, outlined below.

Accordingly, the present invention provides nucleic acid and protein sequences that are associated with carcinoma, herein termed "carcinoma associated" or "CA" sequences. In a preferred embodiment, the present invention provides nucleic acid and protein sequences that are associated with carcinomas which originate in lymphatic tissue, herein termed "lymphoma associated" , "leukemia associated" or "LA" sequences.

Suitable cancers which can be diagnosed or screened for using the methods of the present invention include cancers classified by site or by histological type. Cancers classified by site include cancer of the oral cavity and pharynx (lip, tongue, salivary gland, floor of mouth, gum and other mouth, nasopharynx, tonsil, oropharynx, hypopharynx, other oral/pharynx); cancers of the digestive system (esophagus; stomach; small intestine; colon and rectum; anus, anal canal, and anorectum; liver; intrahepatic bile duct; gallbladder; other biliary; pancreas; retroperitoneum; peritoneum, omentum, and mesentery; other digestive); cancers of the respiratory system (nasal cavity, middle ear, and sinuses; larynx; lung and bronchus; pleura; trachea, mediastinum, and other respiratory); cancers of the mesothelioma; bones and joints; and soft tissue, including heart; skin cancers, including melanomas and other non-epithelial skin cancers; Kaposi's sarcoma and breast cancer; cancer of the female

genital system (cervix uteri; corpus uteri; uterus, nos; ovary; vagina; vulva; and other female genital); cancers of the male genital system (prostate gland; testis; penis; and other male genital); cancers of the urinary system (urinary bladder; kidney and renal pelvis; ureter; and other urinary); cancers of the eye and orbit; cancers of the brain and nervous system (brain; and other nervous system); cancers of the endocrine system (thyroid gland and other endocrine, including thymus); cancers of the lymphomas (hodgkin's disease and non-hodgkin's lymphoma), multiple myeloma, and leukemias (lymphocytic leukemia; myeloid leukemia; monocytic leukemia; and other leukemias).

Other cancers, classified by histological type, that may be associated with the sequences of the invention include, but are not limited to, Neoplasm, malignant; Carcinoma, NOS; Carcinoma, undifferentiated, NOS; Giant and spindle cell carcinoma; Small cell carcinoma, NOS; Papillary carcinoma, NOS; Squamous cell carcinoma, NOS; Lymphoepithelial carcinoma; Basal cell carcinoma, NOS; Pilomatrix carcinoma; Transitional cell carcinoma, NOS; Papillary transitional cell carcinoma; Adenocarcinoma, NOS; Gastrinoma, malignant; Cholangiocarcinoma; Hepatocellular carcinoma, NOS; Combined hepatocellular carcinoma and cholangiocarcinoma; Trabecular adenocarcinoma; Adenoid cystic carcinoma; Adenocarcinoma in adenomatous polyp; Adenocarcinoma, familial polyposis coli; Solid carcinoma, NOS; Carcinoid tumor, malignant; Branchiolo-alveolar adenocarcinoma; Papillary adenocarcinoma, NOS; Chromophobe carcinoma; Acidophil carcinoma; Oxyphilic adenocarcinoma; Basophil carcinoma; Clear cell adenocarcinoma, NOS; Granular cell carcinoma; Follicular adenocarcinoma, NOS; Papillary and follicular adenocarcinoma; Nonencapsulating sclerosing carcinoma; Adrenal cortical carcinoma; Endometroid carcinoma; Skin appendage carcinoma; Apocrine adenocarcinoma; Sebaceous adenocarcinoma; Ceruminous adenocarcinoma; Mucoepidermoid carcinoma; Cystadenocarcinoma, NOS; Papillary cystadenocarcinoma, NOS; Papillary serous cystadenocarcinoma; Mucinous cystadenocarcinoma, NOS; Mucinous adenocarcinoma; Signet ring cell carcinoma; Infiltrating duct carcinoma; Medullary carcinoma, NOS; Lobular carcinoma; Inflammatory carcinoma; Paget"s disease, mammary; Acinar cell carcinoma; Adenosquamous carcinoma; Adenocarcinoma w/ squamous metaplasia; Thymoma, malignant; Ovarian stromal tumor, malignant; Thecoma, malignant; Granulosa cell tumor, malignant; Androblastoma, malignant; Sertoli cell carcinoma; Leydig cell tumor, malignant; Lipid cell tumor, malignant; Paraganglioma, malignant; Extra-mammary paraganglioma, malignant; Pheochromocytoma; Glomangiosarcoma; Malignant melanoma, NOS; Amelanotic melanoma; Superficial spreading melanoma; Malig melanoma in giant pigmented nevus; Epithelioid cell melanoma; Blue nevus, malignant; Sarcoma, NOS; Fibrosarcoma, NOS; Fibrous histiocytoma, malignant; Myxosarcoma; Liposarcoma, NOS; Leiomyosarcoma, NOS; Rhabdomyosarcoma, NOS; Embryonal rhabdomyosarcoma; Alveolar rhabdomyosarcoma; Stromal sarcoma, NOS; Mixed tumor, malignant, NOS; Mullerian mixed tumor; Nephroblastoma; Hepatoblastoma; Carcinosarcoma, NOS; Mesenchymoma, malignant; Brenner tumor, malignant; Phyllodes tumor, malignant; Synovial sarcoma, NOS; Mesothelioma, malignant; Dysgerminoma; Embryonal carcinoma, NOS; Teratoma, malignant, NOS; Struma ovarii, malignant; Choriocarcinoma; Mesonephroma, malignant; Hemangiosarcoma; Hemangioendothelioma, malignant; Kaposi's sarcoma; Hemangiopericytoma, malignant; Lymphangiosarcoma; Osteosarcoma, NOS; Juxtacortical osteosarcoma; Chondrosarcoma, NOS; Chondroblastoma, malignant; Mesenchymal chondrosarcoma; Giant cell tumor of bone; Ewing's sarcoma; Odontogenic tumor, malignant; Ameloblastic odontosarcoma; Ameloblastoma, malignant; Ameloblastic fibrosarcoma; Pinealoma, malignant; Chordoma; Glioma, malignant; Ependymoma, NOS; Astrocytoma, NOS; Protoplasmic astrocytoma; Fibrillary astrocytoma; Astroblastoma;

Glioblastoma, NOS; Oligodendroglioma, NOS; Oligodendroblastoma; Primitive neuroectodermal; Cerebellar sarcoma, NOS; Ganglioneuroblastoma; Neuroblastoma, NOS; Retinoblastoma, NOS; Olfactory neurogenic tumor; Meningioma, malignant; Neurofibrosarcoma; Neurilemmoma, malignant; Granular cell tumor, malignant; Malignant lymphoma, NOS; Hodgkin's disease, NOS; Hodgkin's; paragranuloma, NOS; Malignant lymphoma, small lymphocytic; Malignant lymphoma, large cell, diffuse; Malignant lymphoma, follicular, NOS; Mycosis fungoides; Other specified non-Hodgkin's lymphomas; Malignant histiocytosis; Multiple myeloma; Mast cell sarcoma; Immunoproliferative small intestinal disease; Leukemia, NOS; Lymphoid leukemia, NOS; Plasma cell leukemia; Erythroleukemia; Lymphosarcoma cell leukemia; Myeloid leukemia, NOS; Basophilic leukemia; Eosinophilic leukemia; Monocytic leukemia, NOS; Mast cell leukemia; Megakaryoblastic leukemia; Myeloid sarcoma; and Hairy cell leukemia.

In addition, the genes may be involved in other diseases, such as but not limited to diseases associated with aging or neurodegenerative diseases.

Association in this context means that the nucleotide or protein sequences are either differentially expressed, activated, inactivated or altered in carcinomas as compared to normal tissue. As outlined below, CA sequences include those that are up-regulated (i.e. expressed at a higher level), as well as those that are down-regulated (i.e. expressed at a lower level), in carcinomas. CA sequences also include sequences which have been altered (i.e., truncated sequences or sequences with substitutions, deletions or insertions, including point mutations) and show either the same expression profile or an altered profile. In a preferred embodiment, the CA sequences are from humans; however, as will be appreciated by those in the art, CA sequences from other organisms may be useful in animal models of disease and drug evaluation; thus, other CA sequences are provided, from vertebrates, including mammals, including rodents (rats, mice, hamsters, guinea pigs, etc.), primates, farm animals (including sheep, goats, pigs, cows, horses, etc). In some cases, prokaryotic CA sequences may be useful. CA sequences from other organisms may be obtained using the techniques outlined below.

CA sequences can include both nucleic acid and amino acid sequences. In a preferred embodiment, the CA sequences are recombinant nucleic acids. By the term "recombinant nucleic acid" herein is meant nucleic acid, originally formed in vitro, in general, by the manipulation of nucleic acid by polymerases and endonucleases, in a form not normally found in nature. Thus an isolated nucleic acid, in a linear form, or an expression vector formed in vitro by ligating DNA molecules that are not normally joined, are both considered recombinant for the purposes of this invention. It is understood that once a recombinant nucleic acid is made and reintroduced into a host cell or organism, it will replicate non-recombinantly, i.e. using the in vivo cellular machinery of the host cell rather than in vitro manipulations; however, such nucleic acids, once produced recombinantly, although subsequently replicated non-recombinantly, are still considered recombinant for the purposes of the invention.

Similarly, a "recombinant protein" is a protein made using recombinant techniques, i.e. through the expression of a recombinant nucleic acid as depicted above. A recombinant protein is distinguished from naturally occurring protein by at least one or more characteristics. For example, the protein may be isolated or purified away from some or all of the proteins and compounds with which it is normally associated in its wild type host, and thus may be substantially pure. For example, an isolated protein

is unaccompanied by at least some of the material with which it is normally associated in its natural state, preferably constituting at least about 0.5%, more preferably at least about 5% by weight of the total protein in a given sample. A substantially pure protein comprises at least about 75% by weight of the total protein, with at least about 80% being preferred, and at least about 90% being particularly preferred. The definition includes the production of an CA protein from one organism in a different organism or host cell. Alternatively, the protein may be made at a significantly higher concentration than is normally seen, through the use of an inducible promoter or high expression promoter, such that the protein is made at increased concentration levels. Alternatively, the protein may be in a form not normally found in nature, as in the addition of an epitope tag or amino acid substitutions, insertions and deletions, as discussed below.

In a preferred embodiment, the CA sequences are nucleic acids. As will be appreciated by those in the art and is more fully outlined below, CA sequences are useful in a variety of applications, including diagnostic applications, which will detect naturally occurring nucleic acids, as well as screening applications; for example, biochips comprising nucleic acid probes to the CA sequences can be generated. In the broadest sense, then, by "nucleic acid" or "oligonucleotide" or grammatical equivalents herein means at least two nucleotides covalently linked together. A nucleic acid of the present invention will generally contain phosphodiester bonds, although in some cases, as outlined below (for example in antisense applications or when a candidate agent is a nucleic acid), nucleic acid analogs may be used that have alternate backbones, comprising, for example, phosphoramidate (Beaucage et al., Tetrahedron 49(10):1925 (1993) and references therein; Letsinger, J. Org. Chem. 35:3800 (1970); Sprinzl et al., Eur. J. Biochem. 81:579 (1977); Letsinger et al., Nucl. Acids Res. 14:3487 (1986); Sawai et al, Chem. Lett. 805 (1984), Letsinger et al., J. Am. Chem. Soc. 110:4470 (1988); and Pauwels et al., Chemica Scripta 26:141 91986)), phosphorothioate (Mag et al., Nucleic Acids Res. 19:1437 (1991); and U.S. Patent No. 5,644,048), phosphorodithioate (Briu et al., J. Am. Chem. Soc. 111:2321 (1989), O-methylphophoroamidite linkages (see Eckstein, Oligonucleotides and Analogues: A Practical Approach, Oxford University Press), and peptide nucleic acid backbones and linkages (see Egholm, J. Am. Chem. Soc. 114:1895 (1992); Meier et al., Chem. Int. Ed. Engl. 31:1008 (1992); Nielsen, Nature, 365:566 (1993); Carlsson et al., Nature 380:207 (1996), all of which are incorporated by reference). Other analog nucleic acids include those with positive backbones (Denpcy et al., Proc. Natl. Acad. Sci. USA 92:6097 (1995); non-ionic backbones (U.S. Patent Nos. 5,386,023, 5,637,684, 5,602,240, 5,216,141 and 4,469,863; Kiedrowshi et al., Angew. Chem. Intl. Ed. English 30:423 (1991); Letsinger et al., J. Am. Chem. Soc. 110:4470 (1988); Letsinger et al., Nucleoside & Nucleotide 13:1597 (1994); Chapters 2 and 3, ASC Symposium Series 580, "Carbohydrate Modifications in Antisense Research", Ed. Y.S. Sanghui and P. Dan Cook; Mesmaeker et al., Bioorganic & Medicinal Chem. Lett. 4:395 (1994); Jeffs et al., J. Biomolecular NMR 34:17 (1994); Tetrahedron Lett. 37:743 (1996)) and non-ribose backbones, including those described in U.S. Patent Nos. 5,235,033 and 5,034,506, and Chapters 6 and 7, ASC Symposium Series 580, "Carbohydrate Modifications in Antisense Research", Ed. Y.S. Sanghui and P. Dan Cook. Nucleic acids containing one or more carbocyclic sugars are also included within one definition of nucleic acids (see Jenkins et al., Chem. Soc. Rev. (1995) pp169-176). Several nucleic acid analogs are described in Rawls, C & E News June 2, 1997 page 35. All of these references are hereby expressly incorporated by reference. These modifications of the ribose-phosphate backbone may be done for a variety of reasons, for example to increase the stability and half-life of such molecules in physiological environments for use in anti-sense applications or as probes on a biochip.

As will be appreciated by those in the art, all of these nucleic acid analogs may find use in the present invention. In addition, mixtures of naturally occurring nucleic acids and analogs can be made; alternatively, mixtures of different nucleic acid analogs, and mixtures of naturally occurring nucleic acids and analogs may be made.

The nucleic acids may be single stranded or double stranded, as specified, or contain portions of both double stranded or single stranded sequence. As will be appreciated by those in the art, the depiction of a single strand "Watson" also defines the sequence of the other strand "Crick"; thus the sequences described herein also includes the complement of the sequence. The nucleic acid may be DNA, both genomic and cDNA, RNA or a hybrid, where the nucleic acid contains any combination of deoxyribo- and ribo-nucleotides, and any combination of bases, including uracil, adenine, thymine, cytosine, guanine, inosine, xanthine hypoxanthine, isocytosine, isoguanine, etc. As used herein, the term "nucleoside" includes nucleotides and nucleoside and nucleotide analogs, and modified nucleosides such as amino modified nucleosides. In addition, "nucleoside" includes non-naturally occurring analog structures. Thus for example the individual units of a peptide nucleic acid, each containing a base, are referred to herein as a nucleoside.

An CA sequence can be initially identified by substantial nucleic acid and/or amino acid sequence homology to the CA sequences outlined herein. Such homology can be based upon the overall nucleic acid or amino acid sequence, and is generally determined as outlined below, using either homology programs or hybridization conditions.

The CA sequences of the invention were initially identified as described herein; basically, infection of mice with murine leukemia viruses (MLV) resulted in lymphoma, although many of these sequences will also be involved in other cancers as is generally outlined herein.

The CA sequences outlined herein comprise the insertion sites for the virus. In general, the retrovirus can cause carcinomas in three basic ways: first of all, by inserting upstream of a normally silent host gene and activating it (e.g. promoter insertion); secondly, by truncating a host gene that leads to oncogenesis; or by enhancing the transcription of a neighboring gene. For example, retrovirus enhancers, including SL3-3, are known to act on genes up to approximately 200 kilobases of the insertion site.

In a preferred embodiment, CA sequences are those that are up-regulated in carcinomas; that is, the expression of these genes is higher in carcinoma tissue as compared to normal tissue of the same differentiation stage. "Up-regulation" as used herein means at least about 50%, more preferably at least about 100%, more preferably at least about 150%, more preferably, at least about 200%, with from 300 to at least 1000% being especially preferred.

In a preferred embodiment, CA sequences are those that are down-regulated in carcinomas; that is, the expression of these genes is lower in carcinoma tissue as compared to normal l tissue of the same differentiation stage. "Down-regulation" as used herein means at least about 50%, more preferably at least about 100%, more preferably at least about 150%, more preferably, at least about 200%, with from 300 to at least 1000% being especially preferred.

In a preferred embodiment, CA sequences are those that are altered but show either the same expression profile or an altered profile as compared to normal lymphoid tissue of the same differentiation stage. "Altered CA sequences" as used herein refers to sequences which are truncated, contain insertions or contain point mutations.

CA proteins of the present invention may be classified as secreted proteins, transmembrane proteins or intracellular proteins.

In a preferred embodiment the CA protein is an intracellular protein. Intracellular proteins may be found in the cytoplasm and/or in the nucleus. Intracellular proteins are involved in all aspects of cellular function and replication (including, for example, signaling pathways); aberrant expression of such proteins results in unregulated or disregulated cellular processes. For example, many intracellular proteins have enzymatic activity such as protein kinase activity, protein phosphatase activity, protease activity, nucleotide cyclase activity, polymerase activity and the like. Intracellular proteins also serve as docking proteins that are involved in organizing complexes of proteins, or targeting proteins to various subcellular localizations, and are involved in maintaining the structural integrity of organelles.

An increasingly appreciated concept in characterizing intracellular proteins is the presence in the proteins of one or more motifs for which defined functions have been attributed. In addition to the highly conserved sequences found in the enzymatic domain of proteins, highly conserved sequences have been identified in proteins that are involved in protein-protein interaction. For example, Src-homology-2 (SH2) domains bind tyrosine-phosphorylated targets in a sequence dependent manner. PTB domains, which are distinct from SH2 domains, also bind tyrosine phosphorylated targets. SH3 domains bind to proline-rich targets. In addition, PH domains, tetratricopeptide repeats and WD domains to name only a few, have been shown to mediate protein-protein interactions. Some of these may also be involved in binding to phospholipids or other second messengers. As will be appreciated by one of ordinary skill in the art, these motifs can be identified on the basis of primary sequence; thus, an analysis of the sequence of proteins may provide insight into both the enzymatic potential of the molecule and/or molecules with which the protein may associate.

In a preferred embodiment, the CA sequences are transmembrane proteins. Transmembrane proteins are molecules that span the phospholipid bilayer of a cell. They may have an intracellular domain, an extracellular domain, or both. The intracellular domains of such proteins may have a number of functions including those already described for intracellular proteins. For example, the intracellular domain may have enzymatic activity and/or may serve as a binding site for additional proteins. Frequently the intracellular domain of transmembrane proteins serves both roles. For example certain receptor tyrosine kinases have both protein kinase activity and SH2 domains. In addition, autophosphorylation of tyrosines on the receptor molecule itself, creates binding sites for additional SH2 domain containing proteins.

Transmembrane proteins may contain from one to many transmembrane domains. For example, receptor tyrosine kinases, certain cytokine receptors, receptor guanylyl cyclases and receptor serine/threonine protein kinases contain a single transmembrane domain. However, various other proteins including channels and adenylyl cyclases contain numerous transmembrane domains. Many

important cell surface receptors are classified as "seven transmembrane domain" proteins, as they contain 7 membrane spanning regions. Important transmembrane protein receptors include, but are not limited to insulin receptor, insulin-like growth factor receptor, human growth hormone receptor, glucose transporters, transferrin receptor, epidermal growth factor receptor, low density lipoprotein receptor, epidermal growth factor receptor, leptin receptor, interleukin receptors, e.g. IL-1 receptor, IL-2 receptor, etc.

Characteristics of transmembrane domains include approximately 20 consecutive hydrophobic amino acids that may be followed by charged amino acids. Therefore, upon analysis of the amino acid sequence of a particular protein, the localization and number of transmembrane domains within the protein may be predicted.

The extracellular domains of transmembrane proteins are diverse; however, conserved motifs are found repeatedly among various extracellular domains. Conserved structure and/or functions have been ascribed to different extracellular motifs. For example, cytokine receptors are characterized by a cluster of cysteines and a WSXWS (SEQ ID NO:241) (W=tryptophan, S=serine, X=any amino acid) motif. Immunoglobulin-like domains are highly conserved. Mucin-like domains may be involved in cell adhesion and leucine-rich repeats participate in protein-protein interactions.

Many extracellular domains are involved in binding to other molecules. In one aspect, extracellular domains are receptors. Factors that bind the receptor domain include circulating ligands, which may be peptides, proteins, or small molecules such as adenosine and the like. For example, growth factors such as EGF, FGF and PDGF are circulating growth factors that bind to their cognate receptors to initiate a variety of cellular responses. Other factors include cytokines, mitogenic factors, neurotrophic factors and the like. Extracellular domains also bind to cell-associated molecules. In this respect, they mediate cell-cell interactions. Cell-associated ligands can be tethered to the cell for example via a glycosylphosphatidylinositol (GPI) anchor, or may themselves be transmembrane proteins. Extracellular domains also associate with the extracellular matrix and contribute to the maintenance of the cell structure.

CA proteins that are transmembrane are particularly preferred in the present invention as they are good targets for immunotherapeutics, as are described herein. In addition, as outlined below, transmembrane proteins can be also useful in imaging modalities.

It will also be appreciated by those in the art that a transmembrane protein can be made soluble by removing transmembrane sequences, for example through recombinant methods. Furthermore, transmembrane proteins that have been made soluble can be made to be secreted through recombinant means by adding an appropriate signal sequence.

In a preferred embodiment, the CA proteins are secreted proteins; the secretion of which can be either constitutive or regulated. These proteins have a signal peptide or signal sequence that targets the molecule to the secretory pathway. Secreted proteins are involved in numerous physiological events; by virtue of their circulating nature, they serve to transmit signals to various other cell types. The secreted protein may function in an autocrine manner (acting on the cell that secreted the factor), a paracrine manner (acting on cells in close proximity to the cell that secreted the factor) or an

endocrine manner (acting on cells at a distance). Thus secreted molecules find use in modulating or altering numerous aspects of physiology. CA proteins that are secreted proteins are particularly preferred in the present invention as they serve as good targets for diagnostic markers, for example for blood tests.

An CA sequence is initially identified by substantial nucleic acid and/or amino acid sequence homology to the CA sequences outlined herein. Such homology can be based upon the overall nucleic acid or amino acid sequence, and is generally determined as outlined below, using either homology programs or hybridization conditions.

As used herein, a nucleic acid is a "CA nucleic acid" if the overall homology of the nucleic acid sequence to one of the nucleic acids of Tables 1-40 is preferably greater than about 75%, more preferably greater than about 80%, even more preferably greater than about 85% and most preferably greater than 90%. In some embodiments the homology will be as high as about 93 to 95 or 98%. In a preferred embodiment, the sequences which are used to determine sequence identity or similarity are selected from those of the nucleic acids of Tables 1-40. In another embodiment, the sequences are naturally occurring allelic variants of the sequences of the nucleic acids of Tables 1-40. In another embodiment, the sequences are sequence variants as further described herein.

Homology in this context means sequence similarity or identity, with identity being preferred. A preferred comparison for homology purposes is to compare the sequence containing sequencing errors to the correct sequence. This homology will be determined using standard techniques known in the art, including, but not limited to, the local homology algorithm of Smith & Waterman, Adv. Appl. Math. 2:482 (1981), by the homology alignment algorithm of Needleman & Wunsch, J. Mol. Biol. 48:443 (1970), by the search for similarity method of Pearson & Lipman, PNAS USA 85:2444 (1988), by computerized implementations of these algorithms (GAP, BESTFIT, FASTA, and TFASTA in the Wisconsin Genetics Software Package, Genetics Computer Group, 575 Science Drive, Madison, WI), the Best Fit sequence program described by Devereux et al., Nucl. Acid Res. 12:387-395 (1984), preferably using the default settings, or by inspection.

One example of a useful algorithm is PILEUP. PILEUP creates a multiple sequence alignment from a group of related sequences using progressive, pairwise alignments. It can also plot a tree showing the clustering relationships used to create the alignment. PILEUP uses a simplification of the progressive alignment method of Feng & Doolittle, J. Mol. Evol. 35:351-360 (1987); the method is similar to that described by Higgins & Sharp CABIOS 5:151-153 (1989). Useful PILEUP parameters including a default gap weight of 3.00, a default gap length weight of 0.10, and weighted end gaps.

Another example of a useful algorithm is the BLAST algorithm, described in Altschul et al., J. Mol. Biol. 215, 403-410, (1990) and Karlin et al., PNAS USA 90:5873-5787 (1993). A particularly useful BLAST program is the WU-BLAST-2 program which was obtained from Altschul et al., Methods in Enzymology, 266: 460-480 (1996); http://blast.wustl]. WU-BLAST-2 uses several search parameters, most of which are set to the default values. The adjustable parameters are set with the following values: overlap span =1, overlap fraction = 0.125, word threshold (T) = 11. The HSP S and HSP S2 parameters are dynamic values and are established by the program itself depending upon the composition of the particular sequence and composition of the particular database against which the

sequence of interest is being searched; however, the values may be adjusted to increase sensitivity. A % amino acid sequence identity value is determined by the number of matching identical residues divided by the total number of residues of the "longer" sequence in the aligned region. The "longer" sequence is the one having the most actual residues in the aligned region (gaps introduced by WU-Blast-2 to maximize the alignment score are ignored).

Thus, "percent (%) nucleic acid sequence identity" is defined as the percentage of nucleotide residues in a candidate sequence that are identical with the nucleotide residues of the nucleic acids of Tables 1-40. A preferred method utilizes the BLASTN module of WU-BLAST-2 set to the default parameters, with overlap span and overlap fraction set to 1 and 0.125, respectively.

The alignment may include the introduction of gaps in the sequences to be aligned. In addition, for sequences which contain either more or fewer nucleotides than those of the nucleic acids of Tables 1-40, it is understood that the percentage of homology will be determined based on the number of homologous nucleosides in relation to the total number of nucleosides. Thus, for example, homology of sequences shorter than those of the sequences identified herein and as discussed below, will be determined using the number of nucleosides in the shorter sequence.

In one embodiment, the nucleic acid homology is determined through hybridization studies. Thus, for example, nucleic acids which hybridize under high stringency to the nucleic acids identified in the figures, or their complements, are considered CA sequences. High stringency conditions are known in the art; see for example Maniatis et al., Molecular Cloning: A Laboratory Manual, 2d Edition, 1989, and Short Protocols in Molecular Biology, ed. Ausubel, et al., both of which are hereby incorporated by reference. Stringent conditions are sequence-dependent and will be different in different circumstances. Longer sequences hybridize specifically at higher temperatures. An extensive guide to the hybridization of nucleic acids is found in Tijssen, Techniques in Biochemistry and Molecular Biology--Hybridization with Nucleic Acid Probes, "Overview of principles of hybridization and the strategy of nucleic acid assays" (1993). Generally, stringent conditions are selected to be about 5-10°C lower than the thermal melting point (Tm) for the specific sequence at a defined ionic strength pH. The Tm is the temperature (under defined ionic strength, pH and nucleic acid concentration) at which 50% of the probes complementary to the target hybridize to the target sequence at equilibrium (as the target sequences are present in excess, at Tm, 50% of the probes are occupied at equilibrium). Stringent conditions will be those in which the salt concentration is less than about 1.0 M sodium ion, typically about 0.01 to 1.0 M sodium ion concentration (or other salts) at pH 7.0 to 8.3 and the temperature is at least about 30°C for short probes (e.g. 10 to 50 nucleotides) and at least about 60°C for long probes (e.g. greater than 50 nucleotides). Stringent conditions may also be achieved with the addition of destabilizing agents such as formamide.

In another embodiment, less stringent hybridization conditions are used; for example, moderate or low stringency conditions may be used, as are known in the art; see Maniatis and Ausubel, supra, and Tijssen, supra.

In addition, the CA nucleic acid sequences of the invention are fragments of larger genes, i.e. they are nucleic acid segments. Alternatively, the CA nucleic acid sequences can serve as indicators of oncogene position, for example, the CA sequence may be an enhancer that activates a

protooncogene. "Genes" in this context includes coding regions, non-coding regions, and mixtures of coding and non-coding regions. Accordingly, as will be appreciated by those in the art, using the sequences provided herein, additional sequences of the CA genes can be obtained, using techniques well known in the art for cloning either longer sequences or the full length sequences; see Maniatis et al., and Ausubel, et al., supra, hereby expressly incorporated by reference. In general, this is done using PCR, for example, kinetic PCR.

Once the CA nucleic acid is identified, it can be cloned and, if necessary, its constituent parts recombined to form the entire CA nucleic acid. Once isolated from its natural source, e.g., contained within a plasmid or other vector or excised therefrom as a linear nucleic acid segment, the recombinant CA nucleic acid can be further used as a probe to identify and isolate other CA nucleic acids, for example additional coding regions. It can also be used as a "precursor" nucleic acid to make modified or variant CA nucleic acids and proteins.

The CA nucleic acids of the present invention are used in several ways. In a first embodiment, nucleic acid probes to the CA nucleic acids are made and attached to biochips to be used in screening and diagnostic methods, as outlined below, or for administration, for example for gene therapy and/or antisense applications. Alternatively, the CA nucleic acids that include coding regions of CA proteins can be put into expression vectors for the expression of CA proteins, again either for screening purposes or for administration to a patient.

In a preferred embodiment, nucleic acid probes to CA nucleic acids (both the nucleic acid sequences outlined in the figures and/or the complements thereof) are made. The nucleic acid probes attached to the biochip are designed to be substantially complementary to the CA nucleic acids, i.e. the target sequence (either the target sequence of the sample or to other probe sequences, for example in sandwich assays), such that hybridization of the target sequence and the probes of the present invention occurs. As outlined below, this complementarity need not be perfect; there may be any number of base pair mismatches which will interfere with hybridization between the target sequence and the single stranded nucleic acids of the present invention. However, if the number of mutations is so great that no hybridization can occur under even the least stringent of hybridization conditions, the sequence is not a complementary target sequence. Thus, by "substantially complementary" herein is meant that the probes are sufficiently complementary to the target sequences to hybridize under normal reaction conditions, particularly high stringency conditions, as outlined herein.

A nucleic acid probe is generally single stranded but can be partially single and partially double stranded. The strandedness of the probe is dictated by the structure, composition, and properties of the target sequence. In general, the nucleic acid probes range from about 8 to about 100 bases long, with from about 10 to about 80 bases being preferred, and from about 30 to about 50 bases being particularly preferred. That is, generally whole genes are not used. In some embodiments, much longer nucleic acids can be used, up to hundreds of bases.

In a preferred embodiment, more than one probe per sequence is used, with either overlapping probes or probes to different sections of the target being used. That is, two, three, four or more probes, with three being preferred, are used to build in a redundancy for a particular target. The probes can be overlapping (i.e. have some sequence in common), or separate.

As will be appreciated by those in the art, nucleic acids can be attached or immobilized to a solid support in a wide variety of ways. By "immobilized" and grammatical equivalents herein is meant the association or binding between the nucleic acid probe and the solid support is sufficient to be stable under the conditions of binding, washing, analysis, and removal as outlined below. The binding can be covalent or non-covalent. By "non-covalent binding" and grammatical equivalents herein is meant one or more of either electrostatic, hydrophilic, and hydrophobic interactions. Included in non-covalent binding is the covalent attachment of a molecule, such as, streptavidin to the support and the non-covalent binding of the biotinylated probe to the streptavidin. By "covalent binding" and grammatical equivalents herein is meant that the two moieties, the solid support and the probe, are attached by at least one bond, including sigma bonds, pi bonds and coordination bonds. Covalent bonds can be formed directly between the probe and the solid support or can be formed by a cross linker or by inclusion of a specific reactive group on either the solid support or the probe or both molecules. Immobilization may also involve a combination of covalent and non-covalent interactions.

In general, the probes are attached to the biochip in a wide variety of ways, as will be appreciated by those in the art. As described herein, the nucleic acids can either be synthesized first, with subsequent attachment to the biochip, or can be directly synthesized on the biochip.

The biochip comprises a suitable solid substrate. By "substrate" or "solid support" or other grammatical equivalents herein is meant any material that can be modified to contain discrete individual sites appropriate for the attachment or association of the nucleic acid probes and is amenable to at least one detection method. As will be appreciated by those in the art, the number of possible substrates are very large, and include, but are not limited to, glass and modified or functionalized glass, plastics (including acrylics, polystyrene and copolymers of styrene and other materials, polypropylene, polyethylene, polybutylene, polyurethanes, Teflon™, etc.), polysaccharides, nylon or nitrocellulose, resins, silica or silica-based materials including silicon and modified silicon, carbon, metals, inorganic glasses, etc. In general, the substrates allow optical detection and do not appreciably fluoresce.

In a preferred embodiment, the surface of the biochip and the probe may be derivatized with chemical functional groups for subsequent attachment of the two. Thus, for example, the biochip is derivatized with a chemical functional group including, but not limited to, amino groups, carboxy groups, oxo groups and thiol groups, with amino groups being particularly preferred. Using these functional groups, the probes can be attached using functional groups on the probes. For example, nucleic acids containing amino groups can be attached to surfaces comprising amino groups, for example using linkers as are known in the art; for example, homo-or hetero-bifunctional linkers as are well known (see 1994 Pierce Chemical Company catalog, technical section on cross-linkers, pages 155-200, incorporated herein by reference). In addition, in some cases, additional linkers, such as alkyl groups (including substituted and heteroalkyl groups) may be used.

In this embodiment, the oligonucleotides are synthesized as is known in the art, and then attached to the surface of the solid support. As will be appreciated by those skilled in the art, either the 5' or 3' terminus may be attached to the solid support, or attachment may be via an internal nucleoside.

In an additional embodiment, the immobilization to the solid support may be very strong, yet non-

covalent. For example, biotinylated oligonucleotides can be made, which bind to surfaces covalently coated with streptavidin, resulting in attachment.

Alternatively, the oligonucleotides may be synthesized on the surface, as is known in the art. For example, photoactivation techniques utilizing photopolymerization compounds and techniques are used. In a preferred embodiment, the nucleic acids can be synthesized *in situ*, using well known photolithographic techniques, such as those described in WO 95/25116; WO 95/35505; U.S. Patent Nos. 5,700,637 and 5,445,934; and references cited within, all of which are expressly incorporated by reference; these methods of attachment form the basis of the Affymetrix GeneChip technology.

In addition to the solid-phase technology represented by biochip arrays, gene expression can also be quantified using liquid-phase arrays. One such system is kinetic polymerase chain reaction (PCR). Kinetic PCR allows for the simultaneous amplification and quantification of specific nucleic acid sequences. The specificity is derived from synthetic oligonucleotide primers designed to preferentially adhere to single-stranded nucleic acid sequences bracketing the target site. This pair of oligonucleotide primers form specific, non-covalently bound complexes on each strand of the target sequence. These complexes facilitate *in vitro* transcription of double-stranded DNA in opposite orientations. Temperature cycling of the reaction mixture creates a continuous cycle of primer binding, transcription, and re-melting of the nucleic acid to individual strands. The result is an exponential increase of the target dsDNA product. This product can be quantified in real time either through the use of an intercalating dye or a sequence specific probe. SYBR® Greene I, is an example of an intercalating dye, that preferentially binds to dsDNA resulting in a concomitant increase in the fluorescent signal. Sequence specific probes, such as used with TaqMan® technology, consist of a fluorochrome and a quenching molecule covalently bound to opposite ends of an oligonucleotide. The probe is designed to selectively bind the target DNA sequence between the two primers. When the DNA strands are synthesized during the PCR reaction, the fluorochrome is cleaved from the probe by the exonuclease activity of the polymerase resulting in signal dequenching. The probe signaling method can be more specific than the intercalating dye method, but in each case, signal strength is proportional to the dsDNA product produced. Each type of quantification method can be used in multi-well liquid phase arrays with each well representing primers and/or probes specific to nucleic acid sequences of interest. When used with messenger RNA preparations of tissues or cell lines, and an array of probe/primer reactions can simultaneously quantify the expression of multiple gene products of interest. See Germer, S., et al., Genome Res. 10:258-266 (2000); Heid, C. A., et al., Genome Res. 6, 986-994 (1996).

In a preferred embodiment, CA nucleic acids encoding CA proteins are used to make a variety of expression vectors to express CA proteins which can then be used in screening assays, as described below. The expression vectors may be either self-replicating extrachromosomal vectors or vectors which integrate into a host genome. Generally, these expression vectors include transcriptional and translational regulatory nucleic acid operably linked to the nucleic acid encoding the CA protein. The term "control sequences" refers to DNA sequences necessary for the expression of an operably linked coding sequence in a particular host organism. The control sequences that are suitable for prokaryotes, for example, include a promoter, optionally an operator sequence, and a ribosome binding site. Eukaryotic cells are known to utilize promoters, polyadenylation signals, and enhancers.

Nucleic acid is "operably linked" when it is placed into a functional relationship with another nucleic acid sequence. For example, DNA for a presequence or secretory leader is operably linked to DNA for a polypeptide if it is expressed as a preprotein that participates in the secretion of the polypeptide; a promoter or enhancer is operably linked to a coding sequence if it affects the transcription of the sequence; or a ribosome binding site is operably linked to a coding sequence if it is positioned so as to facilitate translation. Generally, "operably linked" means that the DNA sequences being linked are contiguous, and, in the case of a secretory leader, contiguous and in reading phase. However, enhancers do not have to be contiguous. Linking is accomplished by ligation at convenient restriction sites. If such sites do not exist, synthetic oligonucleotide adaptors or linkers are used in accordance with conventional practice. The transcriptional and translational regulatory nucleic acid will generally be appropriate to the host cell used to express the CA protein; for example, transcriptional and translational regulatory nucleic acid sequences from *Bacillus* are preferably used to express the CA protein in *Bacillus*. Numerous types of appropriate expression vectors, and suitable regulatory sequences are known in the art for a variety of host cells.

In general, the transcriptional and translational regulatory sequences may include, but are not limited to, promoter sequences, ribosomal binding sites, transcriptional start and stop sequences, translational start and stop sequences, and enhancer or activator sequences. In a preferred embodiment, the regulatory sequences include a promoter and transcriptional start and stop sequences.

Promoter sequences encode either constitutive or inducible promoters. The promoters may be either naturally occurring promoters or hybrid promoters. Hybrid promoters, which combine elements of more than one promoter, are also known in the art, and are useful in the present invention.

In addition, the expression vector may comprise additional elements. For example, the expression vector may have two replication systems, thus allowing it to be maintained in two organisms, for example in mammalian or insect cells for expression and in a procaryotic host for cloning and amplification. Furthermore, for integrating expression vectors, the expression vector contains at least one sequence homologous to the host cell genome, and preferably two homologous sequences which flank the expression construct. The integrating vector may be directed to a specific locus in the host cell by selecting the appropriate homologous sequence for inclusion in the vector. Constructs for integrating vectors are well known in the art.

In addition, in a preferred embodiment, the expression vector contains a selectable marker gene to allow the selection of transformed host cells. Selection genes are well known in the art and will vary with the host cell used.

The CA proteins of the present invention are produced by culturing a host cell transformed with an expression vector containing nucleic acid encoding an CA protein, under the appropriate conditions to induce or cause expression of the CA protein. The conditions appropriate for CA protein expression will vary with the choice of the expression vector and the host cell, and will be easily ascertained by one skilled in the art through routine experimentation. For example, the use of constitutive promoters in the expression vector will require optimizing the growth and proliferation of the host cell, while the use of an inducible promoter requires the appropriate growth conditions for induction. In addition, in

some embodiments, the timing of the harvest is important. For example, the baculoviral systems used in insect cell expression are lytic viruses, and thus harvest time selection can be crucial for product yield.

Appropriate host cells include yeast, bacteria, archaebacteria, fungi, and insect, plant and animal cells, including mammalian cells. Of particular interest are *Drosophila melanogaster* cells, *Saccharomyces cerevisiae* and other yeasts, *E. coli*, *Bacillus subtilis*, Sf9 cells, C129 cells, 293 cells, *Neurospora*, BHK, CHO, COS, HeLa cells, THP1 cell line (a macrophage cell line) and human cells and cell lines.

In a preferred embodiment, the CA proteins are expressed in mammalian cells. Mammalian expression systems are also known in the art, and include retroviral systems. A preferred expression vector system is a retroviral vector system such as is generally described in PCT/US97/01019 and PCT/US97/01048, both of which are hereby expressly incorporated by reference. Of particular use as mammalian promoters are the promoters from mammalian viral genes, since the viral genes are often highly expressed and have a broad host range. Examples include the SV40 early promoter, mouse mammary tumor virus LTR promoter, adenovirus major late promoter, herpes simplex virus promoter, and the CMV promoter. Typically, transcription termination and polyadenylation sequences recognized by mammalian cells are regulatory regions located 3' to the translation stop codon and thus, together with the promoter elements, flank the coding sequence. Examples of transcription terminator and polyadenlytion signals include those derived form SV40.

The methods of introducing exogenous nucleic acid into mammalian hosts, as well as other hosts, is well known in the art, and will vary with the host cell used. Techniques include dextran-mediated transfection, calcium phosphate precipitation, polybrene mediated transfection, protoplast fusion, electroporation, viral infection, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei.

In a preferred embodiment, CA proteins are expressed in bacterial systems. Bacterial expression systems are well known in the art. Promoters from bacteriophage may also be used and are known in the art. In addition, synthetic promoters and hybrid promoters are also useful; for example, the tac promoter is a hybrid of the trp and lac promoter sequences. Furthermore, a bacterial promoter can include naturally occurring promoters of non-bacterial origin that have the ability to bind bacterial RNA polymerase and initiate transcription. In addition to a functioning promoter sequence, an efficient ribosome binding site is desirable. The expression vector may also include a signal peptide sequence that provides for secretion of the CA protein in bacteria. The protein is either secreted into the growth media (gram-positive bacteria) or into the periplasmic space, located between the inner and outer membrane of the cell (gram-negative bacteria). The bacterial expression vector may also include a selectable marker gene to allow for the selection of bacterial strains that have been transformed. Suitable selection genes include genes which render the bacteria resistant to drugs such as ampicillin, chloramphenicol, erythromycin, kanamycin, neomycin and tetracycline. Selectable markers also include biosynthetic genes, such as those in the histidine, tryptophan and leucine biosynthetic pathways. These components are assembled into expression vectors. Expression vectors for bacteria are well known in the art, and include vectors for *Bacillus subtilis*, *E. coli*, *Streptococcus cremoris*, and *Streptococcus lividans*, among others. The bacterial expression vectors are transformed into bacterial host cells using techniques well known in the art, such as calcium chloride treatment, electroporation,

and others.

In one embodiment, CA proteins are produced in insect cells. Expression vectors for the transformation of insect cells, and in particular, baculovirus-based expression vectors, are well known in the art.

In a preferred embodiment, CA protein is produced in yeast cells. Yeast expression systems are well known in the art, and include expression vectors for *Saccharomyces cerevisiae*, *Candida albicans* and *C. maltosa*, *Hansenula polymorpha*, *Kluyveromyces fragilis* and *K. lactis*, *Pichia guillerimondii* and *P. pastoris*, *Schizosaccharomyces pombe*, and *Yarrowia lipolytica*.

The CA protein may also be made as a fusion protein, using techniques well known in the art. Thus, for example, for the creation of monoclonal antibodies. If the desired epitope is small, the CA protein may be fused to a carrier protein to form an immunogen. Alternatively, the CA protein may be made as a fusion protein to increase expression, or for other reasons. For example, when the CA protein is an CA peptide, the nucleic acid encoding the peptide may be linked to other nucleic acid for expression purposes.

In one embodiment, the CA nucleic acids, proteins and antibodies of the invention are labeled. By "labeled" herein is meant that a compound has at least one element, isotope or chemical compound attached to enable the detection of the compound. In general, labels fall into three classes: a) isotopic labels, which may be radioactive or heavy isotopes; b) immune labels, which may be antibodies or antigens; and c) colored or fluorescent dyes. The labels may be incorporated into the CA nucleic acids, proteins and antibodies at any position. For example, the label should be capable of producing, either directly or indirectly, a detectable signal. The detectable moiety may be a radioisotope, such as ^{3}H, ^{14}C, ^{32}P, ^{35}S, or ^{125}I, a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin, or an enzyme, such as alkaline phosphatase, beta-galactosidase or horseradish peroxidase. Any method known in the art for conjugating the antibody to the label may be employed, including those methods described by Hunter et al., Nature, 144:945 (1962); David et al., Biochemistry, 13:1014 (1974); Pain et al., J. Immunol. Meth., 40:219 (1981); and Nygren, J. Histochem. and Cytochem., 30:407 (1982).

Accordingly, the present invention also provides CA protein sequences. An CA protein of the present invention may be identified in several ways. "Protein" in this sense includes proteins, polypeptides, and peptides. As will be appreciated by those in the art, the nucleic acid sequences of the invention can be used to generate protein sequences. There are a variety of ways to do this, including cloning the entire gene and verifying its frame and amino acid sequence, or by comparing it to known sequences to search for homology to provide a frame, assuming the CA protein has homology to some protein in the database being used. Generally, the nucleic acid sequences are input into a program that will search all three frames for homology. This is done in a preferred embodiment using the following NCBI Advanced BLAST parameters. The program is blastx or blastn. The database is nr. The input data is as "Sequence in FASTA format". The organism list is "none". The "expect" is 10; the filter is default. The "descriptions" is 500, the "alignments" is 500, and the "alignment view" is pairwise. The "query Genetic Codes" is standard (1). The matrix is BLOSUM62; gap existence cost is 11, per residue gap cost is 1; and the lambda ratio is .85 default. This results in the generation of a

putative protein sequence.

Also included within one embodiment of CA proteins are amino acid variants of the naturally occurring sequences, as determined herein. Preferably, the variants are preferably greater than about 75% homologous to the wild-type sequence, more preferably greater than about 80%, even more preferably greater than about 85% and most preferably greater than 90%. In some embodiments the homology will be as high as about 93 to 95 or 98%. As for nucleic acids, homology in this context means sequence similarity or identity, with identity being preferred. This homology will be determined using standard techniques known in the art as are outlined above for the nucleic acid homologies.

CA proteins of the present invention may be shorter or longer than the wild type amino acid sequences. Thus, in a preferred embodiment, included within the definition of CA proteins are portions or fragments of the wild type sequences herein. In addition, as outlined above, the CA nucleic acids of the invention may be used to obtain additional coding regions, and thus additional protein sequence, using techniques known in the art.

In a preferred embodiment, the CA proteins are derivative or variant CA proteins as compared to the wild-type sequence. That is, as outlined more fully below, the derivative CA peptide will contain at least one amino acid substitution, deletion or insertion, with amino acid substitutions being particularly preferred. The amino acid substitution, insertion or deletion may occur at any residue within the CA peptide.

Also included in an embodiment of CA proteins of the present invention are amino acid sequence variants. These variants fall into one or more of three classes: substitutional, insertional or deletional variants. These variants ordinarily are prepared by site specific mutagenesis of nucleotides in the DNA encoding the CA protein, using cassette or PCR mutagenesis or other techniques well known in the art, to produce DNA encoding the variant, and thereafter expressing the DNA in recombinant cell culture as outlined above. However, variant CA protein fragments having up to about 100-150 residues may be prepared by *in vitro* synthesis using established techniques. Amino acid sequence variants are characterized by the predetermined nature of the variation, a feature that sets them apart from naturally occurring allelic or interspecies variation of the CA protein amino acid sequence. The variants typically exhibit the same qualitative biological activity as the naturally occurring analogue, although variants can also be selected which have modified characteristics as will be more fully outlined below.

While the site or region for introducing an amino acid sequence variation is predetermined, the mutation per se need not be predetermined. For example, in order to optimize the performance of a mutation at a given site, random mutagenesis may be conducted at the target codon or region and the expressed CA variants screened for the optimal combination of desired activity. Techniques for making substitution mutations at predetermined sites in DNA having a known sequence are well known, for example, M13 primer mutagenesis and LAR mutagenesis. Screening of the mutants is done using assays of CA protein activities.

Amino acid substitutions are typically of single residues; insertions usually will be on the order of from about 1 to 20 amino acids, although considerably larger insertions may be tolerated. Deletions range

from about 1 to about 20 residues, although in some cases deletions may be much larger.

Substitutions, deletions, insertions or any combination thereof may be used to arrive at a final derivative. Generally these changes are done on a few amino acids to minimize the alteration of the molecule. However, larger changes may be tolerated in certain circumstances. When small alterations in the characteristics of the CA protein are desired, substitutions are generally made in accordance with the following chart:

Chart I

Original Residue	Exemplary Substitutions
Ala	Ser
Arg	Lys
Asn	Gln, His
Asp	Glu
Cys	Ser
Gln	Asn
Glu	Asp
Gly	Pro
His	Asn, Gln
Ile	Leu, Val
Leu	Ile, Val
Lys	Arg, Gln, Glu
Met	Leu, Ile
Phe	Met, Leu, Tyr
Ser	Thr
Thr	Ser
Trp	Tyr
Tyr	Trp, Phe
Val	Ile, Leu

Substantial changes in function or immunological identity are made by selecting substitutions that are less conservative than those shown in Chart I. For example, substitutions may be made which more significantly affect: the structure of the polypeptide backbone in the area of the alteration, for example the alpha-helical or beta-sheet structure; the charge or hydrophobicity of the molecule at the target site; or the bulk of the side chain. The substitutions which in general are expected to produce the greatest changes in the polypeptide's properties are those in which (a) a hydrophilic residue, e.g. seryl or threonyl is substituted for (or by) a hydrophobic residue, e.g. leucyl, isoleucyl, phenylalanyl, valyl or alanyl; (b) a cysteine or proline is substituted for (or by) any other residue; (c) a residue having an electropositive side chain, e.g. lysyl, arginyl, or histidyl, is substituted for (or by) an electronegative residue, e.g. glutamyl or aspartyl; or (d) a residue having a bulky side chain, e.g. phenylalanine, is substituted for (or by) one not having a side chain, e.g. glycine.

The variants typically exhibit the same qualitative biological activity and will elicit the same immune response as the naturally-occurring analogue, although variants also are selected to modify the

characteristics of the CA proteins as needed. Alternatively, the variant may be designed such that the biological activity of the CA protein is altered. For example, glycosylation sites may be altered or removed, dominant negative mutations created, etc.

Covalent modifications of CA polypeptides are included within the scope of this invention, for example for use in screening. One type of covalent modification includes reacting targeted amino acid residues of an CA polypeptide with an organic derivatizing agent that is capable of reacting with selected side chains or the N-or C-terminal residues of an CA polypeptide. Derivatization with bifunctional agents is useful, for instance, for crosslinking CA polypeptides to a water-insoluble support matrix or surface for use in the method for purifying anti-CA antibodies or screening assays, as is more fully described below. Commonly used crosslinking agents include, e.g., 1,1-bis(diazoacetyl)-2-phenylethane, glutaraldehyde, N-hydroxysuccinimide esters, for example, esters with 4-azidosalicylic acid, homobifunctional imidoesters, including disuccinimidyl esters such as 3,3'-dithiobis(succinimidylpropionate), bifunctional maleimides such as bis-N-maleimido-1,8-octane and agents such as methyl-3-[(p-azidophenyl)dithio]propioimidate.

Other modifications include deamidation of glutaminyl and asparaginyl residues to the corresponding glutamyl and aspartyl residues, respectively, hydroxylation of proline and lysine, phosphorylation of hydroxyl groups of seryl, threonyl or tyrosyl residues, methylation of the a-amino groups of lysine, arginine, and histidine side chains [T.E. Creighton, Proteins: Structure and Molecular Properties, W.H. Freeman & Co., San Francisco, pp. 79-86 (1983)], acetylation of the N-terminal amine, and amidation of any C-terminal carboxyl group.

Another type of covalent modification of the CA polypeptide included within the scope of this invention comprises altering the native glycosylation pattern of the polypeptide. "Altering the native glycosylation pattern" is intended for purposes herein to mean deleting one or more carbohydrate moieties found in native sequence CA polypeptide, and/or adding one or more glycosylation sites that are not present in the native sequence CA polypeptide.

Addition of glycosylation sites to CA polypeptides may be accomplished by altering the amino acid sequence thereof. The alteration may be made, for example, by the addition of, or substitution by, one or more serine or threonine residues to the native sequence CA polypeptide (for O-linked glycosylation sites). The CA amino acid sequence may optionally be altered through changes at the DNA level, particularly by mutating the DNA encoding the CA polypeptide at preselected bases such that codons are generated that will translate into the desired amino acids.

Another means of increasing the number of carbohydrate moieties on the CA polypeptide is by chemical or enzymatic coupling of glycosides to the polypeptide. Such methods are described in the art, e.g., in WO 87/05330 published 11 September 1987, and in Aplin and Wriston, LA Crit. Rev. Biochem., pp. 259-306 (1981).

Removal of carbohydrate moieties present on the CA polypeptide may be accomplished chemically or enzymatically or by mutational substitution of codons encoding for amino acid residues that serve as targets for glycosylation. Chemical deglycosylation techniques are known in the art and described, for instance, by Hakimuddin, et al., Arch. Biochem. Biophys., 259:52 (1987) and by Edge et al., Anal.

Biochem., 118:131 (1981). Enzymatic cleavage of carbohydrate moieties on polypeptides can be achieved by the use of a variety of endo-and exo-glycosidases as described by Thotakura et al., Meth. Enzymol., 138:350 (1987).

Another type of covalent modification of CA comprises linking the CA polypeptide to one of a variety of nonproteinaceous polymers, e.g., polyethylene glycol, polypropylene glycol, or polyoxyalkylenes, in the manner set forth in U.S. Patent Nos. 4,640,835; 4,496,689; 4,301,144; 4,670,417; 4,791,192 or 4,179,337.

CA polypeptides of the present invention may also be modified in a way to form chimeric molecules comprising an CA polypeptide fused to another, heterologous polypeptide or amino acid sequence. In one embodiment, such a chimeric molecule comprises a fusion of an CA polypeptide with a tag polypeptide which provides an epitope to which an anti-tag antibody can selectively bind. The epitope tag is generally placed at the amino-or carboxyl-terminus of the CA polypeptide, although internal fusions may also be tolerated in some instances. The presence of such epitope-tagged forms of an CA polypeptide can be detected using an antibody against the tag polypeptide. Also, provision of the epitope tag enables the CA polypeptide to be readily purified by affinity purification using an anti-tag antibody or another type of affinity matrix that binds to the epitope tag. In an alternative embodiment, the chimeric molecule may comprise a fusion of an CA polypeptide with an immunoglobulin or a particular region of an immunoglobulin. For a bivalent form of the chimeric molecule, such a fusion could be to the Fc region of an IgG molecule.

Various tag polypeptides and their respective antibodies are well known in the art. Examples include poly-histidine (poly-his) or poly-histidine-glycine (poly-his-gly) tags; the flu HA tag polypeptide and its antibody 12CA5 [Field et al., Mol. Cell. Biol., 8:2159-2165 (1988)]; the c-myc tag and the 8F9, 3C7, 6E10, G4, B7 and 9E10 antibodies thereto [Evan et al., Molecular and Cellular Biology, 5:3610-3616 (1985)]; and the Herpes Simplex virus glycoprotein D (gD) tag and its antibody [Paborsky et al., Protein Engineering, 3(6):547-553 (1990)]. Other tag polypeptides include the Flag-peptide [Hopp et al., BioTechnology, 6:1204-1210 (1988)]; the KT3 epitope peptide [Martin et al., Science, 255:192-194 (1992)]; tubulin epitope peptide [Skinner et al., J. Biol. Chem., 266:15163-15166 (1991)]; and the T7 gene 10 protein peptide tag [Lutz-Freyermuth et al., Proc. Natl. Acad. Sci. USA, 87:6393-6397 (1990)].

Also included with the definition of CA protein in one embodiment are other CA proteins of the CA family, and CA proteins from other organisms, which are cloned and expressed as outlined below. Thus, probe or degenerate polymerase chain reaction (PCR) primer sequences may be used to find other related CA proteins from humans or other organisms. As will be appreciated by those in the art, particularly useful probe and/or PCR primer sequences include the unique areas of the CA nucleic acid sequence. As is generally known in the art, preferred PCR primers are from about 15 to about 35 nucleotides in length, with from about 20 to about 30 being preferred, and may contain inosine as needed. The conditions for the PCR reaction are well known in the art.

In addition, as is outlined herein, CA proteins can be made that are longer than those encoded by the nucleic acids of the figures, for example, by the elucidation of additional sequences, the addition of epitope or purification tags, the addition of other fusion sequences, etc.

CA proteins may also be identified as being encoded by CA nucleic acids. Thus, CA proteins are encoded by nucleic acids that will hybridize to the sequences of the sequence listings, or their complements, as outlined herein.

In a preferred embodiment, the invention provides CA antibodies. In a preferred embodiment, when the CA protein is to be used to generate antibodies, for example for immunotherapy, the CA protein should share at least one epitope or determinant with the full length protein. By "epitope" or "determinant" herein is meant a portion of a protein which will generate and/or bind an antibody or T-cell receptor in the context of MHC. Thus, in most instances, antibodies made to a smaller CA protein will be able to bind to the full length protein. In a preferred embodiment, the epitope is unique; that is, antibodies generated to a unique epitope show little or no cross-reactivity.

In one embodiment, the term "antibody" includes antibody fragments, as are known in the art, including Fab, Fab_2, single chain antibodies (Fv for example), chimeric antibodies, etc., either produced by the modification of whole antibodies or those synthesized de novo using recombinant DNA technologies.

Methods of preparing polyclonal antibodies are known to the skilled artisan. Polyclonal antibodies can be raised in a mammal, for example, by one or more injections of an immunizing agent and, if desired, an adjuvant. Typically, the immunizing agent and/or adjuvant will be injected in the mammal by multiple subcutaneous or intraperitoneal injections. The immunizing agent may include a protein encoded by a nucleic acid of the figures or fragment thereof or a fusion protein thereof. It may be useful to conjugate the immunizing agent to a protein known to be immunogenic in the mammal being immunized. Examples of such immunogenic proteins include but are not limited to keyhole limpet hemocyanin, serum albumin, bovine thyroglobulin, and soybean trypsin inhibitor. Examples of adjuvants which may be employed include Freund's complete adjuvant and MPL-TDM adjuvant (monophosphoryl Lipid A, synthetic trehalose dicorynomycolate). The immunization protocol may be selected by one skilled in the art without undue experimentation.

The antibodies may, alternatively, be monoclonal antibodies. Monoclonal antibodies may be prepared using hybridoma methods, such as those described by Kohler and Milstein, Nature, 256:495 (1975). In a hybridoma method, a mouse, hamster, or other appropriate host animal, is typically immunized with an immunizing agent to elicit lymphocytes that produce or are capable of producing antibodies that will specifically bind to the immunizing agent. Alternatively, the lymphocytes may be immunized *in vitro*. The immunizing agent will typically include a polypeptide encoded by a nucleic acid of Tables 1-40, or fragment thereof or a fusion protein thereof. Generally, either peripheral blood lymphocytes ("PBLs") are used if cells of human origin are desired, or spleen cells or lymph node cells are used if non-human mammalian sources are desired. The lymphocytes are then fused with an immortalized cell line using a suitable fusing agent, such as polyethylene glycol, to form a hybridoma cell [Goding, Monoclonal Antibodies: Principles and Practice, Academic Press, (1986) pp. 59-103]. Immortalized cell lines are usually transformed mammalian cells, particularly myeloma cells of rodent, bovine and human origin. Usually, rat or mouse myeloma cell lines are employed. The hybridoma cells may be cultured in a suitable culture medium that preferably contains one or more substances that inhibit the growth or survival of the unfused, immortalized cells. For example, if the parental cells lack the enzyme hypoxanthine guanine phosphoribosyl transferase (HGPRT or HPRT), the culture medium for

the hybridomas typically will include hypoxanthine, aminopterin, and thymidine ("HAT medium"), which substances prevent the growth of HGPRT-deficient cells.

In one embodiment, the antibodies are bispecific antibodies. Bispecific antibodies are monoclonal, preferably human or humanized, antibodies that have binding specificities for at least two different antigens. In the present case, one of the binding specificities is for a protein encoded by a nucleic acid of Tables 1-40, or a fragment thereof, the other one is for any other antigen, and preferably for a cell-surface protein or receptor or receptor subunit, preferably one that is tumor specific.

In a preferred embodiment, the antibodies to CA are capable of reducing or eliminating the biological function of CA, as is described below. That is, the addition of anti-CA antibodies (either polyclonal or preferably monoclonal) to CA (or cells containing CA) may reduce or eliminate the CA activity. Generally, at least a 25% decrease in activity is preferred, with at least about 50% being particularly preferred and about a 95-100% decrease being especially preferred.

In a preferred embodiment the antibodies to the CA proteins are humanized antibodies. Humanized forms of non-human (e.g., murine) antibodies are chimeric molecules of immunoglobulins, immunoglobulin chains or fragments thereof (such as Fv, Fab, Fab', $F(ab')_2$ or other antigen binding subsequences of antibodies) which contain minimal sequence derived from non-human immunoglobulin. Humanized antibodies include human immunoglobulins (recipient antibody) in which residues form a complementary determining region (CDR) of the recipient are replaced by residues from a CDR of a non-human species (donor antibody) such as mouse, rat or rabbit having the desired specificity, affinity and capacity. In some instances, Fv framework residues of the human immunoglobulin are replaced by corresponding non-human residues. Humanized antibodies may also comprise residues which are found neither in the recipient antibody nor in the imported CDR or framework sequences. In general, the humanized antibody will comprise substantially all of at least one, and typically two, variable domains, in which all or substantially all of the CDR regions correspond to those of a non-human immunoglobulin and all or substantially all of the framework residues (FR) regions are those of a human immunoglobulin consensus sequence. The humanized antibody optimally also will comprise at least a portion of an immunoglobulin constant region (Fc), typically that of a human immunoglobulin [Jones et al., Nature, 321:522-525 (1986); Riechmann et al., Nature, 332:323-329 (1988); and Presta, Curr. Op. Struct. Biol., 2:593-596 (1992)].

Methods for humanizing non-human antibodies are well known in the art. Generally, a humanized antibody has one or more amino acid residues introduced into it from a source which is non-human. These non-human amino acid residues are often referred to as import residues, which are typically taken from an import variable domain. Humanization can be essentially performed following the method of Winter and co-workers [Jones et al., Nature, 321:522-525 (1986); Riechmann et al., Nature, 332:323-327 (1988); Verhoeyen et al., Science, 239:1534-1536 (1988)], by substituting rodent CDRs or CDR sequences for the corresponding sequences of a human antibody. Accordingly, such humanized antibodies are chimeric antibodies (U.S. Patent No. 4,816,567), wherein substantially less than an intact human variable domain has been substituted by the corresponding sequence from a non-human species. In practice, humanized antibodies are typically human antibodies in which some CDR residues and possibly some FR residues are substituted by residues from analogous sites in rodent antibodies.

Human antibodies can also be produced using various techniques known in the art, including phage display libraries [Hoogenboom and Winter, J. Mol. Biol., 227:381 (1991); Marks et al., J. Mol. Biol., 222:581 (1991)]. The techniques of Cole et al. and Boerner et al. are also available for the preparation of human monoclonal antibodies [Cole et al., Monoclonal Antibodies and Cancer Therapy, Alan R. Liss, p. 77 (1985) and Boerner et al., J. Immunol., 147(1):86-95 (1991)]. Similarly, human antibodies can be made by introducing human immunoglobulin loci into transgenic animals, e.g., mice in which the endogenous immunoglobulin genes have been partially or completely inactivated. Upon challenge, human antibody production is observed, which closely resembles that seen in humans in all respects, including gene rearrangement, assembly, and antibody repertoire. This approach is described, for example, in U.S. Patent Nos. 5,545,807; 5,545,806; 5,569,825; 5,625,126; 5,633,425; 5,661,016, and in the following scientific publications: Marks et al., Bio/Technology 10, 779-783 (1992); Lonberg et al., Nature 368 856-859 (1994); Morrison, Nature 368, 812-13 (1994); Fishwild et al., Nature Biotechnology 14, 845-51 (1996); Neuberger, Nature Biotechnology 14, 826 (1996); Lonberg and Huszar, Intern. Rev. Immunol. 13 65-93 (1995).

By immunotherapy is meant treatment of a carcinoma with an antibody raised against an CA protein. As used herein, immunotherapy can be passive or active. Passive immunotherapy as defined herein is the passive transfer of antibody to a recipient (patient). Active immunization is the induction of antibody and/or T-cell responses in a recipient (patient). Induction of an immune response is the result of providing the recipient with an antigen to which antibodies are raised. As appreciated by one of ordinary skill in the art, the antigen may be provided by injecting a polypeptide against which antibodies are desired to be raised into a recipient, or contacting the recipient with a nucleic acid capable of expressing the antigen and under conditions for expression of the antigen.

In a preferred embodiment, oncogenes which encode secreted growth factors may be inhibited by raising antibodies against CA proteins that are secreted proteins as described above. Without being bound by theory, antibodies used for treatment, bind and prevent the secreted protein from binding to its receptor, thereby inactivating the secreted CA protein.

In another preferred embodiment, the CA protein to which antibodies are raised is a transmembrane protein. Without being bound by theory, antibodies used for treatment, bind the extracellular domain of the CA protein and prevent it from binding to other proteins, such as circulating ligands or cell-associated molecules. The antibody may cause down-regulation of the transmembrane CA protein. As will be appreciated by one of ordinary skill in the art, the antibody may be a competitive, non-competitive or uncompetitive inhibitor of protein binding to the extracellular domain of the CA protein. The antibody is also an antagonist of the CA protein. Further, the antibody prevents activation of the transmembrane CA protein. In one aspect, when the antibody prevents the binding of other molecules to the CA protein, the antibody prevents growth of the cell. The antibody may also sensitize the cell to cytotoxic agents, including, but not limited to TNF-α, TNF-β, IL-1, INF-γ and IL-2, or chemotherapeutic agents including 5FU, vinblastine, actinomycin D, cisplatin, methotrexate, and the like. In some instances the antibody belongs to a sub-type that activates serum complement when complexed with the transmembrane protein thereby mediating cytotoxicity. Thus, carcinomas may be treated by administering to a patient antibodies directed against the transmembrane CA protein.

In another preferred embodiment, the antibody is conjugated to a therapeutic moiety. In one aspect

the therapeutic moiety is a small molecule that modulates the activity of the CA protein. In another aspect the therapeutic moiety modulates the activity of molecules associated with or in close proximity to the CA protein. The therapeutic moiety may inhibit enzymatic activity such as protease or protein kinase activity associated with carcinoma.

In a preferred embodiment, the therapeutic moiety may also be a cytotoxic agent. In this method, targeting the cytotoxic agent to tumor tissue or cells, results in a reduction in the number of afflicted cells, thereby reducing symptoms associated with carcinomas, including lymphoma. Cytotoxic agents are numerous and varied and include, but are not limited to, cytotoxic drugs or toxins or active fragments of such toxins. Suitable toxins and their corresponding fragments include diphtheria A chain, exotoxin A chain, ricin A chain, abrin A chain, curcin, crotin, phenomycin, enomycin and the like. Cytotoxic agents also include radiochemicals made by conjugating radioisotopes to antibodies raised against CA proteins, or binding of a radionuclide to a chelating agent that has been covalently attached to the antibody. Targeting the therapeutic moiety to transmembrane CA proteins not only serves to increase the local concentration of therapeutic moiety in the carcinoma of interest, i.e., lymphoma, but also serves to reduce deleterious side effects that may be associated with the therapeutic moiety.

In another preferred embodiment, the CA protein against which the antibodies are raised is an intracellular protein. In this case, the antibody may be conjugated to a protein which facilitates entry into the cell. In one case, the antibody enters the cell by endocytosis. In another embodiment, a nucleic acid encoding the antibody is administered to the individual or cell. Moreover, wherein the CA protein can be targeted within a cell, i.e., the nucleus, an antibody thereto contains a signal for that target localization, i.e., a nuclear localization signal.

The CA antibodies of the invention specifically bind to CA proteins. By "specifically bind" herein is meant that the antibodies bind to the protein with a binding constant in the range of at least 10^{-4}- 10^{-6} M^{-1}, with a preferred range being 10^{-7} - 10^{-9} M^{-1}.

In a preferred embodiment, the CA protein is purified or isolated after expression. CA proteins may be isolated or purified in a variety of ways known to those skilled in the art depending on what other components are present in the sample. Standard purification methods include electrophoretic, molecular, immunological and chromatographic techniques, including ion exchange, hydrophobic, affinity, and reverse-phase HPLC chromatography, and chromatofocusing. For example, the CA protein may be purified using a standard anti-CA antibody column. Ultrafiltration and diafiltration techniques, in conjunction with protein concentration, are also useful. For general guidance in suitable purification techniques, see Scopes, R., Protein Purification, Springer-Verlag, NY (1982). The degree of purification necessary will vary depending on the use of the CA protein. In some instances no purification will be necessary.

Once expressed and purified if necessary, the CA proteins and nucleic acids are useful in a number of applications.

In one aspect, the expression levels of genes are determined for different cellular states in the carcinoma phenotype; that is, the expression levels of genes in normal tissue and in carcinoma tissue

(and in some cases, for varying severities of lymphoma that relate to prognosis, as outlined below) are evaluated to provide expression profiles. An expression profile of a particular cell state or point of development is essentially a "fingerprint" of the state; while two states may have any particular gene similarly expressed, the evaluation of a number of genes simultaneously allows the generation of a gene expression profile that is unique to the state of the cell. By comparing expression profiles of cells in different states, information regarding which genes are important (including both up- and down-regulation of genes) in each of these states is obtained. Then, diagnosis may be done or confirmed: does tissue from a particular patient have the gene expression profile of normal or carcinoma tissue.

"Differential expression," or grammatical equivalents as used herein, refers to both qualitative as well as quantitative differences in the genes temporal and/or cellular expression patterns within and among the cells. Thus, a differentially expressed gene can qualitatively have its expression altered, including an activation or inactivation, in, for example, normal versus carcinoma tissue. That is, genes may be turned on or turned off in a particular state, relative to another state. As is apparent to the skilled artisan, any comparison of two or more states can be made. Such a qualitatively regulated gene will exhibit an expression pattern within a state or cell type which is detectable by standard techniques in one such state or cell type, but is not detectable in both. Alternatively, the determination is quantitative in that expression is increased or decreased; that is, the expression of the gene is either upregulated, resulting in an increased amount of transcript, or downregulated, resulting in a decreased amount of transcript. The degree to which expression differs need only be large enough to quantify via standard characterization techniques as outlined below, such as by use of Affymetrix GeneChip® expression arrays, Lockhart, Nature Biotechnology, 14:1675-1680 (1996), hereby expressly incorporated by reference. Other techniques include, but are not limited to, quantitative reverse transcriptase PCR, Northern analysis and RNase protection. As outlined above, preferably the change in expression (i.e. upregulation or downregulation) is at least about 50%, more preferably at least about 100%, more preferably at least about 150%, more preferably, at least about 200%, with from 300 to at least 1000% being especially preferred.

As will be appreciated by those in the art, this may be done by evaluation at either the gene transcript, or the protein level; that is, the amount of gene expression may be monitored using nucleic acid probes to the DNA or RNA equivalent of the gene transcript, and the quantification of gene expression levels, or, alternatively, the final gene product itself (protein) can be monitored, for example through the use of antibodies to the CA protein and standard immunoassays (ELISAs, etc.) or other techniques, including mass spectroscopy assays, 2D gel electrophoresis assays, etc. Thus, the proteins corresponding to CA genes, i.e. those identified as being important in a particular carcinoma phenotype, i.e., lymphoma, can be evaluated in a diagnostic test specific for that carcinoma.

In a preferred embodiment, gene expression monitoring is done and a number of genes, i.e. an expression profile, is monitored simultaneously, although multiple protein expression monitoring can be done as well. Similarly, these assays may be done on an individual basis as well.

In this embodiment, the CA nucleic acid probes may be attached to biochips as outlined herein for the detection and quantification of CA sequences in a particular cell. The assays are done as is known in the art. As will be appreciated by those in the art, any number of different CA sequences may be used as probes, with single sequence assays being used in some cases, and a plurality of the sequences

described herein being used in other embodiments. In addition, while solid-phase assays are described, any number of solution based assays may be done as well.

In a preferred embodiment, both solid and solution based assays may be used to detect CA sequences that are up-regulated or down-regulated in carcinomas as compared to normal tissue. In instances where the CA sequence has been altered but shows the same expression profile or an altered expression profile, the protein will be detected as outlined herein.

In a preferred embodiment nucleic acids encoding the CA protein are detected. Although DNA or RNA encoding the CA protein may be detected, of particular interest are methods wherein the mRNA encoding a CA protein is detected. The presence of mRNA in a sample is an indication that the CA gene has been transcribed to form the mRNA, and suggests that the protein is expressed. Probes to detect the mRNA can be any nucleotide/deoxynucleotide probe that is complementary to and base pairs with the mRNA and includes but is not limited to oligonucleotides, cDNA or RNA. Probes also should contain a detectable label, as defined herein. In one method the mRNA is detected after immobilizing the nucleic acid to be examined on a solid support such as nylon membranes and hybridizing the probe with the sample. Following washing to remove the non-specifically bound probe, the label is detected. In another method detection of the mRNA is performed *in situ*. In this method permeabilized cells or tissue samples are contacted with a detectably labeled nucleic acid probe for sufficient time to allow the probe to hybridize with the target mRNA. Following washing to remove the non-specifically bound probe, the label is detected. For example a digoxygenin labeled riboprobe (RNA probe) that is complementary to the mRNA encoding a CA protein is detected by binding the digoxygenin with an anti-digoxygenin secondary antibody and developed with nitro blue tetrazolium and 5-bromo-4-chloro-3-indoyl phosphate.

In a preferred embodiment, any of the three classes of proteins as described herein (secreted, transmembrane or intracellular proteins) are used in diagnostic assays. The CA proteins, antibodies, nucleic acids, modified proteins and cells containing CA sequences are used in diagnostic assays. This can be done on an individual gene or corresponding polypeptide level, or as sets of assays.

As described and defined herein, CA proteins find use as markers of carcinomas, including lymphomas such as, but not limited to, Hodgkin's and non-Hodgkin lymphoma. Detection of these proteins in putative carcinoma tissue or patients allows for a determination or diagnosis of the type of carcinoma. Numerous methods known to those of ordinary skill in the art find use in detecting carcinomas. In one embodiment, antibodies are used to detect CA proteins. A preferred method separates proteins from a sample or patient by electrophoresis on a gel (typically a denaturing and reducing protein gel, but may be any other type of gel including isoelectric focusing gels and the like). Following separation of proteins, the CA protein is detected by immunoblotting with antibodies raised against the CA protein. Methods of immunoblotting are well known to those of ordinary skill in the art.

In another preferred method, antibodies to the CA protein find use in *in situ* imaging techniques. In this method cells are contacted with from one to many antibodies to the CA protein(s). Following washing to remove non-specific antibody binding, the presence of the antibody or antibodies is detected. In one embodiment the antibody is detected by incubating with a secondary antibody that contains a detectable label. In another method the primary antibody to the CA protein(s) contains a

detectable label. In another preferred embodiment each one of multiple primary antibodies contains a distinct and detectable label. This method finds particular use in simultaneous screening for a plurality of CA proteins. As will be appreciated by one of ordinary skill in the art, numerous other histological imaging techniques are useful in the invention.

In a preferred embodiment the label is detected in a fluorometer which has the ability to detect and distinguish emissions of different wavelengths. In addition, a fluorescence activated cell sorter (FACS) can be used in the method.

In another preferred embodiment, antibodies find use in diagnosing carcinomas from blood samples. As previously described, certain CA proteins are secreted/circulating molecules. Blood samples, therefore, are useful as samples to be probed or tested for the presence of secreted CA proteins. Antibodies can be used to detect the CA proteins by any of the previously described immunoassay techniques including ELISA, immunoblotting (Western blotting), immunoprecipitation, BIACORE technology and the like, as will be appreciated by one of ordinary skill in the art.

In a preferred embodiment, *in situ* hybridization of labeled CA nucleic acid probes to tissue arrays is done. For example, arrays of tissue samples, including CA tissue and/or normal tissue, are made. *In situ* hybridization as is known in the art can then be done.

It is understood that when comparing the expression fingerprints between an individual and a standard, the skilled artisan can make a diagnosis as well as a prognosis. It is further understood that the genes which indicate the diagnosis may differ from those which indicate the prognosis.

In a preferred embodiment, the CA proteins, antibodies, nucleic acids, modified proteins and cells containing CA sequences are used in prognosis assays. As above, gene expression profiles can be generated that correlate to carcinoma, especially lymphoma, severity, in terms of long term prognosis. Again, this may be done on either a protein or gene level, with the use of genes being preferred. As above, the CA probes are attached to biochips for the detection and quantification of CA sequences in a tissue or patient. The assays proceed as outlined for diagnosis.

In a preferred embodiment, any of the CA sequences as described herein are used in drug screening assays. The CA proteins, antibodies, nucleic acids, modified proteins and cells containing CA sequences are used in drug screening assays or by evaluating the effect of drug candidates on a "gene expression profile" or expression profile of polypeptides. In one embodiment, the expression profiles are used, preferably in conjunction with high throughput screening techniques to allow monitoring for expression profile genes after treatment with a candidate agent, Zlokarnik, et al., Science 279, 84-8 (1998), Heid, et al., Genome Res., 6:986-994 (1996).

In a preferred embodiment, the CA proteins, antibodies, nucleic acids, modified proteins and cells containing the native or modified CA proteins are used in screening assays. That is, the present invention provides novel methods for screening for compositions which modulate the carcinoma phenotype. As above, this can be done by screening for modulators of gene expression or for modulators of protein activity. Similarly, this may be done on an individual gene or protein level or by evaluating the effect of drug candidates on a "gene expression profile". In a preferred embodiment,

the expression profiles are used, preferably in conjunction with high throughput screening techniques to allow monitoring for expression profile genes after treatment with a candidate agent, see Zlokarnik, supra.

Having identified the CA genes herein, a variety of assays to evaluate the effects of agents on gene expression may be executed. In a preferred embodiment, assays may be run on an individual gene or protein level. That is, having identified a particular gene as aberrantly regulated in carcinoma, candidate bioactive agents may be screened to modulate the genes response. "Modulation" thus includes both an increase and a decrease in gene expression or activity. The preferred amount of modulation will depend on the original change of the gene expression in normal versus tumor tissue, with changes of at least 10%, preferably 50%, more preferably 100-300%, and in some embodiments 300-1000% or greater. Thus, if a gene exhibits a 4 fold increase in tumor compared to normal tissue, a decrease of about four fold is desired; a 10 fold decrease in tumor compared to normal tissue gives a 10 fold increase in expression for a candidate agent is desired, etc. Alternatively, where the CA sequence has been altered but shows the same expression profile or an altered expression profile, the protein will be detected as outlined herein.

As will be appreciated by those in the art, this may be done by evaluation at either the gene or the protein level; that is, the amount of gene expression may be monitored using nucleic acid probes and the quantification of gene expression levels, or, alternatively, the level of the gene product itself can be monitored, for example through the use of antibodies to the CA protein and standard immunoassays. Alternatively, binding and bioactivity assays with the protein may be done as outlined below.

In a preferred embodiment, gene expression monitoring is done and a number of genes, i.e. an expression profile, is monitored simultaneously, although multiple protein expression monitoring can be done as well.

In this embodiment, the CA nucleic acid probes are attached to biochips as outlined herein for the detection and quantification of CA sequences in a particular cell. The assays are further described below.

Generally, in a preferred embodiment, a candidate bioactive agent is added to the cells prior to analysis. Moreover, screens are provided to identify a candidate bioactive agent which modulates a particular type of carcinoma, modulates CA proteins, binds to a CA protein, or interferes between the binding of a CA protein and an antibody.

The term "candidate bioactive agent" or "drug candidate" or grammatical equivalents as used herein describes any molecule, e.g., protein, oligopeptide, small organic or inorganic molecule, polysaccharide, polynucleotide, etc., to be tested for bioactive agents that are capable of directly or indirectly altering either the carcinoma phenotype, binding to and/or modulating the bioactivity of an CA protein, or the expression of a CA sequence, including both nucleic acid sequences and protein sequences. In a particularly preferred embodiment, the candidate agent suppresses a CA phenotype, for example to a normal tissue fingerprint. Similarly, the candidate agent preferably suppresses a severe CA phenotype. Generally a plurality of assay mixtures are run in parallel with different agent concentrations to obtain a differential response to the various concentrations. Typically, one of these

concentrations serves as a negative control, i.e., at zero concentration or below the level of detection.

In one aspect, a candidate agent will neutralize the effect of an CA protein. By "neutralize" is meant that activity of a protein is either inhibited or counter acted against so as to have substantially no effect on a cell.

Candidate agents encompass numerous chemical classes, though typically they are organic or inorganic molecules, preferably small organic compounds having a molecular weight of more than 100 and less than about 2,500 daltons. Preferred small molecules are less than 2000, or less than 1500 or less than 1000 or less than 500 D. Candidate agents comprise functional groups necessary for structural interaction with proteins, particularly hydrogen bonding, and typically include at least an amine, carbonyl, hydroxyl or carboxyl group, preferably at least two of the functional chemical groups. The candidate agents often comprise cyclical carbon or heterocyclic structures and/or aromatic or polyaromatic structures substituted with one or more of the above functional groups. Candidate agents are also found among biomolecules including peptides, saccharides, fatty acids, steroids, purines, pyrimidines, derivatives, structural analogs or combinations thereof. Particularly preferred are peptides.

Candidate agents are obtained from a wide variety of sources including libraries of synthetic or natural compounds. For example, numerous means are available for random and directed synthesis of a wide variety of organic compounds and biomolecules, including expression of randomized oligonucleotides. Alternatively, libraries of natural compounds in the form of bacterial, fungal, plant and animal extracts are available or readily produced. Additionally, natural or synthetically produced libraries and compounds are readily modified through conventional chemical, physical and biochemical means. Known pharmacological agents may be subjected to directed or random chemical modifications, such as acylation, alkylation, esterification, amidification to produce structural analogs.

In a preferred embodiment, the candidate bioactive agents are proteins. By "protein" herein is meant at least two covalently attached amino acids, which includes proteins, polypeptides, oligopeptides and peptides. The protein may be made up of naturally occurring amino acids and peptide bonds, or synthetic peptidomimetic structures. Thus "amino acid", or "peptide residue", as used herein means both naturally occurring and synthetic amino acids. For example, homo-phenylalanine, citrulline and norleucine are considered amino acids for the purposes of the invention. "Amino acid" also includes imino acid residues such as proline and hydroxyproline. The side chains may be in either the (R) or the (S) configuration. In the preferred embodiment, the amino acids are in the (S) or L-configuration. If non-naturally occurring side chains are used, non-amino acid substituents may be used, for example to prevent or retard in vivo degradations.

In a preferred embodiment, the candidate bioactive agents are naturally occurring proteins or fragments of naturally occurring proteins. Thus, for example, cellular extracts containing proteins, or random or directed digests of proteinaceous cellular extracts, may be used. In this way libraries of procaryotic and eucaryotic proteins may be made for screening in the methods of the invention. Particularly preferred in this embodiment are libraries of bacterial, fungal, viral, and mammalian proteins, with the latter being preferred, and human proteins being especially preferred.

In a preferred embodiment, the candidate bioactive agents are peptides of from about 5 to about 30 amino acids, with from about 5 to about 20 amino acids being preferred, and from about 7 to about 15 being particularly preferred. The peptides may be digests of naturally occurring proteins as is outlined above, random peptides, or "biased" random peptides. By "randomized" or grammatical equivalents herein is meant that each nucleic acid and peptide consists of essentially random nucleotides and amino acids, respectively. Since generally these random peptides (or nucleic acids, discussed below) are chemically synthesized, they may incorporate any nucleotide or amino acid at any position. The synthetic process can be designed to generate randomized proteins or nucleic acids, to allow the formation of all or most of the possible combinations over the length of the sequence, thus forming a library of randomized candidate bioactive proteinaceous agents.

In one embodiment, the library is fully randomized, with no sequence preferences or constants at any position. In a preferred embodiment, the library is biased. That is, some positions within the sequence are either held constant, or are selected from a limited number of possibilities. For example, in a preferred embodiment, the nucleotides or amino acid residues are randomized within a defined class, for example, of hydrophobic amino acids, hydrophilic residues, sterically biased (either small or large) residues, towards the creation of nucleic acid binding domains, the creation of cysteines, for cross-linking, prolines for SH-3 domains, serines, threonines, tyrosines or histidines for phosphorylation sites, etc., or to purines, etc.

In a preferred embodiment, the candidate bioactive agents are nucleic acids, as defined above.

As described above generally for proteins, nucleic acid candidate bioactive agents may be naturally occurring nucleic acids, random nucleic acids, or "biased" random nucleic acids. For example, digests of procaryotic or eucaryotic genomes may be used as is outlined above for proteins.

In a preferred embodiment, the candidate bioactive agents are organic chemical moieties, a wide variety of which are available in the literature.

In assays for altering the expression profile of one or more CA genes, after the candidate agent has been added and the cells allowed to incubate for some period of time, the sample containing the target sequences to be analyzed is added to the biochip. If required, the target sequence is prepared using known techniques. For example, the sample may be treated to lyse the cells, using known lysis buffers, electroporation, etc., with purification and/or amplification such as PCR occurring as needed, as will be appreciated by those in the art. For example, an *in vitro* transcription with labels covalently attached to the nucleosides is done. Generally, the nucleic acids are labeled with a label as defined herein, with biotin-FITC or PE, cy3 and cy5 being particularly preferred.

In a preferred embodiment, the target sequence is labeled with, for example, a fluorescent, chemiluminescent, chemical, or radioactive signal, to provide a means of detecting the target sequence's specific binding to a probe. The label also can be an enzyme, such as, alkaline phosphatase or horseradish peroxidase, which when provided with an appropriate substrate produces a product that can be detected. Alternatively, the label can be a labeled compound or small molecule, such as an enzyme inhibitor, that binds but is not catalyzed or altered by the enzyme. The label also can be a moiety or compound, such as, an epitope tag or biotin which specifically binds to streptavidin.

For the example of biotin, the streptavidin is labeled as described above, thereby, providing a detectable signal for the bound target sequence. As known in the art, unbound labeled streptavidin is removed prior to analysis.

As will be appreciated by those in the art, these assays can be direct hybridization assays or can comprise "sandwich assays", which include the use of multiple probes, as is generally outlined in U.S. Patent Nos. 5,681,702, 5,597,909, 5,545,730, 5,594,117, 5,591,584, 5,571,670, 5,580,731, 5,571,670, 5,591,584, 5,624,802, 5,635,352, 5,594,118, 5,359,100, 5,124,246 and 5,681,697, all of which are hereby incorporated by reference. In this embodiment, in general, the target nucleic acid is prepared as outlined above, and then added to the biochip comprising a plurality of nucleic acid probes, under conditions that allow the formation of a hybridization complex.

A variety of hybridization conditions may be used in the present invention, including high, moderate and low stringency conditions as outlined above. The assays are generally run under stringency conditions which allows formation of the label probe hybridization complex only in the presence of target. Stringency can be controlled by altering a step parameter that is a thermodynamic variable, including, but not limited to, temperature, formamide concentration, salt concentration, chaotropic salt concentration pH, organic solvent concentration, etc.

These parameters may also be used to control non-specific binding, as is generally outlined in U.S. Patent No. 5,681,697. Thus it may be desirable to perform certain steps at higher stringency conditions to reduce non-specific binding.

The reactions outlined herein may be accomplished in a variety of ways, as will be appreciated by those in the art. Components of the reaction may be added simultaneously, or sequentially, in any order, with preferred embodiments outlined below. In addition, the reaction may include a variety of other reagents may be included in the assays. These include reagents like salts, buffers, neutral proteins, e.g. albumin, detergents, etc which may be used to facilitate optimal hybridization and detection, and/or reduce non-specific or background interactions. Also reagents that otherwise improve the efficiency of the assay, such as protease inhibitors, nuclease inhibitors, anti-microbial agents, etc., may be used, depending on the sample preparation methods and purity of the target. In addition, either solid phase or solution based (i.e., kinetic PCR) assays may be used.

Once the assay is run, the data is analyzed to determine the expression levels, and changes in expression levels as between states, of individual genes, forming a gene expression profile.

In a preferred embodiment, as for the diagnosis and prognosis applications, having identified the differentially expressed gene(s) or mutated gene(s) important in any one state, screens can be run to alter the expression of the genes individually. That is, screening for modulation of regulation of expression of a single gene can be done. Thus, for example, particularly in the case of target genes whose presence or absence is unique between two states, screening is done for modulators of the target gene expression.

In addition, screens can be done for novel genes that are induced in response to a candidate agent. After identifying a candidate agent based upon its ability to suppress a CA expression pattern leading

to a normal expression pattern, or modulate a single CA gene expression profile so as to mimic the expression of the gene from normal tissue, a screen as described above can be performed to identify genes that are specifically modulated in response to the agent. Comparing expression profiles between normal tissue and agent treated CA tissue reveals genes that are not expressed in normal tissue or CA tissue, but are expressed in agent treated tissue. These agent specific sequences can be identified and used by any of the methods described herein for CA genes or proteins. In particular these sequences and the proteins they encode find use in marking or identifying agent treated cells. In addition, antibodies can be raised against the agent induced proteins and used to target novel therapeutics to the treated CA tissue sample.

Thus, in one embodiment, a candidate agent is administered to a population of CA cells, that thus has an associated CA expression profile. By "administration" or "contacting" herein is meant that the candidate agent is added to the cells in such a manner as to allow the agent to act upon the cell, whether by uptake and intracellular action, or by action at the cell surface. In some embodiments, nucleic acid encoding a proteinaceous candidate agent (i.e. a peptide) may be put into a viral construct such as a retroviral construct and added to the cell, such that expression of the peptide agent is accomplished; see PCT US97/01019, hereby expressly incorporated by reference.

Once the candidate agent has been administered to the cells, the cells can be washed if desired and are allowed to incubate under preferably physiological conditions for some period of time. The cells are then harvested and a new gene expression profile is generated, as outlined herein.

Thus, for example, CA tissue may be screened for agents that reduce or suppress the CA phenotype. A change in at least one gene of the expression profile indicates that the agent has an effect on CA activity. By defining such a signature for the CA phenotype, screens for new drugs that alter the phenotype can be devised. With this approach, the drug target need not be known and need not be represented in the original expression screening platform, nor does the level of transcript for the target protein need to change.

In a preferred embodiment, as outlined above, screens may be done on individual genes and gene products (proteins). That is, having identified a particular differentially expressed gene as important in a particular state, screening of modulators of either the expression of the gene or the gene product itself can be done. The gene products of differentially expressed genes are sometimes referred to herein as "CA proteins" or an "CAP". The CAP may be a fragment, or alternatively, be the full length protein to the fragment encoded by the nucleic acids of Tables 1-40. Preferably, the CAP is a fragment. In another embodiment, the sequences are sequence variants as further described herein.

Preferably, the CAP is a fragment of approximately 14 to 24 amino acids long. More preferably the fragment is a soluble fragment. Preferably, the fragment includes a non-transmembrane region. In a preferred embodiment, the fragment has an N-terminal Cys to aid in solubility. In one embodiment, the c-terminus of the fragment is kept as a free acid and the n-terminus is a free amine to aid in coupling, i.e., to cysteine.

In one embodiment the CA proteins are conjugated to an immunogenic agent as discussed herein. In one embodiment the CA protein is conjugated to BSA.

In a preferred embodiment, screening is done to alter the biological function of the expression product of the CA gene. Again, having identified the importance of a gene in a particular state, screening for agents that bind and/or modulate the biological activity of the gene product can be run as is more fully outlined below.

In a preferred embodiment, screens are designed to first find candidate agents that can bind to CA proteins, and then these agents may be used in assays that evaluate the ability of the candidate agent to modulate the CAP activity and the carcinoma phenotype. Thus, as will be appreciated by those in the art, there are a number of different assays which may be run; binding assays and activity assays.

In a preferred embodiment, binding assays are done. In general, purified or isolated gene product is used; that is, the gene products of one or more CA nucleic acids are made. In general, this is done as is known in the art. For example, antibodies are generated to the protein gene products, and standard immunoassays are run to determine the amount of protein present. Alternatively, cells comprising the CA proteins can be used in the assays.

Thus, in a preferred embodiment, the methods comprise combining a CA protein and a candidate bioactive agent, and determining the binding of the candidate agent to the CA protein. Preferred embodiments utilize the human or mouse CA protein, although other mammalian proteins may also be used, for example for the development of animal models of human disease. In some embodiments, as outlined herein, variant or derivative CA proteins may be used.

Generally, in a preferred embodiment of the methods herein, the CA protein or the candidate agent is non-diffusably bound to an insoluble support having isolated sample receiving areas (e.g. a microtiter plate, an array, etc.). The insoluble supports may be made of any composition to which the compositions can be bound, is readily separated from soluble material, and is otherwise compatible with the overall method of screening. The surface of such supports may be solid or porous and of any convenient shape. Examples of suitable insoluble supports include microtiter plates, arrays, membranes and beads. These are typically made of glass, plastic (e.g., polystyrene), polysaccharides, nylon or nitrocellulose, Teflon™, etc. Microtiter plates and arrays are especially convenient because a large number of assays can be carried out simultaneously, using small amounts of reagents and samples. The particular manner of binding of the composition is not crucial so long as it is compatible with the reagents and overall methods of the invention, maintains the activity of the composition and is nondiffusable. Preferred methods of binding include the use of antibodies (which do not sterically block either the ligand binding site or activation sequence when the protein is bound to the support), direct binding to "sticky" or ionic supports, chemical crosslinking, the synthesis of the protein or agent on the surface, etc. Following binding of the protein or agent, excess unbound material is removed by washing. The sample receiving areas may then be blocked through incubation with bovine serum albumin (BSA), casein or other innocuous protein or other moiety.

In a preferred embodiment, the CA protein is bound to the support, and a candidate bioactive agent is added to the assay. Alternatively, the candidate agent is bound to the support and the CA protein is added. Novel binding agents include specific antibodies, non-natural binding agents identified in screens of chemical libraries, peptide analogs, etc. Of particular interest are screening assays for agents that have a low toxicity for human cells. A wide variety of assays may be used for this purpose,

including labeled *in vitro* protein-protein binding assays, electrophoretic mobility shift assays, immunoassays for protein binding, functional assays (phosphorylation assays, etc.) and the like.

The determination of the binding of the candidate bioactive agent to the CA protein may be done in a number of ways. In a preferred embodiment, the candidate bioactive agent is labeled, and binding determined directly. For example, this may be done by attaching all or a portion of the CA protein to a solid support, adding a labeled candidate agent (for example a fluorescent label), washing off excess reagent, and determining whether the label is present on the solid support. Various blocking and washing steps may be utilized as is known in the art.

By "labeled" herein is meant that the compound is either directly or indirectly labeled with a label which provides a detectable signal, e.g. radioisotope, fluorescers, enzyme, antibodies, particles such as magnetic particles, chemiluminescers, or specific binding molecules, etc. Specific binding molecules include pairs, such as biotin and streptavidin, digoxin and antidigoxin etc. For the specific binding members, the complementary member would normally be labeled with a molecule which provides for detection, in accordance with known procedures, as outlined above. The label can directly or indirectly provide a detectable signal.

In some embodiments, only one of the components is labeled. For example, the proteins (or proteinaceous candidate agents) may be labeled at tyrosine positions using ^{125}I, or with fluorophores. Alternatively, more than one component may be labeled with different labels; using ^{125}I for the proteins, for example, and a fluorophor for the candidate agents.

In a preferred embodiment, the binding of the candidate bioactive agent is determined through the use of competitive binding assays. In this embodiment, the competitor is a binding moiety known to bind to the target molecule (i.e. CA protein), such as an antibody, peptide, binding partner, ligand, etc. Under certain circumstances, there may be competitive binding as between the bioactive agent and the binding moiety, with the binding moiety displacing the bioactive agent.

In one embodiment, the candidate bioactive agent is labeled. Either the candidate bioactive agent, or the competitor, or both, is added first to the protein for a time sufficient to allow binding, if present. Incubations may be performed at any temperature which facilitates optimal activity, typically between 4 and 40°C. Incubation periods are selected for optimum activity, but may also be optimized to facilitate rapid high through put screening. Typically between 0.1 and 1 hour will be sufficient. Excess reagent is generally removed or washed away. The second component is then added, and the presence or absence of the labeled component is followed, to indicate binding.

In a preferred embodiment, the competitor is added first, followed by the candidate bioactive agent. Displacement of the competitor is an indication that the candidate bioactive agent is binding to the CA protein and thus is capable of binding to, and potentially modulating, the activity of the CA protein. In this embodiment, either component can be labeled. Thus, for example, if the competitor is labeled, the presence of label in the wash solution indicates displacement by the agent. Alternatively, if the candidate bioactive agent is labeled, the presence of the label on the support indicates displacement.

In an alternative embodiment, the candidate bioactive agent is added first, with incubation and

washing, followed by the competitor. The absence of binding by the competitor may indicate that the bioactive agent is bound to the CA protein with a higher affinity. Thus, if the candidate bioactive agent is labeled, the presence of the label on the support, coupled with a lack of competitor binding, may indicate that the candidate agent is capable of binding to the CA protein.

In a preferred embodiment, the methods comprise differential screening to identity bioactive agents that are capable of modulating the activity of the CA proteins. In this embodiment, the methods comprise combining a CA protein and a competitor in a first sample. A second sample comprises a candidate bioactive agent, a CA protein and a competitor. The binding of the competitor is determined for both samples, and a change, or difference in binding between the two samples indicates the presence of an agent capable of binding to the CA protein and potentially modulating its activity. That is, if the binding of the competitor is different in the second sample relative to the first sample, the agent is capable of binding to the CA protein.

Alternatively, a preferred embodiment utilizes differential screening to identify drug candidates that bind to the native CA protein, but cannot bind to modified CA proteins. The structure of the CA protein may be modeled, and used in rational drug design to synthesize agents that interact with that site. Drug candidates that affect CA bioactivity are also identified by screening drugs for the ability to either enhance or reduce the activity of the protein.

Positive controls and negative controls may be used in the assays. Preferably all control and test samples are performed in at least triplicate to obtain statistically significant results. Incubation of all samples is for a time sufficient for the binding of the agent to the protein. Following incubation, all samples are washed free of non-specifically bound material and the amount of bound, generally labeled agent determined. For example, where a radiolabel is employed, the samples may be counted in a scintillation counter to determine the amount of bound compound.

A variety of other reagents may be included in the screening assays. These include reagents like salts, neutral proteins, e.g. albumin, detergents, etc which may be used to facilitate optimal protein-protein binding and/or reduce non-specific or background interactions. Also reagents that otherwise improve the efficiency of the assay, such as protease inhibitors, nuclease inhibitors, anti-microbial agents, etc., may be used. The mixture of components may be added in any order that provides for the requisite binding.

Screening for agents that modulate the activity of CA proteins may also be done. In a preferred embodiment, methods for screening for a bioactive agent capable of modulating the activity of CA proteins comprise the steps of adding a candidate bioactive agent to a sample of CA proteins, as above, and determining an alteration in the biological activity of CA proteins. "Modulating the activity of an CA protein" includes an increase in activity, a decrease in activity, or a change in the type or kind of activity present. Thus, in this embodiment, the candidate agent should both bind to CA proteins (although this may not be necessary), and alter its biological or biochemical activity as defined herein. The methods include both *in vitro* screening methods, as are generally outlined above, and in vivo screening of cells for alterations in the presence, distribution, activity or amount of CA proteins.

Thus, in this embodiment, the methods comprise combining a CA sample and a candidate bioactive

agent, and evaluating the effect on CA activity. By "CA activity" or grammatical equivalents herein is meant one of the CA protein's biological activities, including, but not limited to, its role in tumorigenesis, including cell division, preferably in lymphatic tissue, cell proliferation, tumor growth and transformation of cells. In one embodiment, CA activity includes activation of or by a protein encoded by a nucleic acid of Tables 1-40. An inhibitor of CA activity is the inhibition of any one or more CA activities.

In a preferred embodiment, the activity of the CA protein is increased; in another preferred embodiment, the activity of the CA protein is decreased. Thus, bioactive agents that are antagonists are preferred in some embodiments, and bioactive agents that are agonists may be preferred in other embodiments.

In a preferred embodiment, the invention provides methods for screening for bioactive agents capable of modulating the activity of a CA protein. The methods comprise adding a candidate bioactive agent, as defined above, to a cell comprising CA proteins. Preferred cell types include almost any cell. The cells contain a recombinant nucleic acid that encodes a CA protein. In a preferred embodiment, a library of candidate agents are tested on a plurality of cells.

In one aspect, the assays are evaluated in the presence or absence or previous or subsequent exposure of physiological signals, for example hormones, antibodies, peptides, antigens, cytokines, growth factors, action potentials, pharmacological agents including chemotherapeutics, radiation, carcinogenics, or other cells (i.e. cell-cell contacts). In another example, the determinations are determined at different stages of the cell cycle process.

In this way, bioactive agents are identified. Compounds with pharmacological activity are able to enhance or interfere with the activity of the CA protein.

In one embodiment, a method of inhibiting carcinoma cancer cell division, is provided. The method comprises administration of a carcinoma cancer inhibitor.

In a preferred embodiment, a method of inhibiting lymphoma carcinoma cell division is provided comprising administration of a lymphoma carcinoma inhibitor.

In another embodiment, a method of inhibiting tumor growth is provided. The method comprises administration of a carcinoma cancer inhibitor. In a particularly preferred embodiment, a method of inhibiting tumor growth in lymphatic tissue is provided comprising administration of a lymphoma inhibitor.

In a further embodiment, methods of treating cells or individuals with cancer are provided. The method comprises administration of a carcinoma cancer inhibitor. Preferably, the carcinoma is a lymphoma carcinoma.

In one embodiment, a carcinoma cancer inhibitor is an antibody as discussed above. In another embodiment, the carcinoma cancer inhibitor is an antisense molecule. Antisense molecules as used herein include antisense or sense oligonucleotides comprising a singe-stranded nucleic acid sequence

(either RNA or DNA) capable of binding to target mRNA (sense) or DNA (antisense) sequences for carcinoma cancer molecules. Antisense or sense oligonucleotides, according to the present invention, comprise a fragment generally at least about 14 nucleotides, preferably from about 14 to 30 nucleotides. The ability to derive an antisense or a sense oligonucleotide, based upon a cDNA sequence encoding a given protein is described in, for example, Stein and Cohen, Cancer Res. 48:2659, (1988) and van der Krol et al., BioTechniques 6:958, (1988).

Antisense molecules may be introduced into a cell containing the target nucleotide sequence by formation of a conjugate with a ligand binding molecule, as described in WO 91/04753. Suitable ligand binding molecules include, but are not limited to, cell surface receptors, growth factors, other cytokines, or other ligands that bind to cell surface receptors. Preferably, conjugation of the ligand binding molecule does not substantially interfere with the ability of the ligand binding molecule to bind to its corresponding molecule or receptor, or block entry of the sense or antisense oligonucleotide or its conjugated version into the cell. Alternatively, a sense or an antisense oligonucleotide may be introduced into a cell containing the target nucleic acid sequence by formation of an oligonucleotide-lipid complex, as described in WO 90/10448. It is understood that the use of antisense molecules or knock out and knock in models may also be used in screening assays as discussed above, in addition to methods of treatment.

The compounds having the desired pharmacological activity may be administered in a physiologically acceptable carrier to a host, as previously described. The agents may be administered in a variety of ways, orally, parenterally e.g., subcutaneously, intraperitoneally, intravascularly, etc. Depending upon the manner of introduction, the compounds may be formulated in a variety of ways. The concentration of therapeutically active compound in the formulation may vary from about 0.1-100% wgt/vol. The agents may be administered alone or in combination with other treatments, i.e., radiation.

The pharmaceutical compositions can be prepared in various forms, such as granules, tablets, pills, suppositories, capsules, suspensions, salves, lotions and the like. Pharmaceutical grade organic or inorganic carriers and/or diluents suitable for oral and topical use can be used to make up compositions containing the therapeutically-active compounds. Diluents known to the art include aqueous media, vegetable and animal oils and fats. Stabilizing agents, wetting and emulsifying agents, salts for varying the osmotic pressure or buffers for securing an adequate pH value, and skin penetration enhancers can be used as auxiliary agents.

Without being bound by theory, it appears that the various CA sequences are important in carcinomas. Accordingly, disorders based on mutant or variant CA genes may be determined. In one embodiment, the invention provides methods for identifying cells containing variant CA genes comprising determining all or part of the sequence of at least one endogenous CA genes in a cell. As will be appreciated by those in the art, this may be done using any number of sequencing techniques. In a preferred embodiment, the invention provides methods of identifying the CA genotype of an individual comprising determining all or part of the sequence of at least one CA gene of the individual. This is generally done in at least one tissue of the individual, and may include the evaluation of a number of tissues or different samples of the same tissue. The method may include comparing the sequence of the sequenced CA gene to a known CA gene, i.e., a wild-type gene. As will be appreciated by those in the art, alterations in the sequence of some oncogenes can be an indication of either the presence of

the disease, or propensity to develop the disease, or prognosis evaluations.

The sequence of all or part of the CA gene can then be compared to the sequence of a known CA gene to determine if any differences exist. This can be done using any number of known homology programs, such as Bestfit, etc. In a preferred embodiment, the presence of a difference in the sequence between the CA gene of the patient and the known CA gene is indicative of a disease state or a propensity for a disease state, as outlined herein.

In a preferred embodiment, the CA genes are used as probes to determine the number of copies of the CA gene in the genome. For example, some cancers exhibit chromosomal deletions or insertions, resulting in an alteration in the copy number of a gene.

In another preferred embodiment CA genes are used as probes to determine the chromosomal location of the CA genes. Information such as chromosomal location finds use in providing a diagnosis or prognosis in particular when chromosomal abnormalities such as translocations, and the like are identified in CA gene loci.

Thus, in one embodiment, methods of modulating CA in cells or organisms are provided. In one embodiment, the methods comprise administering to a cell an anti-CA antibody that reduces or eliminates the biological activity of an endogenous CA protein. Alternatively, the methods comprise administering to a cell or organism a recombinant nucleic acid encoding a CA protein. As will be appreciated by those in the art, this may be accomplished in any number of ways. In a preferred embodiment, for example when the CA sequence is down-regulated in carcinoma, the activity of the CA gene is increased by increasing the amount of CA in the cell, for example by overexpressing the endogenous CA or by administering a gene encoding the CA sequence, using known gene-therapy techniques, for example. In a preferred embodiment, the gene therapy techniques include the incorporation of the exogenous gene using enhanced homologous recombination (EHR), for example as described in PCT/US93/03868, hereby incorporated by reference in its entirety. Alternatively, for example when the CA sequence is up-regulated in carcinoma, the activity of the endogenous CA gene is decreased, for example by the administration of a CA antisense nucleic acid.

In one embodiment, the CA proteins of the present invention may be used to generate polyclonal and monoclonal antibodies to CA proteins, which are useful as described herein. Similarly, the CA proteins can be coupled, using standard technology, to affinity chromatography columns. These columns may then be used to purify CA antibodies. In a preferred embodiment, the antibodies are generated to epitopes unique to a CA protein; that is, the antibodies show little or no cross-reactivity to other proteins. These antibodies find use in a number of applications. For example, the CA antibodies may be coupled to standard affinity chromatography columns and used to purify CA proteins. The antibodies may also be used as blocking polypeptides, as outlined above, since they will specifically bind to the CA protein.

In one embodiment, a therapeutically effective dose of a CA or modulator thereof is administered to a patient. By "therapeutically effective dose" herein is meant a dose that produces the effects for which it is administered. The exact dose will depend on the purpose of the treatment, and will be ascertainable by one skilled in the art using known techniques. As is known in the art, adjustments for

CA degradation, systemic versus localized delivery, and rate of new protease synthesis, as well as the age, body weight, general health, sex, diet, time of administration, drug interaction and the severity of the condition may be necessary, and will be ascertainable with routine experimentation by those skilled in the art.

A "patient" for the purposes of the present invention includes both humans and other animals, particularly mammals, and organisms. Thus the methods are applicable to both human therapy and veterinary applications. In the preferred embodiment the patient is a mammal, and in the most preferred embodiment the patient is human.

The administration of the CA proteins and modulators of the present invention can be done in a variety of ways as discussed above, including, but not limited to, orally, subcutaneously, intravenously, intranasally, transdermally, intraperitoneally, intramuscularly, intrapulmonary, vaginally, rectally, or intraocularly. In some instances, for example, in the treatment of wounds and inflammation, the CA proteins and modulators may be directly applied as a solution or spray.

The pharmaceutical compositions of the present invention comprise a CA protein in a form suitable for administration to a patient. In the preferred embodiment, the pharmaceutical compositions are in a water soluble form, such as being present as pharmaceutically acceptable salts, which is meant to include both acid and base addition salts. "Pharmaceutically acceptable acid addition salt" refers to those salts that retain the biological effectiveness of the free bases and that are not biologically or otherwise undesirable, formed with inorganic acids such as hydrochloric acid, hydrobromic acid, sulfuric acid, nitric acid, phosphoric acid and the like, and organic acids such as acetic acid, propionic acid, glycolic acid, pyruvic acid, oxalic acid, maleic acid, malonic acid, succinic acid, fumaric acid, tartaric acid, citric acid, benzoic acid, cinnamic acid, mandelic acid, methanesulfonic acid, ethanesulfonic acid, p-toluenesulfonic acid, salicylic acid and the like. "Pharmaceutically acceptable base addition salts" include those derived from inorganic bases such as sodium, potassium, lithium, ammonium, calcium, magnesium, iron, zinc, copper, manganese, aluminum salts and the like. Particularly preferred are the ammonium, potassium, sodium, calcium, and magnesium salts. Salts derived from pharmaceutically acceptable organic non-toxic bases include salts of primary, secondary, and tertiary amines, substituted amines including naturally occurring substituted amines, cyclic amines and basic ion exchange resins, such as isopropylamine, trimethylamine, diethylamine, triethylamine, tripropylamine, and ethanolamine.

The pharmaceutical compositions may also include one or more of the following: carrier proteins such as serum albumin; buffers; fillers such as microcrystalline cellulose, lactose, corn and other starches; binding agents; sweeteners and other flavoring agents; coloring agents; and polyethylene glycol. Additives are well known in the art, and are used in a variety of formulations.

In a preferred embodiment, CA proteins and modulators are administered as therapeutic agents, and can be formulated as outlined above. Similarly, CA genes (including both the full-length sequence, partial sequences, or regulatory sequences of the CA coding regions) can be administered in gene therapy applications, as is known in the art. These CA genes can include antisense applications, either as gene therapy (i.e. for incorporation into the genome) or as antisense compositions, as will be appreciated by those in the art.

In a preferred embodiment, CA genes are administered as DNA vaccines, either single genes or combinations of CA genes. Naked DNA vaccines are generally known in the art. Brower, Nature Biotechnology, 16:1304-1305 (1998).

In one embodiment, CA genes of the present invention are used as DNA vaccines. Methods for the use of genes as DNA vaccines are well known to one of ordinary skill in the art, and include placing a CA gene or portion of a CA gene under the control of a promoter for expression in a patient with carcinoma. The CA gene used for DNA vaccines can encode full-length CA proteins, but more preferably encodes portions of the CA proteins including peptides derived from the CA protein. In a preferred embodiment a patient is immunized with a DNA vaccine comprising a plurality of nucleotide sequences derived from a CA gene. Similarly, it is possible to immunize a patient with a plurality of CA genes or portions thereof as defined herein. Without being bound by theory, expression of the polypeptide encoded by the DNA vaccine, cytotoxic T-cells, helper T-cells and antibodies are induced which recognize and destroy or eliminate cells expressing CA proteins.

In a preferred embodiment, the DNA vaccines include a gene encoding an adjuvant molecule with the DNA vaccine. Such adjuvant molecules include cytokines that increase the immunogenic response to the CA polypeptide encoded by the DNA vaccine. Additional or alternative adjuvants are known to those of ordinary skill in the art and find use in the invention.

In another preferred embodiment CA genes find use in generating animal models of carcinomas, particularly lymphoma carcinomas. As is appreciated by one of ordinary skill in the art, when the CA gene identified is repressed or diminished in CA tissue, gene therapy technology wherein antisense RNA directed to the CA gene will also diminish or repress expression of the gene. An animal generated as such serves as an animal model of CA that finds use in screening bioactive drug candidates. Similarly, gene knockout technology, for example as a result of homologous recombination with an appropriate gene targeting vector, will result in the absence of the CA protein. When desired, tissue-specific expression or knockout of the CA protein may be necessary.

It is also possible that the CA protein is overexpressed in carcinoma. As such, transgenic animals can be generated that overexpress the CA protein. Depending on the desired expression level, promoters of various strengths can be employed to express the transgene. Also, the number of copies of the integrated transgene can be determined and compared for a determination of the expression level of the transgene. Animals generated by such methods find use as animal models of CA and are additionally useful in screening for bioactive molecules to treat carcinoma.

The CA nucleic acid sequences of the invention are depicted in Tables 1-40. The sequences in each Table include genomic sequence, mRNA and coding sequences for both mouse and human. The different sequences are assigned the following SEQ ID Nos:

Table 1 (mouse gene: Myc; human gene MYC)
Mouse genomic sequence (SEQ ID NO: 1)
Mouse mRNA sequence (SEQ ID NO: 2)
Mouse coding sequence (SEQ ID NO: 3)
Human genomic sequence (SEQ ID NO: 4)

Human mRNA sequence (SEQ ID NO: 5)
Human coding sequence (SEQ ID NO: 6)

Table 2 (mouse gene Bach2; human gene BACH2)
Mouse genomic sequence (SEQ ID NO: 7)
Mouse mRNA sequence (SEQ ID NO: 8)
Mouse coding sequence (SEQ ID NO: 9)
Human genomic sequence (SEQ ID NO: 10)
Human mRNA sequence (SEQ ID NO: 11)
Human coding sequence (SEQ ID NO: 12)

Table 3 (mouse gene Wnt1; human gene WNT1)
Mouse genomic sequence (SEQ ID NO: 13)
Mouse mRNA sequence (SEQ ID NO: 14)
Mouse coding sequence (SEQ ID NO: 15)
Human genomic sequence (SEQ ID NO: 16)
Human mRNA sequence (SEQ ID NO: 17)
Human coding sequence (SEQ ID NO: 18)

Table 4 (mouse gene Rasgrp1; human gene: RASGRP1)
Mouse genomic sequence (SEQ ID NO: 19)
Mouse mRNA sequence (SEQ ID NO: 20)
Mouse coding sequence (SEQ ID NO: 21)
Human genomic sequence (SEQ ID NO: 22)
Human mRNA sequence (SEQ ID NO: 23)
Human coding sequence (SEQ ID NO: 24)

Table 5 (mouse gene: Nmyc1; human gene: MYCN)
Mouse genomic sequence (SEQ ID NO: 25)
Mouse mRNA sequence (SEQ ID NO: 26)
Mouse coding sequence (SEQ ID NO: 27)
Human genomic sequence (SEQ ID NO: 28)
Human mRNA sequence (SEQ ID NO:29)
Human coding sequence (SEQ ID NO: 30)

Table 6 (mouse gene: Myb; human gene: MYB)
Mouse genomic sequence (SEQ ID NO: 31)
Mouse mRNA sequence (SEQ ID NO: 32)
Mouse coding sequence (SEQ ID NO: 33)
Human genomic sequence (SEQ ID NO: 34)
Human mRNA sequence (SEQ ID NO: 35)
Human coding sequence (SEQ ID NO: 36)

Table 7 (mouse gene: Sox4; human gene: SOX4)
Mouse genomic sequence (SEQ ID NO: 37)

Mouse mRNA sequence (SEQ ID NO: 38)
Mouse coding sequence (SEQ ID NO: 39)
Human genomic sequence (SEQ ID NO: 40)
Human mRNA sequence (SEQ ID NO: 41)
Human coding sequence (SEQ ID NO: 42)

Table 8 (mouse gene: Tcof1; human gene: TCOF1)
Mouse genomic sequence (SEQ ID NO: 43)
Mouse mRNA sequence (SEQ ID NO: 44)
Mouse coding sequence (SEQ ID NO: 45)
Human genomic sequence (SEQ ID NO: 46)
Human mRNA sequence (SEQ ID NO: 47)
Human coding sequence (SEQ ID NO: 48)

Table 9 (mouse gene: Pim1; human gene: PIM1)
Mouse genomic sequence (SEQ ID NO: 49)
Mouse mRNA sequence (SEQ ID NO: 50)
Mouse coding sequence (SEQ ID NO: 51)
Human genomic sequence (SEQ ID NO: 52)
Human mRNA sequence (SEQ ID NO: 53)
Human coding sequence (SEQ ID NO: 54)

Table10 (mouse gene: Wnt3a; human gene: WNT3A)
Mouse genomic sequence (SEQ ID NO: 55)
Mouse mRNA sequence (SEQ ID NO: 56)
Mouse coding sequence (SEQ ID NO: 57)
Human genomic sequence (SEQ ID NO: 58)
Human mRNA sequence (SEQ ID NO: 59)
Human coding sequence (SEQ ID NO: 60)

Table 11 (mouse gene: Ly6e; human gene LY6E)
Mouse genomic sequence (SEQ ID NO: 61)
Mouse mRNA sequence (SEQ ID NO: 62)
Mouse coding sequence (SEQ ID NO: 63)
Human genomic sequence (SEQ ID NO: 64)
Human mRNA sequence (SEQ ID NO: 65)
Human coding sequence (SEQ ID NO: 66)

Table 12 (mouse gene: Rasa2; human gene RASA2)
Mouse genomic sequence (SEQ ID NO: 67)
Mouse mRNA sequence (SEQ ID NO: 68)
Mouse coding sequence (SEQ ID NO: 69)
Human genomic sequence (SEQ ID NO: 70)
Human mRNA sequence (SEQ ID NO: 71)
Human coding sequence (SEQ ID NO: 72)

Table 13 (mouse gene: Gata1; human gene GATA1)
Mouse genomic sequence (SEQ ID NO: 73)
Mouse mRNA sequence (SEQ ID NO: 74)
Mouse coding sequence (SEQ ID NO: 75)
Human genomic sequence (SEQ ID NO: 76)
Human mRNA sequence (SEQ ID NO: 77)
Human coding sequence (SEQ ID NO: 78)

Table 14 (mouse gene: Fkbp5; human gene FKBP5)
Mouse genomic sequence (SEQ ID NO: 79)
Mouse mRNA sequence (SEQ ID NO: 80)
Mouse coding sequence (SEQ ID NO: 81)
Human genomic sequence (SEQ ID NO: 82)
Human mRNA sequence (SEQ ID NO: 83)
Human coding sequence (SEQ ID NO: 84)

Table 15 (mouse gene: Rel; human gene REL)
Mouse genomic sequence (SEQ ID NO: 85)
Mouse mRNA sequence (SEQ ID NO: 86)
Mouse coding sequence (SEQ ID NO: 87)
Human genomic sequence (SEQ ID NO: 88)
Human mRNA sequence (SEQ ID NO: 89)
Human coding sequence (SEQ ID NO: 90)

Table 16 (mouse gene: Icsbp; human gene ICSBP1)
Mouse genomic sequence (SEQ ID NO: 91)
Mouse mRNA sequence (SEQ ID NO: 92)
Mouse coding sequence (SEQ ID NO: 93)
Human genomic sequence (SEQ ID NO: 94)
Human mRNA sequence (SEQ ID NO: 95)
Human coding sequence (SEQ ID NO: 96)

Table 17 (mouse gene: Bmi1; human gene BMI1)
Mouse genomic sequence (SEQ ID NO: 97)
Mouse mRNA sequence (SEQ ID NO: 98)
Mouse coding sequence (SEQ ID NO: 99)
Human genomic sequence (SEQ ID NO: 100)
Human mRNA sequence (SEQ ID NO: 101)
Human coding sequence (SEQ ID NO: 102)

Table 18 (mouse gene: Runx1; human gene RUNX1)
Mouse genomic sequence (SEQ ID NO: 103)
Mouse mRNA sequence (SEQ ID NO: 104)
Mouse coding sequence (SEQ ID NO: 105)
Human genomic sequence (SEQ ID NO: 106)

Human mRNA sequence (SEQ ID NO: 107)
Human coding sequence (SEQ ID NO: 108)

Table 19 (mouse gene: Il2ra; human gene IL2RA)
Mouse genomic sequence (SEQ ID NO: 109)
Mouse mRNA sequence (SEQ ID NO: 110)
Mouse coding sequence (SEQ ID NO: 111)
Human genomic sequence (SEQ ID NO: 112)
Human mRNA sequence (SEQ ID NO: 113)
Human coding sequence (SEQ ID NO: 114)

Table 20 (mouse gene: Nfkb1; human gene NFKB1)
Mouse genomic sequence (SEQ ID NO: 115)
Mouse mRNA sequence (SEQ ID NO: 116)
Mouse coding sequence (SEQ ID NO: 117)
Human genomic sequence (SEQ ID NO: 118)
Human mRNA sequence (SEQ ID NO: 119)
Human coding sequence (SEQ ID NO: 120)

Table 21 (mouse gene: Fyn; human gene FYN)
Mouse genomic sequence (SEQ ID NO: 121)
Mouse mRNA sequence (SEQ ID NO: 122)
Mouse coding sequence (SEQ ID NO: 123)
Human genomic sequence (SEQ ID NO: 124)
Human mRNA sequence (SEQ ID NO: 125)
Human coding sequence (SEQ ID NO: 126)

Table 22 (mouse gene: Nfkbil1; human gene NFKBIL1)
Mouse genomic sequence (SEQ ID NO: 127)
Mouse mRNA sequence (SEQ ID NO: 128)
Mouse coding sequence (SEQ ID NO: 129)
Human genomic sequence (SEQ ID NO: 130)
Human mRNA sequence (SEQ ID NO: 131)
Human coding sequence (SEQ ID NO: 132)

Table 23 (mouse gene: Flt3; human gene FLT3)
Mouse genomic sequence (SEQ ID NO: 133)
Mouse mRNA sequence (SEQ ID NO: 134)
Mouse coding sequence (SEQ ID NO: 135)
Human genomic sequence (SEQ ID NO: 136)
Human mRNA sequence (SEQ ID NO: 137)
Human coding sequence (SEQ ID NO: 138)

Table 24 (mouse gene: Dntt; human gene DNTT)
Mouse genomic sequence (SEQ ID NO: 139)

Mouse mRNA sequence (SEQ ID NO: 140)
Mouse coding sequence (SEQ ID NO: 141)
Human genomic sequence (SEQ ID NO: 142)
Human mRNA sequence (SEQ ID NO: 143)
Human coding sequence (SEQ ID NO: 144)

Table 25 (mouse gene: Znfn1a1; human gene ZNFN1A1)
Mouse genomic sequence (SEQ ID NO: 145)
Mouse mRNA sequence (SEQ ID NO: 146)
Mouse coding sequence (SEQ ID NO: 147)
Human genomic sequence (SEQ ID NO: 148)
Human mRNA sequence (SEQ ID NO: 149)
Human coding sequence (SEQ ID NO: 150)

Table 26 (mouse gene: Tbx21; human gene TBX21)
Mouse genomic sequence (SEQ ID NO: 151)
Mouse mRNA sequence (SEQ ID NO: 152)
Mouse coding sequence (SEQ ID NO: 153)
Human genomic sequence (SEQ ID NO: 154)
Human mRNA sequence (SEQ ID NO: 155)
Human coding sequence (SEQ ID NO: 156)

Table 27 (mouse gene: Stat5b; human gene STAT5B)
Mouse genomic sequence (SEQ ID NO: 157)
Mouse mRNA sequence (SEQ ID NO: 158)
Mouse coding sequence (SEQ ID NO: 159)
Human genomic sequence (SEQ ID NO: 160)
Human mRNA sequence (SEQ ID NO: 161)
Human coding sequence (SEQ ID NO: 162)

Table 28 (mouse gene: Sema4d; human gene SEMA4D)
Mouse genomic sequence (SEQ ID NO: 163)
Mouse mRNA sequence (SEQ ID NO: 164)
Mouse coding sequence (SEQ ID NO: 165)
Human genomic sequence (SEQ ID NO: 166)
Human mRNA sequence (SEQ ID NO: 167)
Human coding sequence (SEQ ID NO: 168)

Table 29 (mouse gene: Mdm2; human gene MDM2)
Mouse genomic sequence (SEQ ID NO: 169)
Mouse mRNA sequence (SEQ ID NO: 170)
Mouse coding sequence (SEQ ID NO: 171)
Human genomic sequence (SEQ ID NO: 172)
Human mRNA sequence (SEQ ID NO: 173)
Human coding sequence (SEQ ID NO: 174)

Table 30 (mouse gene: Prlr; human gene PRLR)
Mouse genomic sequence (SEQ ID NO: 175)
Mouse mRNA sequence (SEQ ID NO: 176)
Mouse coding sequence (SEQ ID NO: 177)
Human genomic sequence (SEQ ID NO: 178)
Human mRNA sequence (SEQ ID NO: 179)
Human coding sequence (SEQ ID NO: 180)

Table 31 (mouse gene: Top1; human gene TOP1)
Mouse genomic sequence (SEQ ID NO: 181)
Mouse mRNA sequence (SEQ ID NO: 182)
Mouse coding sequence (SEQ ID NO: 183)
Human genomic sequence (SEQ ID NO: 184)
Human mRNA sequence (SEQ ID NO: 185)
Human coding sequence (SEQ ID NO: 186)

Table 32 (mouse gene: Dusp10; human gene DUSP10)
Mouse genomic sequence (SEQ ID NO: 187)
Mouse mRNA sequence (SEQ ID NO: 188)
Mouse coding sequence (SEQ ID NO: 189)
Human genomic sequence (SEQ ID NO: 190)
Human mRNA sequence (SEQ ID NO: 191)
Human coding sequence (SEQ ID NO: 192)

Table 33 (mouse gene: Fli1; human gene FLI1)
Mouse genomic sequence (SEQ ID NO: 193)
Mouse mRNA sequence (SEQ ID NO: 194)
Mouse coding sequence (SEQ ID NO: 195)
Human genomic sequence (SEQ ID NO: 196)
Human mRNA sequence (SEQ ID NO: 197)
Human coding sequence (SEQ ID NO: 198)

Table 34 (mouse gene: Tk2; human gene TK2)
Mouse genomic sequence (SEQ ID NO: 199)
Mouse mRNA sequence (SEQ ID NO: 200)
Mouse coding sequence (SEQ ID NO: 201)
Human genomic sequence (SEQ ID NO: 202)
Human mRNA sequence (SEQ ID NO: 203)
Human coding sequence (SEQ ID NO: 204)

Table 35 (mouse gene: Nupr1); human gene hCG1745228
Mouse genomic sequence (SEQ ID NO: 205)
Mouse mRNA sequence (SEQ ID NO: 206)
Mouse coding sequence (SEQ ID NO: 207)
Human genomic sequence (SEQ ID NO:208)
Human mRNA sequence (SEQ ID NO:209)
Human coding sequence (SEQ ID NO:210)

Table 36 (mouse gene: Zfhx1b; human gene ZFHX1B)
Mouse genomic sequence (SEQ ID NO: 211)
Mouse mRNA sequence (SEQ ID NO: 212)
Mouse coding sequence (SEQ ID NO: 213)
Human genomic sequence (SEQ ID NO: 214)
Human mRNA sequence (SEQ ID NO: 215)
Human coding sequence (SEQ ID NO: 216)

Table 37 (mouse gene: Vdac1; human gene VDAC1)
Mouse genomic sequence (SEQ ID NO: 217)
Mouse mRNA sequence (SEQ ID NO: 218)
Mouse coding sequence (SEQ ID NO: 219)
Human genomic sequence (SEQ ID NO: 220)
Human mRNA sequence (SEQ ID NO: 221)
Human coding sequence (SEQ ID NO: 222)

Table 38 (mouse gene: Nfatc1; human gene NFATC1)
Mouse genomic sequence (SEQ ID NO: 223)
Mouse mRNA sequence (SEQ ID NO: 224)
Mouse coding sequence (SEQ ID NO: 225)
Human genomic sequence (SEQ ID NO: 226)
Human mRNA sequence (SEQ ID NO: 227)
Human coding sequence (SEQ ID NO: 228)

Table 39 (mouse gene: Syk; human gene SYK)
Mouse genomic sequence (SEQ ID NO: 229)
Mouse mRNA sequence (SEQ ID NO: 230)
Mouse coding sequence (SEQ ID NO: 231)
Human genomic sequence (SEQ ID NO: 232)
Human mRNA sequence (SEQ ID NO: 233)
Human coding sequence (SEQ ID NO: 231)

Table 40 (mouse gene: Gnb1; human gene GNB1)
Mouse genomic sequence (SEQ ID NO: 235)
Mouse mRNA sequence (SEQ ID NO: 236)
Mouse coding sequence (SEQ ID NO: 237)
Human genomic sequence (SEQ ID NO: 238)
Human mRNA sequence (SEQ ID NO: 239)
Human coding sequence (SEQ ID NO: 240).

TABLE 1

MOUSE NOMENCLATURE
ICSGNM Myc
Celera mCG1625

HUMAN NOMENCLATURE
HGNC MYC
Celera hCG1791915

MOUSE SEQUENCE - GENOMIC

TCAATACTGAGCACACCTTCCTCTCCTTCCCATAACAGCCCTTTCTTTCTGGAGGTCTTCCTTTTTTTCTTAAAAATGTAAGAGCATCATGACT
GTTAGTATGAGACAGTGAGGTTCTGGGCACTGTGATTCTTAGTTTTTCATACTGTAAGAGGGAATGTACTCTCTGCCATCGGGACACCCAGTGG
AACTGCTCACCTGGAGTCTTGCCTCCACGAAGACTAGGATCTTCTGGAAAGCTGTGTGCTTTGGACATCTAACTCACATCCAGCAATAGCTCCC
AGAAAAGGACCTCAGAGTTACAACGTTCCAGAGGAACAAAACAGTGGGACATCTTCCACCATCTTCCAAAAGGAAACCTCAGAACAGAACAAGC
AACCTTTGTCCTTAGTAAGCTTGTCCACAGAGGCACGCATGGCTGTCATCCGAACACTGGGAAGTCCAAGGCAAGCGAACAGCAAGTTCAAAAC
TAGCTTGAACTGGCTGCATAGTGAGGCCCTATCTCAAAACATCACGGGCTAACTATGTAGCTCAGAGACAAAGCCCTTGTCCAGTGTTTGAAAG
ACTCTGGATTTGATTCCCAACAATAAAAACAACAACATACACTCAGATACTCACACACACACACACACACACACACACACCCAACT
CCTTAAACACTAAAATTTAGTGTAGGTAGAGTGGCACAGGAAACTCTAATTCCAGCACTACAAACCCTGAAGCAGTTTTTATTTTAGTTAGAAG
CCATCCTAGGCTACCTTCTCAACAAGAACATTCCAATCACTACACTTTATTGACAAGATTATAAACTTGTGGCTTTCCTGTCCTTTTTAAAGTA
TTTTTTAAAATTTATTTTACAATGAAGTGGTACCCTTTCATTTCCTAATATGTAAAATGGGGATGTCCCCTACCTTCCTGTTACTTAAAAGCAA
CACCCCGGGTGATGTCATCAGGCTGGGGTACAGTACGGGCAAGTCCCCAAACCACAGGCTATTCCGCTACCTGGGTTCCCACACCTACACTGGA
CCGGCATGATTTGGACGTAAGATCTTAAAATAATCCATAATTACACCTTTTCAAAAAGGACCTTTTGAGGGTCAGCTCTACCCACTGTCATATC
TGTTGGTGCTGTCCTGTGTTTAGGGAGAGGCAGAGAGAAAGCGGGTGTGCGCAACCTCTAAGAGAGTAATAGTAAAGAGACAAGCCTAGGAAAT
CTTCCCCAAGAGGCCTTTTGGGGAAGGCTATCCCCCCTTCCGTGGATGTTGAATACCTTGCCTGTTGCTCAGATGCAGTCAAGCATCTGATGAT
GCTTGAGGCATGATGCTGAGACCACTGTGTAGGTTGGTACAAATTCCCTTTCTATTATACCCACCCTTATGCAGTTATTTGGGTTTAAATTTTC
AACGTTTTAAAAAAAAAAAAAAAAAGTATTGCCGGGCAATAGTGACGCAGGCCTTTAATCCCAGCACTCGAAAGACAGAGGCAGGCAGATCTCT
GAGTTTGAGACCAACCTGGATGGTCTAAGGCCTTGAACTCAAGAGATCTATCCACCAGCTTGTATCCCATTTAATTGAGTGATTTGTTTGCTCT
CTCTCTCTCCCGCTCCCCCTCTCTCCCCCCTCTCCCTCCCCTTTTTCAGTTCTTTATTTATATTTGAATATTATCTCTCTCTCAGATGTGTACT
TGGTGACGGTCTTTTCTACAAAGGATTATCTGTTTCATGACACGCCATTTATTAATCTGCTTGTCCCTGGAGCTTCTGTACAGTAGCGTGACCT
GATCCTCTAGCTTCTCCATCCCAGATGATTGGGATTCAAGGCATTCATCACCACGCCTACCTAAAATTCCAACCTTTTAATAAAATGGCTCTCT
AAAATATTTTGGCAAAGGAATCTCACTCTTTCTCTTCACTAATATAGTTCAACCACCCAATTCGTAAGCAGTCGGGCTGAGGGTGAGCATCCTT
AAGAACATAAAAGCAAAATTTGGAGGCTCAAGATTCAGTTTAGTTGCTAGAGGGCTCACATAGCATGCCCTCCCCACCCGGGATTCCATTCTCA
TTTATCGAGGCATAAGGCCAGGTGTGGTGGGATATGTGCTGGGATGCATAAGATCTTTTATAAAGAAGAGGAAGAGGAAAAACAGTTATACAAA
ACTAATAAAACTGTGTGAGTTTCAGGCTAGCAAAGAATAGTCGTGAGAATCTCTCTCAAAAAAAAAACCCCAAAATAATAATAATGATAATAAT
GATAATAATAATAATAATAATAAAACAAGGCAATAATAAGCTAATGCTCCTGCCTTGCATTCTGACTCCTTTTGCCCAGTAAAATTCAATGCTC
TGCTTTGACACGTCCAGCTTACAACACGACAAAGGTGTGAGACATGGGTGCTAAAACTTGTTCTATTGCCTTTCCGTTTCTGTTAGATCTCCTT
CACTTGTATACCTGTGACTCATTCATTTTCCCCATCCACAACTAGGGCTCTGTTTTGGGTGACTGTCAGAAAGTAGGGATGGGTTCATCTACTC
CCCCTCTTTGCAACTGAATAGCCACCTCTGAACCATTTTTTTCTCTAGTAATTTCTCTTCCTTTGCCTCCTTTGCAGCCTAAAAGAGTCATTTA
AAGGATGACCGGAAGCTTGTCTTAGGCAAGGAAGCATCTTCCCAGAACCTGGAAACCCTGCAGCCCTGCCCCCATCCGACCTCCGCCCTCGTTG
GCTTCGCAACGCTGTGGTCTCTGTGGCCAGTAGAGGGCACACTTACTTTACTTTCACAAATCCGAGAGCCACAACCCGGGTGGTGGGGGGTGAG
GGGGCGGGGAAAGAGTCTCTGCAGCAAAACGCAGACTAGGGATTGGTGGCTCTTGGTGTTTGAGGCAAAATCCTAGAGGCTGTAGTCATTTGC
AATCCTTAAAGCTGAATTGTGCAATGAGCTCGATGAAGGAAGATACTATCATTCAACAGCTGAATCCTAAATTGCAAACTCAGTGGCTAATAAC
AACTTTGAACAATGAGCACCTTATACACGCTACTGTATTTTCTTTTCTTTCTTTTTTTTTTTTTTTTTTTTTTTTTAAACCGGGTAGCAGTGAGA
GAGGTTTCTTTAAGTGCCTTGGGGCGAGGAGTCCGGAATAAGAAGACTTCTTTGGGTTTTAAAGTGTAGGATAAGCAAATCCCGAGGGAATATG
CATTATATAATAAATCTAGAACCAATGCACAGAGCAAAAGACTCATGTTTCTGGTTGGTTAATAAGCTAGATTATCGTGTATATATAAAGTGTG
TATGTATACGTTTGGGGATTGTACAGAATGCACAGCGTAGTATTCAGGAAAAAGGAAACTGGGAAATTAATGTATAAATTAAAATCAGCTTTTA
ATTAGCTTAACACACACATACGAAGGCAAAAATGTAACGTTACTTTGATCTGATCAGGGCCGACTTTTTTTTTTTAAGTGCATAATTACGATTCC
AGTAATAAAAGGGGAAAGCTTGGGTTTGTCCTGGGAGGAAGGGGTTAACGGTTTTCTTTATTCTAGGGTCTCTGCAGGCTCCCCAGATCTGGGT
TGGCAATTCACTCCTCCCCCTTTCTGGGAAGTCCGGGTTTTCCCCAACCCCCCAATTCATGGCATATTCTCGCGTCTAGCGCCTTGATTTTCCC
CACCCCAGCTCCTAAACCAGAGTCTGCTGCAAACTGGCTCCACAGGGGCAAAGAGGATTTGCCTCTTGTGAAAACCGACTGTGGCCCTGGAACT
GTGTGGAGGTGTATGGGGGTGTAGACCGGCAGATACTCCTCCCGGAGGAGCCGGGTAGAGCGCACCCGCCGCCACTTTACTGGACTGCGCAGGG
AGACCTACAGGGGAAAGAGCCGCCTCCACACCACCCGCCGGGTGGAAGTCCGAACCGGAGGTGCTGGAGTGTNNNNNNNNNNNNNNNNNNNTG
ACGCGGTCCAGGGTACATGGCGTATTGTGTGGAGCGAGGCAGCTGTTCCACCTGCGGTGACTGATATACGCAGGGCAAGAACACAGTTCAGCCG
AGCGCTGCGCCCGAACAACCGTACAGAAAGGGAAAGGACTAGCGCGCGAGCAAGAGAAAATGGTCGGGCGCGCAGTTAATTCATGCTGCGCTAT
TACTGTTTACACCCCGGAGCCGGAGTACTGGGCTGCGGGGCTGAGGCTCCTCCTCCTCTTTCCCCGGCTCCCCACTAGCCCCCCTCCCGAGTTC
CCAAAGCAGAGGGCGGGGAAGCGAGAGGAGGAAAAAAAAATAGAGAGAGGTGGGGAAGGGAGAAAGAGAGATTCTCTGGCTAATCCCCGCCCAC
CCGCCCTTTATATTCCGGGGGTCTGCGCGGCCGAGGACCCCTGGGCTGCGCTGCTCTCAGCTGCCGGGTCCGACTCGCCTCACTCAGCTCCCCT
CCTGCCTCCTGAAGGGCAGGGCTTCGCCGACGCTTGGCGGGAAAAAGAAGGGAGGGGAGGGATCCTGAGTCGCAGTATAAAAGAAGCTTTTCGG
GCGTTTTTTTCTGACTCGCTGTAGTAATTCCAGCGAGAGACAGAGGGAGTGAGCGGACGGTTGGAAGAGCCGTGTGTGCAGAGCCGCGCTCCGG
GGCGACCTAAGAAGGCAGCTCTGGAGTGAGAGGGGCTTTGCCTCCGAGCCTGCCGCCCACTCTCCCCAACCCTGCGACTGACCCAACATCAGCG
GCCGCAACCCTCGCCGCCGCTGGGAAACTTTGCCCATTGCAGCGGGCAGACACTTCTCACTGGAACTTACAATCTGCGAGCCAGGACAGGACTC
CCCAGGCTCCGGGGAGGGAATTTTTGTCTATTTGGGGACAGTGTTCTCTGCCTCTGCCCGCGATCAGCTCTCCTGAAAAGAGCTCCTCGAGCTG
TTTGAAGGCTGGATTTCCTTTGGGCGTTGGAAACCCCGGTAAGCACAGATCTGGTGGTCTTTCCCTGTGTTCTTTCTGCGTCTTGAATGTAGCG
GCCGGTTAGGACAGTCTTTCTTCCATTCCTGTGCTTTTGACACTTTTCTCAAGAGTAGTTGGGGTAGGCTGGGGTAGATCTGAGTCGGGGTAGA
GCGACTTGTCAAGATGACAGAGGAAAGGGGAAGGGAAAAACCGGGATGCATTTTGAAGCGGGGTTCCCGAGGTTACTATGGGCTGACGCTGACC
CGGCCGGTTGGACATTCTTGCTTTGCTACATTAATTGATATGTGTCCTTTGAGGGGTCAAACCGGGAGGTCGCTTCGTGGTGGCCAAAGAAAGC
CCTTGGAATCCTGAGGTCTTTGGAGAAGGGATTACCTTTTGCGTTTGGGAGCGAGAAGGCTCCGTAGCTTCTGACTTACCAGTCTCTGAGAGGG
CATTTAAATTTCAGCTTGGTGCATTTCTGACAGCCTGGGACCGACACGGAGGTGCGTCCCGCCCGCCAATCCCCGGCGGCGATCGCAACCCGTC
CCTGAGCCTTTTAAGAAGTTGCTATTTTGGCTTTAAAAATAGTGATCGTAGTAAAATTTAAGCCTGACCCCCGCGGCACTAGGACTTGATGTTG
GGCTAGCGCAGTGAGGAGAAGCAAAATTGGGACAGGGATGTGACCGATTCGTTGACTTGGGGGAAACCAGAGGGAATCCTCACATTCCTACTTG
GGATCCGCGGGTATCCCTCGCGCCCCTGAATTGCTAGGAAGACTGCGGTGAGTCGTGATCTGAGCGGTTCCGTAACAGCTGCTACCCTCGGCGG
GGAGAGGGAAGACGCCCTGCACCCAGTGCTGAATCGCTGCAGGGTCTCTGGTGCAGTGGCGTCGCGGTTTAGAGTGTAGAAGGGAGGTGTCTCT
TATTATTTGACACCCCCTCCCCTTTTATTTCGAGAGGCTTGTGATAGCCGGAGACTGAGCTCTCTCCTCCAAGTCAGCAATCGGAAAGAAAAGC
CGGCAAAGGAAGGAAGGGGGCGCGCTGGGGGTGGAGAAAGAGGAGGGCGGAGAGGGGCGGCGGCGCCGGCTGGGTAGGAGCGCGGCGACGGCGC
GAATAGGGACTCGGACCCGGTCGGCGGCGCAGAGAGCCGGCACACGGGAGGGGGCCGAGCGACGCGGCGCCTCTCGCCTTTCTCCTTCAGGTGG
CGCAAAACTTTGCGCCTCGGCTCTTAGCAGACTGTATTCCCTACAGTCGCCTCCCTCAGCCTCTGAAGCCAAGGCCGATGGCGATTCCTGGGCG
TCTGCAGGGCTAAGTCCCTGCTCGAAGGAGGCGGGGACTCGGAGCAGCTGCTAGTCCGACGAGCGTCACTGATAGTAGGGAGTAAAAGAGTGCA
TGCCTCCCCCCCAACCACACACACACACACACACACACACACACACACACACACACACACACACACACTTGGAAGTACAGCACGCTGAAAGGGGAGTGGT
TCAGGATTGGGGTACGCGCTGCGCCAGGTTTCCGCACCAACCAGAGCTGGATAACTCTAGACTTGCTTCCCTTGCTGTGCCCCCTCCAGCAGAC
AGCCACGACGATGCCCCTCAACGTGAACTTCACCAACAGGAACTATGACCTCGACTACGACTCCGTACAGCCCTATTTCATCTGCGACGAGGAA
GAGAATTTCTATCACCAGCAACAGCAGAGCGAGCTGCAGCCGCCCGCGCCCAGTGAGGATATCTGGAAGAAATTCGAGCTGCTTCCCACCCCGC
CCCTGTCCCCGAGCCGCCGCTCCGGGCTCTGCTCTCCATCCTATGTTGCGGTCGCTACGTCCTTCTCCCCAAGGGAAGACGATGACGGCGGCGG
TGGCAACTTCTCCACCGCCGATCAGCTGGAGATGATGACCGAGTTACTTGGAGGAGACATGGTGAACCAGAGCTTCATCTGCGATCCTGACGAC

GAGACCTTCATCAAGAACATCATCATCCAGGACTGTATGTGGAGCGGTTTCTCAGCCGCTGCCAAGCTGGTCTCGGAGAAGCTGGCCTCCTACC
AGGCTGCGCGCAAAGACAGCACCAGCCTGAGCCCCGCCCGCGGGCACAGCGTCTGCTCCACCTCCAGCCTGTACCTGCAGGACCTCACCGCCGC
CGCGTCCGAGTGCATTGACCCCTCAGTGGTCTTTCCCTACCCGCTCAACGACAGCAGCTCGCCCAAATCCTGTACCTCGTCCGATTCCACGGCC
TTCTCTCCTTCCTCGGACTCGCTGCTGTCCTCCGAGTCCTCCCCACGGGCCAGCCCTGAGCCCCTAGTGCTGCATGAGGAGACACCGCCCACCA
CCAGCAGCGACTCTGGTAAGCTACCCCATTCACAGCAGGGTAGGAAGCGAGAGGTTGGATGGACCTCCTTCTCCACCACTCATTGGCATTAATT
CAATTGGCCTCCGGGGCTCCCCCTTTCTTTCCCTTCTGTCTAAGAGCTCTTCATCCCTGGATTCCCGTGNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTCAGGAATTTCATTTGGGTTTTTAAATCTTCTGGCTTATCTTTCAGCTCCATC
CACTCCCTTTACCCCTCCTAAGCATTTTAATTACCCTGGGAAGGGTGTGAATGAGGATAAAGGAACTGATCTGGAGGGGGGTGAATTACCTGCT
TCTTTTCTTGACTGCCAGAAGAATATTTGAATTTAATGGATACGTTTGTCTAAGACCCAAGAGAAGCAATGACAGAAGCTGGGACAGCCTTTAT
AGCCTTAGAGCCAGGCACTAGTGAAAGTTCCTAAAGAATTGAAGAGCTGGGCTCTTTTGGGTGTTTTGTTTTGCTTTGTTTTTTCGTCCTCTTT
TGAACACTTCAAAGCAAATTCTGTTCAATTTGGACTTCTCCCCCCGTCCCAACACTCCCCCAACACCAGGACGTTTGGCAAAGCTGCAAGACTT
TTTTTTTTTTTTTTTTTTTTTAATTGTGCTTCCAGTAAAATAGGGAGTTGCTAAAGTCATAGCAAGAGATTTGCAGCTATCCCTCACGGGACCT
GAAAGGTTCTCGGTAAAGTCCCTTAAAAATAGGAGGTGCTTGGGAAATGTGCTTTGCTTTGGGTGTGTCTGAAGCCTCATTAAATCTTAGGTAA
GAATTGGCAAGGATACCATATCCTGGTACATGGTAATTTTCTCACCTGTGCCCTAACCCTGTTCTGCCTTTCTGGGAGAAGGGAAGATGGTGTC
TGGATCTGATTCTTACTTTCTTCCCTTTCCAACTTGGTATTTGGATAGCATCGGTCAAATCCTATGTATAGCGTCCGGGATTCAGGAGGCGTGG
CTAACTGTGATCTTCCACTTCCTCCCTTACAGAAGAAGAGCAAGAAGATGAGGAAGAAATTGATGTGGTGTCTGTGGAGAAGAGGCAAACCCCT
GCCAAGAGGTCGGAGTCGGGCTCATCTCCATCCCGAGGCCACAGCAAACCTCCGCACAGCCCACTGGTCCTCAAGAGGTGCCACGTCTCCACTC
ACCAGCACAACTACGCCGCACCCCCCTCCACAAGGAAGGACTATCCAGCTGCCAAGAGGGCCAAGTTGGACAGTGGCAGGGTCCTGAAGCAGAT
CAGCAACAACCGCAAGTGCTCCAGCCCCAGGTCCTCAGACACGGAGGAAAACGACAAGAGGCGGACACACAACGTCTTGGAACGTCAGAGGAGG
AACGAGCTGAAGCGCAGCTTTTTTGCCCTGCGTGACCAGATCCCTGAATTGGAAAACAACGAAAAGGCCCCCAAGGTAGTGATCCTCAAAAAAG
CCACCGCCTACATCCTGTCCATTCAAGCAGACGAGCACAAGCTCACCTCTGAAAAGGACTTATTGAGGAAACGACGAGAACAGTTGAAACACAA
ACTCGAACAGCTTCGAAACTCTGGTGCATAAACTGACCTAACTCGAGGAGGAGCTGGAATCTCTCGTGAGAGTAAGGAGAACGGTTCCTTCTGA
CAGAACTGATGCGCTGGAATTAAAATGCATGCTCAAAGCCTAACCTCACAACCTTGGCTGGGGCTTTGGGACTGTAAGCTTCAGCCATAATTTT
AACTGCCTCAAACTTAAATAGTATAAAAGAACTTTTTTTTATGCTTCCCATCTTTTTTCTTTTTCCTTTTAACAGATTTGTATTTAATTGTTTT
TTTAAAAAAAATCTTAAAATCTATCCAATTTTCCCATGTAAATAGGGCCTTGAAATGTAAATAACTTTAATAAAACGTTTATAACAGTTACAAAA
GATTTTAAGACATGTACCATAATTTTTTTTATTTAAAGACATTTTCATTTTTAAAGTTGATTTTTTTCTATTGTTTTTAGAAAAAAATAAAATA
ATTGGAAAAAATACAATTGGGCCAACTTGTGTTTTCTTTTTCCTCTTCCTCAAACTTCCTTTCCTCAATTACAGATTAAAAGAATTTGACCATT
TTCACAGGGTAGGTTTACAAATATGGGAAGGGGTTATCATTGTTAAAATGGGGCTGGGGGTCCTCAGGATTTCTAAGTTGTCTACAGGATGCTT
TCTGTGGATAGTAATAAAAACCAGAGCTGTTAGTTAGGAATGGGCAAAAGGCAAGTGAGAAGGCTAGATGCAGGGAAGGGAAAAGCAAGAGGTT
AAAGATAACAGCTAAATATACAGGAGGAAGAGATGGCAGAATCTCCTACAGTTAACCGAAGCCATTCCCTGGTTCACCTCAACCCAAGGACTCT
GCCCTGCCAAAGAACTGGTGAGGGGAGGGAGAGAGAACCACCGTTTGTTCCTTGCCTCTTGCTCCCAGGTGATAGTCCCTTCACATCAGTATCT
CCTATGCTTCTGAAAAAAACAGAGGAAGAGCATTACCACTGCTAAGTTGATCCTGGTTTTCCAAACAAGGACATACAAAGGTTCAGAGGGTTGC
AGAGCTTAATGGGTACGAACACAACAAAATAACCCAGGGCCCCTGTCTTGAAAACAAGCCTTGCTGCCTTGCTTAGTTGGGTGTCCTTCCGCT
GGTTAGGGGTCTGAGAATGAGCGCTACAGGCTCCATTAGGAGCTTTGACAGAGTGCCACGAAAGAGGTACTATGATCTCTTTATACCTAGTACA
GGTAGAAACAGACATGAAATAACCCATCCATGCACCCAGGGGATTCAAAACCACTTTATCCTTAGTGCATCCAGGAGGAAGATCCTAGCTACGA
AGGAGAGGGCAGGAGTCATTAAAGCTTCACTACTCAAGAACTGGTAGACTTCAGTTCCCCTCCTTGTTTGTGGATTGGGGGGTTGGGGTGGAGG
GTGTTGTGTGTACTCAGAGGCACATAGCTCACTCCTACCTTACCCACTTAGTTTTTAACATCAGATCCCTGCTTGCTCCTGGGAAGAAGCCAGT
TTAGAAGTGCTACTGGTCAGATCATAAAATAAAACCTTGTTTTACATGAGTCATTATTTTAGAAATTGCAAGCTCGCCTTCCTCCCAAGCACTT
TCACACACTCATGACACACGCTCATCAATGGCCCATGAGAAAGCCTTTTGGAACAGGTATCTTATTAATTATAAGCCTCTGAAAAGCCACAATC
CAAACCAGAAACTGAAACATGTAGGTAAAGTCCAGGGAGAAAGGTACCCTAAATGTCCTAAATGACCCCATTGTCTCAGAGAAGGTCTCTAGCA
TCCTGGAGTGTCTTTGGGACTTTAATTCACCATCATTCATAAACCAATAAGTAATTACTATCTTTGACACCCCCCCCCCATGATCTATTGAAGC
GTTTAACATTTAGTTTTTGATCTTATTTTTGGCTCTTTTAGACTCACCCTCAGCTTCAAACTGTTACACCCTCTATCCTACATTCAAAAGAAAA
CACAAACCCCAGTAGTAGTTTGAAATACTTTGAGTAGTTCAAAGGATTAGCAAAAGGGGGGAGCAGGGGGTGCTCTTAAATAGTTCCCTCTTTT
TCCCCTTTGTGAGCCTAGGCTGGAGTGCAGCCCTGGGGTGACTCACTTGAGACCTGGGAAGGTGTTAGGTTGAATCACTCAGTCCAGGCAAGCC
CAAAGAATAGAGGAAAGCATTCCTCATTAGGAAAACAACTCCTGTTCCAAATGATCAGGAAACAAGTTTAGAGATTCAGATTTGGCTGTGGGGA
TGGAATCGAAGTATCACAGCTCCCTATCTGGGCACTTCTCAGCTTTACCAAGCCAGGGAATGGTCTGAAAACAGGACATCGGCCAGCTTCCTTC
CAGAAAGTCAGGCTGATCTTGACCATAACACAGGAAGGCTCTCCCAGCCAATCTGGAGTCCCAGGGGTCTGCAACATTGTGCAATCAAATTTAT
AGATAACAATCACGATGAGGGGTGAAGTGGGAGGAGCTTTCAGCTTGGTCTGGGATATACAAGAATTAGCTAGTCTCTTCTGTTGTTCACCCAT
GACACTGGAACTCAGTTTCCCCGAGAGGATCCCTGGGATGGTGCTCTTCAGGATAAACTGAGTGAGGAGGAAGTGTGACTTTATGCTATCATTC
GGGGACAACACTAAAAAGCAATCAATTACACTTTAAGTTGAACAAAAGTTTCACAATACCAGGATAGTGCTTGAGTCATCCAAAGCTTGAACAC
GTATGTAGAGTCTTCTGCTGTTCTTTAAGATGGACTTTGGCACTAACCTTGGAAAAGAGGGCCAAAAAACCCACACCCCCAAAAACAAACAGAAC
AAAAAACGTGAGGGGATTTTCTGTGGTTTGTTTACAATAAGAGATGAGTCACAATAATGATTTTTTTTTTTTTTTTTAGCATGACTGCTAAGGA
ACCCTGAAGCATTTCTTCCCAACAAAAACTAATCTTTAGGTTATAACATGCTGGAAGATGAGCTTCAAGCCTGTCTATAAATACATCACTGGGT
ATCTTCAGGGAACAAACTCTTCACTTAAGGTTAGAGACCATCCTGGATCGATTTCAAGAACAGAGGTTTATTTTAAACAATGAAGCCTGGGCTA
GAGATGTCGTTCAGTGATAAGACACTTGTCTAGCATGTATAAGGACCCATGCTTGACACCACAGGAATAAATAAAACCAAAAATGAGGTTCCTA
CTCATTCCCCAAACTTTAGCAATTTTGGTGGTGGTGGTGGTGGTTCGACGTCTTTCCAGAGAAATCCAACAAACTGCCAATTTAGGGAAAA
CATCTAGCTCTAGCGACTTTGCCAAACTGGTGTGAGTTGACTCAATGACTGAGTGGATTTCCTTTTTGGGTTTTACTTCACTCAATATTGGTCT
ACACTAAGCTCTTTAGGAAGACAGGGTTGAGAGAGGAACAAGTGTTAATGGGATGTAGATCCTCTGAGGCTGAAAGGAATGTCCTTTGTCTCTA
AACAATGCCGAGGGGCTCAGGAACACTCTCTTCCAGTCTTCACCCGACCATCTCATTAAAGGCTAAACTCTCCAGTTCGGGTCTATATGGCTAG
GAAAGAGGAGCTTTGGGGAAAGCTCTGTCAGAATATACCTGCTTTCTGCAGGGGGCGGGAGGACCCCCACAAACAACTCAGCTGGAGAACAATT
GTTAGATGTGACAATACTGAAGTTTGTACACAGACATGTGAAATTGCTGGCCTGAAGTCACATAAGCACTAACTAACGATAATAGCAATTAATG
TTTACTGTGTGCTAAAAGTTTGACATACATTATCTCCTTTTATTCCCAAAGCAACCCCCTATACACACACACCTCCTTTTTGGTTTTGGTTT
TACTTTTTAAATTTTACTATTAAATTTTAAATATGTTTTTTTTTTTAAATTTACTGCACTAGAGAGGGAACCTAGAACCTCCTGCATGCAAGGTA
AGTGATCAATGGGTGAGTCACATCTCTATAGAGATTGTAGGTTGTTTCACCAAAAGTATTAGGGCATTTCCTACAGAGTGGTGGAAGTTCGAGT
CCTGGGAACATGGAATAAGGATGGAATCCAGTAAGTCTTGAGAAAGAAGCTAAAGGAGAAAATGTCAGCAGCAGATGGCAGGGAAGCAAAGAAG
AAGGAGAGCTAAAACCAACAAGCTAAAACCAAAAACGCTTGCTATTTGAACTGTGCCTAAGGTAGCAGGAAGTACAGCAAGGATCCACTGGCTT
AGTGAGGGAATGCTTCTCTAGGCCTCTCCTATCCACTTCCCCTTCCACCCAGTATCCTCCTACTCCTTCATCTGCTAGAGACAACTGCCCATAG
GTAGTTAATTAGCTGTCCCAGCACCCAACTCTCCTGCAGTACTTTGGTTCTGTTTATTTGTTTTGGCAATAGGATCTCATTAGGCAGGCCATAC
TGGCCTCAAACTCTGGAATTTCTTGCCTCAGCCTCTTAAGTGTTGTGTTGGGATTACCAGTTTGGGACACTTATTCTCCAGCTTTCATGCAGGG
CTTTATTCAGGAATTTCCACTGTGTGATTCTAGGATGCAAATACTAGTTCTCATTCCCTGAGGGTTTAATTGTTGTTGTTGTTTCGTTAGTTGG
TTGGTTTTGGGTTTTGTTCATTGGGTTGGTTTGGGTTGGTTTTGGTTTTTCAAAACAGGGTTTCTCTGTGTCTGAGAACCATTGTCTTTTCTAC

CACTGCAAACCCAACCATCTTTTCAAACCACTGGTAAGCCAAGTCCTTTCTGGATTAAGTCTGAAGCCATTCTCCACTCCTATTCGATACACTT
ACTACCTACCACAAACACGGCAGCCTGGCAGCCTCAATGCCAGTTTTGGGCTTCTCCTTGTATGCTTGGAGACCAGTTGTCTTCATCATCAGAT
CAACCCCTTGAAGAATGGAAGTTCATTGGTCTTGCTTAATCATGCCTGACAAGAAAGTGCAATTCACTAATTCTGTAAACATCTAAGTGAAGGG
CTCTTTGATGGGCTCAATGGTGCATCAGACCTGAGTAAGGGGTGGAGTAGAAGCAAAGTTGTTTCAAGTTGCATAGCGAGAAAGGTCAAGGAAA
GAGATGGGGGTTCATCAGGTGAAGGGAAGGATTTTGATTAGACTTGCTTTGCTTGATTTGGTTTTTGAGCTGAAAAGACAGGAAGCCTAATTCA
TTTCCATGATAGTAGGCTAGACTTGAGAGGGAAAGAACTGCTGACAGAAAAGGAGGGGAATTGTACTGACTGGTTTTGTGTGTGTGTGTGTG
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGAACTTGACACAAGCTGGAGTTATCACAGAGCCTCACTTGGGGAAAAGCCTCCGT
GAGATCCAGCTGTAAGGCATTTTCTCAATTAGTGGTGAAGGAGGGCCTATGTGGGTGGTGCCATCCCTGGGCTGGTAGTCTTGAGTTCTCTAAG
AGAGCAAGCTGAGCAAGCCAGGGGAAGCAAGCCAGTAAGTAACATCCTTCCAAGACCTCTGCATCAGCTCCTGCTTCCTGACCTGCTTGAGTTC
CAGTCCTGACTTCCTTTGGTAATGAACAGCAGTGTGTAAGTGGACAGTGAATAATCCTTTTCTTTCCCAACTTGCTTTTTGGACATGATGTTTT
GTGCAGGAATATAAACCCTGACTAAGACAAGAATCAAAGTGTCTAGTCAGGTGAGTTACTGGACCGGTAGGTAGCTTTGTTTTGCTTGCTTGAT
GTCTGGAGCCCTCTCTTAGCTGGGTATGGCTGAACAAATGAAAAAAGAATATGTTCCCCCTACTTAGGTAAGTATTCTTCCAGGTGGTGATGTC
ACTGGCCAAGCTGTTCTCCCTTGGCTTCCCACAGCTCTCTTCCTTTACCAGATACCATGTCCATCTTTACACAAATGACTCTAAACCTCTTCTC
TCCACAGACACCTTCAATCCACATGAGATAAAGCCTCCACATTTTGTAGCTCTGGCTGACCTGGAACTCACTATGCAGACCAGCCTTGCATTGA
ACTTTCAGAGATCTGCCTATATCTTTCTTAGGAGTGCTAGGACTAAAGGCATGCACCACATTTAGTCCTGCTAAACTTCTTTTTTTGTTTTTTT
GGTTTTTTCGAGACAGGGTTTCTCTGTTGTAGCCCTGGCTGTCCTGGAACTCACTCTGTAGACCAGGCTGGCCTCAAACTTAGAAATCCACCTGT
CTCTGCCTCCCAAGTGCTGAGATTAAAGATGTGTGGTACTACTGCTTAGACTGACACACAAAATATTGTTGAAGCCAGTGAGATAAAGCTCACC
TTCAATCTCAGAGGTAGGCCAGGCAGACTTTTGTGAGTTCTGGGCCAGCCAGAGCTTCATATGAAAAGTAATAATAATGATAATAATAATAATA
ATTTTAATAAACAAATGGGTGTATGAAAGAGTAAATGTGCACATATTTCTGGCATCTGTTTTAAGATTCTACTTCCTTAGGCTGTCAGTCATTC
TCACCCCATTCAACCCTTTGCTCTGCACTGTGATTGACAAATCTTCTCTCCCTCTGGTGACTACCTAATTCATCCCAGACAGCATCAGCCTTGG
CAACAACTTCTCTATGCAGGGACTGTAAGTTCCAGACAACAGAAACTCTGTTCCAATTCACAAAATCAACTAGGAAAGGAGAAGAGACAGAGGA
CAGAGGAAAGGAAGGAAGAAGGGAGAAAAGGAGGGAGGGAGGGAGGGAGGGAGGGAAAATGTCAATTTATGCAACTGTTTCATGATTCATCCAA
GGATCCTCTCTGATTCTTTTTTGGTTGTTGTTGTTTTTGTTTTTTCGAGACAGGGTTTCTCTGTATAGCCCTGACTGTCCTGGAACTCACTTTG
TAGACCAGGCTGGCCTCGAACTCAGAAACCCACCTGCCTCTGCCTCCCAAGTGCTGGGATTAAAGATGTGTGCCACCACGCCCAGCTAAACCTC
TTCCTTCTAGCCAGAAGAACACAGCAGAAAGAACTATGATCAGTCTTCTGGAACCATGTGCTTACCCTTAAACCAGACAATTCACTTGGTTCCC
AGGACCACACTCCTCCTGCAAAAGTTGGAACCCTGTGATTCTCAGCTTCTGAGGCAAAGGGAAGACCTATCCAAGATAAAAAACCAACAACAAC
AAAAAAGTCAATATAAGAAAAGAAAAAAATGTTCTCTAGATACATTCTGGGTAGTGATGGTTCTCACTGTTCAGAGATATAAGAAAAGAGCAGA
TGCTTAAAACCCTGACTCTTGAGAACAACTTTTGGTAAGAGAGACTCCTTTTTTTAAAATTTTATTTATTTATTTATTTACTTACTTATTATAT
GGTAAGTACACTGGTAGCTGTCTTCAGACACTCCAGAAGAGAGTATCAGATCTCATTACAGATGGTTGTGAGCCACCATGTGGTTGCTGGGATT
TGAACTCAGGATCTTTGGAAGAACAGTCAGTGCTCTTAACCACTGAGCTATCTTACCCAGCCCCCCACCCACCCCCCCAACCCCGTTAAGAGAG
ATTCGAATGGTCCATCTTAGAGGTATTGAAATTGAGTCTGAAGTGGGAGGCCTAGGGGCTGTTTTGAGCCAACTCAGCCCAGGTGATTTGCAGT
GAGGTGGGAATTCCAAGGGCAAACAAGGATCAGCAAAAGCTATACCCCTCTACCACAGATTTGGAGAGAATTCAGATGGGAGGCCTGTTCCAGC
CATTGCTCAGTAAGTAAGCAAGAGTCTAGCTACCTCTTCATCTCCCTCCTTCTACCACACCATTAAGTCCCTCCAGGCCATCAGCCTCAATGAT
TCTTTCTTTTTTTTTTTTTTTAATTAGGTATTTTCCTCATTTACATTTCCAATGCTATCCCAAAAGTCCCCCATACCCTCCCCCTCCACTCCAACT
TTTTGGCCCTGTTGTTCCCCGCCTCAATGCTTCTTGGCTCTATCCATGTCTCCTTGCCCACTTTGCTTCTGCCAACCGATATTCTTTACCTGGG
ACTCTCTAGCAGATGCCAACTGCCTGTCTCTCATCTGGTTTCCTCAAAGGTAGAAAAATGGTCTCCCAAATAAGCCCGATCAGTTTACTCCCTG
GCGTAGGAGAACTTGATGATTCATGTGCTCTGCTTCTAAAATACAGATCTGTGGGCCTGGTAGTGCAGATGTTAATCCCAACTACTCTACTTGG
GAGGCCTAGGGAATGGACTCCATGTTCAAGGTCTGCCTGGACAGCAAGATGAGTGCTGGGGAAGCCAGAGAAAATGAGTAAACTTTCTGAAAA
GTAAAGCATTATAAAAACAAACAAACAAAGGTCCAGAGAACTGGGGAGATGATTGGCTGGTTAAGAGTACTTGCTCTTCTGCATGGGACCCAAG
TTCAGTTCCTAGAAGCCGAGTAGCTTGCACCTTCAATTATGGCCCCCTCTTCTGTTTTCTCAGGACCAGGTGCACACAGTGCATATAACATACA
TGTAAGCAAAATACTCACACACATAAAATTAAAAATAAATAAATCTTTCAGGCAAAACTGACCTGGGATATAGCTCAAGGATAGAGGATTTGCA
TGGGATGCTAGCAGCCCTGACTTCCATCTACAGTCCAGAAAGACAAGTAAATCAGAAATGCCTTTGAGGGACTGAAGAGATGATTCAGAGGTTA
AGAGCACTGGCTGCTCTTCCAGAAGACCTGGGTTCAATTCCTAGTACCTGCATGAGAGCTGACTCCAGTTCCAGGGAATCTGACCCTATCACTC
AGACACTGTTCTTGTCATCTGCACACGGGATGATCACACACATATCATTTCACATGTGGGGATACTGAGAATGAGAGTCAGCAGGTAACTGTCT
CAACTTCAACTAAGCAGGGCAGTTTGTTAGCAGGGATGGAATCTGGATTCTTATTGCCCCCCAGCTTCTTCACTTCCTGCTGCCTCTCTACAAC
CACACCATATTGAAATTACCTTCTTCCCTCTCTTGCTTCCGCACTGAAACTGGGGCTGAATCTAGCTGGCTACCTGACCTGATTCTCTCCTATC
AGATGGATGACTTGCTGTCCTCCTGGGTCATCTCCCGTGTTTAGCAAGACAGGGTATAGAGTTTTAAATGAGTGTAGGCAGAGTGCATGAATCA
TCACACTTTTAGGCAGAGTGCATGAATCATCAGACTTTCCTACGCCAGGGAGTAAACTGAGCACGCATATTTTGGAGACCACTTCTCTACTCCT
AGGGTCAGAAGAGCCTGCAGATGATCTACTCAAAGCAATTTTATCTGCCATTCTGTTGAGTAGTGAGGCAAGGATCATGTTACCTGCAACGGGG
CCAATCTTTGCCTCTGTTTTTGAAGTCTCTGGAGAAGTAGCCGTCTTCCTGCGCTGGGGATATGATTAAGCAGTAGAACATGCACATAATTTCA
TGAGGCTAACATACAGCTCTTCAGAGATCAGCCTACTTATTTATGACACAATTGTTTTAAGACATCAGGTATTCTAGGAGATAAGATTCCTTCT
CTTGCTTTCCTGGTACCCAGAATGATCTCCTAAACCACAAGTAATTGGCACAGAGATGGATCTTCCAAACTGACCCAGATCTACACAGATCTTA
TCTTCATACCCAAGAACTCCCCAGTCAATGGATATTTGGGGCATTTGCTATGCACACAGACGTCAGTGTGGAATAACCGTACTCCAGCACTTAG
TAGAAAGGATGTATACTGAACGAGTATTTACAAATAATTAACCAGATTATTTTCAGGGCACAAATTAGTGGAGCAAGGATTGCAGAGTTACATG
AACATCTGATAGCATTGCGGTTCAGGGAAAGTTCCCAGCCAGGGTACAGAGGATGGTGATGAAGAAAGCATGCTCAATATCTTGAGGCGCTGCT
ATGAGAGAGAATGAAACTCTCTAGGGGAACTGAAAGCATACAAGGATGTAAAGAATAGGAAGAGCAAAAGGACTTCAACCCTTGGATGAGACAC
AGGGTGATCCAATACCCGGTGACCTGCAGGGACTCAGGCCCAGTGGTTATGATGGCAACCTACCCACAGTCGTGAGTATGATGCAGTGGGAAGT
CACAGTACTGAAAACCAACACACTTAACTTGCCTGTGCTGCTGTGAACGTCCATTCAATGAGGGTCAGGAAGCTCAAATAAGATAATCGCAAAT
ACTGAGTGGTTCTGAGAGGAATGCAACCATGAAAAAAAAAGTGCTGACACTTGCAGAATGTTTATGTTTCTAATGCTGGGCTAAGTACTTCACC
TGGATTATTTCACCAATTCCTCCTCCTCCTCTCCCTGTTCTCCCTTCTCCTCCTCTTCTTCCTGTTCTTCCTCCTCCTCTTCCTCTTCTTCCAA
AGATTCATGTGTATCAAGGTATTCTCAA

MOUSE SEQUENCE - mRNA

GATTGGGGTACGCGCTGCGCCAGGTTTCCGCACCAACCAGAGCTGGATAACTCTAGACTTGCTTCCCTTGCTGTGCCCCCTCCAGCAGACAGCC
ACGACGATGCCCCTCAACGTGAACTTCACCAACAGGAACTATGACCTCGACTACGACTCCGTACAGCCCTATTTCATCTGCGACGAGGAAGAGA
ATTTCTATCACCAGCAACAGCAGAGCGAGCTGCAGCCGCCCGCGCCCAGTGAGGATATCTGGAAGAAATTCGAGCTGCTTCCCACCCCGCCCCT
GTCCCCGAGCCGCCGCTCCGGGCTCTGCTCTCCATCCTATGTTGCGGTCGCTACGTCCTTCTCCCCAAGGGAAGACGATGACGGCGGCGGTGGC
AACTTCTCCACCGCCGATCAGCTGGAGATGATGACCGAGTTACTTGGAGGAGACATGGTGAACCAGAGCTTCATCTGCGATCCTGACGACGAGA
CCTTCATCAAGAACATCATCATCCAGGACTGTATGTGGAGCGGTTCTCAGCCGCTGCCAAGCTGGTCTCGGAGAAGCTGGCCTCCTACCAGGC
TGCGCGCAAAGACAGCACCAGCCTGAGCCCCGCCCGCGGGCACAGCGTCTGCTCCACCTCCAGCCTGTACCTGCAGGACCTCACCGCCGCCGCG
TCCGAGTGCATTGACCCCTCAGTGGTCTTTCCCTACCCGCTCAACGACAGCAGCTCGCCCAAATCCTGTACCTCGTCCGATTCCACGGCCTTCT
CTCCTTCCTCGGACTCGCTGCTGTCCTCCGAGTCCTCCCCACGGGCCAGCCCTGAGCCCCTAGTGCTGCATGAGGAGACACCGCCCACCACCAG
CAGCGACTCTGAAGAAGAGCAAGAAGATGAGGAAGAAATTGATGTGGTGTCTGTGGAGAAGAGGCAAACCCCTGCCAAGAGGTCGGAGTCGGGC

TCATCTCCATCCCGAGGCCACAGCAAACCTCCGCACAGCCCACTGGTCCTCAAGAGGTGCCACGTCTCCACTCACCAGCACAACTACGCCGCAC
CCCCCTCCACAAGGAAGGACTATCCAGCTGCCAAGAGGGCCAAGTTGGACAGTGGCAGGGTCCTGAAGCAGATCAGCAACAACCGCAAGTGCTC
CAGCCCCAGGTCCTCAGACACGGAGGAAAACGACAAGAGGCGGACACACAACGTCTTGGAACGTCAGAGGAGGAACGAGCTGAAGCGCAGCTTT
TTTGCCCTGCGTGACCAGATCCCTGAATTGGAAAACAACGAAAAGGCCCCCAAGGTAGTGATCCTCAAAAAAGCCACCGCCTACATCCTGTCCA
TTCAAGCAGACGAGCACAAGCTCACCTCTGAAAAGGACTTATTGAGGAAACGACGAGAACAGTTGAAACACAAACTCGAACAGCTTCGAAACTC
TGGTGCATAAACTGACCTAACTCGAGGAGGAGCTGGAATCTCTCGTGAGAGTAAGGAGAACGGTTCCTTCTGACAGAACTGATGCGCTGGAATT
AAAATGCATGCTCAAAGCCTAACCTCACAACCTTGGCTGGGGCTTTGGGACTGTAAGCTTCAGCCATAATTTTAACTGCCTCAAACTTAAATAG
TATAAAAGAACTTTTTTTTATGCTTCCCATCTTTTTTCTTTTTCCTTTTAACAGATTTGTATTTAATTGTTTTTTTAAAAAAATCTTAAAATCT
ATCCAATTTTCCCATGTAAATAGGGCCTTGAAATGTAAATAACTTTAATAAAACGTTTATAACAGTTAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAA

MOUSE SEQUENCE - CODING
ATGCCCCTCAACGTGAACTTCACCAACAGGAACTATGACCTCGACTACGACTCCGTACAGCCCTATTTCATCTGCGACGAGGAAGAGAATTTCT
ATCACCAGCAACAGCAGAGCGAGCTGCAGCCGCCCCGCGCCCAGTGAGGATATCTGGAAGAAATTCGAGCTGCTTCCCACCCCGCCCCTGTCCCC
GAGCCGCCGCTCCGGGCTCTGCTCTCCATCCTATGTTGCGGTCGCTACGTCCTTCTCCCCAAGGGAAGACGATGACGGCGGCGGTGGCAACTTC
TCCACCGCCGATCAGCTGGAGATGATGACCGAGTTACTTGGAGGAGACATGGTGAACCAGAGCTTCATCTGCGATCCTGACGACGAGACCTTCA
TCAAGAACATCATCATCCAGGACTGTATGTGGAGCGGTTTCTCAGCCGCTGCCAAGCTGGTCTCGGAGAAGCTGGCCTCCTACCAGGCTGCGCG
CAAAGACAGCACCAGCCTGAGCCCCGCCCGCGGGCACAGCGTCTGCTCCACCTCCAGCCTGTACCTGCAGGACCTCACCGCCGCCGCGTCCGAG
TGCATTGACCCCTCAGTGGTCTTTCCCTACCCGCTCAACGACAGCAGCTCGCCCAAATCCTGTACCTCGTCCGATTCCACGGCCTTCTCTCCTT
CCTCGGACTCGCTGCTGTCCTCCGAGTCCTCCCCACGGGCCAGCCCTGAGCCCCTAGTGCTGCATGAGGAGACACCGCCCACCACCAGCAGCGA
CTCTGAAGAAGAGCAAGAAGATGAGGAAGAAATTGATGTGGTGTCTGTGGAGAAGAGGCAAACCCCTGCCAAGAGGTCGGGCTCATCT
CCATCCCGAGGCCACAGCAAACCTCCGCACAGCCCACTGGTCCTCAAGAGGTGCCACGTCTCCACTCACCAGCACAACTACGCCGCACCCCCCT
CCACAAGGAAGGACTATCCAGCTGCCAAGAGGGCCAAGTTGGACAGTGGCAGGGTCCTGAAGCAGATCAGCAACAACCGCAAGTGCTCCAGCCC
CAGGTCCTCAGACACGGAGGAAAACGACAAGAGGCGGACACACAACGTCTTGGAACGTCAGAGGAGGAACGAGCTGAAGCGCAGCTTTTTTGCC
CTGCGTGACCAGATCCCTGAATTGGAAAACAACGAAAAGGCCCCCAAGGTAGTGATCCTCAAAAAAGCCACCGCCTACATCCTGTCCATTCAAG
CAGACGAGCACAAGCTCACCTCTGAAAAGGACTTATTGAGGAAACGACGAGAACAGTTGAAACACAAACTCGAACAGCTTCGAAACTCTGGTGC
ATAA

HUMAN SEQUENCE - GENOMIC
ACTCCCACCACACCTATTCAACATAGTATTGGATTCCCTGGCCAGAACAATTAGGCATGAGAGAGAAACAACAGGCATCCAAACAAGAAGAGAG
AAGGTCAAATTATCCCTGTTTGCAGACAATATGATTCTGCATCTAGAAAACTCCATAGCCTCTGCCCCGAAACTCCTTGAGTTGATAATCAACT
TCAGCAAAGTTTCAGGATACAAGATCAATGTACAAAAATTAGTAGCACTCCTATACACTAACATCACCCAAGCCAAGAGGCAAATCAGGAACAC
AATCCCATTCACAATTGCCACAAAATAATAAAAAGCTTAGGAATACAGTTAACTAGCGAGGTGAAAGATCTCTACTATGAGAATTAAAAAACAC
TCTTCAAAGAAATCAGAGATGACCCAAACAATTGGAAGAACATTCCATGTTCATGGAAGGGAAGAATCAATATTGGTAAACTGGCCATACACCT
CAAAACAATTTACAGATTCAATTTTATTCCTATCAAACTACCAATGACATTCTACACAGAAATGGAAATAACTACTCAAAAATTCATATGGAGC
TAATAAAAGAGTCTAAATACACAAGGCAATCCTAGGCAAAAAGAGCAAAGCTGAAGGAATCACATTGACCAACTTCAAATTGTACTACAAGGAT
GTAGTAATCAAAACAGCATGGAACTGATACCAAAACAGACACATAGACCAATGGAACAAAATAGTGAGCACAGAAATAAAGCCACATACCTACA
ACCATTGGATCTTTGACAAATCTGACAGAAACAAGCAAGAGGGAAAAGACTCCCTATTAAATTAATGGTGCTGTGATTACTGGTTAGCCATATG
AAGAAAACTGAAACTAGACTTATGCCATATATAAAATCCATATGCCGGAAAGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGTGGAGGTTGC
AGTGAGCCGAGATCACACTACTGCACTGCAGCCTAGCGACAGAGTGAGACTCCGTTGCAAAAATAAATAAATAAATAAATAAATAAATAAATAA
ATAAATATCAACTCAAGGTGGATTAAAGACCAAAATGTAAAACTCTAAAACTATAAAAACCCTGGAAGATACCCTAGGAAATACCATTTTGGAC
ATAGGAGCTGACAACGATTTTTTGAAAAAAACACCAAAAGCAAAAGTTGACAAATAAGACCTAATTAAACTAAAGAACTTCTGCACAGCAAAAG
AAACTATCAACAGAGTAAATAGGCAACCTGCAGAATGGAGGAAAATATTGACAAACTATATATGTGACAAAGGCCTAATATACAAAATCTACGA
GGAACTTAAACATACAAGGAAAAATCAAACAACCCACCTCACTAAAAAGTGGGAAAAGGACATAAACCGACACGTTTCAAAAGAAGACATACAA
GCATATACATACAAGCCAACAAGCATATGAAAAAATGCTCATCATGACTAATCATTAGAGAAATGCAAATCAAAGCAGCAATAAGATACCATCT
CACACTAGTCAGAATAGCTATTATTAAAAAGTTAAAAAATCACAGATGCTGGTGAGGTTGTGGACAAAAGGGAACGCTTATACACTGCTGGTGG
GAGTGTAAATTAGTTCAACCATTGTGGAAAGCAGTGTGGTGATTCCTCAAGTAATTAAAAACAGAACTACCATTTGACCCAGCAATCCCACTAC
TGGATATAAACCCAAATAAATATAAATCTTTCCACCACGAAAACACATGCAAGCATGTGTTCATTGTAGCTCTATTCACAATAGCAAAGGCATG
AAATCAGCCTAAATGCTCAACTACTGCAGACTGGATAAAGAAAATGTGGTACATACACACGATGCAATACTAAGCATCCATTAAAAAAAAAAAA
GAAATCATGTCCTTTTCAGGAACATGAATGGAATCAGAGGCCATTATCCTTAGCAAACTACCACAGGAACAGAAAACCAAACCTATGTTTTCAC
TTATAATTGGGAGCTAAATAATGATAACCCATGGGCAGAAAGAGGCCTCACACTGTGAGGCCTGCGTGAAGGAGGAGGATGGGAGGAGAAAGAA
GTCCAGGGGAAAAAAACTTCGGGTACTGTGCTTAGTACCCAGACAGCAAAATAATCTGTACACATTGATGGGACGTATCTCAAAATAATAAGAG
CTATCTATGACAAACACACAGCCAATATCATACTGAATGGGCAAAAACTGGAAGCATTCCCTTTGAAAACTGGCACAAGACAAGGATGCCTTCT
CTCACCACTCCTATTCAACATAGTGTTGGAAGTTCTGGCCAGGGCAATCAGGCAGGAGAAAGAAATAAAGGGTATTCAATTAGGAAAAGAGGAA
GTCAAATTGTCCTTGTTTGCAGATGACATGATTGTATATTTAGAAAACCCCATCGTCTCAGCCCCAAATATCCTTAAGCTGATAAGCAACTTCA
GCAAAGTCTCAGGATACAAAATCAATGTGCAAAAATCGCAAGCATTCTTATACAACAATAACAGACAGAGAGCCAAATCCTGAGTGAACTCCCA
TTCACAATTGCTTCAAAGAGAATAAAATACCTAGGAATCCAACTTACAAGGGATGTGAAGGACCTCTTCAAGGAGAACTACAAAACACTGTTCA
ATGAAATAAAAGAGGACACAAACAAATGGAAGAACATTCCATGCTCGTGAATAGGAAGAATCAATATCGTGAAAACGGCCATATTGCCCAAGGT
AATTTATAGATTCAATGCCATCCCCATCAAGCTACCAATGACTTTCTTCACAGAATTGGAAATAACTACTTTAAAGTTCATATGGAACCAAAAG
AGAGCCCGCATTGCCAAGTCAATCCTAAGCCAAAAGAACAAAGCTGGAGGCATCACGCTACCTGACTTCAAACTATACTACAAGGCTACAGTAA
CCAAAACAGCATGGTACTGGTACCAAAACAGAGATATAGACCAAAGGAAGAGAACAGAGCCCTCAGAAATAATGCTGCATATCTACAACCATCT
TACCTTTGACAAACCTGACAAAACCAAGAAATGGGGAAAGGATTCCCTATTTAATAAATGGTGTTGGAAAACTGGCTAGCCATATGTACAAAGC
TGAAACTGGGTCCCTTCCTTACACCTTATACAAAAATTAATTCAAGATGGATTAAAGACTTAAATGTTAGACCTGAAACCATAAAAACCCTAGA
AGAAAACCTAGGCAATACCACTCAGGACATAGGCATGAGCAAGGACTTCATGTCAAAAACACCAAAAGCAATGGCGACAAAAGCCAAAATTGAC
AAATGGGATCTAATTAAACTAAAGAGCTTCTGCACAGCAAAAGAAACTACCATCAGAGTGAACAGGCAACCTAAAGAATGGGAGAAAATTTTTG
CAATCTACTCATCTGACAAAGGGCTAATATCCAGAATCTACAATGAACTCAAACAAATTTACAAGAAAAAACAAACAACCCCATCAAAAAGTG
GGTGAAGGATATGAACAGACACTTCTCAGAAGAAGATATTTATGCAGCCAAAAGACACATGAAAAAATGCTCATCATCACTGGCCATCAGAGAA
ATGCAAATCAAAACCACAATGAGATACCATTTCACACCAGTTAGAATGGTGATCATTAAAATGTCAGGAAACAACAGGTGCTGGAGAGGATGTG
GAGAAACAGGAACACTTTTACGCTGTTGGTGGGACTGCAAACAAGTTCAACCATTGTGGAAGTCAGTGTGGCGATTCCTCAGGGATCTAGAACT
AGAAATACCATTTGACCCAGCCATCCCATTACTGGGTATATACCCAAAAGATTGTAAGTCATGCTGCTATAAAGACATGTGCGCACGTATGTTT
ATTGCGGCACTATTCACAATAGCAAAGACTTGGAACCAACTGAAATGTCCATCAATGATAGACTGGATTAAGAAAATGTGGCACATATACACCA
TGGAATACTATGCAGCCATAAAAAATGATGACTTCATGTCCTTTGTAGGGACATGGATGAAGCTGGAAACCATCATTCTCAGCACACTATCTCA
AGGACAAAAAACCATACACCACATGTTCTCACTCATAGGTGAGAATTAAACAATGAGAACAGATGGACACAGGAAGGGAAACATCACACACCGG

GGCCTGTTGTGGGGTAGGGGGAGGGGGGATGGATAGGATTAGGAGATATATCTAATATTAAATGACGAATTAATGAGTGCGGCACACCAACATG
GCACATGTATACATATGTAACAAACCTGCACATTGTGCACATATACCCTAAAACTTAAAGTATAATAAAAAAAATCTGTACACTAAAACTCCAA
GTCATGAGTTTACCCATATAAAAAACCTGAACCTAAAATAAAAGTTAAAATATTCAAATATAAATAAGTAAATAAATAAAATGACAAACCCATG
GCTAACATCATGTTGAATAAGGAAAAGTTGAATGCTTTTTTTTCTAAAATCCAGGAGAAGACAAGGATGTCCATTCTCTCTTCTACTCAACATG
GTACTGGGAGTCTTAGGTAGAACAATTACACAAGAGAATGAAATAAAGGTCATTCAAATTGGACAGGAGGAAGTCCTTTTCTGCAGTAACATGA
TCTTATAGGTATAAAACCCTATAGACTCAACCAAAGAAAAATAACTGGTAGTATTGATAAATGAATTCAGTAAAACTTCAAGTTACAAATTTAA
TGTACAATAATTAGTAGTGTTTCTACACAGCAACAGCAAACTATCTGAAAAAGAAATCAAGAAATCTATCTCTTTTTACAATAGCTACAAAAATT
TCAAAAAATTTCAAAAAATACCTAGAAATAAATTTAACCAAGGAGGTGAAAGATCTCTACAGTAAAAAATAATAAAATATGGATGAAAGAAATT
GAAGAGGATACTAATAAATGTAAAGTTAACCCATGCTCATAGATTTGTAGAGTTAATGTTGTTAAAATGTCCATACTACCCAAACCAATGTACA
GATACAATGCAATCTCTATCAAAATACTAAGGACTTTCCTCACAGAAGTAAAATATATATATTTTTTAATATATAAAATGTATATATAAATATA
ATATATAATATGAATATTATATATGATTATAATATTATATGATTATATACTATTAATATTATTAATAATATATTATTATATATATTATATAT
ATTATTATATATTGTATATAAATATATATTATATACTATATTATTATATATTGTATATAAATATATATTATATATACTATATATTTATATACTA
TATATATAGTGTATATATATATTTATATAGTATATATAATATATACACTATATATTTATATAGTATGTATATATATATACTATATATAATACAT
AAAATATATATACATATATAGTATATATATGAAATATATATATACTAAATTTGCACAGAACCACATGATTCCAAACAGCCAAAGCAATCTGGAG
CACAAAGAACAAAGCTAGATGCATTACACTACCTGGCTTTTAAATTTTCTACAAAGCAATAGTAAACAAAATAGCATAGTACTAACATGAAAAC
AGATCCATAGACTGATGGAGGAGAATAGAGACCCCAAAAATGAATCCATACAATTATAGCCAACTAGTTTTTGACATATGTACCAAGAAAACAC
ATTGGGGAATGGAAAGTCTCTGCAATAAATGGTGCTGGATAAACTGAATATCCACAAGCAGAAGAAAGAAACTAGGTGCTTCTCTCTCCCAACA
TATAAAAATCAACTCAAAATGGATTAAAGACTTGAATATATAAACATGAAACTAAGAAGATCCTTGAAGAAAACACAGGGGAAACAATTCATGAT
ATTGGTCTGGGAAAGAATTTTTCAAATAAGACCTCAAAAGCACAAACAACCAAAGCTAAAATAGATGAATGGGATAATATCAAGCCAAAAAGCT
TTTACATCTTAAAGGAAACAACAGAATGAAGAAATGACCTACAGAATGAAGAAATATTCACATACTATGCATCTGACAAGAGGTTAATATGAAA
CTATGTAATCAATGCAAGCAACTCAATAGGAAACACACAAATAATCCAATCAAAACTTGGGCAAAGGATTCGAATAGATATTTCTTTAAAAGGAG
TCACACAAATGGGCAGCAAGTATATGAAAAAAGGCTCAACATCACTAAGAACCAGGGAAATGCAAATCAACACCACAGTGAGCTATCCACTCAT
CCCAGTTAGAATAGTTATTATTTAAAAAAATAAAATAAAAAGACAAGAAAATGGCCAGTCATGGTGGCTCATGCCTGTAATCCCAGCATTTTGG
AGGCCAAGGAGGGCAGATCACTTAATGCCAGGAGTTCAAGAACAGCCTGGCCAACGTGACGAAACCCCATCTCTACTAAAAATACAAAAATTA
GCTGGGCATGGTGGCACATGCCTGTGGTCCCAGCTACTCAGGAGGCTGAGGCACGAGAATTGCTTGAACTGGGGAGGCAGAGGTTGCAGTGAGC
TGAGTTCGCACCACTGCACTCCAGCCTGGGTGCCAGAGCAAGGATCTGCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGACAAGAAATAACAT
ATGCTGGTAAGGATGTGGAGAAAAGTGAACTGTTATACAATGCTATACACTTGGTGTACTACTATATTATCCAGCAATCCCACTGCTGGATCCC
CCTCCCCCCCCAAAAATGAAATCAACATATCAAAGAGTTCAGATCCCCATGTTTATTGCAACACTATTTGCAATAGCCAAAATATGGAATCAACT
TAAGTGCTCATCAACAGATGAAACAGGAATGAAAATATGGTATATATACACAATGGAATGCTATTCAATCTTTAAAAAGAATGAAACCCTCAA
AAAGTGGGTGAAGGACATGAACAGACACTTCTCAAAAGAAGACATTTATGCAGCCAAAAAACACATGAAAAAATGCTCACCATCACTGGCCATC
AGAGAAATGCAAATCAAAACCACAATGAGATACCATCTCACACCAGTTAGAATGGCAATCATTAAAAAGTCAGGAAACAACAGGTGCTGGAGAG
GATGTGGAGAAATAGGAACACTTTTACACTGTTGGAGGGACTGTAAACTAGTTCAACCATTGTGGAAGTCAGTGTGGCGATTCCTCAGGGATCT
AGAACTAGAAATACCATTTGACACAGCCATCCCATTACTGGGTATATACCCAAAGGACTATAAATCATGCTGCTATAAAGACACATGCACACGT
ATGTTTATTGCGGCACTATTCACAATAGCAAAGACTTGGAACCAACCCAAATGTCCAACAATGATAGACCGGATTAAGAAAATGTGACACATAT
ACACCATGGAGTACTATGCAGCCATAAAAAATGATGAGTTCATGTCTTTGGAGGGACATGGATGAAATTGGAAGTCATCATTCTCAGTAAACTA
TCGCAAGAACAAAAAACCAAACACCACATGTTCTCACTCATAGGTGGGAATTGAACAATGAGAACACATGGACACAGGAAGGAGAACATCACAC
TCTGGGGACTGTTGTGGGGTGGGGGGAGGGGGGAGGGATAGCTTTAGGAGATATACCTAATGCTAAATGACAAGTTAATGGGTGCAGCACACCA
GCATGGCACATGTATACATATGTAACTAACCTGCACATTGTGCACATGTACCCTAAAACTAAAAGTATAATAATAATAATAAAAAGTAAAAAT
GATTAAGGACTATAATAGGATAAGAACTCTAGGAAGATGATAAAGTATGCCCAAAAGAAAGCAATGCTATAATAAAAACAAAATAAAACAAAAC
AACAACAACAAAAAGAATGAAACCCTGTCATTTGCAACAATGTGGACAAACCTAGAGGACTTTATGTTAAGTGAAATAAACCAAGCACAGAACG
AGAACTACCACATGATCTCAGGCATATGTGGCATCTAAAAAAGTTGACCTCAAAGAGAGTTTAGTAGTGGCTATCGGAAACTGAGGAGAGTAGT
TGCGAGGGGGAGGGGAACAGGTTGCTCAACAGCTACAAAGTTACACTTATATAGGACAAATAATTTCTGATAATCGACTGCACAGTAGGTTGAG
TGTAGTCAACAATAATGTATTGTGTACTTTAAAATAGTTAGACGAGAGGATTTTGGACGTTCTCACCACCAAGAAATGACAAATGTTTCAGGTG
ATAGACATATGCTAATTATGCTGATTTGATCATTACACAATATATATGTATCAAAACATCACACTGTATCCCATTAATATGTACAATTATACAT
CAATTTAAAACAAAATAAAATGTATTTTATAAAAATTTTAAAACTTCAACCAGCAAGTTTGAATCTCCTATTCCCAGTTTTGGTCAGCCCTACA
GTGTATACCAACCAGGCTGGCCTGGGGCTGCTGTTAGAGGAAAGAAAGAAACATCTGGACTTGGAATGAACAGATCTGGAAGGAATCCTAAATT
TTCCAATAAAGTCTCTGTATTCCTTTCATCCTGGTCCCTACCCAGGAAGCAGTCTAGAGGAGATGATCCTTTTCTAAGAACAGCAACATTCAGT
AAACAAACTTCCTTACTAATGTGTGTGGATCAAGAGATGGTGAGGAAAGTAGAGTCAGTGATATTTTTGAATCAATTATGAGAAGGCCACCATG
CTATTGCTCAGTAATATTAGATGCCCATGGACAGTAAGATTCATCGATGGTCCGTCTTTATTATTAGGTCATTACTGAGTGGCTTTTGCAATAA
AATACACCATTGGCAGAATAAAAATATTCTCTAATGCAAAAACATAGCATGGATTGTTTTTAAGGGGCACAATAGTGTGCTTGATCAGACTGGA
ATAGCAACATTGTAATCTGAAAAAAGCTCAACAGTGGTGAGGCATATTCAAAAGCCCCAAGAGGAGAGTCAACAGTCAGATCCATCAGAGTTGA
GAGGTTGCCACAACTTATGTAATGACGTCTCCACGCCATGAAACACATGTGTCAGCTTTTGTCAGGAGTTCACAGATCTGGCATGCAGCAGGAGA
TTCTGCATTAGATATATAAAGTCAGGCCCAATCATCCCCTTGATTAGTTAGTCTCATCAGAGAATGAGCCCTTGCCATGGGTCTGTATATGAGG
AATCCAGGCAGTTCAGTAAGTAGTCAAGATTTGTTTCCACATGCGGTCCCAAAGAAGTCTTTAATCTGACAGACTAGTTTTCCAAGTGGCATAC
CAAAAGGCTGGACCATTGGTAGTGTCCCAAGAATTGGGTTCTGACCATTGAGCAGAGAAACCAAGTCCTCTTTTTATTTCTGCATAGCTGGTTC
AGAGGCTGAACAGACACAGGAGCCAGTGAACACCATCAGTTTTCAGCTTAGCCAATCCTTCACTGAGGCAAGCCCAGATATTTGGGGAAACCTC
TGTAAACAGGGTCCAATTGAACTAGTAGTGTTGTTTCAAGCAGGAGAATAAAAGGTTAAGTTTCCCCCAGAGAGACAGTTGCCACTCTTACATA
TAAAGCAGAGATGCAGAAGAAATTCGAGTTGATGCCATCGCCCACCCACCAACCCACCCCCGCATTTCCGCCCTGAGACTAGGATCCCAGCGCC
AGGGACCCAGACCCTGGGATTGATCGCACAGAGCCGTGATCCGGAGAGTGCGCCGGGGATGAGACGGAATCTCGGGGCCACTCGAGAGCTTGGG
GCAGGAACCATGCATCCATTGTCCATCGTGACTGCATGTGGAGCAGCTATTTGGCCTGGGAACAGCTGTAGAGAGCGGGGAGCGACTGGCTCGC
CACTGGCGCGCCCTGGGGGAACCCGCCCAAGGTGCCCTCCTCCCCAGACTGCCCTCCCAGCCTCGAAGACGGCAATCCAGCGCCCACTGCTCCC
TGGACTCTGGGCAAGGCCAAGACTCAGGCCTGCTCCAGATTTGAGAACCCAAACAACTCAGAGGGTGAGGAAATTGACCTTGTGACAGCAAAGA
AAAGGCAGATTGGGTTTACAGAAGTCGATCACCATCATGGTTCGAGTAGACCGTCTGAACCCCTGCATGAAACACTTCCATACCTCCATCCACC
AGCAACAACACAACTGCGCTGCCCATATTTCTCCAGAAAGCTGCTCCCAAGAAGAGGCTCCAGAGAGAGGTCTCCAAGAAGAGGTTCTGGAGGG
AGATGCTCCAGGGGAAACGGAAGATGAGGAGGATGAGGGGATTGTGAGCCCCTCACCTATAGAAAGCAAGGCTGCCCAGTGCTGCCAGTTCTGA
CACTGAGGATGTGACCAAGAGGAAGGGCCACAGCTTCCTGCAGCACAAGAGGTGGAATGACCTGCGCGTTCTCAGTTCTTGGCCCTGAGGGACC
AGGTACCCACCTTGGCCAGCTGCTCTAAGGTCCCCACGGTAGTGATCCTAAGCAAGGCCTTGGGATACTTGCAAGACCTGGCGTGAACCGAGAA
AAAGATGTCTATGGAGAAAACGCAGCTCCAACGCCAGCAACAGCAATTGCAGAAATGAATTGCGTACCTCAGTGGCTACTAACTGACCAAAAAG
CCTGACTGTTCTATCTTACAAAGACACAAGTTTATTTTTTGACCTCCCCTTCCCCTTTAGTAATTTTCACATTTTGGTTATGACGGGACAGTCT
TTGCAGTAGGTCCCAGAATGCATTGCAGCCAGTACACACAGAATAAGGGCTTGCATTCTTGGAAACCTTGAAACCCAGCTCTTTCTCTCCCCTG
ACTCATGCTGTGTCTTCTCTGGCGCCTTTGGCTTCTCAGCAGATAGCTGACTGAGGAGATTTGGGGTCTGTTTACCTCACTAGCTCCGAAGAAA
AGGCTGACAGATACTATGCAACAGGTGGTGTATGTTGTCGGGGACTCCAGCCTGCATGAAATCTCACACTCCGCGTGAGCCTTAGACTAGGAAA
GAATGCTCCCTGGTATCTCTGGGGTGATGCTAGAATGCTCCCTGGTATGTCTGGGGTCATGCAAGGACAGCTGGGCCTGGACAGCACTCTCGCT

GTGGCTTTTTTTTCCAGGAGACACACAAGCTGTCTTGGGTGATGACAAGCTTGAAGATTTGATCAACATGACCATTGCTTCACTGTCAGACACT
TTACAGTATCTGAGGAGTTGGAAACCTTTAACGTATATATTGTGATATTAGCTGACACCTCTCCTTCCAGTTTCAATGCTGAGACCCTGAGAAC
ATTTAAAGAGCTTGCACTCTAGGTTCGTTGTCTCAGAGCTCTCTGGGCCTTCTCTGATGAAGGGACCTTTCTGTCCTCATGAGAGACTTTTGTT
TCATTTTGCCTTTGTTGTGCAATGGGCTTTACAGCATCCTTTCCCACAGGTTAGAAATGTTTCCCCAAGTTACAGGGAAGTGGGGATCCTAGCC
TGGGGCCTGAGGAAATCTTGGAGTCCTGGCTCCTGAACTTGTTCCCTGTCCGAGTGGCACTTGAGGCCACCCATCTTATAATCTCTTCTCAAGG
CAGATGTAAGTCACCTCAGAAGGGAGAACTGTACCGCTTCCTCTTTTCCATGAAGCTCTCATCTCAATCTTTGACTGATGAGTGTGAAATTCTA
CCGGAACCATGCAAACACGTCCACCTTGGGCATCTCCAAGGAACTTGTGGGGTCTGCAGCATACTTGGCTCCCTACCAGCCTGCCATGAGTCAT
ATTTCTTTTCCAGAAGGTGGACTTGCTTCCTGGTATGTTTTAAAGGAGCCTGCAGGAGCTCTGCTTAGCCAATCATGATGGATTTTTGCCCCAG
CTGGACTCTGCATGTCCAAGGAGAATCCAGGTACAGCCTCCATTCCGGGAAAGACATCCAGCCCAGCAGTTGTCATGTGGGTAACCTCAGGAAC
CCCTAACCCTGTCCTGGAAAAAGGACAAGCCCCTCCAGAACTCTGCCCAAAATAGCAGGTGCTTGATGGTTCTGAATTTGGAAAGGGATGGGGG
GTGATAAGTACTATCTGTGGCTCTGGAAAACCAGCTGCTACATTCAAATCTATTTTCCATAATGGTTTCTTTTCTGAGGTTGCTTCGTGGCCTCA
GAGAATCCCAGAGGATGTTTTGAAATAGCCTCTCTACCCTTCAGGAGCATGGTAGTTTACAGGAACCAACTGACTTCTGGAACTGTCTATGGAG
GGAGAACAGGCCAGGTGTAGGTTACTAATGTCCTACATGAATAGCTTGGTTTTATAAGCTGCTGTTGGGTATTATGTTGGGGCAGTCTTTTTAA
TATATTGTATTTTTGTACGCATTTTGCAAAGTGGAGTTAACTGTTTTTGTAAAAGAAAAAAAAGAAACCCTTGGGTGCTTCTTCTGTTTCAAGGG
TCTGATTTATTTGGAAAGGCAAGTTTATCTGAAATTTTGTATTATTGATTGCCCAATTTTAAAATGTTGCCTTCTGGGACATCTTGACAAAAAA
TATTTCTCAAACATGAAGAAAATAAATATAATAAAAAAGAAATGTCTGTGGGATCAGATGACTGTTCTTGATTTTACCGTTTCCATTTCATAAG
CCAAGCTTATTGACCCCTTCCTACCTGCTAGTCATTGAGTCTGAGTTGACCAACTCAAAGATGGAAATATCGAGCCAGATGGTAACAAATTCTC
CATGAATCGATTGTTCAGTTTTGACAGAATCCCAATTGCAAGCCATTAGCTGCTTTTCAAAAGGGATGTACCCTGTAGCCATATTAGGGAGGCA
ACAAGTCCAGTTCCCCAAGGGATCTCTCTGGGTGTTGACTGCTTCCCCTTGCCAGGTGCCCCCATCGGCAAAATCATCAGTTACACAGATTTGT
CCTGTATGTAATATTCAAGGAGTTGATTGAGGTTCTGAGCCTCTTTTTCGGTGGCAGGTTGTATGAAGAGACGTCAATTTTTTCCTGTTAGAGG
GATCTAATGTTGTGAATTTGCCTGCTTAGTCCCAAGAGATTACTTGGCAAGCAGGCCCCTGTATTTGGGAGCATAAATCAGCCACCCTTGCTGA
CAGATATGTAATAACACTGCATTGAGGACCCTTGAGACTGAGACTTCTAGCCGGCCAGCTGACACAATTATTATGTATATAGTGAAAATATTGA
ACATTAGAAGGTAGAGACACTAATGCTAAATCCTGAGCCAACCACTGCTGACAAATCTCATTGGAGTTTGTTCCACTAACACTTCCCTCTACCT
CTGTCTCTCTGTGATGGGGATGACTTTATATGAGACCTGTAGAATGAGAAATTACAAGCATATGACCCATCAAATCCTGCCATTTATAAGTAGA
AGCAACAAGAACAGTTTATTCAACTTTCCCAAAGGCGTCCCTGTACAAAGTCATATTGGCTTCCAAACCCCACTGTGAACCATGCCCAAACCCC
AACAATTGCTTTTCTGGACTTTTTTCCCTTAAATGAACTCAGACCTAGAGTTCACTACAGGAATTTCAGGGGTTACAGCAAGAGCTGTTAGGGG
ATTTCCCTATGTCCAGGCCAGAATGTAGGGATTGCAGGGGAGTCTTGGGATGAGGCGAGGGGTGGGGACTGTAAGCCTTTTTTGTAATCCCTCT
GGCTCTTTGCCCCAGCTTGTATGCTAAATCCTCTCCTGTGTACCTCCATTTGTGCAGAACTGTAAGGGCTCAGGGATTCTTCCATTCTGTCCCT
TGATTTCCCCAGCAGCTCTGCTCCACAGTCTTGGTGCTTTCATCTACCTCATACCTATTACCCCTTCCCTCCACTCCCCAGAAAATCAGATAAG
ATAGTGTCATGGGAGATTATATGTAACAGTTCTGTGAACATGTGAGTCCGTCCCTTTCCTGAAGTACCCTACCATGCATATGCCTTTTAGTCTG
TCTTGAGGACAGAGAGACTTCTGGCTCACCACTAATCATCTTTCTTCTTATAGCACCTGAAGTGAGAAAAGGAAGAGAACCAGGAGTTAGGAAA
TGCAGAGAGAGAGAGAGAAAAGACTCTGTCTATACTAGTAAGCAAGGCATGTTTGCATTTGGTTTCCAGTAGCCAGCAGTGTGGTTCAACCAAA
CAAACTTCAGATGGTTTTTTTTCCACTGAAAACTCTATATCTTCACTGCTGACGCCACTTATTCAGGTTTGGCAAGTCATTGACTCAGCACCAT
GACATCATCCCTTCTTCCTCCCATGCAGAGGAGAGTGAACAACAACCAAACCATGATTCAAACAGCTTGGTTTAATTCTGCATCCTGCCCCTCA
GCTTCATTAATAGGTAGGAGAGTGAGTGGGAAGGGCCTTTAATGCACTTAGTGCCAATCCATTCGGGAAAAAGCATTTGCTCTCCAATCCCGA
GGAGTCTTCTCATATCCCCTAACCAGGCCAGTGAAGCACCCTTGTTTTATCACTTTCCAGAATGCTATGTTTCATCTTCATTACCAAAATTGGC
AAGAAATGTGAAGAGTTTGAGACTGTACCCTACTTGCAAGCTCACAAACTAGCATACCTCAGTTTCACAGATGTTGGCAGAATATATGAGATTC
TTGGGTCAGAGTTTGTTTTGGTTCATGTTTGCATTAATTCCCCTTGCCCTCTGCCCCAAATCACACAGGAGAAATGAGGAGCAGCCAGTCAAAT
GTTGACATACAAGTATTCTTCAAACTATAGTTAGAGACAAAAGCTGTTACAATAAATGTAGAAAGGCCATGGACAATTATCTCAACAATATCTG
ACCATTGTTTCTCCACATATCTTGGCTTCTGACAAAGTTTGCCATTAAGTATGTGTGTTGATTTTCTGGATATCAGGGCTGAGCAAGGAAAAAGT
CATGACCATTAGATGGCAGTAGCACACAACATGCTTTATTTGGTTGGCCCTTTGAAAGGTTTCAGGAGAGTGGAACTTCCCTCACAGCAGGAGA
CCTTCCAGAGGCAGCAGCAAGAGGCCACCACCCAGAAGAGGAAGAGTTCAAGGCAACTTCCAAAGGAGAGAAGAATTGGACAGGAGGCTCATGT
GTCTATGGGATGTTACTCAGCAGCCAGGTGTGGAGTCTCTGTGTCAGAGAGTTCCCATGGGCATCAGAGGCTTGGGGCTTTTGTCCAGCCCCAG
AGTATGTCCTATCTACGGCTAGCAGATGGTGTGTCTGGTTTTACAGAGGGTGCAATGTGGGTGGGTTCTAAAGGGCCAAAAATGTGCTTACTGG
GGGCCATATTTAAAGCAATTGGGTGTGTAAACATTGATTTTAGTTCCAATGAGCTTTGAGCTAATGGTCTTAGCTGTCTCTGAATATAGGGAA
CAAGATACAAGGCACCATCTAAAGATATTAATCCACTTATTTAACAGTCCATGCCTTGGCCCCATGTTGTTTTACAATCTAAGTTGTATGCTAT
TTCATGGAGTCTCAGTTGGGAGCCAGCGATGAAGCATCCTCAAGACCCAGAATGCTATAAGGCTACAAATTAGGATTTTAAAAGCCAGTTCTCA
GCCAATCTGCCCACTTGGGCAGCCAGTAGAATAAATTTGAAAGGAGACAATTTTGTTTTGACCAGTCCGTTTAGTCAATAGAGTGGCATTTATA
TCCCCTTTGGTACATGACCCCAGCTATCTGTAAAACTTGGTGTTATCTACGCACATGCAGGAAGATAATTTTAGCAAGCACACAGCCCCTGTGC
CCTGTGACCCCTCCAGCAGCCTGACCTAGGGCTATGCAGTTATCTCACACCATGGCCACTAAAGTACAGTGAGATTCAGCAAAGAGTTTCAGTC
CTTGGGCTGTTTATCTAATTTCTGTGGGTAATTCCTGCAACATGGCTATGTGTTTCTCTTAATTGTGGTGTGCTGTTCCACACATATGCTGTTC
CTACTGCCTCCAAAATTAGTGATCCTAGGGAAGTTAGTACCATGAGGAACTATTTGGAAAGCTCATTTGTGACATTGGGGAGTCACATCTAGTG
TGGTTTGGTGGCGGAAAGTACTTGAGGGAGGGGGTTCCACTGTTGAATAAAATTCTACTGGAATTTTGCACCAATCCCAAGTGCAGGAAATATT
CTTCAGGGTTGGATGAGGAGAAGATTGTGATAGGGAAGCCATCTGATTCCTTTACAGGACCTCCAGGCTCCCTCTGCTGCCTGTATTCTCTGTG
TTCCACTGAAGGGAAGTTCACATGGCTTTGTGAAGTTCCAGAAGTTCCAGGTTGTGTTAATAGGAGCAGAAAATGGTATAGTCAAACAAGCTTG
TGTTATCCACCTTGCATTCAGCACCTGGGTTAACTAAATTTGTCGTGGGCTCAGCCCACCATTGTCTATACATTTATGTGAGATAAGCCTCTGG
ATAAGGTTGTTGAATGTCAATGGTTAGGGGAATCGGCTCATCTAAATAAGTGAGGTATATGATGCAGCGTTGCCAGGAAAGAAGTATTACACTA
TGTTTTCTAAAATCAGGTTGGCAGAAGCAAACCCTGCATTAGGTTAGATTTACCATCTTATATGTTGCTGTGGCTAAGGCTATAGGCACGTTTG
GTGTAGTCGGCAATTGCATGTTCCTCCTTGCTGTGACTGTTGTGTTGTCTTGAGTTTCCTGTTGATTGCCAATAATAAATAGCATTGATGT
GTTCCCATGAGTGTGGGATAGGTTTTGCAGGTGTTATTGGCAGTCCAAGAAGAACGTTGTTAGTCTAGCCACACCAAATTAGATTCTGAATT
ATGAGGCACTCGCATATGAGTGAACAAAACAGGTAAACCAAGTATTTTTTAAAAAAATAGATATCAGCTGGGCACAGTGGCTCATGCCTGAAAT
CCCAGCACTTTGGGAGGCCGAAGTGGGCAGATCACGAGGTCAGGAGTTCCAGACCAGCCTGGCCAATATGGTGAAACCCCGTCTCTACTAAAAA
TACGAAAAAAAAAAAAAAGATTACCCGGGTGTGGTGGCATGCTCCTGTAGTCCCAGCTACTTGGGGGCTGAGGCAGGAGAATCACTTGAACCCAG
GAGGCAGAGGTTTCAGTGAGCCGAGATCACGTTACTGCACTCCAGCCTGGGCGACAGATCCAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAGA
TATCAATTGTATCAAGGCATAGGTCCCTTTTATGTTCCCTTGTATTGCAACATTATTGTGTTTCAGTGGGGGACCAAAAGCTTTATGGACTCCA
TTTTAGCGGAAACTTTCATAGGGAAGAGGTTTGTATACCTTTAATAACCTCAGGAGTGGCCCCTTGGGAGGTGGCAGTGTGACTACACCAATAA
ATTTCCTCCCAAGTACTCATGGACATAAAGTGTCTACTGAGACACTGGAGACTACTAGAGGGGGACGGGGGAGGGGAGCAAGGGTTGAAAACA
AACTGTTGGGTACTATGCTCAATACCTGGGTGATGGGATCATTTGTACCCCAAACCTCAGCATCATGCAATATACCCAGGTAACAAACCTGCAC
ATGTGCCCAATGAATCTAAAATAAAAGTTGAAAAAGAAATGACAAGGCATAAAAATGTTTTAATGAAGATGAAAACATTCCTCCCAAGTTAGTT
TCATTACATGTCTTCTCATTATCGTTTATGTCTTCTGTAGGTTTGGAGTGTGTATGGATTTTTAAGGAGCCCTCAGAAAAGTAACATTGGGCAA
CAACTGCCCTCAAATAGTTTCTAAGTTTTTAATAACTGTGGTTTTGGACAAATTTCACAATAGCTATAAGCAAATAGTTATCAATGTGGGTGGA
GAAACTCCCATGCAAACAGTAGTTAGATTTCTCCCTGAGATCAAATATGTTTCTTGTAAGAACTGTCTGTGCTGTGACACCACGAGCTATGAGT
TGTTCACTGTGGGTAGCCAGCATTGCAATTGCTGTAGAGTTCACTTCCATTGAGTGTTATGTAAAACTTGCAGTTAGTATATTAAGATTAGGTT

AGGGAAGAATTCCCAAGCTGGTTGTTTTGTGTGTGTGTGTGTGTGTGATTTTTTTTTTAAGAAATGTCTTGGCCCAGGTAATGTCATGTAGT
ATGCATTGCCTTAGAAGCCAATAATTGTAAAGGTATACACTGTGGGTGTCGATTGCACTTATTATAATTCCAGGGATAAGAAAAAGCTATCATT
TTATCTATGCAATCCCGTAATGGCTTGTGGGTATTGTATCTGGATTATAGTATTAATAACAACACCAATCACAAGCATCCTGGTTGTAATATTT
GGTGCATACTATCTCTGGGCATTCCTTAAACGAGGCTCAATAGATAGTGGCCCATTGCTCCATTTGTTTAATGGCACATGAGTTAATAATAGTG
GGTATCATCTGATGTGAAGGAAAAGGCGGCCCACAGAGCTTAGAAGGCATCTATGAGTCACAAGTGAAATTGTACAATCTGACTTAGCTGGAAG
GATGTTACTAAGTGGTAGTAGAGAGAGGAGGAGAAGTGCTAACCTCAGTGCTGATGTCTGTGGACTGACCCAGTGAAATGGGAGCATGGTTCCC
TTTGTTCCCAGTCTGACCTATGTTGGGTGTCCCTGTGGTGTGTATGAGGCATGCTGTTTCCATACATACTCTGCCAGCAGTAGGGTGTGGATTA
CCAGGGATAGGGTGATCCACCAATCGAGGTATAATTGACATTGGTGAAGGTAGGAACTTTCTCAGGTAAGGAAAGGGCAGAACAACAGCATAGG
CATAAATGTTGGAGGTCATTTGCAGCCAGCAGTAGGGAATCTGATTGTCCTCTGGGAGTCACCCAAATGGTGTTACCAGATACAAGGGTTGTTG
GTTCAATCTCCTGGGTGTCCGGAGCAGGTCAAGGTTTGTTCCATAGTGCCCTTAGTGGAGCAAAGTACATGGGCAGAAAATGAGGATGCTTCCC
TCTCCAGATAGTGGTGGGTGGTTTGCTAGTTTTATGCTGGGTAATGAGCAGACTAAGACTGAGAATGCACCCAGAGTGAGTGGTCCATGCCAGA
TCCTTGTCAGGATTGAGAGGGGAAAAAAATGGCCAGGCTCTGGATTTTCTATGAGGGAGAAGGAAGAGGTGAAAGAGCCAAGTTCCTTTGCTGT
GGGCAGTCACTTCAGGGCCCCCATGTTCGTGAATACTGGTAAATCATGTTGTGTCCAGTGGGTACATACATTACCAGAGGTTGCAGCATCTCTG
TTGGTGGTCTCCTCATTTGCTGTGAATTAAAATATGGTGCATTTATGCCAGAGAGGTATGGATTTAATGTAAGCATGACTATGGGCAGTATTTT
TGGCTACGGGGAATGCTATTGTCCTGCATGTTCTTTCAATATCCCTTGTTTTAAAAAGCCCATTGTGTCATTCTGTGACACCTGCTACTGTAGG
ACCAGAGAATAAATGAGAAATCCAAGCAGTGTTCTTTGGTAATGCCTATGGTTGAATCTTCTTTGCAGAGAAGTGAGAGTCTTGATCTGACTGG
ATAACTTTGTGTAACTTTTGTACTCCCAAAGGCCATACAAACTATTTTATCAGTTCCTCAATAACATTAGCAGAGCTTGGTGCCTTTCGTGGGT
AAGCCAAGAGTAAGCCTGTGTAGGAATTACTACATTGTTGTGGCATATGTAATAGTTCCTGCTGCTTCAGAGAGGGGCCCAATAAAATTGACTG
GATTTGCCAGCTCTGATATAGCCCTTCTCCTGTGCAGTAGGTCCAAGTCTCTAGATTTCTGGTCTATGGTACGGTCCCTAACAGCTTCATGTAA
ATGTCTCTCTGCTGGGTCTATTTCTCATTAACAGTTGATTTTCATGGTCTCATGATGCCCAAATGCCCTGACCTCTCCTTTATAGGGTGAAGGG
TAGCTCTTACCAAAGTTCTGCTGTCTCCCTTCTTTTCAAAAGGATTAACTACTTTGGTACTTTAGCTAGTTTGTCAGTTTCCAGGTTGTATTGT
TTGCTGTGAGCTGAGGTATGGTGTACAAAGATGTGCAGAGTGGAGGCCAATGTGCTGATATTTTCCCCCACATCTCCTTACCCCAAATGTGTCA
GCCTTGTATGTTCCAGCCCTGATTTTGTCCAAGTCCCAACCCAATAGCCTATTAGCCACTGACCAGGAGTTGCCAAAAATGTGAAACTTAGTAA
AATGTTTGTCGAAGGCCTTCTCTATTTCTAGGGGTGTTGCACACAGCCTGGCCCATTGGGCACTTTGGCCCATCCCCATATGGAAGTTGGAGTA
TTTGAATAAGGGTAGTAGGCTGTTGCTGTCCTTTATCTGACTCCCTTATACCCTGTGCTCACTCCATTGGTAAAGAAAACATTAATTTTCTTG
TTATGAAAGTGCTGGCCATACTCCCTCCATTCCCCAATGAGCAAGAGCCAGGGGCATTTCCAGGGGTTTTGGCAAGTTAACCTCACTGACAGAG
TATGTGGCCATTTCCTCACACAGTAGTGACACTCCAGGAGGGCCAGGTGTAGTTCAATCCTGTAGATACCATTTCATTTTAATAAAGAAGCTT
CTGTTGCTGATCCAATTTTATGGGCAGCTCTGTCCATTACCCAGGGCATAACAGGAATCTCGGTCCATAGGGTAATTTTCTCTGCCCCACCAGG
GCTTCAGTTTTGATAAGTGCCCCATATGCTGCCAGTGGGTGTCTGTCTAGTGAATACTTTAGGCTGAGGCTGAGAGCTACTTACACCAAAAGCC
CATGGGTAGGCATTTACCTGTCCATTTGGTCCAGAGGCTCCAGGAAGCAAATTTGGGAGCAGTGGAAACTTATAATTGCAAGTCTTGTCCTTGG
GAGCACTAGAGGGAGAGCCAAAGTATTAGCCTCCTTTAGCTCAACCAGTGACTGTAGATGTTCAGGTCCCTACTGAAAAAAGGAAGCTTTACAG
GTGTCTCGATAGACAATTCAGCAAGGGTCAGCAAATATTGGAGGTGAGGAAGGCATTGTGCTATAATTCCTAATGAATGTTGGGGGTTCTTTAC
TGATGTGAGCGGTTTAAGCATGAGGAGCTTGTCTTTTATCAGATTGGAAATAGTCTGAACACTATTTCTGTCCTGTCAAAGTGTAGAGATCTTA
TTCCTAGATTTAGACTGCCCTTAGGAATCGGCTCAGATAATGGGCCAGCGTTTGTGGCTGACTTGGTACAGAAAACAGCAAAGGTATTGAGGAT
CACATGGAAACTGCATGCTGCCTACCGACCGCAAAGTTCTGGAAAGGTGACCGAGTGTGGATCAAAGACTGAAACATAGCCCCTTTGCATGCAC
GGTGGGAAGGACCCCAGCCCATCATCCTGACCACTCTCACTGCTGTGAAGGTAGAAGGAATCCCGGCCTGGATCCACCTCAGCAGTGTAAAACC
TGCAGCGCCTGAAACTTAGGAGGCAAGACCGGATAACTCAGGCCGTGCTCCGCCTGTCAGATAGTAAATCCCAGGTGATGTACCTGCT
GTCAGCAGATCTAGGCTTTCTTCTTGGACACCTTATACCCACAGTCCTCCAGGTGCCAAAGTAGGGCATCCGTTCCCTTGGCAAACCCGACTGC
TGTGGGGTGTCCTAGCAGAAGGTCCTCGACGTACTGGAGCAACACGCACCCTGGGTCTCTGGCAGGAAACTTCTGGAAGTCCCGAACCAATGTT
TCCTCGAAGAGATGGTGGGGGAGTTCTTGAACCTTTGGGGAAGGCGGGTTCAACTGTACTGAGTGGTGACACCCGACCCCAGATCTTCCCACTG
AAAGGCAAACAGTTTCTGGCTCTCAGGGGCTAGTCTGATGCTAAAGAAAGAGTCTTTCAGGTCCAAGCAGGTGAACCAGCTGTCCTCAGCTGAC
AGCAACCCTAACAACATGTACAGTTAGGCACTGTTGGATGTAAACTCACTGTAGCTTGATTAACCAAGCACAAGTCCTGTACTGGCCTGTAGTC
CTTGGTCCTTGGCTTGGGAACAGGCAGGAGGAAAGTGTAGTATTCTGAGGTCTGAACAGGCAGGAGTGGAAAAACACCCTTCCGAGTTCCTAGT
GTAGCCTTCAAATTTTACAGACTTATACCTTACATGGTGTAATTGCCAATCCACTCTCAGTGAGAGGTGGTTTACTGAGGGTTGTGATCAACTG
TGAAACAGAGTCTTGGTCAGGTTCTGCGAGGAGGATGTCACCGATATAATGCCAAAGCATAGTTTCTGGTGAAATTGAGGGGCAGGTGTCTATG
TCCTGTTGGCAATGACTGTGCAATTGGAGGGCTATTAAGTATCCCCCAAAAAGCTAGCATCACAATGAAGATGAGGGGAAACAAATACCCCAAA
AGCAAGTGGGTAAAGGCGTACTATTGACTCTCAAAGGTGGAAGTGAAATGTGTTTGACTCAACTGTGAAATTTTTACTAAACAGAACATGTTAG
CCAAGTCTACAACTCCAGATTCAAATTCTGGTGGCTTTAGATGCCCTGGATTAATATAAACTTACCACTGATGTTTTGAATGACACCCATTAAG
GCAACAATGTCCTATACAGGTGCTCTAATAAAGGAAACAGCCCTGCTGAACTCTCTATGGTCTATAGTCTCCACTGATTAGTAGTGTCTCTTAG
GGCAGGCCATATGGGGAATTGATAGGTGAGGTAGTAGGAGTCAGTGTTCCTTGTTTATCTATGTCACCTGTGACAGGCCATAATCCTTCAGTGT
CCTGCTTCAGCTTCTGCTGTGGTATATGAACCACCTGAACCAGGAGGGGCAGGTTAACTGGTTCCCTCCGGGAAGTGCCCACCAGTAGCATAAA
AACCTTAGTCTTATGTCATGAGTTTATCTGCGGCCTCAGGAGGTCTCTTCCAATAATGGGGAAATGGATAATCTTGGAGGGGAGGCAAGCAGGA
CAGAAGCATATTTTTAGCAAAACTGAGCCAATTTTAATAGTTAAGAGGGGAATTATCCCTTTAATTAATCCCTTTAATTAACCCCCTTCCAAGC
AGGTAGCCTACTTGCCAGGAGGGGGTTCCTTTTAAAGCATGTGTGTGTGTTGGCATTAGGGAGATTTGGGCACCCCTGACTGACAGAGTTAGCC
AGTGTTGTTTGTCAGTGCCCAAGCCACAGTTAATATGGTGAAAGGGCAACTGTCTGTCAGAAGGGGCCTTCCGACACTGCAGGATCCCTGTGTG
AGAGAAGATTCTTAGCCATTTGGCAAGCATCAGAGACAGGTGTGGAAGATAAGGTTACCTCCAAAGGGAAAGCCAGCTGGGGTGGGAGGGGGTC
GTAATCTAACCCTAGTAAGTATTGCAATTGCTCCAAACATTCACCAGAGATCATCCAATTTGGGACCTTCTTGTGCCTTAGGGTCTAACATAAC
CTCTTTTCGTCATCTCGTGGTTGATGCATACATGGGATCCTGGCCACAGGTGGTTTGTTTGGCCCAGGAGGGGCAGCCTGAGTGGTGATAGTAA
CTTTGATTTAGGCCAGGTAGGGTATTATAGTGTTAGCAGGCAGCACCTGACTCTGAGTTTGTCTTTCATGAGTTTCTATTAAATCCAGTGCAGC
TATGGTCTCTTGAATTGTTTTAGCAGTAGCCACCATGCCCAGTAAAGAAGATTTTCCCAGGAGCCCCGCCCCCCGAGGAACAATTGAGTGGACT
CAGGACTCAATTCAGACTCCTCCAGTCTTGTCAAGTCATCCTGCCCCACCTCATTTGTTGCCTCCACTCCAACATGTCCAACTGGTGGAGGAGA
TGTTTGGCCTTGGCTAACCTTTTCCCTGGACAGTCTTCCCAGGCCATTATGAGGTCTAATGGTGGGCAGTCTTCTAATCCACAAAAATACACAT
CAGCAATAAAGATGTGAACAGAGGTCCAATGTGGCTTCTTCCCAAATTCTGCTCTAATTATACAGGTTCCTTTAGTGGGGACACAATTTTTCCA
TCATGTACTATCGCTCCTAATTGTTTAATTTCATTCCCCATTAGGTGGAATCAGTTCCCTGCCAGATGCATTCTGTAGAGCCAGGCAGCCCCTT
GTTTATTTGGTTCTTGGCCTGGGTACTTAAGGAGAGACTGGGGCTCGGGTAAGAGAGAGGATAGGACTCCTCCTCTGAGCAGGAACAGCACCTT
CCTTCTTGGCTCTCCCTTTTTTTCTTTTCCATTTTTATTACTTTCTGGGTGGCTACAGGCAAAGCAGAGGGTAAGTTTTCCCAGTCCCTACCGT
GGTGACACTGTGCTGCCTTTTCTTCTGGAGAGCACCTATTCTCCTCTCCAGGGACCTCTTGTCCAAACTGTCTCTCCCAAGAGTTTGGGCTCTT
ACCTCTTCTCCAGGTGGCATCCTGGTGATAAATTGCTGCCAGCAAGGTCAGCACATGCCTCATGGTTAGGAATCCTTCTTCGACCTGACAGCAA
CCTCCTGTAGGGTTCCGGGAGGGGTAGGAATATAAATTTCTTTGCCTTCAGTCACTTTAAGTACCACTCTAGCTAGCTCAGTCCAAAGGTTGAG
ATATTAATATCCCTCTGGAGAGGGGATAGCATGATGACAACTGCAACATCATAATTGAGTGTAACAACAGTAGAGGCATGCTACCTGCTTGCAA
AGGCCTTTCCACCAGCTGCCCTTAGGAGACCAGCCTTGGCCTGATGTCTCTGCCTTATTGGCTCATTTACTTGCCTATCTGTCTCCGGGGAGGA
GGAAATCCTCACATCTCAGACTACCCCAAATCCTCAACCCAGCCACAGGGAGCACTTCCCACCATAGCCTGTTATGCAGTCCAGGGTGGTTCAC
CCTTATTCCAGAGGCATGCACTCCCTCTCCTTTTCTATTCAGGTACACAGGTGCACAATGTCCAATGTCAACTGAGGGGGGGACCCAGGTAAGT

GGGCTGACCTCCTTCCCAAGTACCTTGGCATCTAAGACCCCAAAAGTCAGTTCTAGTGGTGTGGGTTCACTCAACTACTGGTGCTACCTCTGGG
CCAGGTCAATGAGGTATAGAAGGAGACTGCAAAAAGTATATTGTTGCGGTACAGCAATGAGCGATGCTAAGCAAAACTGCTACAGAGGCATTCT
AAATGTAGAGTCTGAGCACTTAAGGCTGCCTAGGACTGATTTTTCAATTGATTGTCCTACTGACTGGGTAGACGCTATGCCAATTTCTTGTTCA
CGAAAATCCCATCCTCCTCACCACTTGTGGTGAGTTCCAAGATTTCTGGGCTGATCAATGAAGAAGACATGACCACGAGGTGGCAGTAGCGCCC
AAAAACATTTTTTTTTTTTTTTGAGAAGGGAGAAGGAGTCTCACTCTGTTGTCCAAGCTGGAATACAGTGGCGCAACCTCTGCTCACTGCAACC
TCCGCCTCCCGGGCTCAAGTGATTCTCCAGCCTCAGCCTCCGAAGTAGCTGCGATTACAGGCTCCCGCCACAATGGCGGGCTAATTTTTGTATT
TTTTAGTAGAGACGAGGTTTCACCCTATTGGCCAGGCTGGTCTCAAACAGCTGACCTCAGGTGATCCACCCGCCTCGGCCTTCCAAAGTGCTGA
GATTACAGGTGTGAGCCACCGCGCCCAGCCAAGAAGCTTTTTATTTCGGCGGTGCTTTGACAGGTTGCCAGAAAGGGGAGGTCTCTCACATCAG
ACCTTCCAGAGGCAGCAGCAGAGGGCCACTGAGCAGAAGGGGAAGAAGGCAAGGTAACTCCTGGGGTAGAGGAGAATAGGAGAGGGCCTTATGT
GTCTGGGCGATATGACTCAGCAGCAGGAGAGGGAGTCTCTGGGTCAGAGGGTTCTGGAGGCAAGCAGTGGCATGGGGTCTTTTATAGCCCCTGT
GTTTTCTTTAAATGTGGCTAGCAGATGTCAGTGCAGTTTTGTGGGGCATGCAAGGCAGGCAAGCCCTAAGTGGCTACACATATGCTTACTTGAG
CTATATTTAAAGCAATTGCATATGTGAAAAATTCGAGTTTGGCGTTGGCAGGCTTTCTGCCTGCTGTGAGGAAGTATAATGGCAATATAAAGGC
TAATATATGGAGGTCATCTTTAACCCACTGATATAATAACATGCCACTTAGTCAGCCACTCTGATTAATCCGACTAGCATGGTCTGAGATAAAA
TCCATTCAATCTGTACTGTCAACAGTACTCTAAGCAGCAAGGTGAGATCAATCTGCAACGTTAACCCGAACTTAAAACGTTAAGCGCACACGTA
CAATACTACTGCTCCTGAGTTTTTATCTAAGAGAAATGAAAGCATAGGTCCACATAAAGACTTGTATGTGAATGTTTATAGCAGCTTCAATTGT
GCTAGTGAAAAACTGGAAACAATCCAAATTACCATACAATGAAATACTATACTATGACAAATAGTAATGAACTATTGATAGAAATAACAGCATG
GGTGAATCTGAAAATAACTACGCTGATTTTAAGAAGACAAAAAAGAGTATACAGTGTATAATTCTATTTATATAAAATTCTATAAAGCACAAAC
TAATCTATAGTGAGAGAAAGTAGATCAGTGGTTGCCTAGGGACAGGGATGGGATGGGGATGGGTAGGGAGGGAAGCAACATAAAGGGGCATGAG
AAAGCCTTAGGAGGTGATGAAAATGATCGTCATTTTGAATGTGGTAAGGGCTTATGATTATTGGTAAGGAGTTATGCTTATAAAATATAAATAA
TTTGTATTTTATAAATTATATAAATTACATATAATTTCATTTAGTTTTAAATTTAAGGAATGGCAATATGTCTTGCATCAAAGAACCCTCAAAA
CAACACCTTAAGTACTGCAAAGTCTTTGACGATGTATTTGCCAGTTAACTTATCTTTAAACATCAATAATAAATAAAAATGGTCAAGACTTATT
TGTTTCTATGTGTTTATTTTAGTGTGCTATTGCTTTTTCACATTCTGGGTCATATTTTCAAAGTATTATTTCACATTGTGTAAATGTATTTTTT
TTTCACTATTAGTAAAGAGCATCTCAAGTAAGGTCCTACTTTCTACTTTGATGGTATAGGAGCATGTTTGACTCAGATATGAACCACTTGTGGA
CAGAGTTATGGGTGAGAAATCTGATATTTAAGGAACACTCTGGATTAGTTTCCACTGGTGAGAAAATAAAAAAGTGATGAGCACTTTTCCAAA
TACCACGTGATGAATCAAGTACTCAAACATGCTAACTGCATTTAGACTATTCTATTACCAAAATATTCCAATCAATGCCTGTGGACAGTTTGTA
AACTGTCATTCCCAATGCCTCCTCATTCTTCAAGTTCCCACTGAAAGGTCTCATAGCTTATCAGACCTTTGGGGGAAGTGCTTTTTTTTTTTAA
TTAAAAGTTAAGTCATGTGCAGGGCAGAGTGAGGCAAAATGCAGCCAGTGGTTAGGACCTAAAGACCTCTCCTTCACCTGGGCCTTGAGAGTTT
GAGAGAAGCTCAGGAAGAAAAGCCAACCATCTGAGTCCAGTGGGCTTTGAAGCAGTGGTCTTGCATCTGTACATGTGGGATAAATGATGTGAAA
ACCATTAACTCTGCTGCTGATCCAGCTGCAGGGAAAAGCATTTCCTCTGATCAAGGTGAACATCTGGCTGGTGGACCTCATTTTGCACCAGGTC
CTGATCGATGAGCTGAGCCTGAGTCCACAGTTCACCTGATGGAGAACTCAGAGTCAAAGCCCAGGCCCAAGTGAGGCTGTCTGACTGCTGCTTG
AGGGCCTAGGGACCACACCCCTGGAGTCAGGAGGGCAGAGGTGAGGATGACAGTGGAATGGCCAGAAGGTAAAGATACATGTGAATATTCTATC
TCCATTAGGTCACATGGATGAAAGGCAAGAGAAAAGTAGCATATACATTTTTGAGAAGTTAAAGCTGATAGGACACAAAGATGGTTGATTGTTC
TACAGACGTGGAAGGCAGGGGCTTAGGTCCTGTAAAGTCCCCCACTGAGCAAATAACTGAGACAGTACTTCCTAGTGATGCATTCTGCTGTCAA
ACAGTGTGAAATTTTCCTGGAGAAGGCTCAGGCCATCAGTCCCTGGTCCATCTTCTGGCCCCACAGAGATGCTGATCGAACACCCTCCACAGGG
AGAGCATTGCACAAGTGATTCCCTTTTTAGAAATTCTTCTAAGCCAGTCAGAAGAAGACAAGCTTGCAGATTGGAAGGGAATCAGAACCTGGGCA
ATATCTTGTAGTGGCCGAGCTATCCCTGTGTGTGGTTTGGAGTGTTTTCACTAAGACAAAACAGTGGGAGAAAGAAAAACCCTACACCCATACA
AACTTTGAGGGAATACTGGAGCTTATTGTAACAGACACTGGTCATGCTATGAAATTTTATTACCTTTTCTGGAGGGGTCGCAGGGCTTTGTGTT
TGGGCTGCTTTCCGTGGTGCAGTAATTGTCAAGCTTGCCAAAAGTGTGACAGAATCACGGAATTACCCTTGGCAGAAACGCAGAATTACTCCTA
ACCTCTACTCTCATCCTCCACCTGGACCAGACAGAAACAACTTCTTGAGTTTTCAGAAACTACCAAATCTTGGCTCTAGCTCCGCATCCTTG
GCCAGAGCATGGAAGGTTGGGGTGAGGGACACGGTGAACAAAAACTGCATCCTCGAGCTGCTCGCACTTCCTCTTTCCCTCTTTGGTCTTGTGT
GTGGGGTCAGAGGTTACCAGGCAGGGGTCACTAAGGTTGTCAGTGGGAGGATGTGAGCCCTAGTGGGTTCCTCCCAGGCAGCTCAACATGGGAG
GCTCCCAATTCCCCTTTCTCCTGCAAGGAAAGATACCACAGCTGTGTCATTCTCCTTCAGAGACTGCAGATTGGAGGTCTGTTTTTCCACAAAA
CCTAGTTCTAAGACATTTCTAGCAAGTGAGAGTGACTGATTGGAAGTCTAGTGGTGACAGCTACCCATGGGGCAGGCTTAAATAGCGACTCCTC
CTTGTAGTGAACGAATTTCAGATTTCACACAAGAAGGGCAAAACCATGGGCTATTTTCTCCCATGAATTTTTGCCTATTTTGGGCCCTAAATCA
AATTGAGAAAAGTGTGACTAAAACACTCAAACTGCCAATATAGTTAGAGATATACACTTTGTGAGACTAACTCGGGAATCTACTGCCCTGCTTC
TGCAAGGATAAGGCTCTGTAAGGCATGACTTGAAATGAAATCCAAGCACCTTTTATCTGTTTAACTCTGGTGCAGGAGAACAGAGCAGCATTTA
AGGTATAAATTAAATTAGTCTATTCCTGAAGAGAACATTTGCTACTCACATTTATGGTGGAAGATGCAATCTCACAACACAACAAAGCTCTCCT
TGTGAGTGGAGCAGGCCAATACTGGGTAGGGCTAGACTATAGGGCTCACAGGCTCTATGCCCTAAGCTACTGATGCCCCTTTGTGCCAGAGGCT
GGGTTTTGCAACAAACTCAGTTCAGGTCTGGGAACACTGGGCCCACCGAGAATCCTAAATAGTCAACTAAAATCCCTGAAATACCCAGGCCTGT
TTCTTTAATCATTAGTATTGTTTGCATACCTTTAGGAGGTACAAGCGCAGTTTTGTTACATGGTTATATTACCCACTGGTGAAGTGTAGGCTTA
CCAAAGCAAAAACAGGGTGGTAGATAATCTCCCTTGTGCAATCAACAACTATAACCCTGGCAGGTAGGGTGCCTACTATTCATACTGACTACAG
AGAGCCTGGACTCCTCTAACCTGATAAAGGATATGAAGCCAGTTATCTATTTATTACCTCTTAGCTCCAAATTCACCAGTCAATATAATATTCTT
CGATAATAGAGGGATTCTTTAAGCATCTCTCCTTTAAAGTAGCATCAAAGAGCACGATGTTACACTTACTTAATAGAGGGCTCTGGAGGGACAG
ACATTGAAAAAGGAAGGGTACTTCTATGATTTCTGGCTCTCAGAGGTGTGGAGGTAAGGACATTCAGGATGCTTTGTCCCAGGCCTGGGCCCAG
AACAACTGTCCCTCAGTAAACCTGCAGTCCTGGTGTGCCCTGATGATCAGCTTCTTGTGGCCCTCTTGATAGGGACATCCTGTACTCCAAGTCA
TCTGCCCACTGCTTCCCTCTGCTCACTTGCTCCGCAGCCACACACACACACACACACACACACACACACACACACACACACACACACACACACA
GTCCTTTCAATACTGCAGCCCTCTCAACACCGAGCCCCCACCCTGATCCTGTGCAAGGGGCATTGTTTACTCCAGGCCTCCAACTGAGACAGGA
CTCCCAACCCCTACTTCACACCACATACTAGGCACCAGCTATGGCTTGTCCACACTACCATGCTCCAAAGGGTGCCTTCTTGCTTCCTCTGCGA
CCGTAGACCAGTTCTGCCTCTGTAGACCAGCTTAGGTACTGGCAAACCAGTGGAACTTCTCTGCCATCCAGTAGGTTCTTCTCCAATTAGGTAT
AAAATCCATCCTTGGGGAGAAGCTTTCATTCTAAGCTTGTCTTTCCTTGGGTACTCTCTCCCAGCCCCAGAAAACCCCACATAGAGTTGTCTTG
TATCCTATACAAGATCTTTTATCATCGCTTAATGATTCTTTATATTAAATTTTCCCCTTCTAGATCACTGTGTGCTTTCTATCTCCTGATTGGA
TCCATATTGCTGCAGAACACAACATCTACAGCAAGCATCATTCTTAATGGAGAATCACTGAAAGCTTTCTCTTCAAGAGCTACATCAAGTAAGG
ATATCCACTATCACCACTTCTATGCAATAGTTTACTGGGGGTAGGGGCGGGGTCCCAGGCAGAGCAGTAGGGCAAGAAAAGGAATAAGATATT
TGGAAAGGAAGAAGAAAGACTGGAACTATTTTCAGATGATATGACAGTGTATATAAAATTCTACAAAGTATTACAGACAAATTATTAGAATCGA
TAGAAGAGTTTATATGCTTATAGGATAAAATCTTAACGAACAAAAGCCAATTGTATGCTATTTAGAGCTATAAATTTAGACAATAAAAATTTCA
AACATATGATTTGCAAAATATTAAATGCCTAGGATAAAAAAGTTGCCTTGTGGGAAAAATATAAAATAATATTTGGGCAAATTAAAGGTGATCT
TATTAACAGAAGAGATAGACCATAACCACGAATCGAACATTCAATATTGAGAAGTCAAATCTAAAATATCAGCACAATTCAAATTAGAACCCCA
AACTAGCTGTTGGTTGAAGTTTTTACGATTAGTTTATAATTTAAATGGAATTGAAATGGACCAAAAGTAGCCAAGACACTTTTGAAGAGCAAGG
TAGAATTGATTTGCCTAATCCAAATATCAGAATTGACTATGGATCTGTAGTAATTAAGACAGTGTGGTATTTCAAACAGACAAGTGCTTAATAG
AGAGTATAGAACTAGCCCACATATGTGTAGATACTTGATTTATGGCACTGTAAATCAACTGGCAAAAGGCAGACTTTTCAATAAGTGGTTCACT
GAGAAAACTGGATATTCACTTACTTACATACATATATACATAAATGGAACTCTACTTAACACAATACACAAACATCAATTGCAGGTGGATTAAG
ACCTGACTATGAAGGACAATAGCAGACATATTTTAGAAGAAAATATAGAGAATGCTTTCATGGTCCAGGGTTCCTTAAAACAGAAAAGATTTCT
TAAAACAAAAAAGCACTAACCATCAGGAAAAGAATGATGAAATTGACTATATTATAATTAATAGCTTCTGTTCACAAACCGGAGCACAAAGCAA

GTGAATATACAAACAGAGCAAGGGAGTATTTTGGCCGCAGGTGTGGAAGAGTATTTAAAATATTTAACAGACTCATTAAGTCAGTATCAGATGA
ACAATAAAATAGAAACGTGGGTTAAAAGAGGTAAATTTGAATAGGCCTTCCTCAAAATAGAAACTCCAAAAGGCTCATTAACACAAAAATGTGC
TAAAGCTTAATAGTAATTTGGATATTGCCCACCAGTAGACCGGCAAAATTTAAATTCGGGCAATACTTGGTGTAGGTGAACATGTGGATCAGTA
AGGACTCTCTATGCTGCTGGTGGGATTGACAACTCTCCCAATCACTACAGAGAACAATTTGGCATCATCTAGTAAAGCTGAGGATATCCATTCC
CTATGGCCCTGTGATTCTATTCTTGGATATATACCCTAGAGAGATTTTTACACGTGTCCCATTAGAAATGTGCAAGAATGTTCACAATAATCAT
TGAAAAGTAGAAGCAATCCTAATCTCCATCTGCTGTAGAATGGAGTGGAATAATCATACAATAATCACTTTGCTATAAGCATATGCTGGAAAGA
CAGTCGATGGAGACAAAGGATCTACTTACTTATAGCTATTATGAACAACATGGACGAGTCTCTCAAGTATAATACAGAGTGAAAAAAGCAAGCT
ATAAAAGGAAGCATGCCGTATGATTCCACTTATACAACTTCATATCAACTCTATTGTTTAGGGATGCGTACAAAAGTGATAAAGCTATAAAGGA
AAGCAGTGAAATGATTATTACAAAGTCGGAGCAATTACTATATCTATATAGGAGAGTGTGGTTTGTGACTGGAAGGAGTACAGCAGCTGTATTC
TGGGAGGTTGGCAGTGGTCTATTGCTTGACCTTGGTCCTGGTTAAGTAGGTGTCTGCTTTTGTAAAATAATCTAAACTATACAGATACGTTATA
TGCACTCTTCTAATTTCAGATTTGAAAAGTGCTTCCTCCAGAAAAAGTAATAGAAAGAAAAGTATGTGGAGTAGAAATTTTGATGAGGTTCGAA
TAGTTATGGTTGAAAAACTTGATTTTCAAGAGACCAAGTGTCCACTGTTATTAAAAGAGGGCGAGAGAGCTGGGAGTATTTAAACAACAGGTTA
CACCCCCCCACACCCCACCACCACCAATCTGTTCATCACTCTAAGCCTTCTCATCTCAGATATTTCACCCTATATTTGTGTCAATTCCAAACTCA
TTCGTGACAGACAAATTGGAGGATTGTCGTCATCATTAATAAGGACATTAGGCACCAAAGGCCCAGCAAGACTGGGCCACCACACTTAAATGTG
AGCAGGTACACCGGGGCGAGTGGACAAGATCGTCTGTGCACATTACTTGGCAGAGTCCATTGAGTGACTGAGGGTTTAACCTTAACACATTTAA
CTGGAACTCCTGCCCAGAGAATGTGCTGGAGAATGCAGAATAAACTGAGCAATGCCCTCATTGTGCTATGAGAGTGGACATGAAGTTTATCATG
GTACAACCGATCGTCGAAGGGCAAAGAGTTGGTTTAGGTTGTGCACTGTATAGGGAGAAGCCAGGGGCGGGTTGGGTTTTTTTCCAGATTTCAG
TATAAATTGTTTCATCCTCCAGACTTTGCATTTGTAGGCTGAAGAGTGCTAATCTGTTTTGGCCGCATCTCTCACTCATTCTAATCTCTGTTAT
CAGCAGACAAAAATTGAACTATGTGGCAAATTGTACCGAGCACTTTGCTCAAGACAATTGTGAGTATGGAAGTTGTCCCGCGCAGAGGTGGGAA
GGGGAAGGGCAATTTCCGCAGAAATGCCAGCACTATGGTGGTTTAATGCTGACACAGAGACAGTTTTTTCTCTCAGGAATTGTCTTTCATCCAT
CAATCCAGCCAGGTAGCCAGCCAATAAACAAATTTTAACACACAAAAAGTATGAAGCAACATGTCTAACACTGGGAGGGGCTGGCGTGTGTTTA
TTTGGGTATATACAATGAGTCACGGATTAAAATTGCTTTTACCAGATAGATACCTAGGTGTTCCACAGCATTATTGAACAAGATGTCGTCATTT
CCCCATTACTTCAGAAGACCTCCTTAATTACTTATATTAATTGTAGAATATATTTATGCATACCAGGCTCTACCTCTGGGCTTTCTATTCCGTT
CCAGAGACCCAGTACCAGAATATTTAAATCACTGTGGCGTTGAATACATTTTAATATCTGATAGGGCCAGTTTCTGCGCATTGCACATTTTTTT
TTCCCCTTTCAGGAACGTGTTCAGGCCCGCGGCAGGGGGCGGGATCGCGCCTCCTCCTCGGCTCTGGTTCCAGCCGAGCCTCTCGGACGCAGAG
ATGGAAATCCCGAAGCTGCTCCCGGCTCGCGGGACACTACAGGGCGGCGGCGGCGGCGGTATCCCCGCGGGTGGCGGCCGAGTCCACCGAGGCC
CTGACTCGCCGGCTGGCCAGGTCCCCACGCGCCGCCTCCTGCTGCCCCGGGGCCCCCAAGATGGCGGGCCGGGCGGCGCGAGGAGGCCAG
CACGGCATCACGGGGCCCTGGCCCAAGCCTGTTCGCGCCGAGGCCCCATCAACCTAGCGGCGGCGGCGACGACTTCTTCCTGGTGCTGCTTGAC
CCGGTGGGTGGCGACGTGGAGACCGCGGGCTCCGGTCAGGCCGCAGGGCCTGTGTTGAGGGAGGAGGCCAAGGCGGGCCCGGGGCTCCAGGGGG
ACGAGAGCGGCGCGAACCCCGCGGGCTGCTCTGCGCAGGGCCCCCACTGCCTGTCCGCGGTTCCCACTCCGGCCCCGATCTCCGCCCCCGGCCC
CGCCGCGGCCTTCGCGGGCACAGTCACTATCCACAACCAGGACCTGCTGTTGCGCTTTGAGAACGGCGTCCTCACCCTGGCCACGCCCCCACCA
CACGCCTGGGAGCCAGGGGCCGCTCCTGCCCAGCAGCCCAGGTGTCTGATCGCCCCCCAAGCTGGGTTCCCGCAAGCCGCGCACCCGGGTGACT
GCCCAGAGCTGCGGTCCGACCTCCTGCTAGCCGAGCCCGCAGAACCCGCGCCTGCTCCGGCGCCCCAGGAGGAGGCGGAGGGCCTGGCCGCCGC
CCTGGGCCCCCGCGGACTGCTGGGCTCTGGTCCAGGCGTGGTGCTGTACCTGTGCCCCGAGGCGCTGTGCGGGCAAACCTTCGCCAAGAAGCAC
CAGCTGAAGATGCACCTGCTGACGCACAGCAGCAGCCAGGGCCAGAGGCCCTTCAAATGCCCCCTGGGTGGCTGCGGCTGGACCTTCACCACCT
CTTACAAGCTCAAGAGGCACCTGCAGTCGCACGATAAACTGCGGCCCTTCGGCTGCCCTGCGGAGGGCTGTGGCAAGAGCTTCACCACCGTGTA
CAACCTCAAGGCGCACATGAAGGGCCATGAGCAGGAGAACTCGTTCAAATGTGAGGTGTGCGAGGAGAGCTTCCCCACGCAGGCCAAACTCGGC
GCCCACCAGCGCAGCCACTTCGAACCCGAGAGGCCTTACCAGTGCGCGTTTTCTGGCTGCAAGAAGACATTTATCACAGTGAGTGCTCTGTTTT
CCCATAACCGCGCCCATTTCAGGGAACAGGAACTGTTTTCCTGCTCTTTCCCTGGCTGCAGCAAGCAATATGACAAGGCTTGTAGGCTGAAAAT
TCACCTGCGGAGTCACACCGGCGAGAGACCTTTCCTTTGTGACTTTGATGGCTGTGGCTGGAACTTCACCAGCATGTCCAAACTCTTAAGGCAC
AAAAGGAAGCACGACGATGACCGGAGGTTCATGTGCCCTGTGGAAGGCTGTGGGAAATCTTTCACGAGGGCCGAACATCTGAAAGGCCACAGCA
TTACCCACCTGGGCACAAAGCCTTTCGTGTGTCCTGTGGCAGGCTGCTGTGCCAGGTTCTCTGCTCGCAGTAGCCTCTACATTCACTCCAAGAA
ACACCTGCAGGATGTGGACACTTGGAAAAGCCGTTGCCCGATCTCCTCTTGTAATAAACTCTTCACATCCAAGCACAGCATGAAGACGCACATG
GTTAAAAGGCATAAGGTGGGCCAGGATCTCTTAGCTCAGCTAGAAGCAGCAAATTCTCTCACACCCAGCAGTGAACTTACCAGCCAGAGACAGA
ATGATCTCAGTGATGCAGAGATAGTGTCTCTCTTCTCTGATGTACCTGACAGTACTTCTGCTGCATTGCTGGACACAGCATTGGTGAACTCTGG
AATCTTGACTATTGATGTGGCTTCTGTGAGCTCGACTCTGGCAGGGCACCTCCCTGCTAATAATAATAATTCCGTAGGGCAGGCTGTGGACCCT
CCGTCCTTGATGGCCACCAGCGACCCTCCTCAAAGTCTGGATACCTCTCTCTTTTTTGGAACGGCGGCCACTGGTTTTCAGCAGAGCTCCTTAA
ATATGGATGAGGTCTCAAGTGTAAGTGTGGGGCCATTGGGATCTCTGGACTCTTTGGCCATGAAAAACTCCAGTCCAGAGCCTCAGGCTTTGAC
ACCCAGCAGTAAGCTAACAGTGGACACAGATACTCTGACTCCTTCGAGCACCCTTTGTGAAAACAGTGTCTCAGAACTACTGACACCAACCAAA
GCGGAGTGGAACGTACATCCTAACTCTGACTTCTTTGGACAGGAGGGAGAAACCCAGTTTGGATTCCCCAATGCAGCAGGAAACCATGGTTCTC
AGAAAGAAAGAAATCTTATCACTGTGACTGGCAGCTCATTTTTGGTATGAAGCAACTCTATTCATTCCTTGCCATGTGGCTAACTTTTATTACA
GTCAATTTTGAGGATATTCTGGACTAAATATTTAAGTGCAGTCATTTCTTTTTGGTTTGCAAAAAGAGCACAGCCCTGGACTATGAGTTTGGAG
ATCTAAATTCTGATCTTGAGTCTGGAACTGACAAGTTGTGTGACCCTCAGCAAGTCACTTAACCTATCTGAGCCTTAATTTCCTTATTTATAAA
TTGTGGTGGTTTGAACACATTGCTCATAAGGTCTTTTCAGTTTTGTTTTGTTTTGTTTTGTGATTTTGTGCTTTTTCTTGAAAATTTTCGGGCA
TTTTGCAATTATTATTGTTTGTACTTGTAATCAGAAGCGGTTTGAGCCCTGTAGCACTAAATAATGAAAGATTGAGGAACTGGTGTTTTACATT
AAAAATTTAATGGAAATTTTACACAGTACGAAAATCTAATGATAGAGCTCAAAAAAAAAGAGCTAAAAATAGGAGTTGGTTCTTCTTAGCTGTT
TATCCTTCTAACCTTTTTTTTAAATGATGAAGGTATGTTTTTGTTGTGGAAAATACAAGGGCTTTTGTTATCACTCAGACCCAGAGTGAAATGT
TTGCTTTGTGGTTTTGAATAAGTTGGCCTTTAATAAGTTATTTAGTCTCTCTTAGCCTCAGTTTTCTATCTGTAAAATGGTCATAGCAATGTGA
ACATATGTGTTACATCCTAGACTTATTTTTCTACCCCAGTAGGTTGTATTGAAAGGAAAATGTTATATGTGTTTCAGCATGTTTTGGTGAATCT
TCATTCCCTTTCCTGCCCCTTGTTTTCCCTCCTCAAAGGGGAGAAATTAGCACAAATTAGTATCAGGATTGTGCAGGAAATAAACATTTGTGAA
GGTTAAGAAAGAGGAAAAGGAAGTTATTTCTTCAACAGATTAAGGATTTTTCTACACACAGTTCTTTTGTGGCATTGGCCACATGTCCATTAGA
CCAATTTGATAGTATCTTCGGTCTGCATTCAAAGCCAGCTCATGCAATGAGTATTCAGCCTATTCTTCCAAGACAATCTGGACATAGACCAGAG
GGAGATTTTTCTCCCCTCTGTGCCCTAGAGAGCTCATTGCTGGCTTACTCTTAGAGTTGAAATGAGAGGGTTTTG

HUMAN SEQUENCE - mRNA
CTGCTCGCGGCCGCCACCGCCGGGCCCCGGCCGTCCCTGGCTCCCCTCCTGCCTCGAGAAGGGCAGGGCTTCTCAGAGGCTTGGCGGGAAAAAA
GAACGGAGGGAGGGATCGCGCTGAGTATAAAAGCCGGTTTTCGGGGCTTTATCTAACTCGCTGTAGTAATTCCAGCGAGAGGCAGAGGGAGCGA
GCGGGCGGCCGGCTAGGGTGGAAGAGCCGGGCGAGCAGAGCTGCGCTGCGGGCGTCCTGGGAAGGGAGATCCGGAGCGAATAGGGGGCTTCGCC
TCTGGCCCAGCCCTCCCGCTTGATCCCCCAGGCCAGCGGTCCGCAACCCTTGCCGCATCCACGAAACTTTGCCCATAGCAGCGGGCGGGCACTT
TGCACTGGAACTTACAACACCCGAGCAAGGACGCGACTCTCCCGACGCGGGGAGGCTATTCTGCCCATTTGGGGACACTTCCCCGCCGCTGCCA
GGACCCGCTTCTCTGAAAGGCTCTCCTTGCAGCTGCTTAGACGCTGGATTTTTTTCGGGTAGTGGAAAACCAGCAGCCTCCCGCGACGATGCCC
CTCAACGTTAGCTTCACCAACAGGAACTATGACCTCGACTACGACTCGGTGCAGCCGTATTTCTACTGCGACGAGGAGGAGAACTTCTACCAGC
AGCAGCAGCAGAGCGAGCTGCAGCCCCCGGCGCCCAGCGAGGATATCTGGAAGAAATTCGAGCTGCTGCCCACCCCGCCCCTGTCCCCTAGCCG

SAGRES DISCOVERY 02-01

CCGCTCCGGGCTCTGCTCGCCCTCCTACGTTGCGGTCACACCCTTCTCCCTTCGGGGAGACAACGACGGCGGTGGCGGGAGCTTCTCCACGGCC
GACCAGCTGGAGATGGTGACCGAGCTGCTGGGAGGAGACATGGTGAACCAGAGTTTCATCTGCGACCCGGACGACGAGACCTTCATCAAAAACA
TCATCATCCAGGACTGTATGTGGAGCGGCTTCTCGGCCGCCGCCAAGCTCGTCTCAGAGAAGCTGGCCTCCTACCAGGCTGCGCGCGCAAAGACAG
CGGCAGCCCGAACCCCGCCCGCGGCCACAGCGTCTGCTCCACCTCCAGCTTGTACCTGCAGGATCTGAGCGCCGCCGCCTCAGAGTGCATCGAC
CCCTCGGTGGTCTTCCCCTACCCTCTCAACGACAGCAGCTCGCCCAAGTCCTGCGCCTCGCAAGACTCCAGCGCCTTCTCTCCGTCCTCGGATT
CTCTGCTCTCCTCGACGGAGTCCTCCCCGCAGGGCAGCCCCGAGCCCCTGGTGCTCCATGAGGAGACACCGCCCACCACCAGCAGCGACTCTGA
GGAGGAACAAGAAGATGAGGAAGAAATCGATGTTGTTTCTGTGGAAAAGAGGCAGGCTCCTGGCAAAAGGTCAGAGTCTGGATCACCTTCTGCT
GGAGGCCACAGCAAACCTCCTCACAGCCCACTGGTCCTCAAGAGGTGCCACGTCTCCACACATCAGCACAACTACGCAGCGCCTCCCTCCACTC
GGAAGGACTATCCTGCTGCCAAGAGGGTCAAGTTGGACAGTGTCAGAGTCCTGAGACAGATCAGCAACAACCGAAAATGCACCAGCCCCAGGTC
CTCGGACACCGAGGAGAATGTCAAGAGGCGAACACACAACGTCTTGGAGCGCCAGAGGAGGAACGAGCTAAAACGGAGCTTTTTTGCCCTGCGT
GACCAGATCCCGGAGTTGGAAAACAATGAAAAGGCCCCCAAGGTAGTTATCCTTAAAAAAGCCACAGCATACATCCTGTCCGTCCAAGCAGAGG
AGCAAAAGCTCATTTCTGAAGAGGACTTGTTGCGGAAACGACGAGAACAGTTGAAACACAAACTTGAACAGCTACGGAACTCTTGTGCGTAAGG
AAAAGTAAGGAAAACGATTCCTTCTAACAGAAATGTCCTGAGCAATCACCTATGAACTTGTTTCAAATGCATGATCAAATGCAACCTCACAACC
TTGGCTGAGTCTTGAGACTGAAAGATTTAGCCATAATGTAAACTGCCTCAAATTGGACTTTGGGCATAAAAGAACTTTTTTATGCTTACCATCT
TTTTTTTTTCTTTAACAGATTTGTATTTAAGAATTGTTTTTAAAAAATTTTAA

HUMAN SEQUENCE - CODING
ATGCCCCTCAACGTTAGCTTCACCAACAGGAACTATGACCTCGACTACGACTCGGTGCAGCCGTATTTCTACTGCGACGAGGAGGAGAACTTCT
ACCAGCAGCAGCAGCAGAGCGAGCTGCAGCCCCCGGCGCCCAGCGAGGATATCTGGAAGAAATTCGAGCTGCTGCCCACCCCGCCCCCTGTCCCC
TAGCCGCCGCTCCGGGCTCTGCTCGCCCTCCTACGTTGCGGTCACACCCTTCTCCCTTCGGGGAGACAACGACGGCGGTGGCGGGAGCTTCTCC
ACGGCCGACCAGCTGGAGATGGTGACCGAGCTGCTGGGAGGAGACATGGTGAACCAGAGTTTCATCTGCGACCCGGACGACGAGACCTTCATCA
AAAACATCATCATCCAGGACTGTATGTGGAGCGGCTTCTCGGCCGCCGCCAAGCTCGTCTCAGAGAAGCTGGCCTCCTACCAGGCTGCGCGCAA
AGACAGCGGCAGCCCGAACCCCGCCCGCGGCCACAGCGTCTGCTCCACCTCCAGCTTGTACCTGCAGGATCTGAGCGCCGCCGCCTCAGAGTGC
ATCGACCCCTCGGTGGTCTTCCCCTACCCTCTCAACGACAGCAGCTCGCCCAAGTCCTGCGCCTCGCAAGACTCCAGCGCCTTCTCTCCGTCCT
CGGATTCTCTGCTCTCCTCGACGGAGTCCTCCCCGCAGGGCAGCCCCGAGCCCCTGGTGCTCCATGAGGAGACACCGCCCACCACCAGCAGCGA
CTCTGAGGAGGAACAAGAAGATGAGGAAGAAATCGATGTTGTTTCTGTGGAAAAGAGGCAGGCTCCTGGCAAAAGGTCAGAGTCTGGATCACCT
TCTGCTGGAGGCCACAGCAAACCTCCTCACAGCCCACTGGTCCTCAAGAGGTGCCACGTCTCCACACATCAGCACAACTACGCAGCGCCTCCCT
CCACTCGGAAGGACTATCCTGCTGCCAAGAGGGTCAAGTTGGACAGTGTCAGAGTCCTGAGACAGATCAGCAACAACCGAAAATGCACCAGCCC
CAGGTCCTCGGACACCGAGGAGAATGTCAAGAGGCGAACACACAACGTCTTGGAGCGCCAGAGGAGGAACGAGCTAAAACGGAGCTTTTTTGCC
CTGCGTGACCAGATCCCGGAGTTGGAAAACAATGAAAAGGCCCCCAAGGTAGTTATCCTTAAAAAAGCCACAGCATACATCCTGTCCGTCCAAG
CAGAGGAGCAAAAGCTCATTTCTGAAGAGGACTTGTTGCGGAAACGACGAGAACAGTTGAAACACAAACTTGAACAGCTACGGAACTCTTGTGC
GTAA

TABLE 2

MOUSE NOMENCLATURE
ICSGNM Bach2
Celera mCG12764

HUMAN NOMENCLATURE
HGNC BACH2
Celera hCG33075

MOUSE SEQUENCE - GENOMIC

GTGCGCTCAAGATAGAGACCAGCTACACAGCAAGTTCCAGGTCGGTGTGGGCATGAAACACTGTCTCCAAAGCCACAGGAGACAAAGGGGGGGG
GAACAACAGGTAAGGGTGACCATGTAAAAATTAAAAACTTCTGTGCTTTTAAAGAAGACCATTAAGAAAGTAAAAAAGACAAACCTTATTCATG
AGATAAAATATGTGCAACTTGCATATCTAACAAAGGTTTAGTATCTAGGCTATATAAGTAATTTTTGTAATTCAACACTCTTAAAGCAAATAAC
TCAATAACAAGCAAAGAATTAAAACATTTTCCAGAAAATATGTACATGAAACGACACTCGACATCATTAAACATTAGAAAATATAGATTACAGT
CATAATGAGATGTCACCTTACCCCCAGTGAGATGAACGTCCGAAAGACTACCACAATGCCTGTGGGGGTGTGGAGACCCTACTGATGGATTGTA
AAAGAGTACTATCATGGGAAGCGTTTTGAGCAGTTGTTCAAAATGTTAAAGAATCAGTGTATATCCCAGTACACTAACCAAGGTTCTCCAGAGA
AATAGAAGGGTGTGTGTGTGTGTGTGTGTGTGTGTAAGAAAGACTCGAGAATAAACGAGAATAAATGTGTTTTGAGGAACTGGTTCACATGT
TTATTGTGGAGGGCAATATTATCACTTGGACAGGATCTAGGATCATTTGTGAGACAAGTCTATGGGTCTACCTGTGGGGATTGTATAGATTAGG
TTAGCTTCTGGCCAGGCATGTGAAGGATTATCTTGATAGGTTTAATTGAGGTGGGAAGACTCACCCCAAGTATGGGCGGACACATTCCCTGGGC
TTGGTGTCCTGGACTGCATAAAGGGACAGAGGGGGGGTGGCGGGGGGGCGGGGGGGGGGAGTAATCTGCACACCAACAGTCACCATTCTGTTTCC
CCACTTCAAATGCAGTATGGCCAGCTCAAACCTACCATGACAGACTGGATCCTTGAACTGTGAACCAAAATGAACCCTTTGAGCCTTAGGTTGC
TTAAGGGCTCCATGTGTGTGTGTGTTAATTTTTTTCCAAGGAAGGAGTCATCAGGTTGTAAAAGGACCTTTGATAGGAGAAATGTTAAAACATT
ATTTAGAGTGCCAGGCTAATTTTCTGGCCGTGTGATACATTGCACTAAGTGGTAGGAAGATTTTATCACAGCAACAGGAAAAGTGTTGAGAAAA
TTAAGACAATATGGAAGCTAACAAGTCTAAACTCTGTTTAGACTCTAAAGGCAGACAGTCTGCTCTCCCTCAGAAAGGCCTTCAGCCGATTGAA
TGAATCCCGCTTGTATTCTAGACAGTAATTTGCTTTACTTAAAGACTACATTAGTAAATGCTAAGCCCATCTTGCTTCAAGAGCAGAAACCCTA
GTGTGGACTGAATAAAGATTGCCTCACTCAGTGGTCAGAGTGAGCAGATGGCATACTCCCAAGAAGCAACATAGGAAAGACTAAATGATTTTTT
TTCTTTTTAAGAGCAGAAAATGTAAAACTTAAATTCAGAGCCGGGCGTGGTGGCGCACGCCTTTGATCCCAGCACTCGGGAGGCAGAGACAAGT
GGATTTCTGAGTTCGAGGCCTGGTCTACAAAGTGAGTTCCAGGACAGCCAGGACTATACAGAGAAACCCTGTCTCGAAAAATAAAACAAAACCA
AAACAAAAGACCAAAAAACCCTTAAATTCAAAGGGGGGGAGGGTTGTTACTATTGTTTGTTTGTTTGTTTTTAATTTGGTTTACGTT
TTTCAGTGATGTAAGTGGTGGAAAGAATCAATGTCAGCAAAAAAACAACAACAAAACAACAGGAAGTTAAGTTGGATCTAAGATGACTGTAGCG
CCTACAGAACATCAGCTAGACCAACACAGCAGAGACTGACCAGAGGAGCGGGTGTTCCCAACACTGTCAGCTAACTTGGTGCAGCCATGTTAAC
AATAGGATTGACCAGAAGCCAGGTGGCGATGTCCCTAAAGCCAAACCAGTGCTGAGGCAAACAGCACCAGAGGAAATCACCCCGAGATGCCCGG
GGCCTTAGTGCCAGTGCTGGGGCCTGGGAACAACATGAACTCTAGTTCTTCTACAGATTTTAATCTGGAGTTCACAGATGCATAGAGGACCCCT
AATAGACTTGAAAAGGTCCTTGAACCTTTGATTACCACATGGAGCAGTTTTGTGTGTGTTAATTTTTTTCCAAGGAAGGAGTCATCAGGTTGTA
AAAGGACCTTTGATAGGAGAAATGTTAAAACATTATTTAGAGTGCCAGGCTAATTTTCTGGCCGTGTGATACATTGCACTAAGTGGTCTGGCAC
TCCCAAGTCTTGGACTAAAAATGAATTCTTAGTGCATGATCTCACTGCCTGCAGGGCAGTTTGATTCTGCCCTGGCATTTGATGGGACTTGTTA
GAGGATTCGGAAAGGCAGGATGTTGGTACGTTTGAGGCCATTAAACCAAGAAGGAAGAAAAATATATTGTGGAGTTGAATTAAATGCTGAATGG
CTAAGGACATTTTTTATGGTCTTTGTCAACACTCGGAAGGAAACCCTGCTTAGAAACAAGTGAGTGACAAACCAGCTCCGTCTAGATGCAGCAT
GTTGGGTAAACAAGTCGTCTTTCCAAGAAACGCCGCTTCAGTCATGCTTTGATAGTGGAGACCGGGAGGGCTGGGATGCTTGTGTCTGTGATTA
TAACTAGTATATGACCTAGAAAAGCATCCAAAGGTCCTTTTCCATATGGAGACCAGAGTTCCTACAGCTCTGGTGTCAAATGTGGAAAACAAAT
GAAGGGTGTGTCCTGGAGGCCCTGATCTATAGGAGAGATTCTATATAAAATGAGGCACAGCCCTCAAAGTGCCTCTCTCTCCAGGCCCTTGCTT
TAAGTCTTATTTTTGGTCTTGATCATTAATTCCCATTACAGTAGATGGACAGTGGTGATGGTTGCTCAACCAGAAATGTACTTAATGACCACTA
AACTGTTTATCTAAAATGATGAAAATGGCCAATTATAAACTCTGGATACTTTATTATGACAAAAACATAGGATAATACAGAGTGGCGACGGTCC
ACTTATCTTATGTGAGAAGATTTCTGTGCAGGAGAACTAAGCGTTCAGAATCTTGTCAGTGGCCAGTCTCACCCAGAGAGATCCTGAGGGCCCT
GCCAGCCAGGGAAGAAGAGAAAAAGGACAGGCCAATTTCTGTGTCAGTAGGAATAATGAGCCAGGTGAGAAATCACAGATGATAAATAAAGTAG
AGACGAGGATGGGTAGATTGATGTGAGATGTAAGGTGAAGATAGAACTGACAGCCTGTACTGAGGGCCTAGCCAGCAGTGAGGAGCAAAGATGG
TTCGTGGTTTTTTCTGCTGGAGCAGTTGGGTCCACGGTAGCATCTTCTGTTGACATGCTGCCTCATGCCTCTCTTACCTGCCGCTCGCCTCACT
TGTCTTTAAGGGCTCTCGGCATGACTTCCTGTAGCCTTTCCTTGCTTTAGCTGCCATCCTTGTGTGGCCCCACAGGGTCAGCTCAGAAACTTGT
GAGTGTGGGATCCGGATGCTCAACTGTGTTGCCTGGATGGCACGAAGCAAGCCAGTCTGCAGATGAGACTGAGAGGCTGTGTGGCTCTCAAGAA
AGGGTCAGAACTGTGCAGGATCTCTGTTGGCTTCTAGAAGAAAGATAGCAGAGGTCTTAGAAGACTGCAAATCTTAGGAGGAGGCAGAAAGATC
TCTACAACTTGACCAAGTACTGAAGCTAGGAGGAAGAGTTAAGGCATTGTTGATGACCATCCAAGATCCAAGAAGAAACATTCTTCATGAAGTT
GACAGAAGCCCCTAAGAGGTATGCCTGCTTGCAGCCCACAGTGAACTTGATGTCTGGCTGTGTGATATAGTATCCTTGAAGTCACGTGGGCACT
AATACCCCGATGCCATTTGAGAACCGACTCTGCGGATGTTTTCTGGGTGGGCGTTGCCAGGGCTGATGATCCTCTCTAGAGGCTGGATTTCAGG
ATGAGATTGCTATTATGGGTTTTCCCTGTGATACTCAGCAACCATGGACCATATGCTTACAGTTACTCCTCGAGGGAACTCTGACAAGATGATG
ATACTGCTTTTTCAAAAGAAACTACAACAGAAGGGGAAGTGGGGGGACACACCTCTAAGTTGTAATGTGCTTCACAACGCATGAGCACTAACAA
ACTAAGCAGTCGGCTTGTGTACAAACTGCCATGGCATCTGCTGCTTTGCCACCTTGCTTTGCTGTTTTACTGAGTACACAGAAAAAGTGAACAC
CATTTTTTTGAGGAGGGGAACGTACTCTCTGACTGGTAGTGAATATCAGTGTTGTGTAGGAAAGAGGTGGCTGCTTCCTTGGGTGAGCCTGGGT
AGTCCCTTTGTCCAGCGGTGTGCCCTTAGGTAAGGCACTTTGAGTGTCCGAGCCAAGGTTCTTTTATCCTCCAAGTGGGCTAATAACACTGAAA
ATCCCTAGCTCAGTCCCTAATAGAAGTTTTCAGTAAAGGAAAATCACGGTAGTAATACAGACGCTGTACCCACAGACTGGTGTCTGTTAGTTAC
AGAGTCAATGAAAGTCTAGGAATTAGTTCAGATTAGCTAGTTTTCACTCATTTGTTTTTGGTTACTTCTCCTTTTCTTATAACTCTTTTTTCCA
AATCGCTTGGTGACAAATAGTTCAGGTTGCAACCTCTTTTAGGATAGGATAGATAACATCTGAATTTTGCTATATCTGGGAACATAAACACCGT
CCTTGGTTGTTAGACAGAGTGAATTCAGGCTCAGGAAGAGAAGGACCGATGGTCTGAGCACTGTATCCCAGAAACTGCATTCCAGCTACAGTTC
CACAGACAGAACAACTAGGTCCCTGCACCTGAAACATGTAAATGGCATCTCCCTAGGGTATGTGCCTGTTCGTGTGCACCTGTGTGTGTGCTGG
TGGTTGTCTGTGTTGTATGTGTCTCTCTCTGTCTCTGTGTGTGTGTTCAATCTTAATTCACTTTCTCCATCTTATTGAAGTGCCTTTATCTCTT
CCCCCTTTTTGCTCTGTGATAGCACAGGGCACATTTCCTTGTGTTGCTTTCCCAGGGCAGTAGAAGACACAAGAGCCCCAAGATTTGCAACCCA
AACATCTCCAATCCACATCATAAGTGGATGTCTAAATTCTGTCTGAAAGATAATTTTTAAATTCATATTTATAGATTCCAAAATTTAATGCCAA
GTGAACCCATTACTTGTTAAAGCTTTTCTGGCCACAAAATCGTGTCCACATTTAGTCCTTCTTGGTATGAGTAAGGACTTTAGAACCACTGTCA
GTAAATCTATAGCTAATATTTTGGCAGAACATTTGAACTTGATCTTGCTTAGTAGCAAATAATCTCTAAATGTTTTTATTTTTGGAATTGAACT
TTTTGTTTTCCGATCACTGTCCATTCTCTAGGCACTCAATCCAGAAGTGGGGAATGCCCCTGTGTAAATGGGGATTCGTCTCAGTATTAGCCCT
AAAAACCAGTAAGCTGGTTTTGGACAGAAGTGGTAGCCTGAACCTAGAAAACTCACCTTGACCTCTCTGTGCAGCATCTCTGCTGAGAAAACTG
TTGCTGATTTGTAGAGAGCATCCACCACTTCAGGAGATAACATTGATAAAGGAGAGAGAAGGAGAAACTTTTAATCCCACAGCCAAGGGGTGCC

ACCGTGCATGGTTGTTAGCGTGCATTCAGGCTCAGCACAGACATGGACCGATGCTCTGAATACTTTATTTTCTATCCTTTGTGTTACCCCACAT
CCTGGGAAGGTGGGAAGGAGCAATTAGGGAAGGAATTTAATCTCAGGAAGACACCAGAGAATCAGTGCTGGGAGTGAGAGGAGCCCTGAGCTAC
CTCTCTGTCTTGAAGAAGTGATTCTGCTCGTATGAGATCTATGTGTGGGTGAAAATGCCTCCACCTGCCGTCTCCTGGGGGAAGTAGCTCATCA
CATCCTCTTAAGCCCACTAAGACCAGCTCAGCTAGGAGTTAAGCTGTCGGGGATAAAGAACGCAATCAGCCTTGCCTATACAACTTCCAGAAA
ACCCAATCGTTTCGCAGCTAATTGGTACAAATGTTCCCTTGCCCGCTGTTTACAGCTGGAGACCCTCTTGAACATTTTTATGTAATTAAACACC
ATTTACTCTTCCTACCTTAAAAATGCAGGTCCTGCCGACTCTTTCTTTTAAGTAAATTTAAGATTACGCAAGAGGGAATTATAGACAGATAATT
TCCCACATTTGCAGTACACTACTTTATTTGGAAATGAATGAATAGAAACCACTCACACGTCTACTTCTGCAGTTCCCCCTGCTTCTCTTAACAG
TAACTATGAAGAAAGGAAAAGGCGGTGTTGTCATGCTTGGTGTAGCTGTACCACAGCACATCACCCACTGTTTCCTGAGAACTGTCCACTGAGC
CACTCTGTGTGTGGAGTCTTTGGAAATCAATCTTGTTAGAAAATGCAGTCGAGGCAGGAAGCGTCCAGCACTCCTGTATTCACCGTTGTTTCTA
AGAGGCCAGGAGTTCAGAGCGCTTACTGGCTGAATGGGGGTGATATGTGCTATCCTGTGGGCCACTGGGCCTGGAAGACCTCCAAAAGAGCAGT
GTCCTATGGTTGTGTTGTCCGCTATCCATGTTTAGCTATTTAAATTTGACTTAACTTAAAATCAATTGCTCATTCTTAGCAGGTAGACTCTAGG
TACTGGGTCGCCACACTGAGGCTGCTGTGCTGTGCTGTGCTGTGCTGTGAATGCTGAGGTCCCCATTATCATAGAAACCTAAATTAGTGGCCCC
AAGATTTTTAAGAGCATCCCTTGTGACTATAGCATATAGTTAACACAAAAATCCTATTTACCAACCTGCTTGAGACTAGTGGTCAAATAGCAAT
CAGATTGCTAGCAAGACACCATGCAGCAGTATGAATTTGTTTGACTATACCAGTTGGTGAAATAATGAAGCACCAGAGTTAACAGAGGCTCGGT
GCTCTAAGCTCTTCACTATCTGCTGAGGCTATTTCCCTAAGGTTCTCGGGCCCTTCTTCAGTCATCGTAAAGTGAGGAAGCCAATGACCTGGAG
GGTCACAACACTGCAGGCCAGATTGGTGGCTGGTGCTCTAGGTGTCATGGTGCCTTGACTTTGAGAAGGGGACACTTTCTAAGGGTCATTCTGT
AGGCTCACATACCACTGTCATGGCCATGACCCAAATGACAGAACTATCAGCTTCAACAAGACCTCAGACATCATCATCTCATGACCCAAGAGAG
TCACTCAGCTAGTTTGTGACCAACTGAGAAATACAACACTTAGTCTGGTATTTATTTATTCACTCATCTATTGGCTACCTCTTTCTGTGTCTAC
TGTAAAATGGGGATTATTAACCTTAATGCCTGGCAACATTGTTAATAAAAAGCAAGATGTTTCTCAACCTTAAATGTATGTCTTATAATTTGAA
AAATCCCCCCAAAATCCCCACATATTCACATATATTCATATACATATTTTTTCCACCTCATTTAATCCTAAGAAGAACCTGTGTGAAGAGTTAG
GCTCAGAGGCAGAGCACCTGTCCCACATAAGGAAGCCACTGTGACACAGAGGGCTGTGTCTCTCCGGACTTAGGAACAATAATCTCTTGTAAAT
GTACGGCAATACAAGCATGTGGCATTGCTAGCTTTGGGCCTGTGGCATTTTGCAGTTCAGGAGTTAGCGATGTTGGAAGTTATGGCTTTGCTCG
AGTGGTGCATTTTTTCTTTTTTACACTTTGATAATCTGCCAGTTGCACAGACTTTGGTTCGGCATGGGCGGCTTTGAAGTATATTTTTAAAATG
AGAGAATCCAGATTTGTAATTAGCTTTGCAAATGCTAGTTGTACAGTTTCAGCATCCGAGGAGCTCCTGCTAATGTCCCTGTTCCTAGTGGCAG
CTCTGTGTGATTTTTTTTTTATTCCCTCTCCGTCCCCCAAGCAATTAGGAGAAACAAAGTCTGCTCTCTGAGGATCACTTCCTCACCTCTTCAT
TTGTATAAACTATGAGCTTGGTGACCTCACCGAATTAACGATATACCTGATTGCAACAAAGGACAAACCTTTATAAGCCACTCTACCCTCTTAG
GCTCCTAATTCAGGACANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNATGTGTATGTATGT
GTGTATGTATATACATACACCATGTACACATGGAATAGCATTTAGTGAAAAAAGAGACCATGAATTTGAGGATTTTGGAGGGGTATGCGGAAGG
CTTTGGAGGAAGGAAAAAGAAGGAAGAAATGTAGTTATAATATCCAAAAATCTTTAAATAATTTTTTAGAGAACAAAAGAAGAACCGTGGTTCT
GCATCCAAAGTACCCAGGTTCAGTTCCCAGCACCTACTTGGAGGCTCCCAACTGTCTATAACTCCAGTCTCAGGGGATCTGACACCATCTTTTG
GCTTACGCAGGCACTATATACAGGAGGGCTGCATGCACATGGTGCATTGTTATACATTCAAACAAACACTCATACACATAAGTAAAAATATAT
AAAATCTCAAAAAAAAAACCCTAAAGAAAAACTTGTGAGGACATGCTTGAAGCTCACATCACCAACGTGGTCGCTTGTTAGCTTTCTAGAGACC
CAAGAAATGGTCAGAAACTCAGGCAGCCTGACACTCAGGTGACCCTCCGTGTGTCGCTTGCAGTGACAATGAAGGAAAACAACTGATAAGTCCT
CATTTGAGAAAAACAATTGAAGTGTTTCTATGAAATATTATAATACTACAGGGATTCAAAAGTGTGTTTTCATTAACTGTAGCAACATTGCGAC
ATGTTCTCTCTTATGTAACTCATATTTAATTTCATATTTAATAATTAAATAAAAACCCTCTATGTTTGTGTACCAAAAGAATACTGGTCCACAA
TCCAATTTTAAATCCAACACCTTTCAGGGTGTGGAGTGTGTGTGCGTGTCGTGCATGTGCACATGTGTTCATGTGCATGCATGTACATGTGTG
TATCCAACCCCAGAAGTTACACTGAATGGGCAGTGAGCTTCAACAACAAAATATCCTTAGTCATTTATTGGTCAAAGTTACCACTGTTCATTAT
TTTTTTTCCTTTACTCTTTACCTGTTTTTATGTGCTCTACAACAAACATTAACTCATTATCAGAGAAGAGGAAATAAATATGTCTAATCTTATG
AATGAAAATTTTATCTGAGGACTTAAGGTTAGGTTAAAGCCAACAAGAAGCTTGTCTGACTTGAAAATAAACACTTTGGAGGCATAGATGTCAG
CCAGAATTCACAAGTTAATCTAGAACCTCTTTTAGTTAAGACCACCACTTCGGCCTCCATACTGGGGCGTTTGAATTTGATGAAGAACGCCTTC
TGAGATGCAGCCGGAGAGATCGGGGTGACTGGATCATAGCCACATCCAAGCTGTGGGGGTTCAAGTGAACACCTGATAAGGGAAGCTTGTCTGC
AGGGAACGCCTGCAGAGGAGGTCTTCTGCCCGAATAGAGCCTAGATATTGGTACCTAGGGGGGATTGTCTTACTCTGGCCTTGTAGTTCGTTGA
AGAGAAACACTAGAACCACTGTGGAGTACTGTGTTGTTCTCAAAGTTGAGTAGAGTTTGTGAGGCAGCAGGCAGGAGATTCACGGTGTGCAACA
CTCATCCACTAACGAACGGGCTTTCCCTTCCGGTCTAGGTGGACACTCACTGATCTATCACAAGATTGCCTCACTGAGTTTGGGGGTCCATGTC
TGAATGGATTGCTGTAGCCTTCTCATCTCTTCCTCTGCCCAGTTCCCAGCATCCTAAGACTCGAAGCCAGGACAGGACCTGGGGAAATTATATG
TAAGTTTTTACTAAGATTTCTTTTCTTTAACCCAACAAGGCTCAGTGTGAGGCAGTCATGCCAATAATCCAAGCACACAAAAGTTAACTTTCTT
TTAAGAAAGTGTCATGAGAAATGTAAATTAAGCAAGAAACAAGGGCTGGAATCCCACTGTTAGTACTTCCTTAGCTCAGTGGTTCTTATTGTCA
GCTTGCATCAGAGTCACACTGGCTGTTTTGAGCCAAAAGATCTGGTGTCAGCCAGCAATCTGCTTTACTAACATTTTCCAAGTGATGCTGATGT
CAGTGCCCCAAGGCCCTCACTTTGAGAATCACCACTTTAACATAACTGTGTTAGAGGAGTGAATGGCAAAGGCGGGAATCTATATGCTTTAATA
TTGAATACATTAAGAGGTAGAACCTGTACTTACCTCATTGACACATACCTCAGAAAACAGCTCTAGGGTCTGCACGGCGGCTTCAGCTCAGAAG
TCCAGTGGTTACCACGCGCCAGCATTCCTCCTACACTGCTGGCCACTCTTTGCCTTGGACTTTAGGAGGTCAGAGTAACGGTGCAGCTGTTAGC
TTGAGGGAGTGGCCACAGTCCCTTGACAAGTGTGCACACCATGTTTGATGTCAAAAGGAGAATCCGTGGCTCCTTTGCAAAGTGAATCTTCATA
GTACCATCCCTCCCTGGTACACTGAAATGTAATTTCATTTACAAAAGACACATCAGGGGAGGTACACCTCCAGTAAACAGTCGCTGAGCAAGGC
TCGGTTTTTATGGATTTCCAGAGCCTCAGTCCTGCCTTACTTTGAGGTCAGCTCATTACCATGTTAGCTTCCAAAAGTCTAACTACTTAACCTA
AGACAGTTTACCCTGCACTGATTCAAACCCATGAAGAGTTTGGCTAAGTAAATCCTCACTTGGATAAGGTGAGCGGACATACAGATGTACATAC
ATGCTTGTGAGCATGCTCTGTTTCCAAGCCAATGTAGACATTTAAAGTATTTTTCTTTCATTTCATTAAATAAATGCGAATATAAAATAGTAAT
GGTGATACTGTCCTGTCTAGGAAACATCCAAGAAATTGCTGGGCATTTTAAATTTGTGGTAAGGCACTACAGTTTATAACGTTTTTCTTGGATG
TGGTGAATGTTGTCATGCAAAGTAGCACTTGGGATTTGCAATTCTTTTATTATCATCATCGTCGTTATTATTTTAATTGAGAATGGCCGCTGTC
GATACAGTATTTGCCACCCAGCTATGTTATCCTAGATGAAATAGGCCAGACATACTTAGTGCTGTTGCTCATAGGAGGTACCTGGGGTTGTCAG
ACTCACACAGTCCATAGGGAGAATAGTGGCTGCCAGCAGGAGGGCAGAGGAGTGGGGTGTATTTTTCAATGGGTACAGTGTGTGAGCTGGAAAG
GTTATATTTTGGTAGAAGGTGGTGATGTTGGTTACACAGCAATGTATATGTTCTAAAGTCTCTTATGTTACAGTCTAACATAATTTTTTTAAAG
CATAATAGCAGAACTCAGTCTTCCTTTCAAGAATGCTGGTCCTTGGCAGCAAAGTCACAGTTTGAGAGGCTGCGGTGCCATCGTACACCGCACT
CTCATTGTGCTACTTTTTGTTTTCAATATTTTTTTTTACTTATTTTACATCCTGATCACAGCCCCCCTTCTCTTCTCCCAGTCCCACCCATAC
AAATCCGTCCCCCCATTTCCCCCTTCCCTTATCCTCAGAGAAGGAGAGCTCCCTTGGGTGCCCTATCCTGGGACATCTATTCCCAGCAGGACA
AGGCACATCCCCTCCTACCGAGGCCCAACCAGGCAGTTCAAGTAGAGGGAATGTCCCATGGCAGGGGACACAGACCGAGACAGCCCCCTCTCCA
CTTGTTAGAGGACCCATATGAAGATCAACTAGGTCCAGTCCCTGATGTTTGGCTATGGGTCTCTGCCTCTGCTTCTATCCGCTGCTGGGTAAAG
CCTCTCAGGAGACAGTCATGCTAGGTGGCTGTCTGTAAGCCTAGCAGAGGATCATAGTCTCAGGGGCTGGCATGCCCACATGAGATGGCTCTCA
GTCATTGGTTGGCTGTTCCCTCAGTCTCTGCCCCATCTTTATCCCTGCACATCTTATAGGCAAGACAGATTTTGAGTTGAAGGCTTTGTGGGTG
ACTTGATGTCCCCCTCCCACCTCTGGAAGTCCTGCCTGGCTATAGGAGGTGACCAGTTTAGTCTCTACATCCCCTGCTAGTAGGAATCTCAGCT
AGGGTGAACCCATACACTCCCCATATCCTTTCCCACTCCAAGCTTCCAAAGAGTCCCAGAGATGCCCTCCCCCATGATTTCCATTCTCACTCCC
AGCCCTCTACTGTCCTCCTCCCTTCCCACACCTGATCTCCATGCCATCTCCATTCTCTCTCTCACCCCATCTCCCACCCAGTTCCCTCTCTCCA

TCCACATTTGATAACTATTTAGTTTCCCCTTCTGAGTGAGATTGGTGCATCCTCCCTTGGGACCTCCCTATTACTGTGAGTTGTAGCATAGTTA
TCCTGTACTTTATAGCTAATATCCACTTATACGTGAGTGTATGCCGTAAGTGTTTTGTCATAAGTGGGTCAGGGCTACCTTACTCAAGATGATA
TTCTCAAGTTTCTTCCATTTGCCTGCACAACTCATGATGTCTTTGCTCTTAATAGCAGAATAGTATTCCATTGTGTGATGTGTAAGTTGTTTCC
AGCTTCTGACTACTATGAATAAAGCTGCTAAGGACGTACTTGAACAAGTGTCTTTGTGGAATGGTGGAGCCCCTTTTGGGTATATACGTAGGAG
TGGTATACCTAGATCTTATATAGAGCTATTCCCAGTTTTCTGAGAAACTGCCAAATTGATTTCCAAAGCGCTTGTAAAAGTTTGCACTCCCACC
AGCAATGGAGGTGTGTTCTCCTTGTTCCACATCCTCACCAGCACATGCTGTGGCTTGGGGTTTTGATCTTGGCCATTCTGACGGGTGTAAGATG
GAATCTCAGGGTCATTTCGATTTGCGTTTTCCTAATGACTAAGGAAGCTGAGCATTTCTTTAGGTGCTTCTCAGACATTAAAGATTCCTCTGTT
GAAAATTCTCTGTCTAGCTCTGTACCCCATTTTTAATTGGGTTATTTGGTTTGTTGGTTTCTAATTTCTTGAGTTCTTTATGTACTTTGGATAT
TAACCCTCTGTCAGAATTAGAGTTGGTAAAGATTCTTTTCTAATCTGGTGACTGCCGCTTTGTCCTATTGGTGGTGTTTGTAGCCTTACAGAAG
CTTTTCAGTCTCATGAGGTCTCAGCAATTGTTGACTTAGTGCCTGAGCCATTGCTGCTCTGTTCAGGAAGTGTACTCCTCTACTAATATGTTCA
AGGCTATTCCCACTTTCTGCATTAGATTCAGCATATCCAGTTTTATATTGAGGTCTTTGATCCACTTGGACTTGAGTTTTGTGCAGGGTAAATA
TGGGTCTATTTGCAGACAGCCTTCCTCTACATGCAGACAGCCAGCTAGACCAGCACCATTGTTGAAGATACTTTCTTTTTTCCCAATGTATGGTT
TTGCCTTCTTTGTCAAAAATCAAGTGTCCATAAGTGTGTGGGTTTATTTCTGAGTCTTCAATTCTATTCCACTGATCACCCTGTCTATTTCTAT
ACCAATACCATGCAGTGTTTATTATTATCCCTTTGAAATACAGCTCGAGATCAGGGATGGTGGCATGTGTGTTTCAGGAATAATCTGTAAGCTG
TGATATAACTGCTCCCAGGAGTGATGTCTAAACTAACTAACCCTGTGGGCCTGTAGATTTAGCCTCTGCGGTCATTGGAGACCATCACACATTT
TGGAGTCAGTTCTGTTGATAGTTTTTAGAAAAATGTTTGATTTGATCATTTATAATAGACTCAGATCCCAATTATATTCTATTCATGGAACCAT
CAAATTAATTTTTTGTATACATGATAGTAGTTCAGGGGATGTGATGTTGGCAGCACGGGAATATACGTTGATATATTAATCACAACCTCCAGAG
GTTTTCCCCCAATCTCCAAATAAGCTGAGCTGGAGCGCACCGTAAAGTTCCTACCAAGTAATAAGCTTAGCCGCCTAAATGCGTTACCAGTTTA
CTCTGAGTCTCCAAGCGGCTGAGTGCTAGAGAAGTGGCTTTGTGGCTGCACCTGTCACTAGTGAAATGACACTTCTCACTATTACAGGGGAATT
CAGGGTTCCCTTTTGTGGGTTCTTGGTCTCATTAATAAAAAGATGCTAAAATGGACTCGGGGCCAGCAAGGTGGCTCAGCAGTTAAAGTAACCT
GACAACTTCAATTTGGTCCCTAGAACCTGCATGGTGGAAGGGAAGAACTGAGTCCTGAAAGTTGCCCTCTGACCTCCACACCTGTACCATGGCA
CGCGTTCATGAGCATGTGTATACACACACACACACACACACACACACACACACACACACACACACACACACACACACTTGCACGCACACGGATTTTTTTTAAAG
AACAGATTCAGAAGGAAACTCAATGATCATTTTATTAGAGTTTGAGAGAAAAACAACTGGGTAGGCAAGCTATAGATCTCAGAAGCCGCTGGCA
GGAGGAGATGGAGAAGAAGAGAGAAACCCAGGCCATTTTAAGATGCATAAAAGCCTCCATGTTGAGCATTGGCATTGCGTGGCACCAGGGTGTA
GGGAATAGCATAGATAGTGAAACTGTCTGGAAGGTCAGTGAGCATTCTCCAGACAGTGAGTGAACTGGGAGGAAATGCCCCAAGGTGTTGGACT
GCAGGCACACAGCCCTTTAGAGGCCATTTCACAGCACACACCTCCCTTGTGTGTACTTTACACACTTTTTTTTATTTTAATTTTTTTTTTTGC
ACATGTTCTCTTTGTTAGATGAAACCCAGGTGGAGAAAGGCTTCCAATCTTTCTGTGCCAACTGGCTTCATTCATATGTTAATCTTGGTAAAGC
AATTTTAGCATATATTCGCTTACCAGATTGCCTCACCCTCACATTAATGGTGAAGTGGCAACTTGCCCTTCTAGGAACCCCCATTCATCACAAG
AGGGCCTGGTATCTGCCACACTGGTGGCATACACTGCAGAGAATGGCTGTGTTGAGATGTGTCACTGCTCTTCTGCCCCAGGACAGCATCTGTG
ACGCTCTACAAACCAGTGGGTTTATCGAAGCCCCTGTGCGTTGTAGATTAGAAACTGTTGTGTCTAGATTTTTCCCGTATTCTACCCTTAGTTG
ACACCAAATCAGATAATTACATGAGTCTTATGTATTAACTGTTGTAATTTCTAGAAAAAAGTCAGAATCCAAAAATAATTGTCTCCTTGTGGCA
AAGCAGAGGTCACTTCGGCGTATACCTTCTTGAAAAAGTAAACTCATGCATGGTTCACTTAACAACAGCTTTGCTCTGAGACCGCCAGTTTATC
CTGTGGTCCTCAGTGTGCACTCACACAGCCCACGCACACTGAATAATGTCATCTTCTGGAACTGGTCTGAATTCTCATTAGATCCGTGTTATCC
TACATAATCGTCAAAGCCACATAAAAGAATAAACGCAAATGTTCCCTCTAATCTAGCCACAAAGATACAACTCACCTACATCAGGTGCTTTTGT
GTGTCCTTCCAAACTGTTTTTATCCAAGAATTCTAACTTCATAAGCCATGCTCTGCACTGATTTGTACTGAAGATCTTGGGGGCACTTGGAAAT
AGCAGCACTAACCAGACATCATCTTACAGGACGAAGAACTCCTCTTTCACGTCTTCCCTCCAGGTTCCATTACTCAGCTTTTACACAAGACACA
TGTGGACCTCCCAGTATCCTTATCTAGAGGATGCTTCTGATAGCCGTCATTCTCAACCCTACATTCGATTTAAAAACCATATTGGACGGACTTG
CAAAGCCTTTGCAGCTCCTGGGATCATAAAAGAAAGATTGGCTCTGTACAGATGATTTTAGTGTTAGCTCCACTGGCTAGGTCTGGTTACTTTG
AAAGTCATACTTAATGCACAATAAGCCAAATTGATGGGTATGGGGAAGGCTGACTTAGCTCAGTATTATCCACAATCTAGACAACACACCCTCC
AGTAAAACTCTAATTCCATCCAAGTGCCTGCCTTCTCTTGTTCTGATCCAAAGCTTTCCCTCAGCTTTTCCTTCTAGTTCCCCTCCCAACCTCA
AAAGCAGTGTCTGTTCAGAGCGCTGGGCTCTGGTGTGCGGCTCTCTTACTGCCCTGTGAAGTGGTTTCCACTTAAGGGTTGGGGTGACGCCTCA
CACTTAGACAGGGTTAAGGAGGTTCTAAAACACGGAAAGAAAGACCAGGTGTGACTTTAGGGGTTGCTTAAGCCTCCAGAGTAGTACCATCCAC
AGTCCTTACCTTAGAATAGGTATTTAGTAAGCAGCTGCTGGATGCAGTTGGGGTTACAAAATGGGTCTTTGGAAATTTTTACCTTTCCGTGTAT
AAGACAATAACTTCCTTGAAAGGGAAGAGTTATTTGCATCCCTTCAAATCCTGTGTCCTTCGTGGAACATAAACTCTATATAGGTTGATGTGAA
TATTTCTGTGGCAATCAGGTGGTCAGGGAACGAATGCTTACATTCCACTGGGTCTTTTTTTACTATCTGCACCCAGCAATTGATGGCACTTAAG
TAAATATCCTCAATTGTGTTTGACATCCGATTGGGTACAGGTGTAGGGACAGGGCAGACAGTACCTCGATCCTCCCTGGTGAAGGAGTTGCTAA
TACTGACGAGACTTGGCTCCTTCGTTTTCGATTTGGTTGCTTCACTTCACTGAGTCACAGCACCTGCCACTTAGGATGGCCACACGGCTAAGCC
AGAAACCTTCCTTCAGATTGCTGGTGACATTATATATGAATCTCTGGTGACATTCTCGGCTGACATTTGTCGCCTGATCTCAAGTGCTTGCTAA
AAGTGAGTTAGCTTTGTCATTGACACGGAGACTAACTTTCTCTAACCCAGACTAGTGAAAACTGAATTGTGCCTCACCACACGAAGGTTTTGCT
TTCACTGTGCCCAGACCCTCCCATCTGTCACAGCACAGTCATTTTGTGTCTGATTTGGGGGCGGTGTGGTTGTTTCTCAGTGGTGTGTGACCCA
CTTTTTCATAATACTTCATTCCATGTGTTTTTACAACACAAGTCAGAAGCTGACGAGAGTGGACTGAAGCCCCAGGAGCATCTTCTGAGGCTTT
CTCGCAAGCTCTAGAACCACATTCTAAGAAGAAGGTCTTAGCCCTGCAGGGTGTGCGTCCCCTACCAGAGAGTGATGGGCCAGTTCCTCTAGTT
TCTGGATAATGAGCCAGTGCACAGGTAACGATGCCTTTCTCACGGTTGATTTCTTTTGTGTGCCAATTATTTTACCAAATTAGACCTTTAAAAA
TACTAGCCACTTACCTGCATAGCTTCTCTGTTGGGATGGGGAGGGGCTCAGGAGAGTAGACATTTTCATTGATACTTTGAGACCTTAGTAACTT
TTCCTTAAGAATCTGAAGGAATCAAAAAGTTATCTCTGTTTTCTGTGTGCCCCTAGCAGACGTCCTCTCTGATGGTTGGTTGTTTCGGTTTGGT
TCTACTGCTTGTTGTTGTACTTGTCTGCGAGCGTCAGATACCTCACTCCGCTGTGACATCTGGGTGATAGTTAAACCTTGATTAGCTTCTGCCT
GGGGTATGGGCAACCTGTGGCGAGAGCAGACAGAAAGCTTCAAAGAAGAGAAGGGCTAATGAGGGTCCGATGTGTCTTGCTAGACACTGGCTAC
TGCAGGCTGGAAGCAGACAGAAGCCAAGTGCTATTGGCTTATGTTTGGCAAAAACCATTCCTCAACACCTGTTTATAACTTTATGTTTCTGACA
TCACAGCTGTTAACCAGAGGATTCTTTTAAATATCGTCGTTTCAAAACAAAATGTTGAAGGTGTCACCTGTCCTAATGTCACTTATCCTGATTC
ACAGGACAGTTTTTGGTGAACATTTATTTACCAGGGTCTGTCTGGCTTGTGGCAGTATCATCTGCACACTGGACTGCATACCACCTTAAGATGT
GGAGCATGCCCAGAGATAAGTCAACCTTGTTTTCCATGAAAGTCCTGAGACAGAAAAAGAATGAAAGTACAAACAGTGACTGGAAAAAGTGTCA
CACACTTGAGCCACTTTGCATCCCTTGTTAGGACAAACCCTGGGCTGGGTTTTTACATTCGTGAAGCTGTGCGGTAGGTGGATCAGTGTGGGAG
GTTCAGAAAGAGTAGCGGTTAGAATAAGATTTTCCATTTATTGCCCTTTGTGCATGGCTAAAAATAAGATTCATACAAATCAGAATGTGTAGTG
CAAGCAAAATCATTCTGTTAATTCTGATGACTGGCCTGCCCACATCTTTGCATCTGTCTGTTAAGTGGTCCATTAGGAAATAAATGTCTCTGTT
TAAATAGCAAAGGCAACCTAGGTTTTTTTTGTTGTTGTTTTAATTCTATTTGTCTACACATGATAGTCTGTCATTTTTCCTCTTCTAAAGGAAG
AAAGTCATAATTCACACATACACGAATTGTGTTGGTGACTGAAGTGGTGAGATCCTTGGCTGTGTCTAAAAAGTACTGGCCTCGTTTGAAAGGT
CAATTTACGGTGTCCATCTTCAAGGCTTATTGCTAGAAAGTTATCTCTCATGAGCCCATACAGTGGTGAGGAGAGAGGGTCACTTAGCTGTATT
GGAAAGTGGATGAGAACATGATCCAGTGCACACCCGTCCTGCAGCGAGCTCCATCAGCACAGATGTTGGGAGGAGCAGTTGACCAAGTGAAAAC
TTCCCTTCATCTGGCTTCAGAGTCTCCTGCAACCACAGTAAGTGATAATGTCTCCATTTGTGGCTAGACGAAACACCAAAGAGAAGTGTCGGCA
GTGTTCACAGGGAAATTTGTACCTCAGTGATCCCAGCATTGATGCTGTCCCATCGCACCGACTGAAGAGCGGTGGCATTTCCAGAGGTGTGTCT
GCAAGCGCACCGAGCCTTTCAGTTTGATGCGGTCCATGAGGTAGATGAGTCAGGATGCCCTCTTCACGATGCATCGTTCAAAGGCAGTCATTCA
GAAGCCTTATCAATGGGAGCGGCAAATCGCACTCCTCTGACTGTGACGGTCCCCGTGTGCCGCAGCTGAAGCAGGAGCGGTGGGAGACGACAGA
CCCCTGCACAAAGCTTAGCCGGGAGACCCACGCACCTGGGCCCATCCACTTCTCCTCCTAGACCTGAGCATCCTTATCTGGAAATGAGAAAAGG

SAGRES DISCOVERY 02-02

TGCAGTACCTGCCCCGACGGGTGTCTGTGGGATTTGATGAGGTAATGATGTAAGATACAGAGCCAAAGCTGTGCGCAGTGCGCTGTGCGCGTGC
GGCTGCTCATTCATGTTCCCTCCTGCATCTCGAAGGTGTGCTGGAGCACGGCAGAGCATCCGAGGTTCTCCCGTATGTGTACAGTAGAAATTTT
AGGATTTAATACACAAAGGCTCAGCCTCTGGGTCTTCATTCCTCACTTAGAAGGTGAGAGCATTTATAGAGCAGTTTCTTTTTCTTTTCTTTTT
CTTTTCTTTTTTTCATAGCCTGCTAATGCTGCCTGTCAGGTGATTTTACTTTGTAATGACATGGACATGGTGTGCAGCCCTTCCTTTGTAGATT
AGCACCGAGCATATTAGGCTATTTTTATCCGCACACTATGCTTTTCATTTAAACCCGAGTATTTCAGTTCTAACATCTGTGCGTGTTAGGTGTA
GTACCTGCTGGTGTACATTAGGCGAGCGGCTGCGCTAATGCTGTAATCAAGCGAGCTTTTAAATATTTCAGGTAGGAACTAGCAAAATCTCAGG
AGCAATTAGCTTCCATTGTAGTTTCGCTCCCTAGCGAAAACATTGCCTACGCAGTGCTGATCCATCATCAGGGTGACCAACGCTAACAGGCAGA
AGACAGTCAGCACTGCGTTCATTAGTTTTTGTTAATTATTTTCTGTTTCATGTATATGTGCCCTTCTCTGTCTTTTTCCTCCCAACAAGGTTTT
CTATTACAAGTTAAATATTATTTTATAATGTAAGGGCATAGCTATAAGCAGCACATAGCTCGTGGTCACCCTTTCGAAGCCTTGGGGTTGGACA
GTGAGAGTTCAGACTAGACGTTGCTTCAGCCTCCTCTGTGACCTTCTGGGATGCGGTTCTCATTCATCAAATTAAGAGAGAAATTGTGACAGTA
CCTTGACTTTGCCTCACCTGGGGCGCGATGAAAGTGATGAATGGGAGCAATAAACACAGAAGTTACAGCACAGCCCAGAAGCAGCGAGGGTTCA
CTGTGAGCAGGGAACGGATTTTAACTGCAGAGTCCCTTTTCATGTTGATTCTGCCATCCTAGGTACCAAGGCTGATTGTAGCATACATATTAAG
GTCAGCAGATTTTCTGGGTTTCAGTGTTAGGACCTGGCAGTCTGTAGTGAAGACAGACATTCCTCAGGTTAAGGACCAAGATGGTTTGCCTTTT
CTTACAGCCATATCTCATCCCCCACATTGTATCCAGGCTGTGCTTTATATGCGTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCAAGAAA
ATCCTTTTCTTAAGAGATTCTTCTTAAGAAGAATCCTTTTCCTCAGAGAAAATCCTTCCAGGTGACTTTCAGAGTTCCTGGCATTACAGTGCAT
GCATGCACAGGCACACACGCACAGGTACACATGCGCACACTGGCACACAGTGGCACACACATGCACACACTGGCACGCACACCATTACCTTTGC
CAGCCTCACTGCACTTTGCCACTGAAGCGTCTATGAGAATTATAGACTGGAGAAGGTGATAAATTAAACTCTGGCTGTGATTTCCTACCTCACC
TTTGGGGGGGGATGACAAAGGATCTGAAATTCATCCGGTTGATACACTCTACTTCTTCGTATGTAACAGTGGTTTTAACCTGTCCTTCATGTGCA
GTTTGAGGGTAGTGGCCAGGCTGGGCCCATTATTCCTTTGGTTGAATAATATAAAGAATTTGCAATGGAGATTACACTAATGATGTATTTTAAG
TGCATGTCCGCATTGGTAGTTTAGTGCTCTCAGTCATGAAATGCTTTGGAGTTTATTTCTAATGGGTAAATGCTCAGAAAAACTGAAATTTTCA
ATAAGATTGACATTTGGAGTAAGAAATATAAATCTAATGAGAGCATTTCAACCAAGGCTTGTAATTAGGGCTGAATAGAGTAAATTTATACATG
CTCGCTGCAGAAGGGCACGGCGGAAGGTGAAATTGCATGCTCTTCTGTGAAGGAGCGAGGAAGGCCAATGTATCAGTGTCAGGCCGTGACACCA
GAGTATAAATGACACTGTCACCAAGTGCTGCACTGGGTACCAAGGGAATTCCACTCGAGTAAATTACATTACTTAGACAGACCTGAAGGCACCG
TGCTGGAATGAGTGCAGAAAAGGAGAAGTCTGTCAGCACAAAGCTGAGAACGTTGCCATATAGCCAACTGCAGGATGCACAGCGCTGGCTGTGT
GGGACCTGGAAGGGACAATGTTCCGGTCTGTTGTTAGCTTATAGACGTGACAGATATGTACAGTTGACCTAGAGAATGGGTATAAGCTGATTTC
TGTGATCTGGTCAGCATTGGGTTTCCCTTATTATTTACAGTTGGGTGGCAATAGGGGGTCAGTGTACATTTGCCATTCTTTCTTTTTCTCTGTT
GTGAGAATCTAACCCCTGCCCCCTCGGTAGCACTGTTCACCTCATTTCCAGCCCCACTGTCATAAAACACATGGTCGCCATGGTCAGGTGGAAT
GTGTCTGTAATCCCACCTACTGGAGAGACAGAGGCAGGAGGATTGCATAAGAACTCTTTTTCTCACACTGTGTCTTTCTGAGAGTTGATCTGTC
TTAGCGTTTCTGGGCAGGAACTGGGAGAAGAGATGAAACATCAGTGATGACGCCATCTCCTCTCCTCACTTACTGAAACATGCGCTGGTCTCCT
TTTGTCTGGCTGGGATGCCAGTCAGTCCCTGAAGAAGCCAATCACAGGGACTCTAGAATCAGTCACTCACTCCTTGGCTAGGAAGTAAATTGTC
CCAGAGAGAGTAGTCTGAAACATCAGGGTGGCTTTCTCAGCCATGTGTCACACCTTATCCTTCTTGAGACACCCCTAAACAGCCTCTTGGGGGA
CACGCTGCATGGAGAACATGGACTCTGCAGGTTATCTCCACACGGGTTACATGGCAGGTGTTCCGCCATCTTCCTAACACAGGGCACATTGGAC
ATCAGAGGTGGCACTCAGGCTTGAGTTTTAGTCTTTCCAAAATAATGCTGTGTCAGAGGTGGAATTTCATCTGCGTTTTGTGCCTGTATAGACT
TTATTCATTTAATCATGGGATTTAGGAAAGCCACCTTACTTGGAAAACTAGGTTTGAGGGCAGGAGAAGAGAAAATGACATATTTTCTAATTTA
TTTAAGTATACCCACCTTTAAATTACTTCAAGACGCTCTGGTGCAGCTCAGAGGTAGAGTGCTTACGCAGGACATGCAAGGCCCTAGGTTCCAT
CCCCACTAATGCATAGGTATGGGTGTCAGTCTGGGATTCTGAAGTGACATCTGCGTAAAAGCTTCACACGGTGTCCATGTGAAGCCTGAGCTCA
CTGAGCGCTTACTCATCAGCCGTGGGAAGTCAGCCTCGCCTGCACTGGCATGTCCCCGTTTCCATCGCATTTCACTTGTGTGCTCCACAACATC
AGTAGGGGAATTGTATGTGTGTCTTGGTGTTTACTACAAAGTTACTACGTGACGTTTTTCCCCTGGCTTCTCCATGACAGCCTGCTACCCGAAC
TACAGCTCTGAGCTCCTGTGAGCTGAACCCTGGTGAAAGAGCTTTGACAGCATCTAAAATGTTTGGAGCCTCCCTCCATTCTGAAGAGCCTCCT
TTGTTCCAACTGCCCTACCAGTGTTGTTGTTGTTGTTGTTGTTGTTGTTCTTCTTCTTCTTCTTCTTCTTCCTCCTCCTCCTCCT
CCTCCTCCTCCTCTTCCTCCTCCTCTTCTTCTTGCGTCCAAATTGGAAAGGGAGCAGGGGGCTCTCCTAAGGAGGAACGGGTCTGTGGAG
GATTGCGAGCACTCATTCAGAAGCTATTCTTAGTTCCCAGAACTATAACGAGGCTGGGCTTTTTGTCCTGCTGAAGCTCCATTAAGGAACGATC
CCTCTACCTGCCACCTGATTCTGTTTTCCCCAAGGACGCCTGGTGTTTTCTTCCCTCATATTCTGAATGGACTGGCTTCTGAGTCAGGCGCATC
TTGCAAGGCAGTGAGTCCTGTTGCCGTGATGGCTCACCTACTCCTCAGCTGTCCTCTGAAGTCTGCATTAGCAGCGCTTGCTGCAGACCTGGAT
TCATCGTCAGAAGTCAGCCTGTCCACGGCAGCAACTTACCCACATTGTCACGCCAGTGTTGGCAGCTGACCACTGCTGCCTTGCACTGCTGTGT
TCCTGGGCTCCCACTGCTGCAGATGAGAAAAAGAATGCAAACAACAGAGTCCCCCACCAGAGCCCATAGCCATGTTCCAGAGGACAGTGAAGTC
ATTGTTCAGAGGTGACCTAAGGACGAAAGCATTTAAACAATAAGCCCTCTTGTGAGATGTGGTGAACTATGCACTGCAGACATTGTGAAGTCCT
CTGTCTCGGGGAAGGCAGTTTCTGCACGGGTTTCAATACCTTCTTGACAGCCATTTAGGAGAGGAAAGTCACTTGTCTCACAATAGCATCCAAG
CAGTTTCTGTCCTAAGGAACGCTAAAGTGTGTTCCTTTATATAAAATACACACTGTAATTTATAGAAATCACAGTGCTCCATTGAATTGCAGTC
CCCTCCCCCTCCCCTCCTTACCTGAAGTAGAAACTCCATCTGTTTGGTAAAAGCCTTCTTTCTTTGAATTTTCTTTTTATATTTTGTGTGTGTG
TGTGTGTGTGTGTGTGTTGTGCACACACATGCACATGTCACTGAACACGTATAGCGAGGTCAGAAGACAACTTGCAGGAGTCAGTTGTGTCCTT
CTCCTGTATGTCATGGGGATTGAACTCACATTGTTAGGGCTGCTACCAGGCCCCATATTGAGCAGCTCGCCCACCCCTCTTCATTCTTTGAATA
ATATTTATTTCTTCCAAATGAAAAAAGGGATCCCTTCGGTTGCTTAGATTCCTAATGAGGCTCTGAGGCTTGATAATAATCCTCGGAACACCTT
GTCACTGTTGAAGCATGGGAAAAGAGGAGCCCTGCTTTGAATTTAGTTTCGTTTGGATTCATTTAATTTAATATTTTTTGGTTTTGTTTTTGCA
TTGAGCCTTTAAGGGAGGCTTGGTATATAGACATATACCCTTGTTAGCTCACACCAGTATCTCTGGCAGAACCCTGGAATTGTTTCCGTTTTGA
TGTTGAATATATGACTTTCCGTGATGGTGGAGGGCGCGGTGCATATGTTGACTGGCCAGAGGTGTTCTGTCACGATATAAATGTAGGATTAAAC
TATTAAAATTGCCAATTTGATGTGTTTGCAGATCACTGTATACAGCACCATTGCAGAATCCTCCTAATTGAAGAAATGTTTCATCTCTATCTCT
GTTGACAGGAAGGATCGCCTCCTGATAATTGCTTTGCTTAAGTGTCTGATAATATGCCAGGAGTGAGCGCATTCTGTGTTAGGTCATCTTTAAT
TATGCATGTACCACCTGTCAGCTCTAAATCAGGATCAGATCCTTGCAGAGTCACTTTGGGGAGGGTCGGAGAGAAGCCAAGGTGATCTC
TTTGAGAAACAACAGAAATAGCAGTAAACATTTCTCATCACCTGAAAGCGCCTCGGGGGCATGGCTCATGAGGCACCAGCCACTGGCACATCTG
AGAAAATCCGAAATCTCACCCAAGCAAGATAAATTACCTCGGAGACAAATTACGGAGAGCTTGGAAGTGCCCCCTCCCTCCCTCCCTCCCC
GCCCGCCATCTGTGGCACTTCCTTTTTATTCTTTCTCATCCTTGTAAAGGAGCCAGGGAGAAGCTCAGACACATTTTTATAAGCTACGTGAGGA
CAGGAAATATGATAATGATGTTAGATTTCATACATTTGGGGGATTTTTTTTTTCAGTAGTTAGTTGGCTTTTTTTAGAAGGACAAATTGTGGGTTG
GAAGAAATGCTTGCTACCCTCTGTCAGCTTTTAGTAGTTTTAGTCTCACTTTTCAGGGCTGTTTGGGACTTTCTGGAGGGATGTTTAGGGTTCT
TTACCGAAAGTTCTGTTCCCTCCACTAAGAGGTGTTTTTCTCTGTTCACCTGTCAGAGGCTTAAAGGCAGAGTGAACACACGTTCACTCTTTCA
TATAACAGGTGGGCTTGACTGACTGCAGAGGGGCAGGCAGAGAAGGGGCAGGCGGAGAAGGGGCAGGCGCAGGGAAATGACTGAACATGCTTTA
TCCCATTGTGCAGCTCTCAGAACACAAAGGGGAGGCTCCAAGCCTGACGTTCTCCAAGCTGGGGGGGTGGGGGGAACGCTCCTGAGATGGCTTT
GCCTTTGACCCACTTTTGGAAAATCCTGAATTTCTCTATGTCAGATCCAGCTGAATAGAGGGACAGGACCGCCATAAAAGTGGACCTCCAGCCC
CACAGAGCATTGGGTTATGACTCTGAATCCCTCTTCACCACCATCCAGTGCCTAAGGTGACGTTTACTGCAGTGGGCATGCATCCAGGTAGCAC
AGAGTAGGTCTGACACTCACTCTCCGGTCCAGCGTTTGTCACTTAGTGTGCAATTGCACAAGTAAAAGTTACACAGGACTGTCAGCTCCACACA
GCGCAGACTTCTCTCAGAAGTGACTGCAACGTGCCCATGCCCGACAGAAGAAGATCCCAAAGTTAAGTCCAGGAGAACCGAGAGAACGAACCAA
CAAGTAAAAGCAGTGCCACCATATTTTCTCATCCCCGCTCGTCTTTGCCAAACCCTTTCCATCTGCCTGGGAAGATTGTGTGCTCTCTCCACCT
GCCTGACTCCTATTTTGAATGTTATCTCCTCTAAGAAGCATCTTTAAATTTATTCTTTTATAATTTTATACATGTATATAGTGTTCTTTGCTCA

ACTGCCCTCCCTCCCCAGTTAACCCTCTCTTAATGCCTTCTCCCATCACCAAATCCCTTCTTCTCCTCAGGCCCCCCTCCTGCTTTCATGCTTT
TGTGTGCGTGTAAGACGCACTGCATTTAATTAGAGGTGAACATGAGTGAGGTCATTTGCTTGCACAAGAGCAGTGTGCCAGGCTCATTCACAGA
GGAATATGATTGCCATCTCTCTGTATCCTTTAGCTTATTACATCTCCTTTGAGAGTGGCGAGGCCTTATGAGCCTCTCTCGGATCCATGATGGA
GAACTAACTGGTGGGCCCAGCTCTACGAGGGCAGCCACTGCTGCTTTGAGTCCATAGGTGCGATGGCCATGTCCTGTCCCCTAGACAACACCTA
TAGTACTCTTGGCATCTTCCAACTCTTACTTTCTTTCTGCTTCCTCTTTCTTGGCATTCTCTGGGCTTCAGAGGGATTGATACACATCTCCCAC
TTAGCTGAACATTCAACAATCACTCGTTCTCAGCACATTGACCAGTGATGGGTCCCTGCGTTAACTGTCACCCATGTGAATAGAAGCTTCTCTG
AACAAGGCTTAGAGCAACGCTAATCTGTGGATGTAAACATAAATGTTGGGAGTTCAGTTTGAACAGCCAGGTGTGGTGACACACGCCTTTAATC
CCAGCACTCGGGAGGCAGAGGCAGGCATATTTCTGAGTTCGAGGCTAGCCTGGTCTACAAAGTGAGTTCCAGGACTGCCAGGGCTATACAGAGA
AATCCTGTCTCGAAAAACAAAAACAAAAACAAACAAACAAACAAAACCATGCAGTTTGACACTGTGCTCAGTTAGCAAAGAAAGTTCCCC
TACTGGGTCTATGACTGCCATAATCATGGAGTTTGATGAGGTTTGTAGAACTAAGTATGAATTCCTCCTACAGGGAGGCACTCAAACCCAATCA
GAAAGTAGCTGGCTATCCCTAAAACAATTACACCACTGTTGCAATGGTGGGCATATCTTGCCTAGCATGTTGGTAATATAGTTCAGAGGTTCAC
AGTTAGGTAAGACCAGTGGTGACTTTCTTCCCCTGGCAGCACTCTACTAGCCAGCAGGAAGGAAGCTTCCAGTTCAGTTCCAGCTGGATTTCTC
TCTGTTTTTGCAATCAAAATGTGTGATGTCCTCAGCAATAGGGTCGAACCATCTGCTTCTGGTGGGCACCCAAGAGGAATGACAAGGGCCCCAG
GGATCCCTCTGATCAACAACTAAGGAAGTACCCTATACCTCCCACTGGGGTTTTGTCTAATAACCAATGTCTTAATCAACATATTGTTTTCTTC
CTCCTGCCCATCACCAAGTCCCTAGCAGACTGCTTGTCTGGCTTTATCAGAGTTGGTCATAGTATTCTACAAAGTATCCTTTATGGAGTTTTCT
CTGGGGAAAAGAAGATAGCATCTTAACTGTGACCAGGAAGCTCCAGAGACCAAGCAGTAATATGTGGTCCACAGTCCTCAGGTTACACTAAGGA
TATTATGACCATACATTAGAGAGGGACATACACACATGTGAGCGCTACATGCAGTGCACAGTGCAGGGATGAAGGACTGCGCCTGGGGAAGAGG
GAGAGGACGGAAGCCACAGTGGCTGTGTTTAGATAAATGACAGACTTGCTTAAGAGATGGGCATGATACAGAGGAGATTTTGGGTTAGAACATG
ATTGGTTTGCTTGTAAAGCTAGCCTACTCTGGAACCGATGACTTTCTTTGGTAACAGTGGCTCTCGTTTCTAGAAAGAGAGTTTATGTTTTAGG
GTTTCTATGGGGTTTGAGAATATAAATTTCTGGGCTGTGGGGGAGACACAAATCAGATAACCTAACACTGCTAAGATGGAGTGTCCCTGTTCCA
TGCAGCCTCCCAGCCGGGATGGAACACACTCCTGACTTCCATGTTGTATCAGTTTGTCTAAAACATATCCATCCACAAGCTGCAGGCTAGAGGT
TGGGATGTGATGGAAGACTTCCTTTCCCGATGAGGGTACTGTGAGACAGATCAGCACTCAATCCAGCCACAGTGCGCATGCCTCCTGGCTCCTT
GCTCGATGGGACTGAGAGCAGCTCCTCAACACTTGAACCCTCCATTCTGTCCAGGAAAATACACACACTATTGTTCACCTCCTGGGAGTTGCCA
TGAGGGTTAATGAACTCCGTGAAGGGGCCACCTCAGAACCCATCTGTCACCAGTACAGTGGACAGAAGAACTCCTGTGTGTAGGGATTGCGGTG
ATGAAACAGTGTCATGTAGAAAAGTCCCCAGCTTGGAGATGGATAAGGCCCTCCTGGTTCAGTCCTCAGCCCTACAGAGGAAGAACAAGAGACT
CCCAGCTGCATACCCGCTGCAGAGTAGGTTCCTGGGAGTGTTGGCTTCTGGGAACAGAGGTGTTCCCAGCATTCCCTGGGACCTGCCAGTGACC
TGCAGTGTGCGGCCTCTCTGCTGCTACCTGTTATCTCAGCCCAGCACTGGCCACATCTCTCCTCCTTCACTCCTTCCCTCTCTACTTCCATCTC
ATCCCAATCCTTCTTTCTTTATTTCTCTGACTTCTCTCTTGGCCGCGTCTTCTTTTCCGTGTAAGATTGTTCTGATGACCCCAGCATGTCAAATG
ACTCTCGGTAACTCTTTTATTCTATTGTATTAATTTTTTAATTGAATGTATAATCAAACCTGGGTCCTCTAGAGGGGCAGCAAGTGCTCTTAAC
CACTGAGCCATGGCTCCACCCCCTACATATTTGTCTTATTTTGCATGGTTATGTGTGTGTGTCCTTTCTCTCTCTCTCTCTCTCTCTCTC
TCTCTCTCTCTGTGTGTGTGTGTCTCTGTCTCTCTCCCCTCTCTCCCCTCCCTCCCTCCCTCCCTCCTTCNNNNNNNNNNNNNN
NNNNNNCCTCCCTCCCTCCCTCCCTCCCTCCTTCCCTTCGTCCCTTCCTCCCTCCTTCTAACTCCCCTCACCCCTCTCTCCATGGGGGTGGGGT
GTTGTAGGTGTGCATGCGGAGGTCAGAGGAGAACTCAGCGGAACCTGGAGCTAGAACTAAGGTCGCCAGGCTCAGCAGCAGGCATCTTTGTACA
CTGAACCATCTTCAAGCCAACGTTTTTAGTCTAAGCAAGAGGTTTTTTGTAGCTTTGGAAGGAGGGAAGAAGATGAATCTTTTCATGTTCCTCT
AGACTGCCTTCAGTTCTTTTTTCCCCCTGTGTTGACATTTCCCCTTCTCTCATCCCCTCAGCCTGTAGTCATTAACTTGCCAGACACTCAGCC
ATGGATTGTCTTTATGACGTTGCTGAAGTTAGGAGCGTGTCATTCACAGAGAACCTAACCCATATATTAACTCAGGCACAGCAAATTGCTAAAT
ACATGCCTGTAAGTCAAGAGCTTCAGGATGACAATCCAACCACTCCTATTGGAAGGGGGTGACTGAAACAGACTGGCAGTGGGCAAGGGAGGGT
GAGTTTCTGCCACAGAACTGAGCTGGGGCAGAACACTGCCCTCTGGACACATACAGGGGCCCCAGCAGAGCATTTCCCAGGACGTGATGGCGAG
GCCCCAGTCTAACAGGAAGTCAGTGGGCTCCTGCCAGCCTCCACTTGTTCAGTCCTTGTCCACAACTTGAGCATCCACACCACGGCTCATTCCT
CCTCCTAGTCCCACTGGAATCCCTCTTACTCCTCCCAGGGCCTAGTTCAGTAAATGTCAGAGTAGCTACAAAAGATGAGCGCTGCATTAGATAC
AGTGCCCAATGGATACGTGAGACCAGATCCACACATGCCGTACAAGTGTTGAAGAGCATCAGTACATGTGGAAATGGGAGCAGCATCTAGTGGG
AATCATGAAGTACCCTGATCCACGTGTCTGTGCATGGATCAGGAATGGTGCAAGAGAAGCCACACAGAGTCTGGGGACACAGAGTCTGGGGACA
TGCAGCTCTTCAAAGCTTTTGTTACTAGTCTATGCTACATTTTATTTAAGAATGTTACTTTAAATTTACAATCATTTTTAAACTCTGAATCAGA
AGGTGGTATTGGTTCTCAGAAAGGAAGACAGCGATCTATTTTCCCAACTCTTGGAACATGATGTTCCTTTGGGAGCCAGTGGCCTGATGAGAAG
CCCAGGGCTCTAGGTGCTGAGGTCATTACCCACACCTTATGACTCAGTGTCCCCCACACCCCAGTCTGAACACCTCTGTGAGTGGTGAAGGAAA
GAGTCCTGCCTTCTGTATAGCCCTGGGCTTTGCCAGCAACCTCGTGAGAAGAGATGTCTAGGAAAACACACAGAAAGCAGGGTTGCTGCATGTA
TGTAGAATCTCACTACAGAATGTAAAGCTTCGTGCTTCTCAGAACATTCACGTGTTTGTAAAAGCTTCATGCAACACTTGAGGTCAGTTGCTGT
GTGCAGTCTAGTCAGCCACCAAATCCATGTAGAAGAGGCTTTTGTTTGGCCTCTTTAAAAGAGAAGTAACTGCTGATTTTTCTCAAAATGTTCT
GACCTTTGTCTTGTTCACAGATATTCATTTTGTTGTTTGGTGTTTTTGTTTGTTCTTCCTAAGCTGGTGCAAAGGCACCCAAGCTTTCAG
TTGTCACTCTTCTTCCATTTGCTGCTCTGGCCTGAAAGAGTCACCACAATGCTTATAAAGGGCTTTCAGAGTTCAGTCCCCACCTTCAAGCAGA
GGACTCAGACAGATTCAGATAGCTGTGCCGTGCGTGCAGGTGGTAGGTTCCAATGTACTTGGGGCTATGGGCATACTTGGTAGCGATAACAACA
TTTTATAAAGAACAATAAGATGCCCCAGGTGTTGTCTTAGTGTGTATATCTTTGTATCTGCCTTGTGCTCCTATTCTATGCCAGGTCCCTTGAG
AGCAGGGGCTTCCTGGTTCCGCGCTGTGTTCTGTGGTGCCTTAGCAAATCGATGCTTAAACAAATATGTTCTGTACCAAGCTTAACTTTTATCT
TAAAAATAGCATAACAGTTTTTTAATGTATTTCATTTCATAGAAAAGCAGAGCCTGGATACTTTGCAGTATTTTTTTAAGTCTTGGCAGGGGAA
ATGCTAAGTCATGAAAAGTTCTCAATCATTGTAGAAAAAGTGATTTTGTTTATGCTTTGACACAACAGGAATGGAGAATTTTTCAAAGAACCTT
GGCGATCACTTGCTTAGATTCTCTCGTGTAGCCGTAGTACCGAGAACTATGCCTGACATTTAAAGGAGGCCTAATAGATATTTGTTGGGTGTTG
GAGAGATGGCTCAGAGGGCAAAGGCATCTCTCACCAAGCCTGACAATCTGAGCTCAGCCCCAGTCCACAGCTACTAGAAGGAAAGAATCGACTC
CCTCAAGTTGCCCTCTGACCTCCAGACACTTACCAAGACACGCATGTATAAAATGTAATGATAATTTTTTTTTATAAAATACATTTGTTGGATG
ACTGAGTAAACAGCTAGTGAGCTGCTCCTGTGTGCTAAGTACCACATGTTAAATTCTGGAGACTGAAATAATAAATAATGGATTTGCATACATA
CCCCAGTACTTTCTCCCTACCCAAGAATCAATGTAGGAGACTAGTGACCCCTCTAGCCATCCTCATTCAGTGTGAGAAGGCAATGAAGATAATG
CAGAAATTTTATTTTTGTTGTGTGAGTGTTGTTAACCAGATATCATGGTTATCACTTCTAATCCCATAAGAAAGTAGAAGGCTGAGGTAGAAGG
GTTACACGTTCAAGACCAGCCTTGGCTACTTAGCAAGACTATGTTTTAAAGGTCCAGTGGCTGTGGACCTCAGTATAAGAGGACTTTTATCTCA
GTATAAGAGGACTTGCTTCCCGAATACAAAACCCTGAATTTGATCCTCAGCACTGCCCAAAGAAAGGAGAAAATGTTATATCGTGTCCCTGAAA
CAAGGAGAAACAAAGAGTCGGCTTATGTCACTCTCCTCTTACGCCTGTCTTACTAACCTTTGTCCCAAGTTGTTTCATTTTCTGGGCAAAAGGG
GATCAGGATTGCCCCAAGATACAAATGGTGCTAAAGGTAGCATGGAAAAGCTACACCTCAGACTTCCAGGCCTAGGAACTCCCAGGTAAGTTAG
TCAGGCTCTCTAGATGAACAGAGTTAATAGATCTTACGGGGCATCTATCAGATCAGCTTCCACAATGTGGACTGAACGGTCCAAAGTTGACGCT
AAGCATTCTGGGAAGGCACTTGTACAGGAAACTAATGAGATGGGGCTGAGGTGGGACAAAGACGTGGTCAAGAGGAGGGAACTACAGTCAGATA
GTTTAGCCTTGGGAGTAAACGTATAATTGAGCCCTCCCTCTTTCTCTCTCAGCCTTTCCCTTACTAATGTTTTGGGGTTTCTCTCTGCAGCCTG
TGGTTTGACAGCTTCGTTCCCTAGCTGTTCTCACACACTATGTCTTTACCCTTGCCGCTCAACCAACTGGCACCCTTGGCAGGCTGCCTCTCCC
TCCTGAAAGATCTTCCCTAACCTGCCCCCTTGCAGACAGACTTTCTAAAATGTGATCATTTAGCCCCTAACCCTGAGCTTACGCTCATTCTTAG
TGGGTTGCACAGGCTCCCTTAATACAGATGTGTTCTTATTCTCTGGTGCTCTCGCCAGGGGCACCGCTGCATCCATCTCTCATCTCTCCCAGTC
TGTTAGAAGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGATCTCTCTCCTGAACACTGGTGTGCATAGTGTGTACCTGTCACATAAGTGG
CATAGAACAGAGTAAATAAGTTCAGTGTAGTTAAACACAGGAGCTGGCCATGGCTCCAGGCTGTCCCCTGCCTCCCTTGCATTGTCCCGCACAG

CAGCCAGTGCTGTCACCATCCTGACACCGTAGGCATTACCTCATTCCTGTCCTCCTGGCATCAACCTCCCCTGCCTCCACATACTCCACATGCC
ACCACCGTGTGATCGGTAGAAATGTCATCCTGATCACATCATAGCTGTCATTAGTGACTCCTTGCCCTAGTGTGGAGGACACTCGAGTCTCCCT
CACTGTCTCTCATCAGGCATGTGCAGACACATTAAACTCCACAGATGGCTCTGCCCTCCATCCGTGATGCCCATCCATGAGCACCCCCTTTCTG
GAGTGGCCTGATCTTCTTTCCACACTTGTCAGACTCCTCCTAGATGCTTTGTCACAGCCTAACACTGTTCTCACCCCCGCCCCACCCACTACAT
CCACCGTGACTGTCCACCCTGGGCCGGGAATGCGTGCACACAAAGCAGAGGTGTTTTGGAGAGATTGACATAAACCTCTTCTTTGGAACCTACC
TTAGTCTGGTTTAATTTCTCAAGAAAACACTTGGCTTGTAAAGTTCTGTTTATTCTACCTCATGCATTCTGACATATAACCATATATTGCCTTC
TGTTGTTATGTGAGTGTCTCCCATGCCTGTGGCCTGCTTTCACTGTCGATCCCTGGGTGTCTGATACCAGCGTCATCAGCTGCTCTTTGCTGCC
TAGCAAGATACCCCCAGACTCCGTGGCTTAGGACAGAGGCTATTTATTATTTTTTATGGTTTCTGTGGTCCACTGGACAGTTCTGGTTTGCACA
ACCTTCAGCTGCACTGAATCACCCGGGATAGATGTGGGTGAACAGTGACCCACAGCTGCCACCGCTTCGGTGTTTACAAACAAAAGAAAACAAA
CAAAAACGTACTGGAACTCAGCCACACCATACTGCCAGCACTGCCTTTACCTTGTGACAGCAGAGGCAAGTCAGTGTAGTGGAGATCACCACAT
GGCCTACATGTGTGCTGTTTGCTCCCTCAAGGAGACATTTACTAAACTAGAAAACCTTGCCGAGCCCTGCTCTGGGATGGCCAGGTGGAAAGGG
CCTTACCTGGGGCAGCTTGTCTTTCTCTGTGGTCTCTCAGCGCCAGGGGACTGGCCTGGTGGTTTGTATATAGCATAGCAGGAGAGGGCAAGGA
CCTGATATACCTCCATAAGCCTCTGCCTCCCAAGTGCTGGGGTTAAAGGCATGCGCCACCATTGTGTGCAGAAAATGTCCTTGACGTTGGCCTC
CCCAGATATTTCTAGGCCTGAAGACTGCTTCCCTACAAAGACGGGTCCTACCCAGATTATCTAAACCTGTTTGCTAGATCCAGCTGTATAGTAT
AAACCCTGCCTCCTTGCTTATCCGTGTGTAATAATTTCCACCTCTCTGCTGAGCTGTATGCAATAATTAGGAATCTCTGTCCAACTTAAAAGAC
CGACATGGTGAGCTTCCAGGGTGTTTTCATTTCTCCATCAGAGGGCCCAGACCACCTGAGGGCGGAAGAAACAACTTTTCTCAGTGTCCATGTG
TCAGGTGCCTGTCTTTTGCTCATTTCCTCACCTTCCCAGTCAGGGCCATCCCTGGAACTGTGATAGCATGGCATGGCTCTTTGGGGAGAAGAAA
TTCAGGAATAGTATTGTGTAACTACTATGTGCCAGGAACAGCCTGTAGATGCGGTGATGGGCAGGGTACACCTACAGCCTGACTCGGCTTTGTG
TCGTTGTCATCCAGTTGGGAAATGAGAGTTCTCTAAAATCCTTTCAAGGAATCCTTCAGGAAGGAGCTATAGCATAGCTATATAACTCCATGGC
GATATGTGATGGCTGGTTGTCAACTTGATTAGATTAGTAAGCACATGAGAGACTAGTAAAGTGAACCTCTTTCTGCCTAGATCTTTGGAGATGT
TTGCAGACATGGACCATGAGGTCTCTGACCTAGTCAGTGGTTTAGTCCATTGATACATTCTAAGTCTGAAGAGATTAATGGAGGTTCTTGGCAC
TTCCTGGCTGGTGAGAGGAAGCAGGCCATGTAGGAAATGCTCTATGGGACTGTCTTGCCCTGGTCCCTTTCTGAATTCCTCCTCTGTTTTCTGA
ATGCTGTGATATAAGCTGTACCGCCATGGCCCTCTCCTCCATGATGAGTTAGAACTTCTGAACTCGGGAGCTAAAATGAACCTTTCCTGCTTTA
AGTCGTTTCTGTCAGGCATTTTGGTTTAGCTACAAGTAGCTAACCCAGTCTGCCATATTCACCCTCCCCGACCTCACACAATTATCTGAGCTTT
TCAGATGCTGTGTCTTGAGGCTCTTTCTTGCTGGTCGCCTGACACATTTTCAACCAGATGACGGTTTCATCAGGACACCAGTAACTCGGAAGTC
TGATTCACTAGATTGAGTCCCTCAGGTTTCTCCTGTGGTTGTAACGCTCTACTCCATGCATTCAGATTAATCCATGCCTGCCTTATTCGCCCTG
TGGATACACAATATTCCCCTTCTCCACATGTCTGGTGAGATGCTACCCCTCTGATGAAGCAGGCTCAAGTACCACTCACCCGTGCTGGTTCCCT
GGTTGTTCCTCCAGCGAGCTCTTTCTTCCTCTGCTGTCACAGGCCTCGGAGTTTGGAGTGTGATGCAAATGGGGTGTAGCACACACTGCTGTTG
TCTTAGGGTTTAGACTGCAGGCCAGGTCATGATTCACTTTAACGTCCTTCTGAATTCCTTTAACAGGGGAGACGTCTAGAAAAGTCTTGGCTTC
GTTGCTGAGGCTGGAGCTCAGGTTGCGGGAAGCAATCATGATCTGCTGATCTGTACCCCAGTTCCACTTTATGAATAATGGACAACTGATTGGC
ATGACTGCCATTTCCAAACCTTGGTCTTATTTCCAAGAGTTCATTGGGTTAAATGTATTTCATACTCATTAATAAAGAAAAAATTGCTGCATAT
AAGCCATCAATTATATAGTGTATCTGAAACTATGTTTCCTAGCACTAGAATATAGATTATTAAGTCTAATTCAGATGGATATAGGTGACTCAAT
ATATTTTGAAAACATTGAAATATACCTGTCATTAGAATCTCAAAACAGCTGTGGTAGAAAGGTTGGTACATGGTAGTATCCTCATCTTACAAAG
AAAAAAAGTTTAACTTAAAAGAAACTATAATACTTGTACAGAATTAAGTAAATATATTTTTGTTTATATTAAATTAATAAATATATATATTATA
TACGATATATACTCAAAGTGTAGGCGTCTAGCCTTATGATTGAGACAAAGCTTCCTTTCTAAAATCACCTGTGGATATCAAAACCTCAGCTCTA
AGATTGGTATCAAAACTGATCTTATTTATAAATTGCTATGCACATCAACTGGACCTTCAGTTTGTCTTCCTGGCTACTCATCCCGGTATTACTT
GTATAACATAATGTGATGTGGTATTACATGCAGCTCAGGAGAGATTAGAATGATTATTGGGTACATATGTTTTCCGGGGGATGTAATTAGGCAG
ATTCTCACACCCTCATCAAGAGATTTCCCCACCATCATTAATCTCAAAATAATAGAAGGCTTTCTACATCCAACATTACTTGAAGATTTGTAGA
CGCATCCTCTAGAGTGGACATTTAGGGGGAAAAAAAGGCTTTGTGTGAAGTTTGGGTATTTGTTATACTTTAAAAACGAACATGCACACTTTGG
CATATGTAACTATTAGACTGATGTTCTGAGGATAGATCTGCATACCATTAGTTGTATTTTTGTTTTACATAGTTTGCTAGGTGGAAGGAAGGGG
CTTTCAAGTTGAGGAGGCTCTCCAAACTGCAGCATCTCGAATGTGTTGATATCTAGAAGAAGCAATGTAAAGAAGAAAAGATTTGAGTTAGCAT
ATGGATGTGGCAAGTTTTCCTACATAGTCCCAGATTTCACTGATGCAGGAACCATGGTGATGCAGGGCATCATGGCAATGCAGCAGCCTGTAAC
AGAAACTTCCTACTTCATGGTAGTCAGGAAGTGGGAGTGGAGATGGGATGCAGGAGTAAGAGACAGCACCTAAGAGCACACCTACAGTGATTCT
TCTTCTTGCAGGCCCTATCTTCTACAGTCCCCCAACCTCCCAAAATAGTGCCACCTTATGGTTATAGTTACTTTTGTGTCTCTGTGCTGTGATA
CCATGACCAGGGCAACTGACAGAAGAAACAGTTTATTGAGGGATTTTATTTTCAGATAGTGAGCCCATGGCCATTATGGAGGGGAGCATGGCAA
CAGGCAGGCAAGCATAGTGCTGGGGCAATAGCTGAGAGCTTATATCCTGTTCTGTGAGGCAGCATGGGGGCAGAGAGGGAGAGAGAGAGAAG
GAGGAAGGGGAAGAGGGAGAGAGGGAGGGAAGGAGGGGAGGAGGGGAGGAGGGAGGGAGGGAACCAACTGGAAATGGTGTTCTGAAACCTCAAA
GTCTGTGCCTCTGGTGACACATCTCCTCTAACAAAGCCACAACTTCCAGTCTTTCCAAAACAGGCCCAACAGCCTGAGCCCAAGCATTCAAATG
TATGAGCCTACGAGGGTCCTTCTCATTCAAACCACTACACTAACCTTCTTCTAAAACAAAACAAAACAAAAATCCCAGACTTTTGGGCCACATT
CACATATATTCTATGGCTTTACCACTGTTTGCTGTGATACAGGTAGTTTGAAGCTAAGTTATATTAGACCTCATGAGATTTAACTAACCGGTCC
TTGTATAATATACGTGTCCTGGCCTTTCTGTCTTGTAGATCATACGGATGACAGATTCTGTGTTACTGTCTTTTTACAATAATTTTTTTTCATT
TATTCTTTGATAACTTCATACATGTTTACAGTGTATCTTCCTTATAACCAATCAAAATCCTCCTTCCCACTCACTTCAGAATCCCCAAATACTT
CTTCTCCCTTTTACCTTCATGTTCTCTTTTTTATTTTTTTTTTTTTATTTTTTTTTTTATTTTTTTTTTTAGGATTTTATACATTGAGTTGTGA
TTATCTTCACCTTCCCTACCCCAACTTTTCCTGGATCCAGCCCCGGTCTCTTCCCACTGACTTTGTTTCTTTTTTTCTCCACCAAGGCCAATTT
GTGCTGCTCAAATATTCATGTATATATGGCCTTCCACTGGAGCATGATTAACTTATCAGGGGCTGCACTCTTAGAGAAAACTGACCCTGTTGTT
TTGTTGATTTTTTCAATAATGTTTTTCTTTCTTATTACTCTCCTGTTTAACTATTATTCTAGCATGGTTACTTGGTCCTGTGATCTCAGGGAT
AAATTTTTTTTTTTCTATTTAGTTTGAAGGATTCCTTCACATGTCTACTGTGGAGCTGACAATGGTTATACATTTCTTTCATCTGTTTTCACTA
TGGAAAGTTTATATTTTCTATCATATTTTCCTCCTGATAGACAGCTTTGCTGGGTATAATAATCTAGGTTATATCTTTCAGGGCTCAAAAAACA
CCATCCCACGCCTTTCTGAATTTTAGAGTCTTGGTTGAATGGCAGGCTGTAATTCTGATGGCCTGAGTTCATGTAAGACTTAGCATTTCTTGTC
ACTTTCAATATACTTCCTTTGTTCTACATACTTACTGTCTTAATTAAAATAAGACTAAGAAGGTTCTTTTCTGATTTTCTCTGTTTGGTCCTAA
ATGCCTCCCATATCAGGTTGACATCTTTTCCTAAAAAGGGGAAATTTTCAATTATGATTCTGTTGAAAACATTTTTATGTCTTTAGAACAAGAT
TATTCTTCTATGCCTATGACTGTAGGCTCAGTATTTTCAGAGTGCTGCACATACCGTGAAACTCTTTGACGTCTGTTCTTATCTAATTGTGCCA
TCCCTCCACTTTGTTTTCCAGCTCAGAAAATCTGTGATTTTCCTTGACCCATTTTATTAGTGAGACTTTCCACAGAACTTTTTATTGGTTATGT
TTTTAATTTCCATCATTTCAAGAAGTTTTCCATCACTGTCTTTGTTTTCATAGTTCCTCTTCCGTATCTTGCACTGTGGTCTTTATTGCACACA
GTTGGTCATTTGTGTGCTTAGTCAGGAGCTTATTTCCTTTCATTTCTTGAACAATAATTCTTAACCCTGTCTAGGGTTTCATCTGAATCACTCT
CACTAGACGCTGTTACTGAAAAGTTAGTTGTTCTGGAGAAGTTATAGTGACATGATTTTTGTGTTTTTTCTTATTACTATTTTGGGAGTCACAT
ATCTGGGATTATCTTGTTGCTTGGGGTTTTTTCTTGCATTGGATATATTCTTTCATTTGAAGTGTTTGCAGAACTCAATGGGTGCTTGAATTGG
TAACGTGGGGTATGTTGTTTAGAAATTAGTTAAGTCCGGGAACTAGGGGCTGGTACAACTTATATGTCATCTCTGTGTAGACTATTAACTGCAA
GAACAACCACGGATTCTGGGTATTGCCTCTAGATGTAAATGTTGTATTATCCAAATAACAAAAGCAATTCCTTTAACTTTAATAACTTTTGGAA
AATGAACAACCAAAGATAATATGAAGTATAGTTTGATTTTAGTTGATAAGGTTGGAATTGAGAGGGAAGGAGAGTGGGTGAGGCTCAAGACAAG
ATCAAAGGACAGTGGCAGAAATGTCGAGGTGATGCAGTAGCTGAGAAGGGACGGTTGAAACAGTACCAGGGTCCACAGATATTAGAGATTGATA
AAGCTAGGAAAGGGCCAGCCTGAGCTACAGAACAAGTCCTACAACAGTCAGGACTACACAGAGAAACCCTGTCTCAAAAAACCAACATAAAAGA
ACCATGGAAGTCTTTAATTAAGTGGTACAAAGAGGAGAACAAATGACAGAAAGAAGGAAAGTTGTCAAAATAAAAGGAATAAAATGAGATACAA

GTGAAAGGCATGGTAGTGTCTCATGTTAGCCTGAGTAAAGAAACACATAGCAATCTTAAAGTCTAACTGAGCAATATACCACAAATCCAAAACC
ATCATAAGATGTATATGCAAGGGTATAAAGGGTAATAAATAATATAAAATGAGCTGGGCAGTGGTGGCACACACCTTTAATCCCAGCACTCGGG
AGGCAGAGGCAGGTGGATTTCTGAGTTTGAGGCCAGCCTGGTCTACAAAGTGAGTTCCAGGACAGCCAGGGCTACACAGAGAAACCCTGTCTCA
AAAAAACCAAGAGAGAGGGGGGTGGAGAGAGACAGAGAAGCAGGGGATAGGGTGCTGGAGCAGTGGTTAAGAGCACTGGCTGTTCTTCCAAAAG
ACGCGGCTTCAAGTCAAGCACCCACATGGCAGCTCACAACCATCTATAACACCAGTACCAGGAGATCCAGTGAGTTCTTCTGGCCTGTATGGGC
ACCAGGCACATGCAAGGTGCATAGACATGCATGGAGCCAAATCATCCATGCACATAAACTAAAAATAAATTGTAAGGTCCAAAGGGGTCAAGGA
TGCTGGGAGAAAACAGCTCGCAGAATCAACTAAGCAGGGCTTATAGGAGCTCACAGAGACTGAAGGGCCAATCACGGTGCCTGCATGGGTCTGT
GCTAAGTCCTCTGCAGATGTTATGATTGTTTGCTTGGTGTTTTGTGGAGTAACACTGGGAGGGGGTGTCTCTGAGTATTTTGCCTGCTCTCCAA
ACCCTTCTCCTTCTACTGAGTTGCCTCATCCAGCCTTACTATGAGGGTTTGCGCCTAGTTTTATTGGAACTTGTTATGCTGCATTCGGTTGATA
TCCCTGGGAGGCCTGGTTGGTTGGTTGGTTGGTTGGTTGGTTGGTTTTAAAGAAAGTGGATAAGAAGTGGATGTTGTGGGGGGAGTAGAGAGGA
GAGGGAGATGAGAGGAGTGGAGGGGGAGGAAACTGCAGTTGAGATGTATTATATGAGAGAATGAATAAATGAATGAATGATCTTTGGGGGGGGG
GGTTCGAGACAGGGTTTCTCTGTGTAGCTCTGGCTGCCCTGGAGCTTACTCTGTAGACCAGGCTGGCCTCGAACTCAGAAATCCGCCTGCCTCT
GCCTCCCCAAAGTGAAAAGTAAAACTAAAAGTAAAAGAATACGTATGGGGTGAGTTGCAGGTACACCTGTGCTGAGTTCAGAGGTGAAGTTCTT
AGTCAAAGTAGCTCTGGCAAGTTGCAAATGGTGCAGTGTGGGGAGAGGAACCTGTGAGCCATTAATCTCTGTGACTTCTGTGTTCTCTGTGGTT
CTGTTATTGGGGAAGGGGAGGCTGTAAGTCCTTGCCTGGTCGCTTGGCACTCCTCTGTGGGCTCTGTTGGTCCTACAGGCTGATGTGTGTGAGG
AGCAGAATTTTCCCTCCAGTTTCTCCCGCTCTCTCTAAGCAGCTGAATTCAGCAGTGTTGTGCCAATCAAGAGGGCTCGAAGATGGGTCTCCAT
GGGGCACTTCTTAAGGGCTCGAATGTGTGGCACTTTCAAGAATGTTGGCACTGAAAATACCCGGTGTCTCTTCTACATAGTCACTTTTTCTCTT
TGTTAAGTCTTTCCCATTTTCATAAAAAATCTCTTTTTTTTTCTTGATATTATACTATATTACAACATTCCTCCATTCCTTTTTCTCCCTCTGA
ATCGTCCCATATACCTCTTCCAAATCTTTCTTTAAATTCATGATCTCTTCTTCACTAATTTATTATTGCATATATGTATACATATACATATATT
TCTAAATATACACATTACTAAATGTAACCTGTGTGGTCTATCTAATGTTACTTGTATGTGTATTTTCAGGCCTGACTTTAGTCTCCCACTCCTA
ATGTTCTCAGTTCCCCATAGTTTGTTCTGTAGGGCTGAGGCTTGTGGGCTTTTCCCGGTCCATCTTAGCATGTCCATTGGTACTACCCTTGTTC
GGTTCATGGTTAGGCAGACGTGTTGGGGAGACGAGATGAGTATAGCTTCTGACATTGCTAGGAGACATAACTTCTGCCACCTTCTCTCGCCACC
ATGATACTCTACCTTACTCAGACTAGAAATGGTAGTTCTCAAAATTATGGACTGAAACCATATGCCAAAATATCTATCTCTTTAAATTATTCCT
CCCAGGAGTATTCCACAGTCTGATTATCACACTAATTTATTTTTATTTATATCCTGAAGTGCTGCCTTCCCCCTCCTTGGCCCTGTGTTTTCAT
CCTTTTCTCCCAGATTCACTCTGTGTACAGCCACTAATACGAGTTTTTCCTAAGTAGTGATGAAGTGTCACTCCCATGAGTGCTCAGTGTCCTA
AACTGGCTGTACCCTACGGTTCCAACTGATGCAAAGAAAATGTCATCTTCTAGGATACTTCACTGGTTAGAACCTTTACACTCTTAAAGATCAC
CAAGTATGGAAACAAAATGCCATAAATCAAAACCAGCAAAAACAACAAATGATATATATGTTGATTATCCCCTACCTACCAAGGATGCTATATG
CTTGAATTAACAAATTAAGAAATAAGAATAGTTCTGCATTTAAAATTTAAGTTTAAGATGGAATATTAAAAAAATAAACAGGAAGCAATGAGCT
ATCAGATCACCAGGCATCTTTCAATATCAAAGAGAAATGTTCTAATACTGAAAACAGTAATTATCGATAACTACTGTGGATGCCCTCACTTGTA
ATGAGTAAATTAGTAAAATGGAAGATTAAACTACAACAGATTTATACAGTGACACACAAACAGACAAATGAAGCTAAAGAAAAAAGCTCCTAGA
TATATCAGGCATCGTCTAAAGCCTGGTTGAGCCCACCCATCTCCCAGATACAACGTGAAGCAGAGTGCTCTCAGTGGTGGTCCATACTGCTGCT
GGAGAGTTCCCTAAGGTGAGAAATGTTTATTGCCTTTACACTCAGCCTGAAGACCCTCAAATGCTACATTTCAGAAAGACTAGGGGAGAGTAGA
GAAATGGCTGAAAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNAGTAAGAATAATACCTTAAACTTCCAAAAGCATTGTTTTAGATTTATTTTAAGTGTAAGAGTGTTTTGTCTGTCCTGTCTGGTGTATG
TATGTGCACTACATGCATGCCTCTGACCTGGTGCTGGCAGAGGCCAGAAGTGGGCACTGGATCCTGTGAAACTAGAGTTGCAGATGGTGTGAGT
CCAGTCCTCTGCAAAGTCAACACTGCTGTTAACCACAGTTGTCTCGCCAGCTCCTTGAGACATACTTTTAAAGTTAACAATGGAAGAAGATGTA
AAATCATTTTTTAAAAAATCAGAGGAAATAAAAAGCAGAAGTACATTTGTAGAAAACAAATGTGATTATATTAACAATCCCAAAATATATAAAT
GACATGCATAAATCACAACATACATAAATTATAAAAGAAATGAATAGATTTCTAACTAAGACAAATGGATTGAGATTAGCGGGTTTTGGTTTTT
TGTTTGCTTTGTGTTTTTTTTTTTTTCCTCAGAAAATTTCGTTGACTGTAGTGTCAGGTGGTGATGAGCTGAACAAGAAGTAGTCAGAATTTCT
TAGCTAGCAGTAGTATCTTAGCTGTGTGTCTTGGGGACAGGTTTTTCTAACATGGACTGAGAAAAGTCATAAGTAAAGGGGTGCAAATCATTCC
AGCAAAGACTAATCAAAAAGAATCTAGAATTGTGTTATTTTTTAAGTCATCAAAATAATTTATAATAGTTAAATGCCTCTTAAATACACATGAT
ATCTTCTGAAGCTAAAAGTAATATGCACTCAACCAGTTTCTTAAATCTATTTGGAAACATTAAACATGATAAAAGTAAAAAAAAAAAATCTCTT
ATGAAGTCCTCTATGAAAGGAAATTGTGACAGGTTCCTGATTAGACAGAAACCATTCCATCTCCAAGGGAGAATACTCAGTGTAACTGTGGCTT
CCTAGAATGAATTGGGTAGTGTTCATTCTGTTTCTATTTTGTGGAATAGTTTGAAGAGTATTGGTAGTAGGTCTTCTTTGAAGGCCTGTTAGAA
TTCTACACTAAACCCATTTGGTCCTGGGCTTTGTGTGGTTGGGAAACTTAATGACTGCTTGTATTTCTTTAAGGATTATGGGACAGTTTAGATG
GCTTATCTGATCCTGATTTAACTTTGTTATTTGGTATCTGTCTAGAAAATTGTCCATTTCATCCAGATTTTTCAGTTTTATTGAGTATAAGCTT
TTGTAGTAGGATCTGAGGATTTTTTGAATTTCCTAGTTTCTGTTGTTACATCTCCCTTTTCATTTCTAAATGTATTAATTTGGATACTGTCTCT
GTGGCCTCTGGTTAGTCTGAGTAAGGGTTCATCTAGCTTGTTGATTTTTCTCAAAGAACCAGCTCCTGGTTTTGTTGATTCTTTATATAGTTCT
TTTCATTTCTATTTGGTTGACTTCAGCCCCCAGTATGATTATTTTCTGCTGTCTTGGGTGTATTTGCTTCTTTTTGTTCTAGAGCTTTCAGGTG
TGCTGTCAGGCTGCTAGTGTGTACTCTCTCCAGTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGGCACTCAGTGCTGAGTTTTCCTCTTACCACT
GCTTTCATTGTTTCCCATAAGTTTGGGTATGTTGTGCCTTCATTTTCATTAAATTCTACGAAGTCTTTAATTTCTTTATTTCTTCCTTGTCCAA
GTTAACATTAAGTAGAGTGTTGTTCAGCTTTCATGTGTATGTGGGTTTTCTGTTGTTTTTTCTTGTTATCGAAGACTGGCTTTACTCCGTGGTGA
TCTGACAGGATGCATGGGATTATTTCAGTCTTCTTGTATCTGTTGAGGCCTGTTTTGTGACCAGTAATATGGTCAGTTTTGGAGAAGGTACCAT
GAGGTGCTGAGAAGAAGGTATATCCTTTTTTTTTTTTTTAGGATAAAATGTTCTATAGATATCTGTTAAATCCATTTTGTCCATAACTTATGTTAG
TTTCACTGTGTCTTTGTTTAGTTTCTGTTTCCATGATCTGTTCATTGCTGAGGGTGGGTGTTGAAGTCTCCAATTGTTATTACTGTGTGAGGTA
CAATGTGTGCTTTGAGCTTCAGTAAAGTTCCTTTTATGAATGTGTGTGCCCTTGCATTTGGAGCACAGATGTTCAGAATTGAGAGTTCTCCTTG
GTAGATTTCTCCATTGATGAGTATGAAGTGTCCTTCCTTACCTTTTTGATAACTTTTGGTTGAAAGTTGCTTTTATTCGATATTAGAATAGCTG
CTCCAGCTTGTTTCTTCAGACCGTTTGCTTGGAAAATTGTTGTCCAATGTTTTATTCTGAGGTAATGCCTGTTTTTGTCACTGAGGTGCATTTC
CTGTATGAAGCAAAATGTTGGGTCCTGTTTATGTATCCAGTCTGTTATTCTATTTCTTTTTATTGGAGAATTAAATCCACTGATATTAAGAAAT
ATTAAAGAATAGTTATTGTTGCTTCCTGTTATTTGTGATGTTATTTTTATATTTCTGTGGTTATCTTCTTTTGGGTTTGTTAAAAGAAGATTAC
TTTCTAAGTTTTTCTAGGGTGTAGTTTCCCTCCTTGTGTTCGTGTTTTCCCTTTATTATCCTTTGTAGGGTTGGATTTCTGGAAAGATATTGTG
TGCATTTGTTTTTGTCATGGAATATCTTAGTTTCTCCATCTATGGTAATTGAGAGTTTTGCTGGGTATAGTAGCCTGGGCTGACATTTGTGTTC
TCTTAGGGTTTGTATGACATCTTCCCAGGATCTTCTAGCTTTCATAGTCTCTGGTGAGAAGTCTGATAGGACTGCCTTTATATGTTACTTGACC
TTTTTCCCTTACTGCTTTTAATATTCTTTCTTTGTTTTGTGCATTTGGTGTTTTCTGATTATTATGTGTCAGGAGGAATTTCTTTTCTGGTCCACT
CTATTTGGAATTCTGTAGGCCTCTTATATGTTTATGGGTATCTCTTTCTTTAGGTTAGAGAAGTTTTCTTCTATAATTTTGCTGAAGATATTTA
CTGGCCCTTTAAGTTAGGAATCTTCACTCTATTCTATACCTATTATCCTTAGGTTTAGTCTTCTCATTTTGTCCTGGATTTTCTGGATGTTTTG
GGTTAGGAGCTTTTTGCATTTTGCATTTTCTTTGACTGTTGTGTCAATGTTTTCTATGGTATCTTCTGGACCTGAGATTCTCTCTTCTATCTCT
TATATTCTGTTGGTGATGTTTGCATCAATGACTCCTGATCTCTTTCCTAGGTTTTCTAACTCCAGGGTTGTCTCCCTTTGTGATAGTTTTGTTC
AATTCCTTCACCTGTTTGGTTGTTTTCCTGCAATTTTTTAAGATATTTTTGTGTTTCCTCTTTAAGGGCTTCAAGCTGTTTATCTGTATTCTCC
TATACTTCTTTAAAGGAGTTATTTATGTCTTTGTTAAAGTCCTCTCTCATCATCATGAGATATGATTTTAAATCAGAGTCCTGCTTTTCTGAGG
TATCCAGGGCTCACTGTGGTGGGAGAACTGGGTTCTGATAATGCCAAGTAGCCTTGGTTTCTGTTGCTTATGTTATTGCCCTTGCCTTTAGACA

TCTGGTTATCTCTGGTGTTAGCTGGTCTTGCTGTCTCTGACTGTGGCTTGTCCTTCCTGCAAGCCTGTCTATCAGAACTCCTGGGAGACCAGTT
CTCTCTGGGAGGAATTTGGGTATGGACAGCTGTGGTACAAGGTCAGCTCTGGGGTGCAGACAGAAACTGGAAGGATCCTGTCCCCAGCTGCTCC
TTGCTTCCTATGTCCTGAAGGCTCTGGGCAGGTCCCAGGAATTTGAGCAGAAGTGGTGGTCTTACCTGTGCTCACAGGCATGTCCGAACTCCTG
GGAGACTAGCTCTTTCCCAAGGGTATATAGATATGGAGTGCCATGGCACATGATCTAGAATTGCTTTATTGATACGAGTCAAAATACACTCAAA
GACAAAAGGCGTTGTAAGGCTAGAACTCTTACATATGGCTTGAAATATATAAAATGTTAAAACTACACATGACATTGGAAATGTATACTATTTC
TAAAATGGCCTCAATATATGTAAAACAAAAATTAATAAACTTTAGTGAAATTTCACATATTTCTTTAAGGTATCACTTGATGGCGCAACAAGA
AGTAATAAACATGGAATTTAAAATGGTAGGAGAAGACATTTTTTTTTCATAGACACAGGAAACTGCACCAAGCACCTAGAATATGCAGATCCAC
TCTGCATGGAGGAATTATTAAAAAAAAAAAAAAAAAGTTGACCTCACACTAAATGCAAAACTGGTCTCAACAGATTTCCAGGAATCACAATTAA
GATAATCATATATTTTTTAAAGATTTATTTATTTACATATATGAGTACACTGTAGCTGTACAGATGGTTGTGAGCCTTCATGTGGTTGTTGGGC
TCCAGTCAACCCCAATTGCTCTGATCAGCCCCGCTTGCTCCAACCCAAAGATTTATTTATTATTATAAATAAGTACACTGTAGTTGTCTTCAGA
TGCACCAGAAGAGGGCATCAAGTCTCATTACGGATGGTTGTGAGCCACCATATAGTGCTGGGATTTGAACTCAGGACCTTCAGACGAGTAGTCA
GTGCTCTTACCTGCTGAGCCATCTATATTTTATGACAATTAAGTTACCATTCAATAACCATACAGTCAGCCCCCTCCCAAGTTCCCCTTAAATG
TGGAAATTTTCAAACATTTCTGAGTAAATCACTAAAACGGAAATTTTTAAATACTTAGAACTGAATGGTGATGAAAATAGTACATTTCAGAACT
TGAAGGATGCAGCAGAAGTTAGATGTGATAAGCTGTGGGGCAGTAGAGGGCAGGATGAGGCGAAAACAGTAGGCAGGAGTGACATTGGCAGTAA
AGATGCTGTCTAGTGAATCTACAGATCCCAGAAGATGCTTCTGTGGATAGGCTCATGGTACAGGGATCAACCAGACTTTTTTTTTTTTGTAACA
AGATCATATGTCTGGCTTTGTAGGTGACACTGTCACCACTGCTCAGCCTTGCCACCACAGTATGAAAGCAGCCATGTGATGTATAAATGACTGA
GTATGGTTCTGGTCTAATAGTTCCATATATAAACTAGCAATGGACCATACTTACTATTCAGACTATGATTTCCCAGTTGTTGAACTAGTTATAT
GTCTAAAACTGACCGTAAATGATGGGAAATTTGAATAAGATTGCTGGATATAAGATCAGTATACAAAAACAATTGCCTTTTCATTTGTCAGTAT
CATGGAAAAGTAACTTTTTAAGAAGTGGTCACTGAGCCAGTGGTACTTGGCTATAATTTTACCACTGCAGAGGCAAGATGGTCATGTGATTTAA
AAACTAGCCTAGACTACATAAAAAGAATCTACCTTAAAAAATGCTTAGGGTTGATAGTCACAACAAAAATAAGTAATAAGTGTACTAATGTTCA
GAGTCTAAAGAAACTAAAACAATTAATTGATCTGCTTCAAACCAGTAGTTCTCAAAAGTTTGATTTCCAGATCCTTCTATGCTCTAAAAACAGC
TGAGAAGTCATAAGATCTCTTACTTAATTGGGCTTTATCAATCCGTAGTCATAAGACATTTAAGTCAGCTACTAATTTTTAAAAATAATGAATC
TGCTATACACTAAATGTTTGACACATCTTTATGAAGTAAATTGCACTTTCAATTTAATTGATGAAAATGTTTTTATATTTTTTCCAGCTCTCTT
TAATGACAGCATAAATAAAGGCACTGGAGTCCTGATAGCTCTTTCAATGTTGAATCTGCTGTGCTCTGTAGTTTTACTTTTATTATATGAAAAA
CCTATGTGTTGACCTGCAGCTAGAGAAAGGGACCACACTTTAATAGCTCCCCAGTTTCCAAACAATGGAAGGTATCTCTTCTTTGATACTTTAT
CAGTCTTTGGCAGGTCATAACTAAGAAGGTAGTTGCAATATGGGACCTAAAACTGTATCGCTGAGCTTGTCATGTTCCATCATATTAAAATTCA
TTGTTCTGCCTGACACCCTTGGATGCATCTTTTATCCAAGGATGGTTGTGTGAAGGCAGTTGACTATTTGGAAAAGGCTGGGTTGCCGAGTTAA
GTAGCTCTTCAAAATGATGATACTGTTTTATGTCAAATTTTTCACTTATTAACATGATCTTCAGGGGGAAAAAAGCTTTCAAGTTCCGAGAAAC
TGTCAAGCTAACAGTAGCAAATGTACACTTACCAAAACTCTGAATTTCATTTGAAAGCTTAAATTTTATCATTGGCAGCAAATACTGTCACCTG
TTTTTCCTGAAGTGACAAATCTCACTCACCTTGTTCACTGTCAAGAAAGTATCTGCCAAATCCCCACGTCTGGATAACCTCAGTTTGTCAGCCG
TTCTTCCTAGTAAAAAAAAAAAAAAAAAAAAAAAATCACATTATGTGGGAGAAAATGTGTCCTAAGCATGTTAAACTTACAATTTGCCTGAGCACA
GTGGCATCCTCCTTTAAGCCCTTTAATTCTAGCAGAGGCAATGGGAACTTGTGAGTTCAACCCAGCCTGGTCTACATAGTTTCAGGCTACCCAA
GTTACATAGTGAGACCTTGTCTCAAAATTAATTAATTAATAATTAATTATTAGTAAAAATATTAAGATAAACTTACAGTTCAAACCACCCCACA
AATGCTCTTCCATGAGCTAACAGTCATATTTCAATGTGCAGTGATACTGTACATTGCACAGAACATTAAGATGTTAAGTACTCGAGTGTCTTCA
GAGAAATAACAGTTTCATGGATGAACACGGACATTTTTTATTAAACTAATAAAATTTATTTAAAAATACACAACTTAGCATTAACATTTTTAAG
TCATCAAAATAATTTATAATAGTTAAATGCCTCTTAAATGCATGTGACATCTTCTGAAACTAAAAGTAATATGCACTCAACCAGTTTTTAGAAT
CTGTTTGTAACATTAAACATGATCGAGGTAGAAAAAAAAATCTCTTATGAAGTCCTCTAAGAAAGGAAATTGTGACAGGTTCCTGATTAGACAG
AAATCATTCCATCTCCAAGGGAAAATATGCAGTGTAACTGTGGCTTCATAGACTATATTGGGTAGTGTTCATTCTGTTTCTATTTTGTGGAATA
GTTTGAAGAGTATTGGTAGTAGGTCTTTTTTGAAGGTCTGATAGAATTCTGCACCAAATCCATCTGATCCTGGGCTCTTTTTGATTGGGAGACT
TTTAATGACTGCTTCTATTTCTTTAGTGGTTATGGGACTGTTTAGATAGTTTCTCTGATCCTGTTTTAACTTTGGCACATGGTATCTGTCTAGA
AAATTGTCAATTTCATCCAGATTTTCCAGTTTTGTTGAGTATAAGCTTTAGTAGGATATGAGGATTTTTTTAATTTCCTCAGTTTCTGTTGTTG
TGTCTCCCTTTTCATTTCTAATTTTGTTAATTGGGATAATGTCTCTGTGTCCTCTAGTTCGTCTGGCTAAGGGTTTATCTATCTTGTTGATTTT
TCTCAAAGAACCAGCTCCTAGTTTTGTTAATTCTTTGTATAGTTCTTTTTGTTTCTGTTGGTTGATTTCAGCCCTGAGTTTGATTATTTCCTT
CCATCTACTCCTTGAGTGTATTTACTTCTTTTTTTTTTTCTAGAGCTTTCAGGTGTGCTGTCAACCTGCTTGAGCATGCTCTCTCCGAGACACT
CGGAGCTATGGGTTTTCCTCTTAGGACTGCTCTCATTGTGTCCCATAAGTTTTGGTATAATGTGTTTTCGTTTTCATTAAATTCTAAAAGTTTT
TAATTTCTTTATTTCTTCATTGAGCAAGTTATCATTGAGTAGAGCGTTGTTCAGCTTCCATGTGTATGTGTGCTTTCCCTTGTTTTCTTGGTAT
TGAAGACCGGCTTTACTCCATGGTGATCTGATAGGATGCATGGGATTATTTCAATCTTCTTGTATCTGTTGAGGCCTGTTTTGTAACCAATAAT
ATGGTCAGTTTTGCAGAAGGTACCATGAGGTGCTGCGAAGAAGGTACATTCATTTTGCTTTAGGATGAAATGTTCTATAAATAATCTGCTAAAC
CCTTTAGGTTCTTAACTTCTATTAGTTTCACTGTGTCTCTGTTTAGTTTCTGTTTTCATAATCTGTCCATTGCTGAGAGTGGGGTGTTGAAGTC
TCCTACTATTATTGTGTGGGGTGCAATGTGTGCTTTGAGCTTAAGTTTCTCTTATGCATGTGTGTTTCCTTGCATTTGGAGCACAGATCTTCAG
AATTGAGAGTTCATTTTGGTAGATTTTTCCTTTGACTAGTATGAAGTGTCCTTCCTTATCTTTTTTGATAACTTTTGGTTGAAAGTTGTTTTTA
TTAGATACTAGAATGGCTACTCCAGCTTGTTTCTTGGGACCATTTGCTTGGAAAACTGTTGTCCAATGTTTTACTCTGAGGTAGTGTCTGCCTT
TGTCACTGAGGTGCATTTCCTATATGAAGCAAAGTGCTGGATCCAGTTTACATATCCAGTTGGTTAGTCTATGTCTTTTGTGGGGGAATTGAGC
CCATTGATATTAAGAGATATTAGAGAAAAGTAATTGTTACTGCCTGTTATTTTTGTTGTTAGAGGTGGAATTATGTTTGTGTGGCTTTCTTCTT
TTGGGTTTGTTGAAAGATTACTTTCTTGCTTTTTCTAAAGTGTAGTTTCCCTCCTTGTGTTGGTGTTTTACAACTTTGTAGGGCTGGGTTTATG
GAAAGAGATTGTGTAAATTTGGTTTTGTCATGGAATATCTTGGTTTCTCCATCTATGGTAATTGAGAGTTGTGCTGGGTATAGTAGCCTGGGCT
GGCATTTGTGTTCTCTTAGGGTCTGTATAATCTGCCCAGGATCTTCTAGCTTTTATAGTCTCTGGTGATGAGTGTAGTGTAATTCTGAGAGGAT
TGCCTTTATATTGACCTTTTCCCCTTACTGTTTTTAATATTCTTTCTTTGTTTTGTGCATTTGGTGTTTTGATTATTATGTGTCCGGAGGAATT
TCTTTTCAGGTTTAGTCTATTTGGAATTCTGTAGGCGTCTTGTATGTTCATGGGCATCTCTTTCTTTAGGTTAGAGAGGTTTTCTTCTATAATT
TTGCTGAAGATATTTACCGGCCCTTTAAGTTGGGAATGTTTGCTCTCTTCTATACCTTTTAACCTTAGGTTTCATTTTCTCATTGTGTCATGGA
TTTCCTGGATGTTTTTGGGTTAGGAGAGTTTTGCTTTTTGTGTTTTGACTGTTGTGTCAATGTTTTCTATGGTATCTTCTGCACCTGAGATTCT
CTCTTCTATTTCTTGTATTCTGTTGGTGATGCTTGCATCTATGGCTCCTGATCTCTTTCCTAGGTTCTCTATCTCCAGGGTTGTCTCCCTTTGT
GATTTCTTTATTGTTTCTATTTCCATTTTTAGATGCTGAATGGTTTTGTTCCATTCTTTCACCTGTTTGGTTATGTTTTCCTGCAATTCTCTAA
GAGATTTTTGTGTTTCCCCTTTAAGGGCTTCAAGCTGTTTTACCTATGCTCTCCTGTATTTCTTTAAGGGAGTTATTTATGTCCTTCTTAAAGA
CCTATATCATCATCATAAGAAATGATTTTTAGATCCAGATCTTGCTTTTCCAGTGTGATGTTGTTCCAGGACTTCCTATGGTGGAAGAATTGGA
TTCTGATAATGCCAGGTAACCTTGGTTTCTGTTGATTGTGTCCTCATGCTTACCTCCTGCCATCTGCTTGTTGCTAGTGCTACCTTCCCTCATT
ATATCTGACTGGAGCCTGTCCTTCCTGTGATCCTGGTTGTGTCAGAACTCCTCAGAGTCCAGCTTTCTCTGGCATCCTGTGATTCTGGGATCCT
GGGATCCTGGGATCCTGGGATCCTGAGATCCTGGGTATGTCAGAGCTCCCATTAGTCAAACTACCTCTGGGACCCTGATATCCTGGTGTGGCCA
AGCTCCTGGGATCATGTGATCCTGCGATCTTGGTCATGTTAGAGGCCCTGAGAGTGGAGCTTCCTCTGGGTGTTGTAGGAGTGGCTATGGAGTT
TGCGACCAATGTCTGAACAAGTACATTTTAAAGTAAAACTCATGTCTTTATGTTTTGCTGATGAGTGTGTGGTGGTAAAGAACTCACACAGTTT
GGTGCCATACCAGCTTCCTGCTGAGGCACCAGAGTTTTACCAACCATTGTGTTTGCAGCCTTGGTGGAAATGCCAATGCTGTGGAATAGTCATT
AAGCTTCTTTGTATTGCAAGGTGAGCATCAGTACTGTGAAAAATAAACTACAAAATTCAAACCCTTTGAGACACTGACATGATAACACAAGAAC
AAAAGTCCATACCAAGTGCAAAGTCCCAGTCACAGTGTAGAAGCACAGGGGATATTGTACGGAATGAAGCCAGGTGTCAGGAGCCATGGCTGGG

SAGRES DISCOVERY 02-02

CGGTTATGAGCACTAGCTGCTCTTCCAGAGGTTCCTGGTTTAATTCCCAGCACCCAAATGTTGATCACAACTGCCCATAACTCTAGTTCCAGGG
GATATGATGCCCATGTCTCACCTCCTCGAGCACCTGAAACACACATGGTGCACATACATACATGCATACAGTCCAAATACTCATACATGTAAAA
ATAATTTACCTTCAGGTTATATATGCATGAGGTATATATGAGACATAAATTATCTTTCTTCAGACTTAGGTCCTGTCCCAAGACAGCTCATTAT
GTACTTGCAAGTATTCCAAACTCTGAAGCAGTCTAAAATCTCAAATTCTCTTGGTCCCTAGGATTTTGCATAAGTGATACTTGACATGTAGTAT
GAAAATAGTATTGGTTTAACTGGCATTCTGAACAAGCAAACAATCCTAGAGATACACATAGATCCTTTGTCAGAGAGTCCTGTGTTTCTTCCTA
TGTGTCACTTGGTTCTACACGAATGTTTAGACAGGCGTCATCTGTAGTCCTCCGCTGACTTTCTTTTGTGTCACCCTATTCTGTCTTTATGGTA
GAACTTGGGACTATTGAGTAGTTTACTGTTCATTTGCTTGGGTGTTTATTGTCTGTCTCAAGACCTGACATATGAGTCTGTCCTAGTCAGCACA
GTAACTGTTTCTGAAACCTAAAGCACTCGGTAAGTGTCCATGGGTTAGTTAAGTCAGGTTGAAGTGACACATAAGGATCAGCTCTTCAGCATTT
CACTTTCGGAGAGGTTCATGGCTAGAAATAGCTAGTTTTACTCATTCTGGCTTCTCTAGATAACAACAGAGGGAACCTTTGATCTCAGTGCCTT
CCAGCATTGACTCTGTCCCACCAGGATCCTCGAGTTGGATATTATTTAACGGGGGTTACAGAAAAAGCACCTGAGGGACAAGCTCTGTTTCCAG
TATGAAGAGCTAGTGAGTGTTCTGTTCTAGAACTGAATTCACACCCTTCAGCTTCCTCCCAGGCGAAATAGGGAAGAGATGGATGCATACCGAG
CCACTACCAATGACAGCTCTCGGTGCCAAAGTTGCAGGAGCTGCCTGCCAAATGATCAGGCAGTAGTCATTCAGAAAGTGTTTGTTAGAGGGAT
TTTTTTTTCAGAATTAAAATTGAAACTGAAGTTGCAACAAATGAGCAGCAGATTTTTCAGAATTAATTTTTTGTACATTTTAGAAACGTTTGCT
TCAGTCTTCAATTCCCGAGAAACCATTGTATCTATTCAGTCTTTCGCACAGAAGTTCTCAGGATCTTTCCTAAGAACTGGCAATGAGATTCATA
GTTCATTCGCCCCAAAAAATGTATGTTTATGCTTGAGAACTTGTGACTGATTATCGTGTCGGTTTAAAGACAGTGGACCAAACCCTCGTCTCAG
CTTTTCTCCCCTTAACTTTATAGCATAGAAAATCTGTAGTGGGATGCCTGGGAGTCAGGTGGAAGCCAACAGTAGAATGTGGGATGTGCATCCA
ACCACTCACTGCCTAGGGGAAGCTGTGTTTGTTTCTGGTGTTCAGTATTTGAAATCTTTAACAGCAAGAATAGATGTAGACAGCCACTCTAGGA
TTCTGTGTTCACCCTGAGTTCTCTAACTCAAACTGAAGGTCAGTGCCCAGCCAAGTTTGACTTCTGAGGGCATTTCTAGGGAAACTCAGAGCTA
GCTTACCTACAAGAGATAACGGTGTGATTTCTGAAAGTTACACTGCTGTCTATTTCCACACGTATCATTTAGCTTAACTTGGCTTTAGTTACAC
TGTAAACTTGCCTGGGAATGTCAAAAGTGGTGAGTGTTGGAGCCAGACCCAAGTTTTAAAAAAATGAATGGAGCACTCTAAGGTTCTCCACTCT
ATCAAGGAAGCCATACAAGTGGGAGCAGGGGGAAGAAGTGATATTGAAAACTAAAGTTCAAAGGATGGGGTTCCAGCTGCAGAATAGCACTGGC
GCTGAGTCCTGGGTGGGGAGGGAGCAATGCCTTTGGACTGGTGTTTACAGCCTCGGCTTCCCAAGAATGAGCTGTACACGGGCCAGAGTAGTTG
AAGCTCGGGTTAGACTCTTAACAGCTTGGAGAAAGGAAGTGCCTATGCTGCACAGAGGAGACTCACACACAGGACACCCACACACAAGCAGCTC
TCTCTGATTAACTTTCTCGACACAACCTAAGTCTGTGGAAATGAAGCGCTCATTGGTTAAGGTCCAAGCTAGGCCTCTGCCAATACCTGCTCAG
GCTTCCATTTCATTGTTGTTATAGTGTGAAAACATCACAGTCTCCCCTTCCACATGGGAAGTGAGGTATTTGAGGTATGTAAAGGAACCATCTA
ATGTGCTGGTCTTTACAACCCTTTGTGGTCCCTGTTCCCTAGAGGGCATCTTTGCACTGTGGACATCCCCCATCAGTAAGACAAGGCCCATAGC
TGGTGATATGCATGTAATAGACATGTGGGAATGTCCTGAGGCTCACTGTCTCCCATTCCTCCCCCAACCCTAGAGAACACTCACCATGGAGAGT
CATCTCTGTAGCCCCTCAGGCTCTTACTGGCAGCTAATGCTCATTCTAAGTCAACATTTTACCTCCTTGAGGTATGGATAGAACACTTTGGAAG
GCTCCAGATAATCAAACTTCATCATCGGGTCGTCGGTGGTCATTTTGAGAACTACACAGGGATGCAGTAGGGTTTCTGTGATGGTGGGGAGCAG
AAATGAGCCAAGTCACCATGCCTTTAGAGAAAAGAGGCCTAGAAGACTACAGAAATGGAGATCGGAGAAATCAAAAGCGGCTCGAGCCATTAAA
CATAAGGCAATTCTAACGCCTGTGATTAGAACAAAAAATAGTGGTGTGCGAAACTATATGTTTTTGAGAGAAATACTAATTGCAAAATGTGTGG
GGAAGAAAACTTCACAGAGGCGGTTCTGTCAATGTCATCTTCTCATTGTGCCTTTAATGCGGTTATATGGGCCTATGGGCCTGAGAAGCTAGTG
TTTGGGTGATACAGTATTTGAAATGATTTAAGAAAACATGGCAAAACCCTGCTTTTGATTTCTAAGAAATCCAGCTTGGACGTCTCGGCTTCCA
CAAAACAGGAGTGTATAGCAAGTCCTACTATTTTGGTGGAAGGATGTGTGCCTGTTTCCTCAGGAGAAAGGATGACACACTACAGATAAAATGC
CCAAGATGTTGAAATTGTACTCTACCCCCTTCTTGATTTCAAACACGTTGTGCACATGGTTCATCTCATTTCTTCCCGAGACTCACTCTGGTGA
TCTCTGCCTCCCCCTACACACTTACAAGATGTTCACTGGGAGAAGTGCTTAGCTACAAAGCTGCCTAAAGTAAGCTGGGGTACCCCACAGGTAC
AGGGCAGCTGCTCCAGACACCTCCTGTGGGCAGTTCTGAGGCCAAAGGGGAAAAAAATCTAAATGGACCATCTCTGCAGGAAGAAAATAAAATT
CTTTGTATTCTCCTTCCTGAACGTGTTTCTCTTATGTCCAATTTCTGATAGACTCCAATTATATCAACTTGTCGACCTCCTCCTTCCTGCCTAC
ATACTTGCTTATTCATTCACCCAGGCCACGTGAGCTCGCTCCCAGGATGATCTCATCCAGTTGTGTGGGTTTTAAATCATCTCTAGACTCAAGG
CTCCCACTTTACCTCTCTAGAATTAACCCTGTCCCCTGGTCCTTTTGATCCCTTCCTAGGGCCATCCATGGGATGTTGAGTCTGAGCACACCTC
CTCTCACTCCCAAACCCGAGCCTCTCCCTGGGGTTTCCCGTTCACCAAAGCCACCCCGGGCCATCTGGTCACTTACTTGGAACTTCTCAGAGCC
ATCATTAACTCTATTCCTTTACTTCCTCCACCTACTCATTAGCACATCTTACCAGTCGCACTTTCTAAGCACTTGTGGAACCCGGCCACTTTGC
CATCTTTTTTGCTGTTTCCTCCCTCTTCTGATCCATCAGCTAGACCGTTTGCTAATACTACCCAGGAGCTTCCACCATGCCTCCCTGCCAGCCC
ATTCCACTTAAACATCAAAGTGATCATTTTGAAGCATAAATGAAATCCTATACAACTCACCCACTATTGTTATACATAGACTTCAGACTACTCG
CAAACCTCCACGTACCCTGCCAGCGCTTCACCTTTGTAACCCTCTCTGTCCATGACCTCCAGCCACTCTGGAAGGTTAGCATAGTGTCAAGCCT
GCTCATTCTATAAAGTTGTTGAACAAGCCACTTATTTTGCTCTCTGAAATCTACATGGTCTGCTCACTCGAGTCACACAGAATCTGCTCAAGGG
ACTTACTGTGACCAAGATGCCAAATGCAAGACCCCATCCCGAGTTCATCCACTCTCTTGTCATGCCTACACTTTTCTCTCTATCACATTCTGCT
GGGAAACTGTCTGTATATTGATGTTTCTCCTGAGGGTAAGTGCTCCCTGAGACATGTTCCCTCGCTTTGTTCCTGCTGCATGCCCAGGTACCTA
GAGGAAAGTATGACATAAGACATGGAATGTTGGAGACAGCCAGTATTCACTGAATGCCCATCTTTGTTGTAGGTGTTCTGATACAGTAAAAGAA
ACCAGAAGGAAAATGGGATTCTGCCCTAGGGAACTCACCCCTTGGGTGGCAGAGACAGACAAGTACGCATCTCTGTGGTTCTGTGGCTGGGTAG
TGTAGCTCCAGCTTGAAACCCCCAACTGTGCCCGCAGGAATCGGAAAGGTAGCCAGAAAGAGCTGACATTTGAGATTATTCCTGACAGATGAGC
AAGTGTTTTCAAGGTAGAGGAGAGTGGGAAGGACACTTCAGGTGTGGAAGTGGCAGGTGCAGCAGCGTGGCACTGGGATAGATAACATTCAATG
GACCGCGAATGTGACCAGCTTATGAGAGAGCTCAAAGATGTGAGTGCTTGAGTCAGCTACCAGAAAGCAACAACTTAGTTTATTCTTGGCGCTG
AACGTGCTCCTTGGAATTTTCCCTTTTAGTAAGCAGTGCCCGTTCAGATGATTACTCATGCCGCAGTTCTCAGAGTCATCCTTGTATTTTCATT
CTCTTACACTCCACGTCTAGTCTGCCAGCTACACACCATCAGCCCTGCCTTCCAAATAGGTGCCACGCCCAGCCTCTGCTCGCCAAGCTTATAT
GAATGTCTGACCCCAAGCTGCACCGTAGCTAACACTTCCAGGCAAGCCTCCCTGCTTCTCTTATGACCTTCATGGCCCCATTCCAGTCAAAAGC
CAGCACTGTCATTGTCAACTGCTCTTAACTTAAAACTGGAGGAGCAACGGGCATGGATCAACTACGTGGGTGCCTAGAAAAGAGTCTGTGTGTG
TGTTGGGGGTGCACTTGAGAGAGAGACAAAAAGAGAGACTCTGCATATCAAAGTCTGTGTCTTGTATATCTATATGTCTTCTTTCCTTCCCCTC
CCCTCCTTCCATTTCTTCTCCTTCTCCTTCCCCTCCTCTTCAACCCTCTCCCACACCACCATTCTCCTCCTCACCTTCCTCCTCTTCACCTTCT
CACCCTTACCATANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTTCCTTCCTTCCCCTCCT
CCCACTTTTCCCTACTCTCCCCACTGGCCACCATCAGATAGGAATCCTTGTTTCACTTCCAACACGTGTCCACTGGCCGTGATGTCACACCTCA
CACAGAGACAATGGAGCTAAGTGATTGTAGACTGAATCTCTTGAAAATGTCAGCCAAAATATATCTTCCCTCCTTTGGGTTGTTTTATCTTAAG
TATTTTCTTCACAGTGACAGAGATACAACTAATATTATAAATGCAAAGAGCATGTGGTTTTTAAAAAAAAAATCAAAATAAGCAGAAAAGTTTA
GCTTACTTGATCAATAAAAATCAGGGAAGTGCATTTTGATATATAATGTGGTTGCTTAAAAGGAATCATGAAGTCCATTTCACTCAGATTTCTA
TAAATAAAATTTTAAAACATAATGAAATACATTCTTTTATGAGAATATGTAATTCAGCCCTCTGAAGTTTAAAGAGAAAGTCTATAAGATTGAC
CACTGTGGGAAAACATGGTTTGTTCTTTTTCTCACCTCCGAGACAAAAAGCCTCATAGAGGCAGCTTACAGGAATAAGAGTTGTGTCAGCTTGT
GGCTTCTGAGGACACTGGTCCGTCACAGTGGGAGCCTTGGAGGATGGGAAGTTGCCACTGCCAGTGTGGGACACGCACGCTTCTGTCTGTAGCA
GGAGTTGAAGCACAGCTTATCCACATCTGGAAGATGAGAAACCAGAGTGTTAGAAGGTTAGAACCTTCGAAGCTGACCCTAAGCATCTCGTGTC
TACCAGCTAGTTCACAGTCCCTCCCAAATGCTGCACAGCCTCCAAAACAAAGCCTTCAATGAGGCACCGCGAGTTCACATGCAAACCCAGCAAC
CTCCCAAAACACAGCACCAGCTGTGGGCCATGCGTTCACATGGAAGACTTAAAATCACCAATGGAACTTCAAGCTTGTACCAGAGTTTATAAGAA

CAGTGTCATGGGCAGATGGATTTTATTTCAGGAGTAAAGGATGTTACAATAGAAAAGTTTTAATATAATCTATCACACTAAAATCTACCTTATA
ATTTACTAAGTTTATCTTTTATACCAAACACTATACTGCTTTTATCAATTCTTTAAAGGTACAGATATAATCCAGTGTCCACTTTTCATCAAAA
TGTCTTTAAAATTAAAAGTGATCCTTCCTTAACACAACAATGTGGCATAGGGGTAGGATCTCACTATGTACCTCAGGCTGGCCTTGAACTTGGA
ATGCTCCCCCTTTGACTACTGAGGCTGGGCTTAAAGACTTGTGCCATCACAGCCCGCTGGTGTAAGTTCAGCATTATTCTGAATAATTTTGTCC
ACACAGGGCAAAAGAAGGAAATTAGAAAGAAGGAAAAAGAATCCAAAGGCAGGGGTTAAGCTGACATGTTTTATTTGTATAGGGTATGAGTTGC
TTCAATTTCATGCTCATTTCTATGAAGCAACTAAAATGTAGTATAACAAAACTCAAGCAATGAGTTTATAGAATGAGTATCCTTTGTGTGTGTG
ATTAATTGTTGATTTGAAGATTTAATGAAATAAAAGCATCCTATTTACAACAGCAGGAAGTTCAAATGTCAGTTATAAATCTGAATATGCTATG
TGTATAAGAATTGAATTTAAGAATCTTTAAAGCTGGGTGTGGTGGCGCATGCCTTTAATCCCAGCAGTTGGGAGGCAGAGGCAGGCGGATTTCT
GAGTTTGAGGCCAGCCTGGTCTACATAGTGAGTTCCAGGACAGCGAGGGCTATATAGATAATCCCTGTCTCCAAAAACCAAAAACCAAAAACCA
AAAAAAAAAAAAAAAAAAGAATCTTTAATACATATGTGTATGTATGTATGAATGTATGTGAATAAAAATTTTAAACTCTCTAAGATACAGAAGT
AAAAACAAAAATGTAAATAAATGGAAAGGCAATCCCTATTTTTAAATAGGGAATTTCATTAGTATAAGTTTAAAACAATCCTAGTAAAAATACA
AGTAAAAAGACTTTTATAAACAAACAAAATGGTGCCTAATCAATGTGGGAAGAAATTTAATCAAGAATACTCCAGGAAAGGTGAAAATTATGAT
TTAGATATTAAAATGTATTATATTTGAATAAGGGCACTAATAGACAAATTAGTGGTGTAGAAATAGCCTCAATTTTATTTTAAATTTTAATCTA
CATTGGGAGGTTCTCATGTCAGTAATATAAACCTGAGATGATCAATAATTTGTGCTGGGACAACCAAATAGCTGTCAAGGGGAAATCCGCTTGA
CAGTTTCATTTTATTGCAAAATAAAATCTAACTAAATTCAAGAATTTAGGAGGAAATTGTTAATATCTACAGGTGCAGGGGACCTTCCAAAGTA
CAATAGAAAATCCAAAAGCTGTAAAGAAAAGAATCATAAAATGAATTCAGTTCCATAAAAATTAGACACTTGAGAGGCAGATAAATACAACTTG
CAAAGGCAAGTGACAAAGTAGAGAGAACATTTCTGCAACTAATCTATATAAAATTTTTTAAAAAGCTAACTCCCCAACCAATAAAGAACCTTTA
TAAGGAACTAAGAAAAAAAATGGCTGTGCAATAGAAAAAAATGTAAGGTTATGCCGGGCGGTGGAGGCACACTTTTAATCCTAGTACTTGGGAG
GCAGAGGCAGGCAGATCTTCAAGTTCAAAGCCAGTCTAGTCAGCCTAGTCTATGGAGTGAGTTCTAGGGCAGCCAGAGCTACACTGAGTCACCC
TGTCAGTTTTAAACAACAGAAGAACACAGCCACAGAGTCAACTAATCAGGGCTCCCAGGGCCCACAGAGACTGAACTGACAGTCACGGAGCCTG
CATGGGGACTGCGTCCGAGCTGGGGTTGTTTAGCTTGGGCTTTTGTGGGAGTGAGGGGAGTCTTTGACTCTGTGGCCTGCTCTTGGGACCCTTT
TCCTCCTGGGTTGCCTCAGCCAGCCTTGAAATGAGGGTTTGAGTCTAGTCTTACTGCATGTTGTTATTCCAAGTTTGGTTATCACTAGGAGGCC
TGCTCTTCCTGAAGGAAAAAGGAAGAACAGTGGATCTGGGAAAGAGGACAGGGGGACCTGGAAGGAGTGGAAGGAGGAAGGCTGCGGTTGGGAT
GTGTCTTAAAGAGTAAGTCTTAAAAGCAGAAGGTTATTTTCAGTTTACAGGAAATATAAACAACGGCTTAGGAGCATACAAAATATAATCAGCT
CACTTATGAAAAATGAATGCAAATCAAATCTATAACACACAATTTTAACAGGAAGATGTTTTCATAGTTTAACAATATGATCTATTAGCAAGAC
TATGGATAAAGGAGTACTGATAAATACCACTACTGCTGCCTCAAGTATAATTGTTATTCTCTCAAAGAACAGTTTGGCAGTATCAGAACTCTAA
AAGCAGTCTCCAAAGTATATCCCAAGATGTCACATACACCTGAGACAGGAAATAGCGACAGACCTTGCACGCCAGTGTCTTTCCCCCCTAAGTC
ACCGTCTCACTGAGTAGCTCAGTCTGGCCTAGACTCACCAGCCTCCTGTATCGGGCTCCCAAGCACACACCGGCTCACCTGTCTCTGTTTCCAT
CTTAAACATTTATCACACACTGTGGCCTGAACTTGTGTCCTGAGGTGTGATAGTAAAGGTGATACGCATGTCTTCATCCTTCCCAGGTTCATTG
ACAGAATATTCCTTTTTTACCATGGATCTTAGCAACCTCAGTATATGAGTTCTTTATCTCACCAAGAATTCCCACTTTTTCACTTAAACACTTG
AAGTTTCTTTATACTATTCTGAAAAGCTATCAGTTTTAAAAAAAAGTCGGGTACATAGTTATATAGTGGAATTACATAAAACAGGAAGGAACCT
TCATTCATTCATTCATTCATTCATTTTTGCTTACTCACTTCACATCCCGCTCACTGCCTGCCTCTCAGTCACCACCTCCCACAATTCTCG
CCCCGCCCCTTCCCCTTCTCATCTGAGCAGGTGGGCCCCCGGGTGTACCCCCACTCTGGTACTTCAAGTCTCTCTGAGGCTTAGGTACATCCTC
TCCCACTGAAACCAGACAAAGCAACTCAGCTAGAAGAACATATTCCACATACAGGCAACAGCTTTTGAGATACCCTCCCCTGCTCCCATTGTTC
CAGAACCTCATGAAAACCAAGCTGCACATCTGCTATGTATGTGAGGGGAGGCCTACGTCCAGCCCATGTATGTTCTTTGATTGGTGGCTCAGTC
TCTGAGAGCCCCAAGGGTCCAGGTTAGTTAACTCTGTTGGTCTTCCTGTGGAGTTCCTATCCCTATAGGAGTCCGAAATCCTGGAAGGACTCTT
TTACCCATGGAATGATACTCAAATTTTATATATATAATAAATTTTATAAATTTATACATATTTATACATATGTGTGTGTGTACGTGTTTGAATA
TGTGTACATATGTATACAGACACACATACGTGCATATGAGTGTGAAGGCCAGAGGATAACTTGGATGGCTTCCTCAATCATCACCATATTATTT
TTTTTTGAGGCAGGGTTTTTCGCTGACCTAGAACTTGCTGACTTTGCTACTCTAGCCAGGCAGCAGTCCCCAGGGACTCTTGTGTTTCTGCCTC
CTCAGCCCTGGGATTGCAGGCATACATCACTACAGCTGGCTTCTTTACATGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCAAGGTGGA
AATATATATGAATGAATGAATGTGAATGAGAATTAAAGTGCATATCCAGGTGCACATCTCTATGCATATATATGGAGACCAAACAACAGCATTG
GTTATCCTTTCTCAGCAGTATCCCTGGCCACCTTCCTCCTGTACCCAGCAGGGTCCCTCACTGGCCTAGAACTTGCCATGTAGGTCTGTCTAGC
AAGCCCCAAGCTTCTGCCTGTCTGCCTCTCCAGTCCTGGGATTCTAAACACACACCACCATACCTGAACTCAGGTCCTCACACACTTCACCAGA
TGATCTGTCTCTCCAGCTCACAGGTAGGGAGATTTTAGAGCTCCTTTTTTTTTTTTTTAATGTTACTGTACATTTATAATTGTACATAGTAATGG
GTTTCATTGTGATGTTTCCATGAAAGCCTTTAACACAATTTGATCATGTCGAGTCCTTCATAATCCTTCGTTGGCCTTCCTTCTCCTAATCCCC
TTTTCTCTTCCTGGAAAGCCACCTCCTCCTTTCATGTCTTTTCCTCTAAATTCCATAATGAAAGAAAACGTGATATTTATCTTTATGAGCCTGG
CTTTATATTACTTAATATGATATTATCTAGTACTGTCTGTTTCCCAAAGCACTTCATTGTGGATGGGTGGTTGGGTCAATGGCTGGGTAGATGG
ATGGATGGATAGATGGATGGATGGATGGATGGATGGATGGATGGATGTCACAATTCTGTATACCTTTGGAGACTACATAGTCTGATTCTC
AGTTGAGGGCAAATGTGAATAGTGCCACAATAAGAGTTGCTATGCAAAGTATTCTGACTTCGACTTCTTTCACTGTATATCCAGCAATGGCATA
GCTAGATTGGTAATCTTGGTGTGTTTTAAATGAATGTCTATTCTGATTTCCATGGTATCTATCCTGGCTTCTATTCCAACTAGCAGTGGACACG
GGCTTCTTTTCCTGTGCTGTTATTTGTCGTTCTCTGTTATCTTGGTGGCAGCCATTCTCACTCGGGGAGATGAAATCTCAGTGAAGTTTGATTT
ATATATTTTCTGTGGTTAAAGATGCTGGACATATCTATTGCTTATTAGTATTTCTTCTTTAAAAATGTATCTGTTCAGCTGACTTGACCACGTA
TTGGTTGCATCACATGTTCTTTGTATTTTCTGGATACCAATCCGCTGTTAGATGAATACTTGGAGGTTTTCTCCATTTGTTGTAAGGTATGGCT
TCACTCCGCTAATGGTTTCCTTTGTTGTGCAGAAGCTTTTCAATATCATACAATCCCAGTTGCCAGTTCTTGCCCTTATTTCCTGAGCTACAGG
CGGCCTATTTTAAAAAACAATAATCACTACCTGTGCCTGTGAGCTCGAGTGTATTTCCCTGTTTTCCTATAAAAGTTGTAAAATCTCAGGTCTC
TAGCTAGGACTGTTTTGAGCTGATTTCCGTTGCTTCAGTCTTCTACCTGCTCACGTCCACACGTTGAGGAAGATGCTCATTCTTCAGGATGCTG
TGTTGTCACCTTGTTGGGAACGAGATGGCTGTGTCCACGTGGGTTTGTTTCTGTGTTCTTTCTCATGGTTTCCATTCTGTTGCTGCAGTAAAAT
ATCCTGAACAAAAGCAATTCAGGGGAGGGAAGCTGTCTGTCATTGAGGTTTTGAAGGGAAGGTGCACTGAAGGGGGTTTCTTACCTGGGCAGTA
ATTCAGCTGGCGGAAAACATGAGCCTAATGTGTTAATACCATGGCTGAATTCAAAGGGGGGAAAATGAGTTTCTCCTCTCCTTGGGGAGCCTCC
ATCATGATTTATGGTTCTGTAAAGTAGGGGGTGCTTCACAGAAACTGTTTCTCTTCATTGTAGAGAAGCAGTGTTGTGAAGATGGGCTTTTAAA
AGCCTCCTTGTTTCTCCGGCTAATGCTGAGGAACTTACATGGCCCCATCTCTCCCTGGGCAGCAGTGTGCATTTGTTTTTGATTGACAGGTCAG
CAGGTTTAAAAACATGTGCAGGGTGTGGTGTGTGGCTTCCCATTGGTTATGCATCCATGTCACCCATGAGGTATAATTAATCTCATAGTTCTCA
CCACCATCGGCGTTGTTTTTCTAATTTAATGAAATAATTATCATGTTGTCCCCAGCTTACTCTGTGTGTGGCATGTTGTGGGTGCTCAAGGAGT
ATATCTCAACGGACAGAATTGAAAAAGGAGTTAGCTACTGTAGCCATGTTGAAATTCAACCCTTACAGTCACATTAATCTCTGTTAGGCTAAGA
GCAGTGGCTGACATTGGTGGTGGAATAACTGGGATGGGACACAGAGAATCCTTGAGGAGTGGTGGTCATATTCTGTGATTTGGTAAGGTGTGGA
TTTCACACATATATTCATTTATCAAAACTCAATGGCTTTTTCCACTCAAGATTCATAAAATGTGCTATATGTGTTGTTGTCTCAAGAAAAAAAA
TCCATCAATCAGTCTTAATTTCTAGTACATATTATGCCTCCTGAAATATTTATGGAAGAGTGTGGTCATTTCTGCAATCAGCTTTGCTCTGCAG
TGAAAAAATAATGGATGAGGACATGGGATGCTAGAGATGTGTAAAGAAATGTGTGTTAACTGCAGATTCTAAACAGAGAGTATGTATGGATTGG
ATGTTCCTTATCCAAAATTCTAGAGACCAGAGTATTTCAGACTTTATTTTTAATTTTGGAGTATTTGCATATGCTTAGTGAGCTGTTAGATATG
AGATTCCACTGTAACAATTCATTTGTTTCCTGCATGGTTCAGGATATTTGATCATACTGTGAACCCCAAGATTGTGTTGTTTAATGAAAAAAAT
CTGTTTCTAGTTGTGGTATGTCTCAGCACTTAGCACACACCTTTAATTCAAAACAATAAGGTACAGTTAGTTTGTAGAAGGAACTGCCCATGTT
TGAAAGTGATGTCTAATTGAGCGGCAGACAAAGTGACTAATCAGAGAAAGATTTGACAGAATAAGTCAGAGGTAGTATATACCCAAGTCTCAAG
AGAAAAGAGAGGAAGGGGAAGCTACTTTAAGTGGCAGCATGGAAAGAGTAGGACAGGGGGCAGTTTACCAGCAGAGTTTTACAGAGATGGTTGC

AGGGAGAGAACAAGCTAGGCACAGGTGAAGACAGAAGGAGTCAGAAGATGAGAACATATTGCCATAGTTTGAGGCCAGTCAGAACAATTCGGTG
AGAAGTGAAAGAAGCCAGTTTGAATCAGTCAACTTGGAGACGAGTTTTGAGCCAGAACAGCTGAGTTGAACCAGCCAGCCAAAGTTCAGAAAGA
ACTAGGAAGTGTGAGCTTATTCAGCAGTGACTCTCATAGGCTGAAATTATTCTAAGCCTAGATAAGATTTTATGGATGCTAGAAGCTTCCAGGA
CTAGGCCTACGTTAGCAGACAGAGGCAGTAAGCCTCGGAGACATTTACTACAAGGAAATAAATGTTACTTTCGCACATGCGTAGTTTACATATA
TAGACAAAAGTCACTTCATCATAATTATTATTTTATACATGAAACGAAGTGTCATGGTATCCAGTTTTCTTTTTGTGGTGACATATCAGCACTA
AATATGTTTTAGAGTTTGAGGATTTCATTTTTTCAGATTAGGGAACAACTTGTAGTTGTTAGCTTTAATATTATGTGAGTGTTTTTATAAACTT
GAAACCTTTTTTTTAAGGGGAGCAGGGGGAGAGGAGAGGGAATAGGGGATTTTTCAGAGGGAAAACTAGGAAAGGGAATAACATTTGAAATGTA
AATAAAGAAAATTACTAATAAAAAATATTTGTTTATTTATTTATTTATTTATTATATGTAAATACATTGTAGCTGTCCTCAGACACCCCAGAAG
AGGACATCAGATCTCCTTACAGATGGTTGTGAGCCACCATGTGGTCGCTGGGAATTGAACTCAGGACCTTTGCAAGAGCAGTCAGTGCTCTTAA
CCACTGAGCCATCTCTCCAGCCCCGTACACTTGAAATCTTAAATAATTTTTCTAAAAATCAAAGGGCAAAACCACTCATGACCTTGCAAATATG
ACACCAAAGTCCACTTGACATTTTTTACCCACATTCTTCAGGTTTTCACATCTGCTCCTTGAAACAGAAACATCATCATTTGCTAGAGACACCC
TGGTGAACCCAGCAGTAGATCTTTATGATCTATAGAGGGCCCCTTTTACTGGGGGTGAGGATTTGAAAGACAATTTTAAAAGGACAGAGGAACT
TTATACTTAGCGTGGCGACATACAGGATAGTCTTCTGCATCACCACTAAAAACAGTTCTCCGTCTTATAATCATGTGCATGCCAGAGAGTAACC
ATTTTTATTGTCACCTAAGGAAGACCTGAAGAACTACCATTCTGTGATATTGTCAGAAAATGGCTACCTCTACCTACACCCGGTTGTGTACATA
ACTCCCTTATAGAAATGACGTGGAAGTTACCAAGCTCAAGTGCAGGGCAGAACTGTCTCCACGTGCTTATTCGTACCTTTCCTCTTGGTGTATT
TTTCCCTCGTGCAATATAGTAGAAAGCTAAAGCCAGACACATGTGCACCCCTCTTGTAGTTACCAAATGGCTCTGTGATCTTGTGGGCATTGCT
TACTACCTTTGGGTATAACTTTCCACAATCTTTAAGCAAGTTGATTGAGTCAGATCATCTGCAGTCCCTTCTACCATTGGGCTGCACCTGCTGT
AGTGAAATCTTGAACCCATACCCTTGGCATAAGATGAGGAGCCCCTGGTCCCATCCAGATGAGATACAGATCTACAAGAGACTCATTTACATAC
TGCTTAAATACTCACTTTTAGTCAAAGTGAGTCTTCCTTCTGCTTTTCCTTACTATCTGAACAGCCAGAAAGCAAGATGTATTCTAAACCTCTA
CTAAGAGTATCAAGAAAAAAGAACAAAGAAGAAAGGGAGTTGAAGAAGTGAAACTGTACATTTGGTTCTCTTACACAAATCCATGTGACAATTC
TCTTACGCTGCTGTGAATTTACACGGCATTACGCTGCTCTGTCAATTTACAGCCAGAGTCTTTGCCTTCTCAGTGTGGAATGGAACTCAAAGGC
ATGAGTGGTTTGGTCTATCACAGTGTTCAAACCACTCAGAGCCATTAGCTGGGTAAACTTTGACCTCTTCGTGTACCATTTGCTCAACTGTGCT
GCAAAAATCAGAGTTTCAACTTCTAGTGAATATGTCCTTGGCTTACTGTAATTACCCAAGGCTGGTTACATGACACACATATATTTGGATTCAT
AGTCACACAGTGTACATTATAGTCCAGATGTGGTTGTATCCACGAGTCTTTATTGTAGTGTACATGCATGTTTGCATATTCGGGTATGGACTCC
TATGTATTGTGTCCATTTGATTAGCTGTAAACTGGATGTCAGTAGTGGAGCTGCTTAACTAAAGAGAGAAGCTAATTACCAAGGACTTGACTTT
ACTAATGTACTCAGGCTGAAGATGTGTTAGGTGTTAGGTGAGATCATGGACAAGCCATCTGATTTGGTCCATTATTATATTTTCAATTATCTTT
CATATTCAAAGAGAGACATTAATATAGCTGAGGATGACATAGCAAATTACCACAGCTCTCTAACCCTTTAAATTGCTAATACTGTTGTAATCTG
TAATTATAGAAATCAGTGTGAGAATTGTGGCAGTGCATAATTATCTTCCTGATACTTTATTGCTGAATGAATTATTAATCAGAATCAGTCTTGT
ATAGTATTTGCAGCAACGCAGAAGAATAATGTATAATTAAATTTCATTATTCTGATTTTTGTGTTAATGTTTTATGATGTTGTAATTGATAATT
AATTGGCCAAAACTCATACAGTACTTGGAAGTTTCAGGTGGCTGGGAAATGTTCAGTGTGCTGAGTTCATTAACTAAGCAGTAATCATTCTGCA
AAGACCAAGGGATCTTGTCCAAGCTATGTGAGAGAGTGCTTAAAAGTGGTGTCTTAAGCTTGAGCTTTCACATTTCCTTTAAAAAAAAAAAA
GCAATAACTGTGAGCATGTACAAATGATGAAGACATCTTGATAGCTTTCAGATTGGGTCAATTTTAAGTAATCAAACATAGGTTGAGAATGTCA
GACTAATACAGTCGGTAATTTGGTATGCCTCTCTATATGTCAATTTCCATCCTATTCTAATTAAACCATCCTTCTCCACATTACTATAGTGTGA
GGAAAAGTGCCACGGCCATAGACCTAAGAGCTCTTTCCTCCTGGTCTTGGTGAGTATAACACATCACATAGCACATCCTTGTAAGGAAAGTCTG
GTTTCATCTTTCCCTATTGTTCAAAACACTATATGGCCCCCTCCTCACAGACACATAGATTTAGACTCTGAAAGGATTATGAACTTCTCCTTGA
CTGGCATTCTAAGCAGGAATTCCTGGAGTGAGTTTCTTTTAGAATCCTTTGCAGCCTAGGTAACCAGGAAAAGCGCAGAATCTAAGAATGCCTT
TCACCCAGCCTGATTCCTATTGAAAAGATGCATTGTTGGGCATTTTGTGGACTGTGCTCTTTGATTCGATTTTTAAGAGGCCAAGGAATCTTTT
TGGTTTTCAAAGTATCTGCTTTAGAAACATACAATTTTTCTCTTAAGCAGGTGAGCCTGTTTTTACATTCTGAAACATTGTATT
AGACAATGTTGACAGTGCATGCTTATTTACGTATTTATTTATTTATTGTCTTTTTCTGAGCAGATTAGAAAACCATGGCGGGGAGGAACAAAGG
GGTTAGGGGACTGTTTCTGAGATTCCTGAACAAATTTGCCTCGACATTCCCAAGAAGCTCTCAACTGGCTTATTTTTGTGAGTTGCACTTGGTT
CTGATGCCTTCCACTCCCATTTAGTCAAGAGGAATCTGTCATCGGACCACAGGAAAAACGCACTTGCTAGATGGTCTTCATTGATCTTATTGAT
CTTGCAATAAAGATCAGCAGCAATCCTCAAATCATCTCCTCTCCACTCCAGGTACTCCACAGCCATGTTGATCCCAGGGTACCCACAATTCCAA
GGCATCACCCCACTAAGCTTGCTCACACTAACCGCCTTCTGAACTCTCAGCTGAGGACCTGTGCCGCTGTCACCTTCTAAAAGCCAGTGCTGTT
GAGTTTGAGGTGTAAGTCTGTGTTTATAAACAGGCGGGGTCAGAGTCATCTTTCATATGCAGAAATAAGGAAGGTATTGACAAAATAGAACAGC
TAAACCATATTCTACAAGGATCCACCTTGTGTGCAAACAGCGGATAGAAAAGGCTCTTTGGTTCATGAGTAGTTGAGTCCTTCCCTTTATGTGA
CTTTGTATGACTTTAAAATAGGAAGAAATCTGGAGTATGCAAGCCAGAGACTGGAGACACTGGGGACAACTCACTGAGCAGGCAGTATATGAAC
AAAGACCTGAAGTTGATTAGAGACTAAGCAATCACTTTCATCCCGAGGCAGCCTCTCAGGAGACAACACGTTCTCTTCATCTCACATATGAGGA
GACTCGGAGAATGTACACAAGCTGCTCAGACCACCCAGCCCTAGGAATTCCCAGTAGGTTTGGAGGGGAGGGGAGGAGGGCAGCCACTTCAGAT
CAACTGTTAATGGGGGTAAAATGCAGATTTCTAACCACAGTAGTTACACTAAATGCACATATGCAACTTGAGAACTATTATCATTCAAAGAGAT
AGGAAATTAACTACAGAGTCTGAGGTGGGCAGGAGGCACTGCCTCAATTAAGAACTACAGGTTACAAAAATATAAGCCACTGTCAATCTGGGAA
TGAAGGGTGGATTTTAAAAGTTGGGATGATAGAAAAACTAACTTTATTGATTACTTACTAGGTATTGAATGAGTCAACTCATGAACTAATGAGC
AAATGTGCAATGCCTTAATCCTCAGAACCCTAGCTCTTTATTACACCAGTTTTAAAGAGTTGGGGGGAAGGAGGCAGAGAAGGCTAAAAGACAT
GTCTGAGGTTCAGCAATAAGTGAGAAACAGGACTGAAATCCAAGCAGTCTGGCTCCAGCCTGCGCCCATCACCATTGCGTTCCTCTACGGCATG
TGCAAGCTGTACTTAGTGAGCGCTGCATTCCTGCTCAGGTCCATGTCCAGGCGCCGTGCATGCTTGTGTGTTAAGTCCTTCCCTCTGAATGGCA
TCTGAATGCAGATGAGACACCCTTACCCAGAGTTTCCATGGTTTTCTGAGATGACAGCCTGATCAGCATTCAGATTCAGGCAGGCAGGCCCCAG
AGAAAGCACACACATCTCTACTCATGAAAGAAGAGTCAGATGTATATAAATGCAGTGGAGGGAAAGCAGGGGAAGTCTGTCCCAGAGAGGAATA
TGCAAGGCACGTGCGTGTAACAAATAGGAAGGGGTGAATGTCTTAGGAAACGTTATTAGATAACCATCTGCGAGAGTTCCCCAACTACCAGGCA
CTCCCTTTAACATCAGAGAGAAGTAGATCAGGAGTTACATGTCCATAAGAGAAGACTTTCTTGGTCTAATTGTGTAGATTTAGCCAATCCGTGA
TGAGTGTGGTTCCTGAGTGGTTCATTCAGAGTGCTCACTCTTAGATCCATTGCCTTCTGTGACCTTCATGGTCCCAGGGGGACGCTGTGGAAGG
CAGGCTATAGTGATGTCATGGCCACAGCTGCCAAGAAGCATGGGAGCCCACACTTTGTGCCATCCTTGCAGCCTTAAGCAAATTGGCTTTTACC
CACGTTAAAGCGAAAAATGCAAGCAAATGAAACAAATGCCTTTTGTTCTTCATATGATCTCCATCGACCTCCATATGAGAAGTCCTCCGTGTGT
ACAGAATTACAAACGTATGCACTGTGCAAATAATTGTTTCTCATGATGATAGTTTGGGACGGAAGATGTAGCTCAGTGATGGGGCAGTTGCCTA
GCATCGGATCCCAGTACCACAAAGAAAAAATTAGTGTTTATTTGAGCACTTACTACAAAAGTAAGTAGCATCCTAAATACTCTATTGTTAGAGA
GAACAAGTGTTACAGAAGCCAATTAATGTGCCAGCATCTGTCATCTAAGAATTAGACAAGCAGGAATCAAATGGTAACCGTCTGTGTAGGGAAG
GAAGGAGAACCGGCAAGTGGGTGCTGTGTGGACTCAGGAAACTAAGCCGCCTCTTACTGCCAGCCCACCCAAACAGTTTTGAGTTACTCATTCC
TGACCGTTCAGGAAAAAGAGTATTTTCTACCCCTGGAACAGAGCAAATTTTGACTTTTTGTAAAGGGTAAGAGAATAGGGCTAGGAAGATGGCT
CACTGGCTAAGAGCAGTCACTGCTCTCGCAGAGGATCTTGGGTTTGATTCCCAGGACCCACCTCAGGTGCTCATAACTGGTTGTAACTGCAGTT
CCAGGGGCATCAAACGTTACCCCCGTGAGCAAGGTGCACATAAATTCATGTAAGCAAACACACGTAAACATAAATATTTCTAAAGGGTCCTTTC
TTTGATACAGTTTGCGTTACCCAGAAGACACTCTGTAAGGCAGAAACGTGTGAGTTCTGCGGCACGGCAGCTTTATTCCAATAGCATGCTCTGG
GTGGTGAAGCATCTGTGTCACATTTGGTAATCCCTACTCGAAGATGCTGCCACGGAACGCTCCACGCCCACGGTTTCCCCACCCCCGCTTTGCT
GACCTCTGCTTTTCCCGTGCTCTTTGGAGAGACTTTCGCCTCTGCTAATCTCCTCCCTCCTCGGTTGGCCTCCAGTACGGCGGCAGATGGTCCA
AGTCCTTGTATTACTGAATGTGAGATTAACAAACTGCTGGCCCATCCTCACCTTGGGAGTTTAATCACTTTTAAGTAGAACAGAGAAAGGAAGT
AAGGGAGGCAGACATCTGTAGAAATCCACAAGCCTTTCTCAGAATACCTGAGCTTTGATTCGCTGCTGCCTGGTTTGGTATGCTGTGCTTTTAT

TTCCTTAGTTACCAGGGGAGTCAGGTGCAGTCTGAGCCTCTTCCATCCTGCTTGCATTCCTGCAGAGAAGATGTTTCAGAACAACACGGATCCA
CAGGACCCAATGGGTTGGGGGGTGGGGGGTGGGGGTGGGGACAAGTTCTCATTTGTTCAGAACCTCCTCGTGGGCCAAAGGGGTGGTTCAGCAGG
AAATGAACTTGCCTTGCAAACCTGAGGACCCATTAAACTCGTGATCCCACAAAGGAAAGAGGGAACTGATTCTCGAAGGTTGTCCATTGGCTTC
CACATGCTCACACGCATGCTCACATGAAAGGTTGTCCATTGACTCCCACATGCTTACACGCATGCTCACACGCCATACACACACTAATAGTATTTAT
CAGTTACATCAGAACAAAGATGTGAAGAACCTGTATTTCTGCAGCCTTTGCAACTGTGACTCTGCTTTGTTTCGCCCTGTAAGCTATGTGCCCT
CTTGGGAGCCTGGGAGAGCATCAGCAGCAATCATAAGAGTGAAGAGTCACCTAGCCGCAGATGCTCTTTGTGTAAGGCAGACCTTTCCCCTGAC
TGTGTGTCTGGAGGTGGACCTGCACACAAAGCAGGGCTTAGCTTCAGTGATGCAGTCTCGGGCATCCTAATCATAGCCAGTCGGATCTCCCTTT
GGGAAGTTTCACGTAGTAGCACATGTAGGCGATACTAACCTGTGCTAGCCACAGTGACATTGCTAATACTGCCTCTGAAATCCGCATGCAAACT
TCAGTCTAGTATTGTCACTTGCCTGATGCCTAAACTTTTGTTAATTACCATAGCAAATCACTTGAAACAGACTCAATAAAAACAAAATTATTTT
TAATTATAGCATATGAGTGTTCTGCTCTCGACGCTGTCCTGGTCCCTCCCCTTTATTTTCTCTCCTCTTCTCCAATATCTGGCTCCCCGACACA
TCTAAAGCCCTCTTAGAACTGAGTTTAGTTTCTCTCTTCTATCTTAGGGCTGACAATCATGATGAAGCTAAAATTAGGCAGAATTAGAATTACA
GTGCCCCTTTTCCACATTTGACTCTCTGTTGTCTTTTCTTAATCTTTGATTCTGTTGTGAGTTTTTTTTGACTCGGTTCTTTTTTTGAGACAGA
ATAATTTCTGCCAGATTCTGGGAACTCCCCTCCCACCCGATGGGGTCGGTCTGGGGAGGAGAAGTGAGCCCCAGTTGAGCCCAGCGCTCAGTAC
AGGTCTGCAGCGCCTTCTATTAAAATGTAAAGTGATCCGTTGAGTCAGCCTCCCTCTGGTTTGACTCAGACGCTTTATGGTGCACTTTGCATGT
CATTTCTCTGTAATGATTTCCCCATGGAGAAGGGTGTCTGATAGAATCCAGGCAAGACTGAAGATTGCTCTGAGTCAAATGGATCTTTTATTCT
TTTAGTATTAACCCTTATCTCTCAGTTTCCCATCCTCGAATTTTCCCTGAAGGAACCTTAATGAAGTAAACAGGCCTCAGCACCCTCATTTAGC
TTCCTAACCACTGTTCTCAGATTCTTCTCACGTTAACAGTGGGAAGCTCCGGGGGGAATAGTCTGTGGTAGAAGGGGACATTGAGAGAGAATATT
CACACAGATGCCCTGATAAAGAAAAATGTAGAAAAGAGATGACATTTCTCTGTCCTCTAAGAGGCAGCTGCTAATGGGAAGCAGAAAATGAGCT
ATGAGAAATGAATATAAATGGAGATGGAAGAAGTGACACCAGAGACAAACCGAATGTGACAATTTGGAAAAGAAAGGTGACCAATAGCAGAAAA
TGGCCTGACCCAGAAGAATAGACAGTGTCACCTGTGCCCTCAGATTGGTGGGGTGGGGGGGAGGGAGGCAGCTTTGCCACAAAAGAACAACAGA
GGAGGAGGGAGGGAAAGAGAGATGGAGAGAGAGAGAGAGAGAGAGAGAAGGCACGCCATCAGAACAGAAGAACAAGGTAGACAGCC
GCTTGCCCTGTTGTGTCCCTTCCCAGTTCCACAGTCCTCTCCCTCCATTGTCCTCTGTTGCCCCAGCCATCACTGACTGCGACCACTCATGTTG
GACTGCCTGGCATAAAGACTCTTTCACATGACAATTTCTTTCTCTCTCTTTCTTCCTTTCTTTGTTTCTTTCTTTCTTTTTTTGTTTTTGTTTT
TGTTTTTTCGAGACAAGGTTTCTCTGTGTAGCCCTGGCTGTCCTGGAACTCACTCTGTAGACCAGGCTGGCCTTGAACTCAGAAATCCGCCTGC
CTCTGCCTCCCGAGTGCTGGGATTAAAAGCGTGCGCCACCATTCCCGGCCACAGGCCAATTTCAATGCTGCATTCATTTGAGAGTGGTAGTTTA
CGCCCCATCTTACTGTTCAGTTCAAGCTGTGGCCTTCTCCCTGCCTCCTAAGCAGCATCACTTCACCTGGGGTAACTACAGAAGGAAGAGAGAA
GCAGCACCTCTTAGGTGAAGCACTGAGTCCAGCCTGCCTCCCAGAGCGGATTGAGGTGGGAAGACGTGTTCCTCCGTCCTACTGAGCTTTGTGC
TTTGCTAGATGTGAAATTGGCTTCTGAGTCACCTTTTCTTTGGACTGACTTGTTTATAGACGGGGAGGGTCACAGCGTTACTGAGAATCTTTCT
CTCTTCAGCTCGCTCCAGATACATAGTAGCATTTTCCATCCAACCAGTTACATTGTTGTTGATACATCAACCTTTCTTTTAAGAACTGTGGTTA
GAAATGCTTGCTTCGAGCCGGGGCGTGGTGCTTTTAATCCCAGCACTCAGGAGGCAGAGGCAGGTGGATTTCTGAGTTTGAGGCCAGCCTGGTT
TACAAAGTGAGTTCCAGAACAGCCAGGCCTATACAGAGAAACCCTGTCTAGAAAAAAACCAAAAAAAAACGAGAAAAAAAAAAATAAAAAAGCT
TGTTAAAAGACTTTTCCAAAAGTAATACTTTCATAGAAACACAGATATTCTAACTAGGAATACTTTGAGTTCACCTGTTTCTTCTTGCTACAAA
TAAGAAAATGGAGATGCAGAAACTGATTGGCTTTTGTGAGAGAGGAAAGCATGGGATCTCTGAAAATAACTTACAGTGGGACAGATGCTGGGGT
CCTGGTGATCCTAGGGCTTCAATATGTGAATCAGTTGGGAATACAGATAACTTTACTCAGTAATACTGTGTATCATAGGTGTTTATGATTTGTT
CATTTTTAGTACAATAATAGAATTGTGGTATCATGTTTTATGTCTATTATAATTATATATTGCAATTTTTACATTGCTTCTGTGG
ACTGACATTCAGTGTTAGGTTTGTGACGTCAATCTGCATGCTACATATGGCTCTAATTCGCTGTTATTCCATGTATAAATAAATAAATACTGTA
TACCTCAGTGCTACTGACAGGCATTGCATTGTTTCTACTAGAGGGTTATTATAAATAATGCTGCCGTGAATATCCTTATTCAGTGTTCCACTTT
GGAACCTGGGAGAATCTCTACTGTAACCTAAGAATGGAATTGCAGGGGATAACCCATGCATGCCTTCAACCTCGCTAGATAATGCAAGTTGTTT
CTAGAGATACTAAGACAAGTCTCATCAACAAGCAAGAACTCCTGTTGCTTCAGCAACAATATTAAATTTAATATTGTCAGATTTTCTACTTCTT
TCCAAGCTGGTGGTTATGGACTGTCTTTAATACTTTATTATCTTTAGCCAGATTCATTACAGTTTGCCCTAGCATCATATTATATTTTCCAGAT
CAGTGTCTTTGTCAGCTTCTGCTTCTTCACTCAGATTATTTTAAATATGAAAAGTTAGAATGAGTCGCCATTTTCTCATTGGATACTTTGGAGT
TTAGATCTTTTTTTTTTTTTTTAATTTTCATCTGTGCAAATGAATAAATGAAACAACCACCACAGATGCAGAGCTTCTCGTGACTGCTCTGTGTT
CAAATCTGGGTGTACTTCTCAACTGTGAAAGTAAAAAAAACCATTGTCGCAAAGGTGCTAGTGAATCCAAGTTCCTCCTGAAAGGTCAAGGAAA
ATGGACTTTTATACTGAACTAGGGAACCTTTGAGAACTCTGAAGGACTTGATGATACAATTGCAATAGCTCCAGTCTTAGCAGTGCCCTTAAAT
TTCAGTTCCCTTGGCGCTAAGCAGGAGGCAGACAGATGGGGGCTTTGAGGAAGTAAATCAGAGAAACCTTTTAGCTGATCCACGCCAGGCCCTC
CCTCTAGCTCTCTAAGGCACTAGGGACATTAAGCACTCAATGTTTGCATTAGGAAAGACTGAAGCTTTCTACTTTCAGTGAGAAGTTTGATGTG
CTTAGAAAGAGTTTGCAGACCACACTAACACCGACTCTGACTCCGTTTGAATAGCTCTCTGCACTCACGAGTCTCTATAGACATGCTAACTTCC
TCCTCTAAAAACTAACTCTTACGAATTTATAGTAAATAACTTTTTAAATGCTTGATAAGAGCAGAAATTCACTCGGCAATTACTAAATAATTTA
GCATCTGATTCACAGAAGTGTTTACTTAATGCACTGTTTCTGGGAGCGGTGTGGGGCGCACCGAGTGAAGTGGTTTATAATTTACTCCTTTTCT
TCACCCGCAAGGCATATTAATTTTTTTTCATCCCAAGCATTCTAGACATGACAGGTTGTCTGTAAAATTTAACATTCTACTTTTTTTGTGAATT
GCCGCTTTTCTGATTCCCCACTGTGGATTTTTTAACTTTGTGAATTATACTTTTAACAGAGGAACTGTTAGACACTTCACTATCTGAATATGAT
TCAGTAATGAATGAAGAGCGGGTAAGCTCACAAGTGAGTCTGCATTCATTAATACGGCATGCTTGACTGAGAAGAGTGTGGCCTCCGTAGCTGC
TTTTGAGGGGATGAGCATGCTATGATAATATAGTAGTAATTAGCTTCTCCTGCCGAACCATATGAGGAAATGATTGGGGTGTGTGTGTTGTGCA
CATGTGCAGCTGGGGTTTTTGGCATGCAAGAAGAATGAGATCAGCCAAAACCCAAACCAGAGCCTTTGGAAAGCTCCCTCACAATCTGACTTCA
GCTAATGTCTACATACTTTAACACATTGTCTACTGCTTAGGGTAAAGCCTGGCTGTCAGACTCCTGCGTGCTATTCTGGGATCCCTGCTCCGCG
CGCGCACTGTGAAGTGTTTCATTCTTAGATCCTGTGATCCCTGCTGCTTTGTTGCATTAGGTGGCAAGCGTTGCTTAATTAACATTAGGAACGA
ACGAAGGAGAAATAGAAAGCAGGGTGCTCGCTCCTGCAAGGGAGGAAGAGCCGAAGGCAGATGAGAGTTCACAGAACACACGTGATGAGGCCGG
ATGAAAGGGCTGCAGGAATAGGGTGCCATTGTGCTTGAAGAGACCCGGGGAGGGGTGGATACAGTCAGACATGTAAAGAACAAGAGAAAGCCAA
TTGGACAACTACAGCAGAAAGAACTATCCAAGAATCAGGTAACAGCATCCAGAAAAGTCACTAAATAAAGGTCTAGCAATCGTTTCCTGATAAT
GGATTTCAGGGTTTGCCTTGTGTGCGGGTTAGCTTTTATGTCAGCCTGACACAGGCTACAGTCCTTTTGGAAGAAAATACCTCAATTGAGAAAA
TGTCCCCATCAGACTGCCCTGTGAGCGAGCCTGTGAGGCATTTTCTTCATTGATGAGATGTGGATAGGCCCATCCTTCATGGGTAGAGAGACCC
CTGAATGGGTGATCCCAGGTGCTATAATAAAGCAGGCTGAGCAAGCCATAAGGACCAAGCCAGTAAGTACCACCCCTCCATGGCCTCTGCATCA
GCTCCTGCTTCTAGGTTCCTGTCCTGACCTTTTCTCAGTGATAAACTGATGTGGAAATACAATTGAGATAAGCCCTTTCTTCCTTGAGCTGCTT
TCTTCTCGGTGTTTTATCGCAGCAATGACTAAGACACCTACCATGTGGAAGACCCTGGGTTCATTCCCCAGCACCACCCAAAATAGATTTCAGT
TTCTACTGTTTGCTGAACAGAATTAATATTGTTTAAATGTCTTCAAATCTTAATTGATGGCTTAGCCAGAAGAGCAGATATCCTTGCGAATGTG
ACTTTTATAACATTCTTGGCCAACTGAGACTCCATATATGGCCCTATCCTCTCTTTTCAAAAGCCAGTTCTCTTAGGAAAAGGCTGGGTCCTCG
AGACTCTCCCTTATTCCCCAGCTGTCTGGGAGCTCTGCAGCCTTGCCTGAATCCTGGAATATGGTAATCCAGTCTCTGCCTTGTTTTGCCAACT
ATTAACTTCCTCGTGGGACATGATTCTTGTCCTCCTCTCCAAAGTGGTTAGGACCTCAGTCAGGTCTCAGTGGAATCTCAGCTGAATTTCCCTG
GTGACATATCTGCAGTTCATATTTGCTTGCTCAGGCGATGTTCCCAGAACGGACCCTCCAGGTTAAGGTGAAGCCACCAACAGCGTGACTTCTC
CATGTTGCTCCCAGAAGCCCTTCACACTTGGGTCCCCATGTCCTACAAGGAACTTAGTTCAAGAAAGTTACTGCCCTATCAAGGAATATCGGGG
TGCATCCTGACAGGAGTTCCTAATTTGGGCTCTGCAGAGCAGGAGACTGGAATCCTGCTTTCTCCCCCAACCCTAGAGAAACCTTTGTACATTG
TCTACTTCATTTCTTAGAACCACCTCTTCAGAGACAACTTTTTATTTGATGCAACTTCTGCGACAATTAAACTGCACTCATAAATTGTCTTCAA
AGGGCCTAATTAAGATAATTTCTGTCAACTAGAAGGTAACAACCCACCCTCTAAATCACTTGGGTCAATTTCCCTCACAGCCTCCTGAGGGTTT

TAGAGCTGTGAGATCCCAGCTGGACTTGTGGTCCTTGCTTCACATTTTGTGATCCTGGATTCAGATACAAAGTGAAGCAGCAGTTTGTCCACAT
CCACAGAGCGGGTCAGTGCCACAGCCGAAGCAGAGGCCACTGCTCTCTCCGCCGCACCTCAGTTTCATTGCTCTCTGGGCTATCAACCCTTCCA
TATTTCACTTCATTTATGGCCTTGTGTTCTTCAAAGCAAAACTCTGTCTCAGTACAGTTACAATGATAATAGATTGCCCATAAGAATATTTGAA
AAATGGCACACTTTATTAATCCCTTCTTCTGATGACGTTAGTGTGTCAGCCATCTATTTTTTTAGAACATTAGTTGCTCAACCAGGTTTTCAGT
GTTGCCTGGTACATATGAACTGTTACATTTTTTTAACTCAATACATTGTGTAGACTAATAGAAAAATCAAATGTGATAGGACCAGAGGTAATAA
TTTGAGAGTGGAGAAGTCAGGATTGAGACTGTATGGTAGACACAAAAATTCTGGAAACATTCCAAGGAAGTGGAGGCTAATTAGAAGACAATAG
AGAGGCTCAGCAGCTAAGAACACTTGCTGCTCTTAAGAGAGGACCTGAGTTTGATTCCCAGCACCCATGACAGTGGTGCATAACTGCATGTTAC
TCTAACTCCAGGAGTTCCAATGCCCCTTTCCTGTTCTCTGTGGGTACCTGCATTTGTGTGCAAATGTCTTAGTTAGGGTTTCAATTGATGCAAC
AAAACCACCAAGACCAAAAAGCAAGTTGGGGAGGAAAAGGATCATTTAGTTTACACTTTCACGCTGTAGTCCATCTTCAAAGGAAGTTAGGATA
TGAACTCAAACAGGACAGGTACCTGGAGACAGGACCATGGAGGGGTGCTGCTTACTGGCTGGCTGGCTGTGGCTTGCTCGGCCTGCTTTCTTAC
AGAACCCAGAGTCACCAGCACAGGGATGGCACCACCACACAATAGGCTGGACCCTCCCCCATCAATTACTAAAGGAAATGCCCTACATCTGGATCT
TATGGAGGCATTTTCTCAATTGACCTTCCCTCCTTTCAGATAACTCTAGCTTGTATCAAGTTGACATAAAAGTAGCCAGGATACCATATGCAGG
AATACACACATATACATAATTTAAAATAAAATAAATCTTTTTCAAAGAAAGGCAGTTTAAAAAAAAAAAAGAACTTGCGTTCTTTAACTCAGTA
ATAAAGAATTTACTAGCAATTTTCTAGAGCTAGACACCAAGAGACCTTGACTTTATTCCATGTCTTAGGACTGTTTTGTATGAATTGTGTCAGT
TATAATGTTATTCTTCGGATTTCACAGATTGTAGATAAACAACTTTACAAATACTTCGTTTTTATTTGAATGCCAAAGAACTAATGTGTTTTCC
TCACAAAAACTTTTTGTAATTAGATTCTGAAAAAAACACCACTTATAGCAGAGCATAGTTTACACTGTACTGTTAGCAGTGTGGTACGTTTTGC
TTGTAAAGTACTAGAGAAATCATAACTAATAAATTGAGTGCCGCTGAGATGACTGGAGTGGGGAGGTCAGGGTGCTTCCCTTGGCCACCCTGGA
GAGGACTGGCACCTGTTAGTTGTCCTCTGACCTCCACTGTAAGCAATGGCACATTCTCTCGCACACATGCACACACACAATAAACAAATGTTTA
AAACCTCTCTTAAAAAATAAATTCAGATATTTTGCTTCTAGCCAAACTTGAGCAATGAGTATTTTTTTTTGCATGTAAAATATGTTTTATTGTT
CTTCAAAAGGGTTCAGGGTTTGGTTGTAAATCAGGCTGCACACCTTCCGTCAGTCTAACCTCTCTCACAAGTCAAACTGGCTTCAGTTAGCAAT
ACTTCATTAAATCCAAAAGAAAAAGAGTTTTAATTTTGAGGGGAGGAAAAAAAAAGTCCAGTTCTGAGAACAATTAACATTATTAGGGTTGCTT
TATTCTCCTTCACACACCCTTCTCCCCAGAACCAAGAATGACACTATCTCAGGCAGGCTGATGCTGGTGGACACCTGCATGTGCAGACCCCATG
GGAGCTATTGTGCTCATGAACAAATACACACACACACACCAAAATTCTAGCATGTCAAGTGGAAAAGGTTTAAGTGGTATTGATCAAAACCCTT
GAGGAGTCAACAGTTAACCTAACTTTTAGGTAAGAAGTTTGATCTTGAGTCTTTGTGAAAGAAGCATCTATTGCCATGCTCTGAAGTAAAAATT
TCTGGATTATATCATCATCATCATTTTTCAACTTTAACATTCTAGGAACAGTGTCAAAAGCATTATTTTTCATTTTCTGGGATGAGGCAGGAAG
GTATTTGCATTTAGTTAAAAATCAAAACAATAGCATCAACAGTAAGCAGGCAACTCAGAAAGCCACCAACATCTGGGTATTATTAATGAGATGT
CATCCATCCTACTGGCTTGACAACACCCAGCAGTGAGTATTTTATTTACACTTCCACCTGAATAACTACTAAGATAAAGTATGAAGTAAGGCTT
TTGAATACCTTCGAGGCCTGAGCACATAGCTCAGTTGGCAAGTAAATGGCATGTGGGTGATAAGACCTGAGCTTGATCTGCGGAACCTGTGTTA
AACGCTCTGTGATGGCTGCAGATGCGGTTCAGCTGGGAAACAGCTCTGCTGACCAGCACGTACAGAACATTAGGCTTGGTTCCTGCGCTACGTA
AAATTAGGTGTGGCATCGAGTGCCTGTAATCCAAGCACTTGGCAGGCCAGGGCAGAAGGAGCAAAAGCCTGTTATATATACATAAGAGAATTAA
CCAAAAAAGGCAACCAAGGTGGTCCATGCTTGTCTTCTCAGTGCTGGGTATACAGAAACAAGCAAACCCTGGGGCCCACTGGCCAGACAAATCA
GTGCTCTCTAGGACAGTGGGCAGGGCGGGGAAGAGGAGACAGACACACGCACATGTTTGACTCCTTATGAACAACACTTGAGGTTGTCTT
CTGGCCTCTATAAGCATGAACACACACATTAATGACATTTCACATTAGATATTAGGTGGCAACGAATAGGAGTCCCCCAAAGACAGTAAAGGCT
CTAGCCCCAGAACACTGCTTTGCGAGTTTCCAGACCATGGAGCAAAAGAAAACAAGGCATTTTGACGCTGTCAAGTGGACAGAGCTCAGTATTT
GGATACATGGTTGTGGCCAGACAGAAAATAGGAGGGGGGGGGGGCAGAGAACAGAGAGCCCCAGAGGTTGCAGAAAATCTCCCTTCAGTGTTCT
TCAGAGAACTGATGAGCACAAGTGTGCAAAGAGGCATCTCAAACATCTCAAAGTCTTCTGTGGAGATAGAACTTAGTGCTTGGAAAGTCTGGGG
TCAGTGCCTGTTCCTCATCGCCCCAGATTTAAGCAGACATGAAGTACAGTGCTCACAGATGTCATTGATACATAGTGAGGAATAAGGCTCCCGA
GACTACATGTTCTTCTTCATACAATCTCGAATGCACAATCTGAAAGGGTCAAGCTGCTTCCCAGAACCTTATCCCTGTCTTGCAACAAAGCTTA
GAACTGTGTGTCATAACCCAAAATATCCATCATAAAAATTGAGTCCAAAATGTAACTGACAGTGTCTGGCATCTGGCCAAGTATGTCCAATAAT
TAAAAGAAAGGAGGGTTGTAGTGGGGGGATCTGAGCCAGAACCCATACACATACCGAATACCATGCAGTAGTGATTGTGATTTTCATGTCAAGT
CGGAAGGTTAAAATTTTTAAGCAGAGACATAGAAGACACTGTAAAACACCCATGTTGGACTTCTTTATCAATCCCTGAGGTCACAATGAGATAA
AAACTGCATTGCCTTTGAAAAAGATGAATGGCAGAGTAGACATTGCTGAAATGGAGACCGTCCAGGCTGGAAAAAGCAGAGCCATGTTTGAATG
AGCAGGGTGGTTTAGAACTGTAGACAATTTCTTATCAGCAAGTCTTGGGCTGTCCTAAGGAAAAGAGTAGATGAGACAGCAAAAATATTTGGCA
GAAACAGTTGAGAAAATGATGGCTGGAGTGTCATCAGGTGTGAAAGCTCCCACAGACCCAGACACAGGAAGGAGAGGACATCAGTGCTCACCAT
AATCACACTGCTTGGAAGAGGGAGGGGTACACTTGGAAGTAAAGGAAGGCTTAAGCAAAGGGGAAAGGAGGAACAGAACTAAAGGTGCCAGGCC
ACGCCCTCTCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
AAAACAAAAGGCTATAAGAACTTATAAGCAAGTTAGGCAGGGTTGCAGGACACGGAGTTGTTTCTTGGTGCTAGGTAACTCAGTGATAGAACAC
GTGCCTAGAATTCCAGCAAGAGGCCCTGACTTAGATCTCCAGCACTCAAAAAGAAAGTATTTATATATTAACAATGAATAAACAACAGTTGATG
CTGTAAAATATTTGAACACTTAGGTATAAACCTGAGAAAATAAAATATATTAATACTCATACAGCACTAAAATTTATTTTAGTGGAGTTTATC
AAGTGAAAACTTTGAAAATAACTATTAGGAGAAGAAGACAAGCAATGGACACTGGAGAAAATACTAACCCGTATTAAACATAAAGGGCTGTTGA
GAATATCCATCAGTAGATGTGAATGGCTTAAAACTCGAACTATATCCATATGGTAAATATAATTCAGCAATAATATAACAAACTTTTCTTTTTA
TTATTTTTTAAATTAGCAAACAAATGGTATTTATTTTTTAATATTTTTATTATTTAAGAAATTGATACAATGTATTTTTATCATACTCACTCCC
ACTCTTTTGTTTTATTGGTTAGTTTATTTCTTTACATTTCATATACTATCCCCCTTTCGTTTCCCCTCCATAAACACCCTATCCCTTCCCCTCT
CCCCCTGCCTCTATGAGGGTGCTCACCCACCCACCCACCCACCCATTCCTGTCTCCCTGCCCTGGCATTCTCCTCACTGGGGCATCAAGCCTTC
ATAGGGCCTCTTCTCTCAGTAATGCCTGACAAGGCCATCCTCTGCTACATGTGCAGCTGGAGCCATGGGTCCCTCCATGTATACTCTTTGGTTG
GTGGTTTAGTCCCTGGGAGCTCTGGGTGGCTCTGGTTGGTCGATATTATCGTTCTTCCTATGGGGTTGAAAACCCCTCCGCTTCTTCAGTCCTT
TCCCTAACTCCTCCACTGGGGACTCCATGCTCAGTCCAGTGGTTGGCTGCAAGCATCCCCATCTGTATTGGTCAGGCTCTGACAGAACCTCTCA
GGGGACATCTATACCAGGCTCCTGTCAGCAAGCACTTCTTGGCATCAGCAGTAGTGTCTTGGTTTGGTGTCTGCAGATGGGATGGATCACTAGG
TAGGGCAGACTCTGGATGGCCTTTCCTTCAGTCTCTGCTGCACTCTTTGTTCCTGAATTTGCTTTCGACAGGAGGAATTCTGGATTAATATTTT
TGAGGTGGATGGGTAACCCCATCCCTCAACCAGGGGTCATGCCTATCTACTGGATATGGTCTCTACAGGTTCTCTCTCCCCTTTGTTGAGTGTT
TTGGCTAATGTCCTCCCTGTTGGATCCTGGGAACCTCTTGGGTCTCTGGCATCTGGGACTTTCTAGTGGCTACCCATCCCCCCACTGCTAACCT
CCTTTCAAAATTCTCCCCATCTCTAAACTGCCCCCCTTTTCCTTCCCCCTGCTCTCTCTCTCCCAGGTCCCTCTCTCCCTCTACTTCCCAATAT
TATTTTCTTCCCTTCTGAGTAGGACTGTAGCATCCACACTTTGATGTGATCTTCTTTCTTCTTGGATTTCATATGATCTGTGAGTTGTAGTGTG
GGTAATCAGAGCTTCTTTTGGGTTAATATACACTTATCAGTGAGTGCATACCATGTGTGTTCTTTTGTGACTGGGTTAACCTCACTGTCCTGGC
TAGTTTTGTGTCAACTTGGCACAGCTGGAGTTATCACAGAGAAAGGAGCTTCAGTTGAGGAAATGCCTCCACAAGATCCAGCTGCAAGGCATTT
TCTCAATTAGTGATCAAGGGTGGAGGTCCCCTTGTGGGTGGTGCCATCTCTGGGCTGGTAGTCTTGGTTCTATAAGAGAGCAGGCTGAGCAAGC
CAGGGGAAGCAAGCAAGCCAGTAACATTCCTCCATGGCCTCTGCATCAGCTCCTGCTTGAGTTCCAGTCCTGACTTCCTTAGTGATGAACAGCA
GTATGGAAGTGTAAGCTGAATAAACTCTTTCCTCCCCAACCTGCTTCTTGGTCATGATGTTTGTGCAGGAATAGAAACCCTGACTAAGACACTC
ACTCAGGATGATACTTTCTAGTTCCATCCATTTGCCTATGAATTTCATGAAGTCATTGTTTTTTAGTAGCTGAGTAGTAGTCCATTGTGTAAATG

SAGRES DISCOVERY 02-02

GACCACATTTTCTGTATGTATTCTTCTGTCGAGGGACATCTGGGTTGTCCAGCTTCTGGCTATTATAAATAAGGCTGCTGTGAACATAGTGGGA
CATGTGGCCCTTGTTATATGTTGGGACATCTTTTGGGTATATGCCCAGCTCACTCTCACTCTTACCCCTAACTCCTCTCAGATAGACTCTTCCT
CCATCCCTCTCAAACTATGTGCCCTCCTCTTTCTTTTCTTTCATTCTTTTTTAATGAGCCCACCAAATTCAATTTCTGCTGCCCATTTACCCAT
GCTGTGTGGCCGTGTGGCCATCTACCGGAACTTGCAGTAGACTTGCCAGAGAATACACCCTTAAAGAAAACTGACTTTTTCCCTTCCTAGGAAG
TGACCAACTGTCCATAGCTCCTCATTTATGGGTGGAGACCCCTTCTCTCTCTCTATGCTAGAATTTTGACTAGCTTGATCTTGTACAGACAACC
ACAACTGCTGAGTTCATGAGGATACCAGTCCTGCCATGTCCAGAAGATACTGTTTTGCTCTGATTCTCTGCAACTTCTGTCACTTAGAATCTTT
CTGTCCCCCTTCCACCACTTTCTCGGGCCTTTCAGGGATGTAACATAGCTGTCTCACTTGTTCCGAGCACCCTAGGACTCTTAGTCTCTGTACT
TCCACCAGTTGTAAGTTCTTGCATTTGGCCACCATTTGCTGCACAAAGAAACTTTTCTGATGATGTCTGAGAGCTGCCCTATTCTATGGGTAGA
GAGATCAAGACATAGAAAGCAGTCCAGCCAAATGGATGTATCTGGAGGATATCATCCTTAGTGAGGTAACCCAACCACAAAAGAAGTCATTAGA
TATGCACTCACTGATAAATGGATATTAGCCCAGAAACATAGAACACCCAAAATACAATTTGCAAAACAAGGGAAGACCAACGGGTGGATACTTC
GTTCCTCCTTAGAATAGGGAACAAAATACCCATGAAAGGAGTTACAGAGACAAAGTTTGGAGCTAAGACGAAAAGATGGACTATCCAGAGACTA
CCCCACTGGGGATCCATCCCATAATCAGCCACCAAAGGGACCCTGCTAGAGCTGTCTTGTATGAGGCTATGCCAGTGCCTGGCAAATACAGAAG
TGGATGCTCACAGTCATCTATAAGATGGAACACAGGGCCCCCAATGGAGAAGCTAGAGAAAGCACCCAAGGAGCTGAAGGGATCTGCAACCCTA
TAGGTGGAACAACAATATAAACTAATCAGTACCCCCAGAGCTCGTGTCTCTAGCTGCATATGTAGCAGAAGATGGCCTAGTAGGCCATCACTGG
GAAGAGAGGCCCCTTGGTATTGCAAACTTTATATGCCCCAGTACAGGGGAATGCCAGGGCCAAGAATCGGGAATGGGTGGGTAGGGGAGCAGGG
CGGGGGGAGGGTATAGGAAACCTTCAGGATAGCATTTGAAATTTGAAATGTATATAAAGAAAATATCTAATAGAAAGAAAGAAAGAAAGAAAGA
AAGAAAGAAAGAAAGAAAGAAAGAAGGAAGGAAGCAGTCCAGCTAGCACTGTAATAGTAGTAGGCTCACTCTGAGGCCTAGGAGTTCTTTAACC
ATGGGTTCTTGGTCAGATTTAGAGTACCAGTCATTTGTTTCCTCCTGGACAAAAGGACTTTAAGTCCATCAGAAGTGGTTGGCTACCCCCATAA
CCTTTGTGCCACTGTTGCACCCATGGGTGTGCCTTGCCGTGCCGGTTATCATTGTAACTGATAGGGTTCACAGATTGTGGATGGCATTTTCTTC
CAGCACCTACCATAGCACCTTCCAGTACTGCGAAGGCTGACCAGATAGGAGAAAAACCCCTGCTCAGTACCAATCTGATTTCTTCATGCCCTGT
GACAAAATCTCTGTGGTATCTTCACAATAAGGCTCTACCATCAAGTTCTGGTGAGCAGTCAAGACCAACAACAATGCCATGTGCTGTTGGAAGG
GTATCTGGGACATCTCTGTTCAACATCATGAGGAGAAGAATCCCACGGGTGATCCTGGGCTTTTCATTTGGCATCTTATGGCTTCTGAGGGGAG
CATAGTCTCCTATGTGGGGTGCTTCCAGTTAAGCATCTTTATATGTTTATGTGCTTCGGAAGCTTATAAAGCAGTCGATTTCCGGATGGCCTTT
TCAAACATCCTTAGGGTTAGTTATCCTTGCCTCTTCTACCCTACTCTCCTGTCTCTCTGCTCACCTTAACCTCCCTCCCTTATACAGTGTATTT
TCTTACATATATGTCATAAACATTGCTCACGTTTGATCCCACTGTACTCCTGCCCTTCCTTCCCCTACCTTCTTCCCTCCAAATAGCTCCCCTT
ATGTTTTCATAGTATGTATGTATATATGTATTATGTATGTATTATGGTATATGTATATGTGTGTGTATATTTAATTCTAGGTCCTGCATATGAA
AGGAAATGAGATGCTTTATATTTCTCTTCTATTATTTTTACTTGTTCTCTTTTAATATAAACACCTTCTAATTTCATACTTAAATCTATATTCT
GCATATAAGAGAACATGTGCAACATTTGTCTTTCCAAGTCTGACCAATTTCACTTTCCAGTCCCACACATTTCCCTGCTAATAATATGACATTC
TTCTTTAATCTTGAATGACACTCTACTGTGTATTGTGCAACAGGTTTTCTTTATTAGTCTGTATTGTTGTCTGTATATTGGCATCTAGGCTCTT
CCTGCTTCCTGGCCATTTCAAAAGTTCTGTGGTAAGCACAGATGTGCATGCCAAGATAGACTCCTTCAGGGTATGCCCAAGAGTTGTACATCTG
GATCATAAGCGTAGCCTAGTTTGAGCTTTTTGACACACTCTGTGCTGGTTCCCATAATGGCTGTACTAGATTACATTTCATCTTAATGTAACTC
TAGAAGTGGAAAAGAGATGTTGTCAGAAAGCAGAGCGTAGATTTGGGGCTACTGCGAGGTGTAAGGGCTGCAGCAGACTTTGGGTGGTGATGGG
ATGTTCATGTTGATTGCACTGATGGCTTCCCATCAAAATGGCAATTGCATATTCCAAATATTGCACTGTCATGTACTAACGCTGTTTTCAGAAG
CTAGAAGGAAGAAGGACTTGCTACTGGAGTTTGTGCTGGTAGTAAGCATGACTGGAACCCAGCCTTTGGATTCAGTTATGGACAGTGCATTGTA
AAATTACTCCCAGGGCTCCTTTTAAAGCAAAGAAGTCTTTGTAAAAAATAATATTACTTTGAATATCTCTTTTCTCATGGTTCCTATTGCAATA
TTGTTTCCTTAAAGATACATCACAGTTTGATATTGGAGACCAGAGTGACCACTGCACTGTATTGCTCATATTCCGCCATGAGGGGCAGAAGGCA
GATTGAGTAGCAGACTACACACAGTTTAGTGCATTCATTAAATCATATCTCATGGTTAAATATTTAGTCTACTTAACATCTCTGCCAAATTTCA
GCTTAGGAACTTGCATGTGCTTTGTCAAAACAGCATTTCAAATACTTCAAAAATGATTTGTTCCTTTTTAACACCAATCTCAGGTTGTAATTAG
ACTGTACACACAAGCTCCATTTTAGCCTCCTAACGAAATCAAAACTATGTAGTGTTAAGGTGCTTCGTGAAAAGATGCAGGGTCAAGAGATGCA
GTGAGCGGAAAGGAAGCAATAGGTTGCACCTCCCAGCCATCCCTGGCCTTGTTATGCCAACACAAAATGACTGTGGTGTTGCTGTAAATCTCCT
TCCAAATATGCCCCGGCAATGAAAACACGACACAGTTAATGCTGTGCACCTAGATTGGGCAGATCTACGGCTACACTACCATCTTCTACAACTT
ATGAGACCCCTTAGAACTTGCAGTTTCTCCAGGCCATGTGCTAATGCTCCACTTTTCTTTGTCTTCTTCTACCTCCTCCTCTGCATCCTCTCCC
TCTTCCATTTTCTCCTTCTTATCTCCCACTCACCTTCTGCTCCACCTTCTCTTTTATCTGCCCAATCATCAGGTCTCCATTATTTTACAAATTA
AGGTGGGAAGCAGGTTTACAGGAAATCACCTGAGTGCTGACTCATTCCTTGTTCTCAGCCCCTCACAGGAGAATGGAATTAACACCAAATATAA
TTAGCCCCAGGGCTATGCACAACATTTCCCCCTTTCTGTCCAATTAAAAGACTATTTTATCTCAGATATAATTGAACATAAGTATTATTATTTT
GTAATTTATAAAGTACAAGAGACCTAACCCAGTCCATCATCCTTGTTAATTAAACAGAACCTCTGTCATCTATTCTTACTTAAAAGACTTATAA
TTCTACATCTGGCTATGTCTTGGCTTTAGATTGAATGCCATCTGAACACCATCCTCTCAAAACTGTTCCTCTCCAAATAAAAAGCCTGAGTTGG
CTAGGAGACTATGTAGTTTTTCAACCTCATCAGAAATCTAAGAACGACTGATATTAACTGGAAATATATAGAAAGCCTAAAACGGCTTCCAAAA
CGTAGCCAATCCATAGAGACTGCTGATCACCTGGACAGTCCCTTACTTCAACACGCTGGAGCATCGGTCTTCAGCCTACTGGCCAGGGTCATCT
GATGGACTTAGAAAAACAGGAATATTAAGGACTAGCCTACTCTGTCTCGGCAGAATCAAGCTGTCCTAACCTGCAATTGCATCCTTTCTTTGGA
CAGTATTATGTCTGTAGATGAAATGAGGCAATTCTTGCCTAGTGGCTGTTTCACCACAACTGGAGTAACTCTAAGGTGCTCAGTTTCTTCTTTG
AATCCAAGACCGGGAAAGCTGTCAGGAGCAGAATGGTCTCAATAACAAGTGAATAAATAACATTAAATGTCACATTCTGTGGACTTCTGATGTT
TCGGAAAACCAACTATCTATTTAAAGTAATGTAGACAGTTCTCTGTTAACTGCTCTCAGCCATTTCTAATTAAAATAACTGAGAACACCCTAAC
AATAAACTCAGAGCCATGAATTTCCTATTTGGCCCTTAACTCACAGGCTTAGACATCTCAGATCTGTTTATAACAGCAATAGAAGGACTGGGTT
CAAGCCTTGTACTTCAAAATTTTTAGAATCAAGGACCACCTATAATAACCACCCCCAGCCCCAAAACCTAGGAAACTGGGATGACGACTCTTCA
TAACTTCCTCAAGCTGATTATGGGCATTGAGATATTTTAAAGGGAGGGGGAAGGGTAACGAAATGCGGGAGTTGGTTGGCCTTAAGAAGACCC
CACCAATGATTGTATTAGTCTCTGATATCTGTGTCCTTACTGGATTCGGATGAGAAGCCAAGAAATCAGGAGTTAGTCAGGTCAGTTCAGCATG
TCTGACGATGAAATTCACCAAGGCTGAATATTCTGTCATATATAAATCTCCAAACAAAATTTTAGTATCATCAAGATAACCTTTTTGGGGTCTC
CCGCTATCAAATCTGATCCATATAACTCTGGGAGGTGTAAATACATTATTCACCTTTCCCCAAATCAGCATATCCTTCAGCCGGTAACCAGGA
AAACCTGTAGCTTGCCCTCTGTCCCAGAGGAACAATAATACAGCCACATTACTCAAAATCACACACATTTTAGCCTATTTAGGCCTTTCTAATT
TGTCATATCAGGATATTAGCCCAAAATTCCCGTGGATCCCACTGTGTACAGAGTATGAGTCTCCTGCAGACTTTATTATACCATCTTTTAAACC
ATTGATTTAAAACCACACTTCTATTTTCCTTCCTTTTTCCTTTTCCTTTTCCTTTCCTTTTCTTTCCTTCCTTTCTTTTCTTTCCTTTCCTT
CCCACTTTTAAGGTGGGAAGCAGGTTTACAGGAAATCACCTGAGTGCTGACTCATTCCTTGTTCGCAGCCCCTCACAGGAGAATGTAATTAACA
TCAATATAATTAGCCCCAGGGCTATCCACAACACTACGGATGCTTAGTAGTCCTGCTCCCTCTGCCAGGGCTCATGGGGACCTGGGAGCTTTGG
TGGTCTTTTTTCCTCCTTTGTGACTGAGCCAGCCTCTCTTTATTCCAGGGTTTGAACGGCATGTCTGTGGATGAGAAGCCTGGCTCCCCCATGT
ATGTATATGAGTCCACAGTCCACTGTGCCAACATCCTCCTGGGCCTCAATGACCAACGGAAGAAGGACATTCTCTGTGACGTGACGCTGATCGT
GGAGAGGAAGGAGTTCCGAGCCCACCGGGCTGTGCTGGCCGCATGCAGTGAATACTTCTGGCAAGCACTGGTTGGACAGACGAAAGATGACTTG
GTGGTCAGCTTGCCTGAGGAGGTACAGTGATTTGGTGTGGTTGTGGGGTTGTGGTGGAAGTTAGACGTGCACTGTGCCACGTGGATGGCCACGT
CACCCATGTCCACATCACGTCACCCACATGTGGGCTTGTAGCATAATCAGTTTCTGTTTGATGCACTTGAAGCCTCAGAGGCATGAATACAAAG
TGAGCGTGCTTCTTTAAGGGAACTGAGCCTCACCTGGGGCCCTGGCCCTCATAGTTTCTAGTTCACTTAAACTTCGGGTTTTGAATAGTTCAAC
CTCATTCTGATGCAGTCCTCTGTGTAGGATTTGAATCACTACTATTTCTTCTCTTTCAAATGGATCATTAGATTTCCCCTGAGAATAAAACAGC
GAAAGAATTCACAGGACCTTCCTTGCTTAGGAGAAAAACAAAGCGACCAGCAATTCTCACCATTAATGCAGTGAGATTCTAAGAAGTGTAAATT
TGCTTTTCTCATCAGGATTGAAAATATCCCCTACTCAGGTTTCTTAACTGCTTCAGTGAGAACAGTCATTTTGGTACTTTGGGGACATGAATAG

CAAGGCTTGTTCTGTGCAGAGATGACAGTCAAGTGGTTTGAGAGGCAAGGACCCAAAAGATGGGTGTCACAATGGTGAACCATTAAACTGGTCA
CTCTTCAGACTGCTTATGATTCTTCAGTCATTCGTAGCCTCCTTATCTTCAGAAGACCGGGGTTAATGTGTGAATCCTTGAGCTTTGTGTGCAA
TGCAGAGTATTCTCTGCACAACACCAATATATGATACAACTGCAGAGCCTCTGGCAGCCGTTTGCAAGCTGTGTACAGCACAGCATGCAGGAGC
ACAGCTCACGTTCACGTCCTTGCGAATGAGACCCAGGGTCACCTCTGCAGCTTCCTCACAGCAGTCTTCTATGATAAGTCAAAGACCAAAAATG
TAAGGAGTTAAAGATTACACTTACCACTCCATCCCGCCATCACCAACTCAGATGCCTTCAGAGACATAGCGGTGACATTAACAACTCAATAGTG
CTTTGTAAAGAGTAGGGCGTGATGGAGTGAGCAGCTAGACCACCAAAAACACGTTCAAGCCTAACACGAGAGAAACACAAAGGGGGCTGGAGAT
GCAGCTTGGATAAATTGCCTAGAGCGTGGTCCCCAGCAATAAAAACAAGACGCATGGGATGGAAGAGACACCAGATTTCAGTCCCTTGCTACAC
AGCATTTGTGACTACCCCCGCAGAGAGCAGAAGAATGGCCAGCTGATGAACCGCTGACGTTTGAAACATCTTCACATAGGCACCCTGTCATAGT
CACAACCAACTGCTCCATTCCCATTTCCTACACAGCCGTGAGAGAAGGAAAAGAATAAGTCATTTCAAGATTAGGTAGCCAAGATCAAGTCTTG
GATCTAGTAAGAAGAGAAGGAGAGCGAGCAATGGCAGCTGGGTCCTTAGCAGGATGGGCGGTTCCCATCTGCACTGGATGGAGGCATGGCGGTC
TGTAAACTGCTCCTGGGCTTCGCAGCTGAGGTAGTGATGTAATGCTGCAAACCCAGCCCATCCTGCAGCAAGTGCTGCTCAGACACATGTCCTT
CTTCTCCAATGGGAACAAAGACGACATCCTCCTCACTCAGTCCAACTCTAGAATTCTCTGGAAATAGTTTCATGACATCTAGTTATACAAAGTA
GTCTTAGAGGAGGTGACACATGTTGCCTACTTATTTCTGTTGTGTCTTGGAGAGCCATTTCATATGTGTATATGTATTACTAATTTCCAAAACT
TAGATATTAAAGCAGATACACAAACGAAGTCATACTTTATGTATCGAGTCTTCCCTCAATGACTGTGTTAGCCCTACCTCATACTTCCTAGAAA
AGAAGACCTAAGCCCAAGCCTGTTCTCAATTCTAACCTGGATCCTGATCTACTAATCTCTCCGAGCCTATGTGTGAGTGTGTGCATGTGTGTGT
GTTTGGATTTTGGGTTTTTTTCCCCACACCAGATTTCTCTTTGTAGCCTTAGCTGTGCTAGACCAGGCTGGTCTCAAACTCTCAGAAATCTGCC
TCCTAAGTGCTGAGCCATGATCTTAATTTCAAGAAGCCCTAAAATTCTGAAGCCCTTAACCTATAATCAAAATACAGTACCCATCCAGTAAAAT
GTGAAGGAAACCAGGGTATAAATAAATGTTACTAAGCCTGAAGTTTCTTCTCAAGTCAA

MOUSE SEQUENCE - mRNA

CGAGCTGCCATGTGATGCGCATCCCCTCCGCCTGCTCTCAGTGACCCCAGGACCGCCCACCACGCCGGCGGCCGGGAGGGGGCTGCGGGCTGGG
AAAACACGGGCAGGACCGGCGCAGGGGGACAAAAGTTCCCGGGAAGCTGTCTGCTTCGAGAAGTGAGGGTTCTGAAACAAGAAGGACCTTCAGG
AGCTGCTCCACACTGTGACATGTCTGATCCCTTGTGCCCGTCCCTGCAGCATGAACAAGGTGGACACTCACTGATCTATCACAAGATTGCCTCA
CTGAGTTTGGGGGTCCATGTCTGAATGGATTGCTGTAGCCTTCTCATCTCTTCCTCTGCCCAGTTCCCAGCATCCTAAGACTCGAAGCCAGGAC
AGGACCTGGGGAAATTATATGGTTTGAACGGCATGTCTGTGGATGAGAAGCCTGGCTCCCCCATGTATGTATATGAGTCCACAGTCCACTGTGC
CAACATCCTCCTGGGCCTCAATGACCAACGGAAGAAGGACATTCTCTGTGACGTGACGCTGATCGTGGAGAGGAAGGAGTTCCGAGCCCACCGG
GCTGTGCTGGCCGCATGCAGTGAATACTTCTGGCAAGCACTGGTTGGACAGACGAAAGATGACTTGGTGGTCAGCTTGCCTGAGGAGGTCACGG
CCAGGGGCTTTGGGCCACTGCTACAGTTTGCCTACACTGCCAAGCTGTTACTCAGCAGAGAGAACATCCGGGAGGTCATCCGCTGTGCTGAGTT
CCTGCGCATGCACAATCTGGAGGACTCCTGCTTCAGCTTCCTGCAGACCCAGCTCCTGAACAGGGAGGATGGCCTGTTTGTTTGCAGAAAGGAC
AGTGCGTGCCAGCGCCCCCAAGAGGACCATGGGAATTCTGCAGGAGAAGAGGAGGAAGAAGAGGAAACAATGGACTCAGAGACAGCTAGGATGG
CTTGCGCCACAGACCAGATGCTCCCAGACCCCATCAGCTTTGAGGCCACTGCCATCCCAGTAGCAGAGAAAGAAGAAGCCCTGCTCCCTGAGTC
TGAGGTACCCACAGACACCAAGGAAAACTCAGAAAAGGGTGCATTGACCCAGTACCCTAGATATAAGAAGTACCAGCTCGCGTGTACCAAGAAT
GTCTACAGTGCACCCTCACACGGTACCTCAGGGTTTGCGAGCACATTCAGTGAAGACAGTCCTGGCAATAGCCTCAAGCCGGGGCTCCCCATGG
GACAGATTAAAAGTGAGCCACCCAGTGAGGAGACCGAGGAGGAGAGCATCACCCTCTGCTTGTCCGGAGATGAGACCGACATCAAAGACAGACC
AGGAGATGTCGAGATGGACCGAAAACAACCCAGCCCTGCCCGTACCCCAGTACCCGTACTGGAGCCGCCTGCCTGGACAGGTCCAGGAGTGTG
TCCTCGCCTTCCTGCCTGCGGTCTCTGTTCGGTATAACGAAAGGTGTGGAGTCCACTGGCCTGCCCAGTACATCTCAGCAACCCTTAGTCAGGA
GCTCAGCGTGCCCTTTCAACAAGGGGATCTCTCAGGGTGACCTTAAAACTGATTACACCCCTTTGGCAGGGAATTACGGACAGCCCCACGTGGG
CCAGAAGGATGTGTCCAACTTCGCAATGGGGTCGCCACTCAGGGGGCCCGGGCCGGAAACTCTCTGTGAGTTCTCCTCTTCGCCCTGTTCCCAG
GGAGCCAGATTCCTTGCCACGGAACATCAGGAACCAGGGCTGATGGGAGATGGAATGTACAACCAAGTCCGACCCCAGATTAAATGTGAGCAGT
CTTACGGAACCAATTCCAGTGACGAGTCTGGATCATTCTCGGAAGCAGACAGTGAGTCGTGTCCTGTGCAGGACAGGGGCCAGGAGGTTAAACT
TCCTTTTCCTGTCGATCAGATCACAGACCTTCCCAGGAACGACTTCCAGATGATGATCAAAATGCACAAGCTAACCTCAGAACAGTTGGAGTTC
ATCCACGACATCCGGAGGCGGAGTAAGAACCGCATTGCAGCCCAGCGCTGTCGAAAGAGGAAGCTGGACTGTATTCAGAACTTGGAATGTGAAA
TACGGAAACTGGTGTGCGAGAAGGAAAAACTGTTGTCGGAGAGGAATCACCTGAAGGCGTGCATGGGAGAGCTCCTGGACAACTTTTCCTGCCT
CTCCCAGGAGGTCTGTCGAGACATCCAGAGTCCAGAGCAGATCCAGGCCCTGCACCGCTACTGCCCTGTCCTCATACCCATGGATCTCCCTGGA
GCCAGTGTTAACCCTCCTCCTGTGGGTGTTGAGCAGAGCCTTGCACCCTCCCCGTGTGCAGTAGGAGGAAGTGTACCCTGCTGCCTGGAGCCAG
GGGCGGCTCCCCCCGGGCTCCCCTGGGTGCCCAGCAACACCTCTGAGAATTGTACCTCTGGGAGGAGGTTGGAAGGCAGTGACCCTGGAACATT
CTCAGAACGAGGACCTCCCCTAGAAGCCAGGAGCCAGTCTGTGACGGTGGACTTCTGCCAGGAAATGACTGAGAAGTGTACAACGGACGAACAG
CCCAGGAAAGATTATGCCTAGCCGGTGTGATCAGCTCTGCCGTACCCACCACCCTACCCCCGGGTCTTCACACCTCTCTCATCTGGGTGTTCTT
CTGCCAGCCAGTGGCGCTGTTCATCTGTGTCTTGAAGAACCAAGAGCGAATTTGGTGCACACTACAGCAGTCTTAGCAGCAATACTGTTTCGAA
GTATTCCCTCCTCTCTCTAAGCAGGAGTGCTAGTTACCTTCATAATGGTGCTACCCCTTGCCCTGGCAAGGAAGACAACAGTGTCGACACTGTC
TGTCTGTGGGTTCATTGCAAACTTCACAGGGATAGACTACACCTCTAGGACCCAACCACGGATTTTTTTTTTCTCAGTGGCCCATGTCACAAAC
CCTATCTCAGGAATTTCTTCTGAATGTTCAATTTTTTTCATTGAAGACAGCTTCTATACACATCAAAGTTTTATAGCTATACTGTGTACATAGT
ATATATAATATATATGAAATATATATCCATATGCAAAAAGTCCTGCATGCCTCAATTTTCTCATCCCTGAAACTGGAAGCTTCACTTATCATTT
ACAAACAGGTTCCAACATTCCTCTTTTTGTGTCTGGTGCCAGAACTGGTTTGGAAGCTGTTAACATGGCTGTTTTGCTTGCTGCACAATTCGGT
TTCCATCTGTGCTTATTTACAGACAAAATTCAATGTTGGGAGATGCTTCTCAAGGTTCAATCTCAGACCTTTTACTTTCGTTGGTTTGGTTTTG
GTGCCGCCGAACGGTGTCAGGTGAGCACCGTGAGTCCGCTCTTCTCCCCTTGTGTTTTCCCCTCGTCTCTGCGGATACTGTACAGCAATGGTCA
ACTTTGCCACTTGCACTGAGTTTTGAGTCAAACCTATTTTCTTAAATGAAGTTGTAACTTCGGTATAACTCAAGTATATTTTTTTTTTCGTTTC
TTTTTCTTTTTGGAGACAGGGTCTCACTATGTAGCCCTAGGTGGCCTGAAACTTGCTAGGTAGACCGGGCTAGCCTTGAACTTAAAGAGATCCA
TCTGCCTCTGCCTCTGCCTCTGGAGTGCTGGGATAAAGAGTATGCACCACCATGCCTGGCAGTCCGGGAATGCCTACCCGTTGGCCACCATGAC
ATTAGGTAGGAAAGCAGCCGGAATCGCTCCTCTCTGGCGGCTGAGGGTCTCACTGAGGAACTGAACCAGCAGATGTTCTACACCTTCTGTGCTG
TAGGAAGAGAACTCAGAGCTGCTTCCAAGGCTTTGACACTGTGTGCAGGGCTAGAGGCCAATGGTATAGGAGCGGCCGGTAGGGTTGTGAATAG
AAGAACAGACGGGGGCCGTCACCGCCCACTCGTACCACACTTTCTTGGAATTGCTGCATCGCCAGAAACGCACACAGATGTTCTGGCCTTCGTG
CACCGTGATGGGCTGCTTAATGGGGAAGAAGATGGGGAACCATGAGAACATTCCAGGAGAGTGAGTCTCTGGGCGGATACTCAGAGTGATGTCC
CGGTAAAGCACAGTCTCAAAGTAGCCTGCGAAGCCATGAAGCACCGTGTTCACCTCCACAGGAAACTCCAGGGTACAGTAGCGGTTGTTGTCAA
TCATAGGATCTCGGTTGGGATGGCTGAAGGTAAAGCAGGGCTTAGGAGCAGAGAGCTGGTGGAAGTTGTGCAACCGAACCACATAAGGCATCTC
AAACTGTGCCTCAGGATCGCGGTCCTTTTCCCGACAGGCACGGACCTCGTTGTACAGCTTAGAGGAAGAAATGGGAGCCAGGAAGGAGGTGTAT
TCTCCAGGGATGCTCACGCCATCATCTTTCAGGAAGTGCTGTGCTCCATCCAGACACTCAGGTGACAGCTCGTTGTCGGCAAAGGAACCCAGAA
GCTCACTGACAATAATGTCAGCTTTCTCCGGAGCCACCCATTCCCGCATGTCTGATGAGACAACTGTCACCTGGCTCCCCCATTCTTCAAACTG
CCAGTTCTCTAGCGTCACCACAGCATTGGGGTTCTTCTCCACAGCATACAGCCTGATCCGCCGCTCGGCCTGTTTGGCTGCCCGAAAAGACGCA
TTCACAAGAGGACCCCGGCCTGCACCCAGCACCATAAGTACCTGGACATTGGTCTCCTTTTCTTCTTCTGGTACTCGGTCTAGCAAACATTTAT
AAATAGCCTGCTGATATTGAGAGTATTTGATGGGGTCCTTTTCAAACACTTCATATGTCTGAGATTCCAGATTGTCCATCAGAGGCTGGAGTGG
GGACTGCAGATAGTCTTCATAGCCTTTGGCAAAAAGCTCATAGGCATTGGGTGGAGGGCGATTTTGGCTTAAGTATTCCAAGTACTGGAGGTAG
GAACAGAACTCCTTCTCTGAGTGGTGGTTGGTTCCCGTGATGATAAACTGCACTTCCAACTTGAGGAGCCGGAAGATCAGCCTCTGCTGCACCT

TAGAAAGAA

MOUSE SEQUENCE - CODING

ATGTCTGTGGATGAGAAGCCTGGCTCCCCCATGTATGTATATGAGTCCACAGTCCACTGTGCCAACATCCTCCTGGGCCTCAATGACCAACGGA
AGAAGGACATTCTCTGTGACGTGACGCTGATCGTGGAGAGGAAGGAGTTCCGAGCCCACCGGGCTGTGCTGGCCGCATGCAGTGAATACTTCTG
GCAAGCACTGGTTGGACAGACGAAAGATGACTTGGTGGTCAGCTTGCCTGAGGAGGTCACGGCCAGGGGCTTTGGGCCACTGCTACAGTTTGCC
TACACTGCCAAGCTGTTACTCAGCAGAGAGAACATCCGGGAGGTCATCCGCTGTGCTGAGTTCCTGCGCATGCACAATCTGGAGGACTCCTGCT
TCAGCTTCCTGCAGACCCAGCTCCTGAACAGGGAGGATGGCCTGTTTGTTTGCAGAAAGGACAGTGCGTGCCAGCGCCCCCAAGAGGACCATGG
GAATTCTGCAGGAGAAGAGGAGGAAGAAGAGGAAACAATGGACTCAGAGACAGCTAGGATGGCTTGCGCCACAGACCAGATGCTCCCAGACCCC
ATCAGCTTTGAGGCCACTGCCATCCCAGTAGCAGAGAAAGAAGAAGCCCTGCTCCCTGAGTCTGAGGTACCCACAGACACCAAGGAAAACTCAG
AAAAGGGTGCATTGACCCAGTACCCTAGATATAAGAAGTACCAGCTCGCGTGTACCAAGAATGTCTACAGTGCACCCTCACACGGTACCTCAGG
GTTTGCGAGCACATTCAGTGAAGACAGTCCTGGCAATAGCCTCAAGCCGGGGCTCCCCATGGGACAGATTAAAAGTGAGCCACCCAGTGAGGAG
ACCGAGGAGGAGAGCATCACCCTCTGCTTGTCCGGAGATGAGACCGACATCAAAGACAGACCAGGAGATGTCGAGATGGACCGAAAACAACCCA
GCCCTGCCCGTACCCCCAGTACCCGTACTGGAGCCGCCTGCCTGGACAGGTCCAGGAGTGTGTCCTCGCCTTCCTGCCTGCGGTCTCTGTTCGG
TATAACGAAAGGTGTGGAGTCCACTGGCCTGCCCAGTACATCTCAGCAACCCTTAGTCAGGAGCTCAGCGTGCCCTTTCAACAAGGGGATCTCT
CAGGGTGACCTTAAAACTGATTACACCCCTTTGGCAGGGAATTACGGACAGCCCCACGTGGGCCAGAAGGATGTGTCCAACTTCGCAATGGGGT
CGCCACTCAGGGGGCCCGGGCCGGAAACTCTCTGTGAGTTCTCCTCTTCGCCCTGTTCCCAGGGAGCCAGATTCCTTGCCACGGAACATCAGGA
ACCAGGGCTGATGGGAGATGGAATGTACAACCAAGTCCGACCCCAGATTAAATGTGAGCAGTCTTACGGAACCAATTCCAGTGACGAGTCTGGA
TCATTCTCGGAAGCAGACAGTGAGTCGTGTCCTGTGCAGGACAGGGGCCAGGAGGTTAAACTTCCTTTTCCTGTCGATCAGATCACAGACCTTC
CCAGGAACGACTTCCAGATGATGATCAAAATGCACAAGCTAACCTCAGAACAGTTGGAGTTCATCCACGACATCCGGAGGCGGAGTAAGAACCG
CATTGCAGCCCAGCGCTGTCGAAAGAGGAAGCTGGACTGTATTCAGAACTTGGAATGTGAAATACGGAAACTGGTGTGCGAGAAGGAAAAACTG
TTGTCGGAGAGGAATCACCTGAAGGCGTGCATGGGAGAGCTCCTGGACAACTTTTCCTGCCTCTCCCAGGAGGTCTGTCGAGACATCCAGAGTC
CAGAGCAGATCCAGGCCCTGCACCGCTACTGCCCTGTCCTCATACCCATGGATCTCCCTGGAGCCAGTGTTAACCCTCCTCCTGTGGGTGTTGA
GCAGAGCCTTGCACCCTCCCCGTGTGCAGTAGGAGGAAGTGTACCCTGCTGCCTGGAGCCAGGGGCGGCTCCCCCCGGGCTCCCCTGGGTGCCC
AGCAACACCTCTGAGAATTGTACCTCTGGGAGGAGGTTGGAAGGCAGTGACCCTGGAACATTCTCAGAACGAGGACCTCCCCTAGAAGCCAGGA
GCCAGTCTGTGACGGTGGACTTCTGCCAGGAAATGACTGAGAAGTGTACAACGGACGAACAGCCCAGGAAAGATTATGCCTAG

HUMAN SEQUENCE - GENOMIC

ATGATGTGTACCTGTAGTTCGAGCTACTTGCGAGAAAGAGGCAGAAGAATCACTCGAGGCCAAGAGTTTGAGGCTGTGGTAAGCCATAATTGTG
CCACTGCATTCCAGCCTGGGCAACAGAGTGAGACCTTGTCATTCATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGAT
AGACAGGAAAAGGAATGTAATGGACATTTCTCCAAAGAAGATATACAACTGGCCAGCAAGCACACACACAAAATTCTCAATATCACTAATCATT
AGGGAAATGCAAATCAAAACCACAATGAGATACCACCTTACACCCATAAGGATGCCAACTATTAAAAAAAAACTAACGTGAAAAAAAATAAAAT
AAAAAGTATTGGTGATGATGTGGAGAAACTGATACCTAGAGTAGTCAAATTCATAGATATAAAAAGTTAAAAAGTGGTTTTCAGGGGTTGGGGA
GTTGTTTCATGTTTTGCAAGATGAAAGGCATTCTGGAGATTGGTTGCACAATATGAATGTACTCAACTCTCCTGAACTGTACATTTAAAAATGA
TTAAGATGATACATTTTATATTATGTGGATTTCACCATAATTTAAAAAGTAAATTTTAAAAAAGAGGGGGTGGATATAATTATAATAATTGCTG
CAAAGGATTTAGGTCCAAGGTACCTATAAAGAGGATCTGACCTGGGTAGTGGTGAAGAAAGCTCCACTTAGCTGAGAGCAGAATGAGTAGGAGT
TTGCTGGGGGGAAGAAAAGAGGTAGAAAGAACAATATATGCAAAATCCTTGTGAGGTGAGTGATCTTCATGCACATGGGATGCTTTCTTAGGTA
TCAACTAAGTATAAACCTTTATTTTCACTTGACTATTTCTGTTTTTAAAAATGGAGACATAACTTATCAACACAGATTGCAAAAACCTTAAGTG
AACAGCTCAGTAAATTTAGTAAAACACTTTGAATCCAGTAACAGTCAAAAAAGGTGCAGTTGTGCTTCCTTTATCCCTTCCTGCCCCTTCCCCT
AATGCTTCCCTGGGCTGAGGATATGTCAGGGGGAGCTTTCCATACTGAAGGAGACTAAAGAGCTAGCACAACTAACTGTACCCCATGATCCTGA
CTCAAACTTTGCCCTAGAAAGGAAAAAAGATATTGTTGGTACAGTTGGTGAAATTTGAATAGGGTCTCTGGATTGAGTGGTATTGTTATACTGA
TGCTTACTTTCTGATTTGGATGTTGTATTGTGGTTATGTACCATTATTCCTTTTGAAAATGTGCACTGATGCATTTAGCAGCTGATGGAGCATC
ATTGTTGACAACTTACTTTCAAATTATTCAGAAAGAGAATAATGGTAATGGGTGTTTATATTAGATATTTCTGCAGGCATACGGAGAGAGAAAG
AGAGAACAAATGTGTTAAAATATTAACAATTGGGATATCTGCATGAAGGAGATATGGTAGTTCTGTGTATTACTCTTGAAACTTTTCCTAAAGT
TTAACATTATTCCAAGATCAATTATTTTTAAAAGATACTGTCTATGATGGCAATGGACTCACAGGTGAGGCAGCAGGTAAGAGAAGTGAGATTA
GACATAAAGATAAACATTTTATCTGTCACTGAATTTGAAAAAGCAAAGTGTCAGAGAAAAGAATTAGTGTTCACTTAGCGCTTGCCAGAATGAA
GTAGGCTATCCTGCAAATAACCCACTTATGGTTATCATAAATTAATAAGCATTCCGATTCAGCATCTGCTTTCATTAGCATAAGTTGGTCATCA
GGCTGGGAGCACGGGTTCCTCCTCTAGACAATGGCCCAGCCACCAATCTTAAGACACCTTATATCCCAACCCACTTCCCTAGACCATCCTTTCC
AGCTTTAGAAAATTAAGCACCAAGGAAATGTACCAATAGAAGCATGCCTGTTGACAAGACCTGGGAAGAGCTGTAAATCCAGAGGGTGCTGAAG
TGCAGCTGGAACAAACACAGCACACCTCCATGTTTTCAGCCTTCTGCAAAATCACCAAAGGCTCAATTCAAGTTGGGGCACGAAACACTGGGTT
TCCACACACCTAACAATCGAAAGGCAGAGAAATTAGCTCCTCAGTGTGTGGTACTGTGGGAGACCTACTTAGAGAGCACCTGGGGAAAATGG
AGAAACCGATGACACCTAAATGTCTGTCATTCACATAAGCACTATGCCGGATGCACACACGGGGCACAGAACAGCTGTGCTGACCAGCACATTG
CTGCAACCACTGTTCAGGTTGGATGCCCTTGCATAATTATATCACATAAACAGATTTGTGAAAAACAGATTAGAAACTGTAGGTGCCATCTTAC
ATATTCTTTGGGGAAATTGCTATAGGGTTAGTGAACTCAACTTTCTGTGTCTCTCAAAAACTCATAAGCTGAGTTGAGAAATATAATTCAATCG
CAAGTATATTTTTATCAAAATAAAAGCATCAAGGCTTTCTTTTCACAGTAATTTAAAAATTGTCAGATTACTTCTGTCTACGACCAAACTTTTC
CAAGTTTCTTTAAGCAAAGATGTAATAAAAGCTAAAACTCAGACCACTGATCAAAAACATCTTTTAGAGGTGGGCAGAATAAAGAGATGGACAT
TTAGTTAATGGAGTAGTTTAGAAAAAACTAGGCATCACAAACCCTGAGGGTAAAAAAAGGGAAGCATTGTTAGAGCTTTTTTTAAAAAAAAAAA
AAAAAAGGGAAAAAAAGAAAGTAATCTTGTGATTATTATAAATTTTATTATTATTTTGCTTACCTGAGCCTGACCTAATCACCTCCTTCCCTGT
TTCCCAGGTAAAAAAGAAAAATTAAGCTCTTACCCGAAATTTCATGTCTCTTGGCCCTACATCTTATCCTGAAGCTTCAAAATCTTTGCATCAT
CCCTTTCTTGGATGTCCCTGTAATCCAGACAGTTTTCAGAGGCGAGATCTGAGTGATCCTCCCCCGTCCTGCAAATTCTGTTTAATGCTCATGT
TCTGCCTTTCTTCCACCTACCCATGTTTACCCCTGCCCCAGAGTTCTGCATTCTTGCCATTTTTTTCCTCTACATCAGTGCTCCTTCTGTTATC
TGCTCCATTACCTTACCTTCTACCTCTTCCTTCACTCAGATTCCTACCTTCCTGCCTTTCTCCATCTTTCCAGGCCCCCACTTCTCTCATTCAT
TCCCCCCCTCCTCTGCAGTGGGTCTAGAAGCTCCTTGCTGTCATATCACACAGCCCCCATCCCACCAGACCTTTCTTAATCATGGGATGCTATT
CCCAGGCCCCTCATTGAAATGCCCTTTTCCTTACCTTCCTCAACTTCCCAGTCTCTGCTTGATTTTCTACCTTCCTGTTGGCTCCATTCCTGTC
TTTTTCATAAACTCCTTGTTCTGTGCCCACATCCATCCCCAACCCAGCTATTCCTCAAACTTCAGCATTGAGGAAGTCAAACTTCCCTCCTTTT
GACTCCACCCTTTACCAGAGTGATCTTAGCCTCCTCCTGCCTCCCAGGGCCAGTTCCCTCCTAGTCACACAGGCTAGAGGTCTCCATTCCCTCT
TTCTCTTCTTCCTCCCTCTCCGTCTCCTCCCACAAGCAAATGACCCCTAAACCATAAGCGCTTCCCAGCCCTGCTCACTGCCTTAACATAGGCT
GTAGGACTTGAGCTACTGTCTTATAGTCTCCAGCCTCTTCAGGCCCCTTCATATGGCCAATGCTGTGTTCTTTCCAAAACCAGATCTGATTATG
CCTCTTTGGCAACTGGGGATCACTCATCGGCTTTCTACCCATGCAGCCAGGCTTTTCAGTGTTTCTGGGGAAATTAGAAGATAAACTCGGAGCA
TTTTCCTCAAGTACATCCTTCAGTACTTTGATTTTGGGTGTGGGAGAGGAACTTTTAGTCCTGATCGTCACAAATTGTTAAACTTTTTTAGTAA
AATCAACCCATGTACTTCAAAGAGAACAAAAGAAGTTCAGGTGATTTTTTAACATGTAACAGGAAACTGCAAAGACATTTTATGCTTTGAAAAG
GCAATTTGGGGCCATGTTCTCAGATCCCTAGGAAGTTAGCATTCCATTTTCTCTGCCATTCTGAGCACTTCACTGGAAAAGTTCAATGAGAATT
TTGATCTGTGGATAAAATTACACCTTCATGCTGATTTCCCATGTCTACCTTTCCAGTCCCATATTCCACCACTGGCTGTCGCTGCTAACCATCT

CAATTCCTGCACTTTCGCTACTCCAATTTTCCTGCCTGGAATGACCTTCCAACATTTTCTTTTCACAAAATCTCATCCTTCAGAATCCAGCTCT
GTTGTCACCTCCTCCAGGAAGCCATCCCACATTCTCCTAAGCAAAGTCACTTGCCAGAAGACTTTTGTCCTATTCAGGCCCTTAGCATGGTGTG
CTGTGAGGACTTCTTCACCGGTTCACCTTCCCCACTAGTCCAGGAGCCCTGACTTATGCAGTGTTTTATCTCCAAAAGTTAGAATAGTGCTAGT
ACATAGGTTGTGTATGCTCGAGGTGTGTCTGGAAAAAAAGAAAACAGGCAAGTAACAGGTACAAGGTCTTGGCCATTGGGAGGGGAAAGAAGGA
AAAATCTACATTTTGAAAAAATGAGTCATGATCACAATGGCATTTTGTCACCATGGTACTTCAGTACTCCTTGCTAGCCATGACAGCAGGCACA
ATCCCCCATACCTTCCACTTCTGACCTATCCTTCTTGACATCACAACCTCTCACTCTTTCCCAACACTGCAAGATATGAATGCTATAGTCAGAT
GAAAGTGTAACCTCAAGGGGTCCTTCTGCATTAAAAGTCCAGCCACCTTCCCTCCTCTCTGACTCCTTCCTGGCCTTGAGGTTCAACTGAAATT
CCACCTTCTCAGTGAAACCTTTTCTGGCTACTTTAACCTTCATAATTTGTTTTTCCTCTTAACATCTACAATACTTAAGTTCTTGTTAGAATTT
AATTATGCATATTTTGAATTTTACAACATTTATTGGCTACCTTTATTACAGAAGTAATATATTTATATTACAGAAAATTTTTTTAAAAAGCAAA
AGTAAAACCACTTATAGGCTCTTTATTTCAAGAGAACCACTTGAACACTGTGCATATAGCCTTCCAGATTTTTCCTATGCATGCACTGGCAATT
TTTTTTCACAAATAGGATCCTATTGTAAATAGTTATACAAATTATTGTTAAACTATACTAACAAAATATTAATATATCAATATACATAAATTTT
CATCACTAATTTTTTTCATTATTATTATTATTTTTGGTAGAGATGGGGTTTCACTATGTTGTCCAGGCTGGTCTCAAACTCCTGAGCTCAAGAA
ATTTGCCTGCTTCAGCCTCTCAAAGTGCTGGGATTATAGGCATGAGCCACCGTGCCCAGCCACCAATATTATTTTTGATGGATCCATGATATTC
ATATTTTATATATGAACCACCATTTATTTAGCCAATCATTTCCTGTAAGGCATTTGGATTTTTCCATTTTCTTTTTTGCTATCATACAAAAAGA
TCTGTACATTCTTAATTTTTTCATTAGTATAAATTATAACACATACAATTTCTATATAATTTTAAATATTAATATATAAAAGTAATAAAATCAA
ATACAAAATTACATTTTTCAATTGTTTCATGTATATTAGTTTTGACTCCTTATGTAGATTTAAGTTCCTTAAGGATACAGTCCAATGTTTCTTA
ATTTTTCACCTCAACATGTAACAGATGCTCAGTAGTGTATGTTGAAAAATTAGTTTATTTCATATACCATATTTTACTAGTTTATTTCATATAA
GCTTTTAGATAATAGTGGCATCAATTCTTTACTATAGAAGAAGATCACTATAGATAGTAATATAAGAACATCACTTTCTTTTAGGGACTATTTC
CAAAGTCCTTCTTAGGAACTGAGGCAATCTTTGAGGAGATGAAGATGGGACAGATAAGAGATATACAGTTTGAAGGAAAAGGCTGCCAGCCAA
ATTTAACAATAGCTAGAAGCAAAATTTTTGCTTTTCTGGTTTGGATTGCCCTGATCATTTTTCAAAACTTGTGTGAGATTTTGTACAATGAGAA
ATCTCTTCTTGGCAGTGGTGTGTCCAGAAAGCCCCCAGGAGTGGGCCCCCAAGGTCCTCTGTGCCGTCCAGCAATTCTGCCACATCCCTGGCAC
TGGTTCACATCTTTTCTCTATCCCCTAAATCTATCCTTCCCTCCTCCACTATCAGTGAACGGTCTATCTTCTTACTCCACTAAGAAAACAGAAT
TCCTCAGACAACGGCTTCCCATACTTCCTACCATGATATTCCAGCCTCCCTGCACTTCCCCACCTGTGCTGCCCTTCCTTCTGTTGGTTGGGAT
GAACTGGCCCCTTTCTCTCTCAAGGAAGCTTCTCAGCTTCCTTGTGGGGATCTTTTTTTCTTCATCTTGCTGACCTCTAAATGTCGGAGTGCCC
CAGGTCTTAAACCTTAGACTTCTTCTCTTTGCTCCTCTTCTCCACCCATGTTTCCAGTTGCTGTGTTGATGACACACAGATTTCTATCTCTAGT
CTGGACTTCTCCCCTAAATTCTAGATTCCCATGTCTGATTACCTGCTCACCTTTTCCACTTAGATGTCTGATAGACATCTGAAATGTACTATAT
CCAAAACCAAATGTTTCAGCATTTCCCCCATACCTGCTCCGCCTGGATAAATGAACTCTCCATTAATAAGCTGTTCAGTCCAAAATTCAGAATT
TCCTTTGACTCTTCTCTCATATCCTACAATGGAATCATCAACAAATCTTGTCCGGTTTATGCTGAAAATATATCTGGATTCCATTTATGGCTGT
CATTCTAGCATTCTATTAATAGTTTAAATCACCATCACCTCTCTAATGACTTATCTCAATAGCCTCCTACTTGGTCTCTCTGCTTCCATTCCTG
TACTTCCCGTGACCCAGCAGAGTGATCCTTTAGGAGTTGAGGCCAGGACATGTTCCTTGTCTGCAGAAACCCCTACAGCATCCCACTCCATTCA
CTTTTGTCAGATTTCATTGGATGTTAAATTTGCCCTGCCATGCCTTATTCAAGGTACCACATTTGAAATTCTGTCTACTGTTCTGCCTAAGAAA
AAATACAATATTTTCTCAACATCATCAAATCCTGTACAGGGTGCTGGAGAGCAAGAAAATCAAAGGCTCAAGAACTGCCCATGTCTTTAGTCCG
TCTTCCTTTCCTCATCTGTTTCCTGTATATTTTAATTTTTCCTGTTTTATTTTCTACAATCAAGAAGATTTCTATTATAGAAATAAAGTTTATT
TGTTTCAATGCCATGATACAGATTTATTGTCCCTGGAAATATCATGCTTAGAAATGAATCACAGACAAAGCCCATGCTCTGGATCAACACACAT
GTGTAATTATGTAGGAAAAAAATGTATATCAGGAAAGGTTGAATGCTCCAGGCATGAGAAATAAATTGACCTCCACTCAACTTACTGCCATGAT
TATACAGAGGGAAGGACCTGGATCTGTTTCACATCATAAACGCCTAAATTGCCAGAGCAGCACAAGCCCAGGAGTGGCCATGCAAACTCATGAT
GGAGGTGCTAAGGCTGTCCACAGCCCAACCTCTGCAGCAGTACTGTTAAATGAGTGTCTAGTACTTGACTTACCATTTTAATTTCACATAATTC
TGAATGTATTTTTCGGCTTGAATTCAAATAACCCACTTCTAACTACCGAAAATAAAGTAGAAAAATGAACTCACTACCAGACTTCAAAGCTTAT
CCAAAGCAAAGATTTCGTCTTACAGCCAGAGGTGCATGATTGCAGAGCTGGATGTAACCTGAGAGGCTAACTACTCCTAATTCAGCCTCCTTGA
ATGACTGGATGATGCAACCTATCACAGGTGTTTTAGGTTTTTTCATCTCTATTTAATGTCCCACCTCATGCTTGAAAATCTCAAAGTGAAAAAG
CTCCAGTCTGAGTCTTTGGGCAAGCAGACTAACTGAAATGACCTGTTAGCCTTTGTTGTATCCATCTGACAAGATCAGCTTGTAGAATCCAGAA
TGGAGGTGGGAGATCAGCTGGCAGCCTCATTTCCCTCCTCAACCACCCCTACGCTGATGTGCCCAACTCCACTCACAGCTGGGCAGCCACCGCT
TGCTTGAAAATAAATGAATCTACACCACTCTCATACGGATGCTCTCAAGCATCCCTTGTTGTGAGAAAAACATTTATTGCTGCTACTAAAATGC
GTAAAGTTATCTCACAAACACATACTTACAAGAATGAGGAATGAGAAACAGAACCATCCATAAAACTATAAGAAACGGCCTGGCCAGGGCAGAC
CAGGAATTAGTACTCTGTCCTTGCCAGGGGTCAGGCAGGGACCTCAGAAGCAGGGTGTTTTGTCCTAGGGGGCACCAGACCAGAGGTCAGGAGA
CTGAGGGCTACTCCTAGCTCTAGGACTTTTCCTTATCTGAAGGCCGGGTCGGTTAGCAGAGAAAATCTCACAGTCCCGTGCCAGACCTCCACGC
AGGGACTCTGCAGTGCTGTTAGAAAAATTAGCTCAGCACCTTCAGCTTGCTTTCAGCCATCACTTAGCTTTCCACACAGACATTCCAAATGGGG
CCTTTCAAAACTCTCGCCCTCAAATGAAGGTAGTTCAGAGCAACACTTTAGATGATATCACAAGACTCCCAGGACGCTTCACTGCTTCCTCAGCA
TACGCCAGTGCCCGTTTTACAGGGGGGATTTATGATCCTTCTCTCAGTAGAGCGAGCCAAACTTTTATAATATTCATTAAAAATCAGCACCACG
TGTAATAATATGGAATACTGCCTGTACACAAGAGGGCCAAGTTATAGGTGTTTAGGGAAACGTGGCAGAATTTTCTGGCCTTGGCAAGAGGTAA
AGTTGCAGGCACCAGCACAACACTAACACAACCTTATTTATTGCAAATGTACATTCAGCCTAAATCCTAATTACCTTCTGTAAAATCCTAACC
ACCACCAAGCTTTCTTCTGACAGGGCACTCACACGACGGCCTTTAAGGGCAGCAACAACATCCTAAGAGCCGCAGAAAGGAAAGGCAGGGGAGA
GTGGCTGGAAGGCAGTAGGAGCTGGGGCTGAAGCCCGGGAGGTTGGCTTTTAATGTCCTCCTGAAATTGACCACTCTCTTTCCAAAAACACTGG
CTTGGGGGCTTAAAGGTTCGCTCAGTAGGGCAGGCGGAGGGCCTCCTGAAAAGGATTGAGAAGTCAACATTCAAAAGGCTGCTTTTACTCGCCC
GGTCCCCACCCAAAAGGGAGTCCGGTCAGCTTTGTGGGGGCCAGTGGAGCATCTTTTCTTGCCCTTCCGGGAAAACGCTAGCTAACCCTGGGAT
CCCCGGTCCCGACGTCTGCTCTCCTTCCCCAGGTGCAGCACCTAGGGCTCTGGCCCCCTCCCCACGTGCCACACCAGCCCTCACCACTACTCTC
ACCCTGCTATGCCCCCAACCCTCGTCTTTCGTGGCCGGGAAGGCCAGGCCGAGCGGGGCGGTCAGCCGGGCCGGGAGGAGGGGGCTCTCCGGGC
CGCGCGGCCGCACAAAGCGGGGAGATCTGCTGCTGCGGCGGCATGGAGGCGCGCCCCCTCCCGCGAGCCAGCGGAGCGCGCGCGCCCGCCCCCG
TCCCCCGCCCCCCGCCCCAGCCCCCGGAGCGCCATTCGCGGAGCGGCTTACGCTAGTCGCCGGGCGTACCGCGCCCCCAGCGGCCGGGGAGGTGC
GCTGCCCGGCTCCCGTAAAGTTATTGTGAATGGGGAGCGGGTGACGTCAGCGCCGAATGTCAACAATGTAGCGATTGAGAGTGTGGGCGTTCCG
GGGAGAGCGCAAGCCGCGCGGCGCGGAGCAAACAGCGCCGAGCCGCCGCCGCCTCAGCAGCAGCAGCAGCAGCAGCAGCGGCAGCAGCGGCCGT
GCACGCCCGGGCTGCGGTCGCACAGCGCTAACGTGAGCGGCCGCCGCCCTCGCCACCCCGCCTGCCCACTCCCGCCGCCGCCCCGCTCTCGCTT
TCCCCCCGGCCTCCCCTCGCCCCTTCCCCTCCCCTTCCCGGCGCACTCGGGGGGCTGGGAACGAGCTGCCATGTGATGCGCGTCCCCTCCGCG
AGCTTTCGGTGACCCACGAACTGCCCACCTCGCCGGCTGCCGGGAGGGGGCTGCGAGCCGGGAAGACGCGGGGAAGAGGAGGCGGAAAAGGACG
CAAAGTTCTCCGGCGAGGTGAGTCCCGGGCCCCGGGCCCCGGGCCCCGCCGCTGGGCGGGGTGGCGGGGCAAGTTTGCGGGGGGAGCGGGCGCG
CGGGGCGGGCGGGGAGGCGTGGGGAAACGGCGCGGGAAGGGAGCCCCGGCCGCCGGGCGCGCAGCCGCCCTCCCCGCGCCCTGCCCGCTTTTAT
GGCATTTTCTAGGAACGGGAAGGGGGTGGGAGCCGAGCCGGCGGCCGCGCCGCGCCGAATGTGTGCTCTCCCTCCCGGCTGTTACGGCGGCCG
AGGCGCATTGTATTTTGCTGGCGTCGAAGGGTGTTTTGGAACAGCAGAGGGAGGAGGAGCAGAGAGTAATAAGTCAGGCATGGGGAGGGCGGGC
TGCAGGAGGCGCGCGTCCGCGCGAGCCGCAGCAGCTGTCAGACCCGCGGCCCTGCCCCCGGCCCGGCGAGGCCCGGGTGTCCCGGCCCCCAGCC
TGCGATCCCAGCTCCAGGCCGGGCGGCCTCCTCCTTAACCCTCGGCGTGCGCATCCCGGGCTGCTCCGCGAGGACCTTGGCCGCGGCGCCTTTG
CGCTCAGCTGTCAGCCGCCGCCGGGTGGCCCGGACCACCGCGACCGGCGGGGAATCAAAGCCCAAGTTTAGGGTCGCAGGAAGAGGCGAGCTGG
GGGCCTCGCGGCGCAGACCTGGATCGAATCTCTCCTAGCGAAAGATCGGGTTGTCGGAAAGCGTCCCGCGTAGCTAAGACCTAAGGGCGCCAGG
CTTCTGAGAGGGAAACCTTGCACCTCCTCTCCCACAGATCCTCCATGAAGTCAAGGTGCAACACACACACACACACACACACACACACCCTA

CACTCCAGTCTCCAAGCCCCAGAAGCTTCACCCAGGAGACTGGTTTATGAAGGGGACACTGCCCTCCCCGTCCCCGCGTCGAGGCGCTCCGTGG
CCCCGCTGTGCTTCGCTCACCCGGCGGGTGTTCGGGAGCCCGGCGCCGCTGGAGACGGCGGCGGGCGGCGCTCACGGGCTACCCTAGGTGCCCA
CGAGGGGAGAGACTGGAGCGAGCATCTCGGCGACCTCGGTCTGGCCAAGCATTTGCAGGAACTCGGACCGTGAGGGGAAGCGTGCAGGGCCGGG
AGTGAGTGTGTGAAGGGGTGGCACACTCCTGGCTTCTGGGGTCGCGGGCGCATGGGGCATCCCCAGCACTCTCCCGCGCGTAGGCGAGTTTGGT
AACTTGAGGGAAGTTCCGGCGCGGCCGCTGCCGGGGTGGTTTGTCTGTGGCCCGATGAGGCGCGCCTCGCAGCCTGCTCTCCCGGTCACCGCCG
TCGCCGTGACCTGTGGCCTCCAGGAAACGAGAGGGACCGGGGCGCCCCACCCGCGAGACGGACCCGCAGTCTCCCGGCGGGCCCGCGGGCGGCG
AGACGCGGCGTTCCTGGTTTTCACCTTCGCTGTCTAGTGCTGCAGTCTCTCACTCTCTGTAAATTTCATCTGTTGAGTGTATTTAACTAAAAAG
GGTAATTACTTTAGATAAAAATCCTTTCCTGCCTAGTGGGAACCTTGGCGGAGATGATGCCTAATGAGATATTTTGCTTTTGTCTGTTTAGAGT
AAAATTAGAGATGTTAACGCTGATAACGGTTTTCTCAGATCATTAAAATGTAACATGTAGGAAAGGCACGTCTTGCTGCAAAGGCTCGGGCTGA
CATGAAAGAAGCTGAGCGTGAAAGGCTGCCCCTCCTTTGGCGGAGAGGGCTATTTGGTAAGGCAGCGGGCGTCTTGCTTAAAATGTGAGATCG
CCCCACCCTGGTTCTCGGGCACCTCCCGAGTAAACGGCGTTTTTCATTCTTGCAGGTAATAATAAACGTGAGTCAAAATGACATCTTGTTAGAA
TTAGTCTTTAGTCTGTAAGAGAGATTGCCAAATTACAGTGTTGCGTTCAAACTGCTCCACTGAAAGGTCTGTCAGCATTTCCATTATAAATTCA
GTTTTTCTGGAGTTTATAATTTCACCACAAAACTTTGAGTGGCTGAAATGTTTTCCCTTCTAGTATTCTGGTTTTTGAAAGAAATTTATTGATT
GCCCATTTCCAACGTTTTTTTTACTCTCGAAACCTGAATATCATTGAAATAGAGCGAAGTCCCAGAAATGGAACACACAACCATGGAATAAAGT
ATTTTTGTTAGAACATAACTTTATTGGTGCAGAGCCGTATTTTCGTTTTGCATTGCAGGAGGCTTCAGGTTTGCCATTTGGTAATCATGAATGT
GTTGAGTAAATTCTTCTGCTGTCTGTCTATTCTGCAGGTGGACTGAAATGTCAGTTGGTAGTGTGTTTGCCAGGATTACATGGAGACACACACT
TCTCAGTTAAGTGTGTGTCTGAACTCATAGCTAAATTGTGAACACTCCTGTTAGTTACTTTTTTGGTTCTTTGTATGTTGCATGTCAGGATCTG
CTATGAAGAAGAAGGGGTGAGGTGAAAGAGAGGGAGGGGATCAGGATTCACTTTCTGTATTACCAGTGCCTGGGAGAAAGCCATTTATTATTTT
CCTATTGAATTATGCCCTTTGACTTAGTATCTTCAGGCAATTCTTTTCCAGTAGCTCACCTCTGGCTGCTGTGTAAGGGGCTTAATTATTTGCA
AACTGCCTTGAAATCCCTGGATGAAAGGCACTGAATAAGTGCACAGTATTGTTATTCAGATATGGAATTTAATGATCCATTATAGTTCATCAGG
AAAATGCACTTTGCAGTGATGGTAGGAAATGTTTCCACCTGATAGAGGGTAATAATAACTGCTTAAAAGTAGATTCAGATTACAGATGAGACAA
TTAACTCTAGCCATGTGCTCTTCAATTTGTTGCAATTCATTTTGTGATCAAAGTGAGTCACAGAGGGCCAGATGGTCAGGTTCATGTTCAGATC
TCTCCTAGGCCAGCCCTTCACTTCTGGGCCCACTGTCTGCACAGCCGACAGGACTTAGTTATTCATTAGCGCTTGTGAGCTGTTTCTCAGAATT
CCTAATCGAGGCTCCTGTGATGCCAACAAAAGGGCTCAAGCCAATCTGTATTGTTGAGAGCAGTTTAATTTTACTTGGATTAACTTTCAGTGTC
TCTGGTGTGGATCCAGTCTTAACAAAAAGGAAAGAGACCCTAGTGGCTCTCTATCTCTGCTGTGCCTGGCCCCTCTACTCTAGTTTTTGAACCT
CAGATTTCAGGGGTGTGACATCTAGCTTATTGTAAATGCAGGCTTGATTGTTAATGAATGAGAGAATACTTAGATAAATAAATATCTTCCTGTG
TGTCCAGGGGGTGAGAGCCAGTACTAGCTTCATGGGCATAAGACCTGTGCAGTTACATAGGCCCCCTTCCTCTTCCCTGCTCAGAAGGACCTCA
TATTTGGTATAAGGTTCTGCTGTTTTCTTCGGAAATTCTTAATAATTTTTGAACAAAGGGCCCCTCGTTTTCATTTTTCACTGAGCCCTGCAAA
TTATGTACTTACCTGGTTCTGGTGAGGAGCAGGGCATAGTGTGGAGTGGCAGGCCGCCCCTACTCAACTCATTGTAGACTCTTGCTAGGGAACA
GTTGGTAGGACTACTGGCTTTGTGTTGCCACATCATTTGATTTTTCCAGGGGAAGCTGAATATTGGATATTTATGTGGAATTTCCTGATTTTTA
AATATTGGCTCAAATCTTTAAAAAATTTTTGGATGAAAGCATATGTAAGAGCTAGTGTCGGCCTGGGGGCTGCTTGTCTCCCACTACTGAACAG
ACTGAAACATCTTTTTTTGTTTAATATCTTTGTGTGTCTCTGTTTTCTAAAGGCCTGGCATATAGTGGATGATTTGTGAGTATGCACCCAATGA
ATGGTTACAACTACCTGGAAAATAGAAAGATGCCAAAAAAACAAAACTTCAAATCAACATTGAGTCCCACTCAGGGATTGATCAGCTTCCTTTT
TAACAGAGAATTCGACATGAAAGGCCGAATAATTTAATACCATGAGTACAGTGTGATTCCTTGCAGGTGAATAATCCATTACTTTTGAACCACC
TGCCCTCTATTTAGTTGTTACTGACCAGATGGGGTAACTTGGCTGGGTAATGCCTGAGGACCTCCATGGGAGTTTGACATTTGAGAACACTCAC
CAAAATAATAGTTTTGATTTACTGAATCCGCACCATGTGCCAGACCCAGTGCTGACTACCTTGCCTGAATGTACTTCATTGATTCCTCAAAGCA
ACCCTTTGAAGTAGGTGTCGTGCCTGCCCATTCTGCAGAGTTGGAAGAACTAATCTCATGTTGGAATGAACTTAATCTGAATATAGTGCATGTT
TTCTTGAATGTCTGAAGGTTATTTCCCCATTCCATTACACAGTCCAGTCCTGAATCAATGACTGGGCATGGTGTAGGACTGTGACATACAGAGA
ACATGGTCCCTGCCCTCACATAGAACAGAGAACAATATAAAATGTAACATATTTGTCAAAATCTGCAATTCAGATAGCAGACGCTGTAAATCTG
CCTCCCTGTTTTTCTCCTTTCCCTGTCTGGATGTTGAAGAAGTTTCAGCGACATATGACCCTGTCAGAGGTACTCACAGTTCAGAAGTCAATGC
TGGTTGCAAAAATTGGAATTTCTTTGGAAAAGAAGACAAGCTTTTGGCAGAGCTGGGGCCACATATGGGAACGCAGCACCAAGGCCTTGGGAAT
GACGGAAAATCGCTTCTGTATTGTTAATAGCAATATATGACCTCTGCTGTCCTCCTATCTTTAAATTTTATGTAAATATTTACAAACTGTTCAT
GTCCAAACTGAAACCTGCTATGAACTAAACATTTTGTAAACTCAGTAAGATTGCCCAAAATACAACTCAACTTTCACCTTTTTTTTTTTTGTTTG
TGATGACATTTAATTTAAAAAAAAAAGACAGTAGTTGCTTTTTTTTTTCTTTTTTTTTGTCAGTTCAGGGTCTTTTAATTTTTTCCCTTTACTT
TTTTTTTTGTTAATTTCAAATGTCAGTCTATCTAAAACTGAAACTTAATTTTACTATCAGCATGCTACTCAGCTTCCGTAAGGCTGGAAATGTC
CTGCGAATCTTACCACTATGTCTTTTCCAAGGGCCATTTCATTTCTAAAGAATGTATAAATTGAACCTCATCCTGCTAGTGACACTACTTCAAA
ATTCAGGCAGGAATTTTGCCATTTGTTTTTCCTTGAGCTATTTTTTTTTCCAAAATAATAAATCTTCCCAATCCAAAAGCATTTCACATCATCCT
TCATTCTAGTCATTGGAACTACAGCCAAAATGCCTCTCAGTCTTCCCCAGTGACTTCATAATCACCGTTTCTTCAGCATATTCCCTGGTTGACT
TCTCCTTTGTTCCTTAGCCTCATAATGAATTGCCCTTTGGTTCTGAGATGTGTCATTTTCCTCCCTGACCTTTTTGTTCTTTTCCTGAAGGCTG
TAGGACATGCTGCTGCTGATGTGATGAGAGCCGGCGCTTGGTTGCTAGGTCCCTCCTGTCCTTGTGTCAGCTTTCATTGGCTCCTTTCCTAAGC
ATTTAAATCCTCCACTTTCCAGTCCTCCCATTCATCTCATTATTCTCTTCATGTGTGCCTGAGCCTGTAGCTGGCATGTAGACAAAGTCCCAGT
TAGTTAGAAGAAAGCTTTTCGAGTTTCCAAGTCTTCCATCACTCTAGTCTTGGGCCATCTTCTATTCTCCCTCCCCTGTCACTTTCTGCAGATA
CTTCAGGAATTTCCTCAAGACTTTCCAGGAGTCTAACCCAAAGACAGCTTAGACCTTCACTTCGGATTTTAAAGTTGGGAGATCCCAATGTGAT
GATTTCCATTCCACAAGTAGGAAACAAAGTGAATGTACATGCTCAGCATCTTTCCTTAGTATTTCAGTATCCATAGATTTTTGGCAATTTTTCT
TTTTTTCCTATCCTGTATTCTTCTAAGCAACAGAAGCTCGTGGATAGTGCAAAATGGGCCAAGTGTCCAGAAATACTGTTGCTTAGAGGCAGAT
GCCTCATTCATTCATTAAACAAATATATACTGAGTATCTCTTACATGGCAGGCATAGTGTTAAGTGACCACAGTGCTAATGGGGAGCAAACCCA
GTCCTGGCCCCTGGTCTCATGAAGCACGTCATCTGGTAGGAAGAATGGCACTGATCAGTTAGTAACAGATAACCCACTGCTCGTGAAGGAAAGT
ATTTCATACACCAGAGTGTCTAATGGGCAGATTTAACCTGGTCGGGAGGTTGGGGAAGCCCTCCCTGAGGAATTGTGGAGTGACCTTCCATCAG
GGACAGTCTGAAACTTGAGATTCACTTTTTCTCCAGCTTCCTAATCCTATTAATTCACTACTATCTTTGGCCCTTTGGAGTATTGCCTAAGCCA
TGCTGGAACCTCTGGGGCCATTTTGGCAAATAATAGTTCCTGTATACAGAGTCCAGAATTGATTTATTTACCTGGGTCTTTAGAACCTGATAAA
AACAGAAGTTAACTGCCAAGAGTACTGTTCATTTCCATACTTGGAAAAAATACAAGTTAACATTCTTATTTTGAACATATTTAGGTTGGTTTTG
ACAATATTTGAATGATCAGAAGCTACAAAGATATTCTCTCCCAGTCAGCTGATGTGTGTAGGGCCTTTGGTGAAAAAGTGAGTCTAAATAGTCT
GTCTGAAGTCCCTGGCTACTCCAGAGCAGAGGGTCTCCATCCTCTGTGGCCCGAAGATTATTCCAAGCTTGTCCAACCCATGGCCAGCAGGCCT
CTTGCGTGTTGAATGCGGACCAACACAAAGGTTTTTTGTTTTTGTTTTTGTTTGTTTGTTTTTTGTTTTTTGCTATTTTTCTTGTTTCAGCTCA
TCATGTATCATTAGTGTTGAGTGTATTTTATGTGTGGCCCAAGACAGTTCTCCTTCTTCCAGTGTGTCCCAGGGAAGCCAAAAGATTGGACACG
TCTTATTTAGACCATTCTTAGATGCAAAATTAAGGAATTTTGACAGCATCTATTTAAAATAAATTGATTATACTTCATGCTAACACCCCTCTAT
TTTCTTTTTCTTTGATGATAGTTAACTTGTATTGAGAGCTTCCTCTGTGTGCTGCTCATATTAACTCACATAATCCTCAGAACAACCCAGGGCT
AGGTGTGATCACTAGAAGCCGCAGCATAGGTGTCGCTCAGCTAATGAATGGTAGAACTGGAGTTGGACACTAGCTGTCTGATGCTTGGGCCTGT
TCTCTTACCATGTTATGGCTCTCCCTTTTCCTTTTCTTCTTCATTTGAAGTTGGAACTCTCTTTAGCAGTTCCCAGAAGTAGAAATAAAGGTCA
TCTCACTCTAAAATATTGGATGTTTTGTTGACATCTATCTTAAAGTTAAAAAATAATTTCTCAGTAAATCTGAGTGAGTATATCTCCTGTCTTT
CACATGGCCTGCTTTCTAATAATTGCATTCCTTAGGTTTTAGTGTCCATTTAGGGATCGGAAAGTAAAAGTGATGCATATAAAGGCAAAAGAAG
TACTAGGCATATAACTGAAATACCATGGCTCTGTCTCCAGGGTTTACTTGTAACTCACACTCCTACCCTCTTGTTAGGTGGAGGGAATTTGTTT
TTTGCGTTTTGTTTTTTGTTTTTTGTTTTTTTGGTGGGTAGGAAAAGGTAAAAAACTATACCTGTAAGAGGTAGAGTATTCTACCAAGGAGGAA

GATGTTCATTCAGAACTAATTCCATCAGAAATCCTAATTAGAAATATTAGCTACCAGTAACAGATAAAAGGAGGTAACCTTTGTTCTCATTCTG
GTCAATTTCAGGAAGAGATTATCTTGCCAGATTAGCATGTTGCAACTCTCAGCTGGAGATTTGAATGGTTTTAAAGGACTCAGGCAGTTGGTAT
GGCAGTAACCCCCAATTACCTCAGGTTTGCAGGGTCACTGTTTAGAATGCTGACTCAGCTCTGCCTGGGCCAGACACCGAAGTTGTCATCTTTA
GTCAAGAAGCATCATTCTCAGGAGCCACTTGAAACATTAAGCACACATTTGAAGCTCAATTTGGGAAATGATCAAGTGTATGAATGTATAGTAC
TGTGCTTATTTTTCAGCATTTAGTTCAAATTTTGGAGAAAGCTAAATGGGAGATGCTTAGTGTGTCAGTGTTGGAGGTTTTAAGTGATTTAAAA
AATCAAGCAGATGAGTGCATAAAGATTTCTATGCAAACAATGTTGAGCTTAAATTAAAGCTGCTGATTTAGTGTGAGAATTACTTGCATTGATT
TGTAGAATATCTATGTGGGTTCAAGATTCCATATTATGCAAATGAATAAGCCCTGAAGAGTCAAACTGAAAAAAAAAATGAAATTAACTGTGAAA
GATATTATTACCCATTCAGCAAGAGGAAAATGTAGACAGAGTTAACCCTTCCTTTTCATACATTTTCTTGGGAAGATAAGTGCCAGGGATGATG
GTCCGTGTCCCAGATGTAAAGAAGCTAGGCACGGTTTGCAGCCAGTTCCCCCATCCTCCTTCTGTGCTCACTTTTTTGTTTCATGCTCTCTTAC
CTTTTGGCCACCCAGTCCCCTCAACTAGTCCTTGTCCTTCCCTTCCAAAACCAATCTCAGAGAAAGATTTTATGAACACAGTTTTACTAATATA
TAAGTAACTGAGCATACTTAATGTGTTACTTTTCTGAAGCATCAGCATGTTAATAGGAGACAAAGCCAAAGAAGTAAAACCCTAAAGATAAAAA
CAATAGAATTTCGCACACTGGTAACCTGGTGATAGGAGACCATTTCTGAATGGAGAGAGGGCTCGTGATAAATAAACACAACCCTAGGCAGAGA
ATATAGGCAAATGGATTACAGTATTTAAATCAAAGTAGTATTAAAATACAAAGAGAAGATTATTTTTAATAATACATTTGTCAGTGAGCATTTC
CCGCCTTTTGCCGTACATTGGAGTTGATCACATAAACCTCTATAGCAAGATGGTATGTTATTTAACATTTAAACAAAGCTTCCAGGGAAAGCCA
TTTGGTTTGTGGTTAGGGATTTTTGTTATTCAGTAGCAATGAACCTGAAATTCTATATTATCTTTGCATGTTGAATTTTAGAAGAAAAAAAAAG
CAGCGGATCCAACTTCACTTACCTCCCCACCCCAGTTGCATTGATACAAATTGAATTGATAAATTTATTTCAAAATTGGTGTGTCCCAATTTGA
CATACCACAAGCATAGTGGTGTCAGCATGGTGGTGACATCTGGACATTAGGAGAGTTGGTTGATTAATTAAACTATACTTATTTTAGATAGAGT
TGTTGGCAGGTAAATACCTGGCTGTAGAGTCAACGCCCTTCAGTCCCACCTCTCCCCCACCATACCCTTCTCCAGCAACCATGCTATGTTGAGT
TGATGGCTCCATCTAGTGCCAGTCTGTGGAACTGTCTTGCAGGACTTCACTGTCACCTCCAGAGCTGGGTATGATGAAGAGTCCTCTTTCTCTG
GGAACACACTGTCTAGCGGGGAACTGCCCTCTAGTTCCTACCTCTCCTTTGTTTTTGCAGTTTAGTTATACCTCCGTGTCTTTCTTTGTTCCAG
ACTTAATTTGTTTCCCTCTCTCTAGTACCCCCTCTTTGTACTTGTTTCTCCTCCTTTTTTGTTTTCCAAGTCTCAATTTTTTTTTTTGGAGAACA
AAACAGTACTTAAAACCGGTAAGTATAAAGATTTTTTTTCTAACAATACTTTATGCCAAAGTAAGAGAATTCTATGCATTTTAAATGAAACTAT
CAATTGAAACCATGTTAGAGAACCAGAATGACCCTAAAGTTGAAGTCTGAAAGTGTCACTTGGAAGACTGTGTCCCTTCATCCTCCTGTAGTTA
GACATTTCCTCAAACACAGTTAATCAAGAGTATTTTCTTTTAAATGGTTTTGGAACTATCATTGTAGTATCATTTTCTTTTTTAGATTATAAATT
TAACCTCTCATATTTTAAGTTCAAGACATTTTCACGGACTATCAAGGAATCCTAGCTCATTGGCCTGGCCCTATTTCTGTGGGAAAATGTATTC
TCAGTTCCAGACAACCAGTGTTCCTGCAGATTTTAGGTCCCGTATAAAACGAGAGAACATAGATGAATGAGAGGCATTGTCAGACAAAGCCTG
GCACATGAGATCTCAATTAGCATACAGGTTTTAAATTTCCCACATTAAACAGTACATTTTAAATTTCCACTTATGTTAAGCGTGTTGATATTGT
GGGTTTGAAAGTAAGTCCCCTCTGAAAAACAGGAACTGTGCTTGTCTGTTACCAGTTCTTGTGGTCGATATGGTAACTATTTTGATTTTCAGA
AGGGAGGAAAAGCAGTTAAATCTAGTTAAAATTAAAACCAGTTAAAATTAACTGGCTCGTGAGATTTCAGTGCAGCTGTTCCACACATAGCAAC
ACTAAGAGTGAGTTGTTTATTACCATGATTAATTATTATTAGTTGTTACTTCTTTTTGAGCAGTGGCATAGATTATTTATATTTTTGGTCTAAC
CTTGGAAAATAGAAACTGCAAGCGTAGAGAGGTTCCCGTTTGCTAATTTGCATGTACCCTGTTTTTGTTTTTGCCAGGTAGGTGTGTGCATCTC
AAGTACACGAGAGTAATTTAGCATGTCAGCACTTTCCTACCAGCAGTGCTTGCTGACTCATGCAGCTGTTGTAGCACTCAGCTGGCCGCACTGT
AAACTGCCCATAGTACCAGCACCGCCCTTGGAGAGCTCCGGGCTGCTGGGCTGGTTAGCTACTGGGAGGCTATTTTCAGATCTGTGGTCACTGC
TGAGCTGGGTCCTCTTCTCCTGCCAGCAGCCAGACACAGCCTTCTGGTTGCAGGGGAGAAAATTGGACAAATTTCTACCTTTGTAGGGACTGCA
TAAAGATTCATAGCATTTCTGGATATGCCTCAGGAAAACTTTTTTTTTGCTTCACTTTATTTTTCTGGGAATATTTAAGGGGAGAGGCAAAAGG
GGCTGATAATAAATGAAAAGGGAATGTGCTGTTATTTCCTACTAAGATCAGAAAGAGTTTTCATAAACCTTTAACTTAGTTAGGCTTTCTTGGC
GTAACTGAAACCTGACCCACTTCTCCCTCAGTGCAAAGCAGTGTGTCCTGAGTAGGGAAGCAGGGGCGAGGGTGCAAGTGACTAGCCTGACATT
GTTTTATGTGGCTGAAGTCCCTAAGTGATGACAGCTTTTGTTTATATCCGTTCCCTGTTATTGAGGTTAAAAAACAAAACAAAAAACTTGACCT
CAGGTCATTTTAAAGCTAGCATGTATTTTCAGAGATGGTTTCACTGTTTGTTTTCAGAGTTCAGTTTTGCTTATTTTCATCGGAAAGTGTGAAA
TGTTGCTTTTCTGAGGCTTCTAAATAAACTTCCTTTTGTAGATACAAGTTGATCCAATCATCATAAACTGTCTTGAAAAAGGATGATTAAAGTA
AGATCAGCTGGGGAAGGGAAAGCTTTGCACACCCTTGAGGAGTTTGCCTTCTTTTTCTTAAGTTTCAATAAGCATTCTGAAGCAGCTTTGACCA
GTAATAAAGAAAAGCCACAGTGACTGTGTGTAACATGATGTTGATGGAAGTTCTTGGTTTCCGCCGATACGAATGACTCATCAGTATCAATAGA
ATTGTGACTTCTAATAATAACACAGTGCAAGACCTTCAAAACATGTGGTTTTAGCCCTTGCTCTTAGTGAAAGGTTGGAAAATGTTAGTTTGAG
CTTTTTTTTTTTAATCTCTTGATTTTGCCCAAGTATAAAGTTGTTTTTTTGTAGGAATGATGATCCCCCTGTTGTTTTCTCATCTTACTGTTTTT
AGTTTCATTATGATTAAGGAGCCAAACTCAGATCATTTCATCGTTTAGAAATCTCTGCGCTAAGCATCTCCTGTCGGGGCTGTGTTTTGAGGGAA
ATGTGGCTGAAAAGCAAATCCTCCCTGAATGCAGAAAGGAAAATACTGGTGCAGACTACAATCCACTGAGCTGCGTCCCTCCTACACAGCATCT
ATTGCGGAGGGCTGTGGTATTGCTAAGTAGCCCCATAACCCTGTGAGTCATTGTCAAAGGATTCCAAGAGGAAGGTTAACAGAAAATGCGAGTC
AGAGGAAACAGCAGAGTGGAGCAGCTAGCTCAGGAAGAACTGTGCTACCTGCTGAGGGGCTGCCCAGATGTCACCAGGAATTCAGGTGTACGTT
CATCTTTTTGCAGCCCATTTCCGTATGTCTACATATGGGGACATTTTTGTTTTTTTGTTTAGTTTTGGTTGGTTTTGCTGCAGTTTGGCCAGACT
ATCAGAGATCACTATCTTAGCTTCGTATCACAGTGGTCTTATCCCAGAGCCTTTGCTTTTTGTATTTTATAGTCAAAGCAACTGAATTTCTAGA
CTGTAAGACCAACATGTATATTTAACATAATTCTTTTCCTTTCTAAGTGCTTTATTTATTTATTTATTTATTTATTTTGAGATGGAGTCT
TGTCCTGTCACCCAAGCTGGAGTGCAGTGGTGCGATCTCGGCCCACTGCACCCTCCACCTCCCAGGTTCAAGTGATCCTCCTGGCTCAGCCTCC
TGAGTAGCTGGACTACAGGCACATGCCACCATGCCCAGCTAATTTTTGTAATCTTAGTAGAGATGGGGTTTCACCATGTTTGCCAGGCTGGTCT
CGAACTCCTGACCTCAAGTGATCTGCCTGCCTCAGCCTCCCTAAGTGCTGGGATTATAGGTGTAAGCCGCCGTGCCTGGCCAGACCTAAAAAAT
TCTTATAAAATAGTTCAAAAGTTAAAAATGCATGAGGAGGCCGGGTGTGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGTCGAGGCGGG
TGGATCACGAGGTCAGGAGATCGGGACCATCCTGGCTAAAACGATGAAACCCTGTCTCTAGTAAAAATACAAAAAATTAGCCGGGCATGGTGGC
AGGCACCTGTAGTCCCAGCTGCTCGGGAGGCTGAGGCAGGAGAATGGTGTGAACCCAGGAAACAGAGCTTGCAGTGAGCCAAGATCGCACCACA
GCACTCCAGCCTGGGCAACAGAGCGAAACTCCATCTCAAAAAAGAAAAAAAAAAAAGCATGAGGGGTCTTTCACTTATTGTTGGAAAAAAAAGT
GAGTAGGACTTCTGTTCACTGAGTGGTAACTATGGAGAATGAGAAAACAAGCCCAAAGTGGTAAAGACGTTTGTGGCACATAAATAATACTGGT
TCAGCACACATGTGAATCAATAAAAAAGCCAGATAACCAAAAAGAAAAATGATACTGTACATTCATATTCTTAAACATGCATTTCACAAAGGAA
GAAACCCAATTGGCTAGTAAATATATAAAAAGATGCTCAGCTTCATTAATAAACAAACACATGCAGATTAAAATCATAGTAACATATGATTACA
CACTCTCTGGATTGGCAGAAATTTTAAAACCTGACAATACCATGTAAGGATGTGAATGAATGGGAGTTTTTGTATTTAGTTGACAGGAGTCTAA
CTTGGTACAATTATATCGGAAAACAATTTGCTGTTACCTAACCAAGTTCAACCTGCAAATAACTTACAACACAGCCATCTTACCCCTAGGTATA
CACCTAAGAAAAATGATTACCTATGTGCTTTAAGAAACATGAACAAAACAAAAAATAATTGATGCTGGCAAGGTTATGGAGAAAAAGGAACACT
TACACACTCTCGGTGGGAGTGTAAATCAGTTCAGCCATTGTGGAAGACTGTGATGATTGCTCAAAGTCCTAAAGATAGAAATACCATTCAACCC
AGCAGTTTCATTACTGTGCATATACCCAAAGGAATATAAATTATTCTAAGACACATACACGTGTATGTTCGTTGCGGCACTATTCACAATAAGC
AAAGACATGTAATCAACCTAAATGCCCATCAGTGATAGACTGGATAAAGAAAATGTGGTACATACACCATGGAATACTATGCAGCCATAAAAAA
GAATGAGATCATGTCCTTTGCAGGGACATAGATGGAGCTGGGGGCCATTATCCTTAAGCGGACTAACACAGGAACAGAAAACCAAACTGCACAT
TCTCACTTATAAGTGGGAGCTAAATGATGAAAACGCATGGACATATAGAGGGGAACAACGGACACTGAGACCTATTAGAGGGTGGGAAGAGGGA
GAGAATCAGGGAAAATAACTAATGGATACCAGGCCTAATACCTGAGTGATGAAATAATCTGTATAGCATACCTCCATGACACAAGTTTACCTGT
GTAACAAACCAGTACATGTGCATACCCCTGAACTTAAAAGAAAAAACATGGACAAACATATTCAAAGAAGCATTGTTCATAAGAGCAAAAAACT
GGAAGCAACCCAAATAAATGCCCATCAACATTGAATCGAATCAGCACATTTTGCTGTGAGGTATTTATACACTGTGATACTATTTGGCAATGAA
AAATCAACTAGTATAACCACATATAGAAGGGTGTGGAGAGGCAGCATTTCTTGGTGGTCAAGAGGAAGGATTGTGCCTGGGTTCAGATTTTGGT

TCTGCCACTTATTGTGTGACCTTGGATGAATTTCTGAACTTCAGTGTACCTTAGTTTTCTCATCTGTACATCAGGGAAAATGATGTCTACCTGA
TAGTGTTGTTAGGAAGTTTAAATGAGTCAATGTTTGTGACATGCTTAGGAGAATGACTGGCAGACAATACATTCTATATGTGTTTGTTAAACAA
ATAAAAGTGCATCAAAATGGATGAATCTTACAAACAATATGGAAAGAAAGAAGCAAGATAGAAGAATATATACAGTGTGATTCTATTCATGTAA
AGTTCAAAAGCATGCAAAACTAAATATGTTATTTAGGGATACATACATAGATGGTAAAACTATAAAGAAAATTAATATGATTTAATATGATTGT
CACAAAAAGCAGTATAACAGCTACCTCCAGAGGTGAAGGAGTGGGTATGATAGAGAAGGGGCTCACTGGGGGCTTCTGAGGTCCTGGCAGTGTT
TTATCTCCCAACCTGGACAGTGGTCCCAAGGATATTCTTTCTTCTTAATTGTTTTTAAAAACTGTCTATGTTTTTTATATATGTGTGACCTATT
AGTAAACATTTTAAAGGATTTATGTGAGTTGTTATAGTAGCAAGATGACATTAAATAGAAATAACTGTAAATTGCTACATTTTAGTTAAAAATA
ATTGTTCAAGTGCACATGGGAACACTTGCTTGGTATTATTTCCTCCACAACATTGTGAGCCACCAGTGCAGTGTGATTCTTACAGAAGGCGACA
CCTCCTTAAGGCCACATTAAGAGAGCTGTCCCCTTTAGATCAGGGAATGTAATGTTCTCACTCAACTACTCTCAGGTCTGGATGTCCCATGTGT
GGGATGCTATGTCTTGTCCCAAGGGATTTATTTTAAGAAAGATTTTCACCACAGAGGGAGCATTTTCTGTGATAAAGATGTTTAGGGGTCTGGA
AACCTATCAGTTCTAAGAGTGGCCAAAGGAAGTGGGGATTTTCAACATGGAGAAGAGGAGATGTTGGGAGAGAAAGAGTGTCTTCCATCACTAG
AAGTGGAAGCAGCCTTTCCTTGTTGCTTCCCTCTCTGTAATATACAAGTCCCTCCCTGTAATGTCTACCCTTGGAGGCAGGTTTCAAGTCCTGG
ATACTGGAGATGCCCAAGCAGAGGCTGTGGGACCTCCCTTAGACTTGACTGGGGCCACAATACCCACTGCCTGGTCCCTGGACCAGCAGCATCG
GCATCACCTGGAGCTTGTTAGAAATGAAGTCTCAGGGCCACCCACACCTACTGAGTCTGAATCTGCACTTTCTCAAGGTGCCCCTGGGGTCTCA
CATAAACATCAAAATTTGAGAGGCACTGGGCTAAATGTCTCTAAGATCCCTCATGGTTCTTAAGATTTAATGATTTTATAGAATAAACTGTATG
TTCAACTGAAAATTATCAGTTCATATGGTGACATTATCAATTTAAAACACCTTGGGATGTTACATGTCCACAGAACCATGTAAGTATTTGTTGC
TAAATTAGTTTTAAATGGATTTGTCCAGTTTCCCCCGATGTCAAAGTTAGGTTGCTTATGTATTTGGGCACCTATAAGAATTAAAATATTACAT
AACGTTGTATTTTCTTCTTTCTAACATACAGGATTAGATTCTTGCTTTAAAATTCTCCATTAATGTCTTCAAATTTTTCTTTTATATTCATTGA
AAATTCAAAAGCAGATTAGGGTTCTGAATACCTGTTAAGAATACTCAAAAGGGATATTTAAATAAATATATCTCATTAATACATTGATTTTATA
TTTAGCATATTTTTTCTTCTTATACATAGTCCATATTTTGACCTTATGGGAACCTTTGAAGTCTGAGTATTTTATAATGATTCTCCACAATACC
TCTTTATCTTTTAGATTCTAGATCTGAGATCAGGCAAGTAAAATAGTTTTACCTTTTTCCCCTCAAAAGGCCATGACTAACAAGCTCATTTACT
TTTTCCTTAAATATTTTGCTAATTATCCTTTTAACTGATGAAGTTCAAGTGGAATCCATGATTCATTTAATCTTTTCCCCTTTATGTAATTAGT
CACTTGTTCTTTTGATGTTCCTAGCAAAACTAATATTTAAAGGGCTAGTCATAAAATTCCAAAATAAAAAGTTCTTAAATGACTTAAAATAAGA
GATAAAATATGCTTTACTGTATAGTAAAAATGGAGAAAACGTCTCATGAATAGATGTTCTTTAAGGCTGTGAGTTATTTGATTTAAGCGTGTGT
TACCAGGTCTGTGTTCTTTTGGTATATAGGACCAAGAAACTACTTTATGGCTTAATGTTTGCTGTACGTATGTCATCTAGATGAGATAATGTAT
GACAGAGGGCTTTATAAAATGATAAAGTAGTGTAGACTTTTTTTTTTTTTTTTTGAGACGGAGTCTCGCTCTGTCGCCCAGGCTGGAGTGCAGT
GGCATGATCTCGGCTCACTGCAACCTCCACCTCCTGGGTTCAAGCGACTCTCCTGCCTCAGCCTCTTGAGTGGCTGCGATTACAGGCATGTGCT
GCCGTGCCCAGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTCCCTATGTTGGCCAGGCTGGTCTGAAACTCCTGATCTCAGGTGATCCGCC
CACCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGTGCCTGGCCGTATTCTTTTTTTTTTAAGAGCAAGATTTAGGAAGATTAC
TGCATATTCCTATAGCGTTTGTTCGATTTTAGATTTTTTCAGAATGGTTTGAAATCACATATTCTAGCTTGAACTCTAAACCTGGTCTGTCCAG
TATGGTAGCCATCAGCCACATGTGGCATTTGAGCATATGAAATGTGGTTGAGATGTGCTGTGCAATATACACCAGCTTTCAAACAAAAAGGATA
TATATCTCCTTGATAATTTTTATTATGTTGATTACATGTTGAAATGATAATGTTTTACATATATAGGATTAACTAGTAAATATTAAGATACATT
TGGCCTGTTCCTTTTTACTTTTTAATGTGGCTACTAGAAATTTAAAATTATATGTGGTTCACCTTATACTTTGATTTCAAAGTGCTGATTTAGT
CTCTAAAGTCTAGAGTGATTGAGAGCTCTCAGAGAAAAGAAGATCAGAGCTTAACAGAGAGTTTTAGAGATGAGGTGCCACCGACAGAATCCAC
TTACTTGAAGAAATCCCAGTCTGCACCTTTGCCCTACTTTTACAGATTACTGCTTTCTTGAACCCACAAAGTAGAGCACTGGGTAGCAAGCATT
TAATATCTACAATGTACAGAGCATTGAAGGGGGATTAAAATAAGTATCACACAGGTCCCTGCCTTTAGGGAAAACATATAGTCTACTGGGGAAG
CAAGATATGAGCACATGAGTTGTTAAATCATGGCTTGAGAGATACATAGCTGTTCAATGCTCAGGTCCAAGACTGTTGCAAACAGACGGTTGAG
GCACTAAAAAAAGTGCTTCAAAGGAAGGAAAGGTCTCCACGGCCTGGAAAGGTCTCCATGGCCTGGAAGGGTGTCCCACCAGAGGAATGCCTTG
GCTGGGCACTGACGAGTGGGTAGAATTTCAGTGGGCAGAGAGAAAGGGGGCATGGCCAGGTAGGAGGCAGGGTAGAGTGGGAAGAAGGAGGAAA
ACATGGAAAAGCACAGAATGGTTGAGAAGTCAGTGAGAAGAAGAGATGGATTGAACTGTGAGCTGTGAGTAGAATCATTCTCTAGTCCACTTAT
TATTGAAGCTTTAATATTTGACATCGTCTCCTATAATATTATGTATCTTGACACTCTTCCGAAAATTATTTACCAAGTGTCTCAAAGTAGAGGT
TAGGGCAGGACACTTTAACTTTGGGTAGAATAAATGTTGCATATCTTTGATTGTTAGGAAGTTCTTTAAATGGCAAAACTGATAATATTATCTT
GCCAGTTATGTTTATACTAACATTTTGTGTAGAACCATGTAACTTTAAAGGCTTCTCGGATAAGTACATTATTAGTATTTCAGGCAGTAGTGCT
CAGCATTTGTATATTCTTCTTGCTTAAAATGCCTTCAGTGTTATGTCATTTGATCTTTGCTGTTGGCTCCATTTTATAGAACTGGAAGCCAGAG
AAGCTAAGATTGAATAATTAATGGTAGAGTCTGGAATTTGAACCTAGCTCTTAAGCTTCTTCCATTTTACTGTGTGAAACACACTAGTTTTCAT
TCCTGTAAGTCTGTTTCTTAAGAGAAGCTGATTAATTTTATTTCTTTTTAATTGAATGATAATATAAATAGGGAAAAGTATGCATATAACATAT
ATTCATCTTACTGACGAATTTCCATAAAGTGAACACGCTGTTGTAACCAGTTCCCAGATTAAGACACAGCATTATCAGCGCCCTAGAAATCCCT
CAGGCTTCCTTCCAGTAACTACTTCACCCGTGGTAGCCACTACTCTGACTTGGGAAAGCATAGATTTGCTTTGCCTGTTTTTGAACTTTATATC
AATGGAGATACAGAATGTACTATTTTGTGTCTAACTTCTTTCACTCGATAATATGCACAGTTAACTCATATTGTGCATGACACCATATTGACTA
TGGTAGTTGATTTTTCATTCTCCATGCTATATAGTATTATATTGTGTGACTATACCACTATTTATTAATTTGTATAGTTTCCAGTTTGGGGCCA
TTATGAGTAGCAATGTGAAGATTCTAGAACATATCTTCAGGTGAACAACATAATTATTTGTGTTGGGCATATTTAGGAGTTAAATCAGGAAAGC
AGTGTAATTTTTAAATGTCTTGTAGATGAGGCTGAAATTTGACTTTGTGACACTCTTCAAGAAAAGAAGTGAAAACCTCAAACTGTTGGTGTCT
TGAATAGTATATCAAAATAAATACTAAGGCAGCCATTATGAAAAGGTCCAAGGTAGAGGAATTTTAATGCCCGAACACATTTTTTCAAGGGAGG
ATGAAAATAGTCAATTCTCATATAGAGAGAATTTGAAAGGGTTAGGATGTTAAAATACTGACGTTATATCACTCAGGTTTCTCTTACAGTTATA
TTTTTTTTCTTCAAGAGAACTTTTAGCAGGTGATAGTGGAAAACTAAGGTGTGATTGGTACCAAAATGACCATTGTCCCAGGGTATAATAAGGG
ATGAATAACTGGGGAGTGTATTTACTAGGAAATAAGAAATGGGGTTGGGTTAAATGGCAGGAAGGTACATTCCAAAATCTATAATGCAAGCTA
TGGTTCTCAAAATTTTACTGAAATTTCCTCTCTCTCTCACTCTTTTGCTTAGCGTAATCTGTAGGCAAAAGAATTTGCATTCTTTTAAAGAAGG
CAATTATAAATACCATAACTTGTTTTTAGAAAAAATCTTAGACGTTTATCCAGAGGCAACCTGTCTGAATGAAAATGTAGTTCTAGGATTTGCC
AACACAAAAGACTTCAGTGTCTACCTTAATGCTTATTAACATTAATGGTGATCATTTAAAGGTGTGTGTTTTATGTTTAGACTTATAGGTGTT
GTTGATCTTAAGCAGACTAGGCAGAGAAATCCTTCACATTTTCTGTGCTCTCATTCAGGATGGCCCTAGGCATGTTACATGGGAAATGAGAATA
TGTGAATAAATACTCTCATACTTTCTTGGGCCTCAATGAAAAGAACATTTGTTACCATTTTTAGTCATAAATTAAAATTATTTCAGAGTAGGAA
ATATAACATTAATTTAGAACATGGCTGTCATAGATGAAACGTTTTACACATGTATTGCTGTGGTAGACATTCCTTGCATTTATTGAAAGCCTCT
CCTTTATAAAGTTAGTGAAGTGTGACTACTCTGACCTCCAAATACTGGGTGTATTTGAACTATGAAAGTAGGTTTAAAAGTTACACTTTTCTTT
AATGCCCATTGATGATTTCTTTCTTTTTTTTTTTTTTAAGACGAAATCTAGCCCTGTCACCCAGGCTGGAGTGCAGTGGTGTGATCTCGGCTCAC
TGCAGCCTCTGCCTCCTGGGTTCAAACTGTTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTAAAGGTGCACACCACCATGCCTGGCTAATTT
TTTTGTAGAGACTGGGTTTCACCATATTGGCCAGGCTGGTCTCGAACTTCTGACCTCAGATGTTCAGGCCGCCTTGGCCTCCCAAAGTGCTGGG
ATTACAGGCGTGAGCCGCTACGCCCATCCAGAACAACAGGCACTGGGGCCTACTGGAGAGTGGAGAGTGGGAGGAGGGGGAAGAGCAGAAAAAA
AAAAACCTATCAGGTACTAGGCTTAGTACCTGGATGACAAAATAATCTGTACGACAAACCCCCATGACGCAAGTTACCCATATCACAAATCTGC
ACATGTAACCCTGAAGGTAAAAGTTAAGTAAATAATAAAATATTTTACATTTATTTAAAAATTCTAAAATGGTTGTATTTTAAAAGTAAAAACA
AATTTTGGTTAGGATTTGAGCTTATTCCATTTTTCTTTCTAATTTTCCAAATTAAATGTAAAATGAGAGCATCCCAGGTAGGGGGAGGTAGGGGA
GAAACCAAATAATTTTCAAGTCATATTTGAAGAGCAGGTATGTTCTCTCACGATTTACAGTGCAGGTGCATTTTAATTTAACTGCTTTAAATGA
TGATAAAAATTGTTCAAGTAGAACAAAGCAAAGTTTTAGAAGTGACTTGTAAACAGCCATTCTTAATTTTTTCCTGTTTTCTCTCCACTTATGT
GACTTGCATGAATTTCTGAAGCAGTCCTTTCAAATGACACTGCTCCAAACATGTGAATTGCATTCATCAACAAAATCCAGCCTTTTCCTTTGTA

SAGRES DISCOVERY 02-02

GGACAATGTGGGGTCACGGGGCAAGGGGTCTTTTCTTTGTCTAGCCTGGTGCCAAAGCAAAGACTAGTCCTCCCTGCGTTTGGACCCAGTGACA
TGTTTCCATTTGTCATTGAACACTAGGGGGAGGAACTGTAGCCTCTGAGGTACCCCCATTTGGTCCTCACCCTCTACCAGAGGATTTGCTGCTT
CAGCCTCTTCAGTGCCCCAGGTATTTGATGCAAAGATTATGCACTTATGCTGCCAGTTATCAGGGTTGTGTGGGTGTCTTTAGAGGGGTCTCCC
CTTAGCATCAGGTCTCAATGACAGAATCTAAATAACACAGGTTACTCATCACGAGTTAAAGATTTTTTCCCTTTTCACATTGATGCTTCTGATA
TACTTTTATACGTTAGCTGATTGTATGTGCGTACTTTGTGGCTGCAAAGATGCAGCTGGAAAGTGTGTGGGGGTTGTCTGCTTCCTCTGAGGCT
GCTACAGGTGGTCAGGTGGGGGCGGCTGTGATAAAGGTACAGCACCCACTTCCGCCAGCTTGTCTTGTGCGCCCTGTAACCCACTGCATGAACC
CGAGTGGCACTTCAACCGGATTTTCTTGTTGGCACTTTTATCTTTCACTGCTTCTGACTTGCCTGTTGAGGTTTATGACTAAGGTTGTGATTAA
AAATTCCCTTTTTAGGTATGAAAAGTCTTTTCAATTACTTTGTGTTCCTTTTTTTGTTTTGTTTTGTTTTTGTTGTGTGTGGACTTTCTGGGTT
TTGTAAAAATGAATCTTAAAAAAATCTTAATATTATGTAAGAGTTAGATAAAGGTTAAGTAGCTAATATATTCTCTCATCAGGGCATAGAATCA
ACGTATGTTCTTGGAAGATTAAGTGTGTCAAAATGCATTTTATGATGGAAGCACTGTCAGTTGTTTAGAATAGGCATGGAAAAGCCCTTTTCAG
AATATTGTCATAAAATCAGACTTGGAAAGGTTTTCGTTTATTCAGTCTGTATTCCCCTATCTGTCTGTTTAATCTCTGCATATTACTGTCCTTG
GAGCACGGAGAAACGTGAGCTACCCTTGGAGGTTTATAGTCCCACTGGAAGGGAACTAATGTTTACGCCTGATTATATGATAGGAGCTTTACAT
GTTCTTATTCAGTCTTTGAGGAAACCTTATAAATAAGATAATAACTTTTTCAGAGAAAGAAGCTGGGGTTCTGAGACATTACCCACTTAGGGGC
ACCCAGAGGAAAGAGCAAGACCTCCAGCTCCATCACCAGTAATTTCCAGCCTGTGAGCTTCCCTCCACACTCAGTAATTTAAAAAACAACTTGA
TTTAGGGACATCTAGTAAATATTCTAGAAGTTCAGAGGCAGAAAAGCTAGTTTGCAGCTGAAGTACTCAGATTTCCCACTGGCTGAGTGGGAAA
TCAGACCCGAGCCTTGACAGTGGGCAGAATTTGTATAGAGGAGCCAAGAGAAGAAGAGTTTCCACACTGTATAAGCCAAATGATGGAAGGTGTA
ATAACAAAGGAAGGGTGAGCACACAGGTTTAGGAGATGCTGTGTGGGCCAGTCCAGCTGGGAGCCATTACCATTTAACACTTAATGGAGTGCTT
ACTGTGCTAGGCACTCTTCTAAGTTCTTCACACCTTTTAACTATTCTTATCTTCACAGCAAGCCTTTGCAGGAGATATTATCAAGTCCCTCCTG
CCCCCACTTTTTTTAGAAACAGAGTCTTGCTCTGTTGCCCAGGCTGGAGTGCAGTGGTATGATCGTAGCTCATGGTGGCCTCGAACTCCTGGGC
TCGAGTGATCCTTTTGCCTTAGCCTCCTGAGTAGCCAGGACTACAGGTGTGTGCCACCATGCCTGGCTAATTTTTTTTCCCCATAGAAACAGGA
ACTCGTTATGTTATCCAGGCTGGTTTTGAACACCTGGCCTCAAGCGATCCTCCGCCTTAGCCTCCCAAAGTGCTGGGGTTACAGGTGTGAGCCA
CTGCACCTGGCCTTCATTGAGGGATGAGGAGACTGAGGCACATAGCAGTTAAGTTGTGGAACTGTGATTCAAAGCATGGCCACCAGGATCCAGA
GCCTGAGTTCTTAGCTACTCTGCTGTCTTGTTTTCTCTCTACTGGGCAATGCAGGTTGCTTGTTAGAGGGGTGATGAGGATTCTCAAATTGCTG
GGGATAGCGAGAGGAAGATGAAAATGGCAGGGGTAGTGATAGAAAGATCAAAATGGCAGCAGCACGCTGGCCAATTTTACAAGAGGAAACATTA
GGAAAGAAGAGAAGAGGGAGTTTTTCTCAGCTAAGCAGGATCTGGTCAGTGTAAGTGGGTAGCAAAAGATAGAGGTGAGATGTAACAAATCAAG
AGGCCTTGATGAATGACTGGAATTGAAGAAGAGGGAATGAGCAAAAATGAATCTAAGATTTGGAGCTTGGTTGGCTGGGAGGATAATTCTGCTA
TTGCAGAAATCAATGAGGTCAATAGACAAGCTCATTTTTCCACAGCAGTAGTGTTGCAGCAAGAAATGAAGGCTTTTGAAGAGCATATGCAGTA
GAGATACCATATGCAGGAAAAATGGCTCACTGGAGAGTTGAGAATAAAGGAGAGGAGTTCAAGGGAGGGAATGGGGATGATTGGGGGGCTATCT
GCAAGGAGAGAATTGATGTGCTGGGAACAGACGATTTCTGAGGGAGAGAGAAAAACCCAGGGCCTTAAAAAGTGTCCTTGGTCAAGAAGCAGAA
GGAGAAAGAGGAGCAGGAAACCATAAAAGAAACAGGCGAAGCAGGAGAGAGAGGAGAATAAAAAGAGGAAAAAAAAAACTACTGAACAGTGTCA
GACACTACAAAGAAGTCAAGGAGAACAAGAGTGAAAGGGGGACATAAGATTTGACACGGAAGAAGGCCATTTGTACCCTGCACAGTAAGTCTTG
GTGACATGAGGAGGTGAAATCCAGTTGCATTAAAGTCTGTGGTATTGCTGAGTTCTTCCTCATGGGCAAGTCCCTGGACCTTTTCTAAGCACTA
AATTTGCAGGTAGTTCAATGTCAAGCAGAGAAGGAAGTTGGTTAACAGCACTTGGTTGCATGATACTACGTTTTGTTATAGTGACCTAACTGAT
CTAACGTGTTTTGTCTTTCAGCGCGTTCGTTCACATAGCTCCCAGTTTTAACATTTCGCCACCTACTGAAGACATCATTTGGGACCAAGCTGAT
GAGCCCTTGAAGCACAGCAGGTGAGGCAAGGACCTCAGCTTGGTCTTTGTTTCATAAGTTTACACAGCTAGCTTACATTCCCACCAGCAGTGTG
AAAGTGTTCCCTTTTTACCAGATCCACGCCAGCATCTATTATTTTTTGTTTTTCAGTTATGTCCGTTCTTACAGGAGTAAGATGGTATCTCGTG
CACTTTTAATTTGCATTTCCCTAATAGAGATGTTGAGCATTTTTTTCTTATGTTTGTTGGCTATTTGGATGTCTTCTTTTGAGAATTGTCTGTTC
ATGTCCTTTGCCCAGTTTTTGATAGGTTCTTTTTAAATTAGTTTATTAGCTTTTAATATAAACATGAGAAAAACCACATAAATTGTAGCATTCT
TTTCAAAATAAAACTGCAATCAATACTTGAATGAATCTCCAAGCTCTGAACTTCATAAACAATGTTTTTTCTTTTCTTTTTTTTTCTTTTCCTT
TCTTTTTTCTTTTTTCTTTTTTTTTTTTTTTTTAAATGGGGTTGTTTTTATCTTGCTGATTTGAGTTCCTTGTAGATTCTGGATATTAGTCCTTT
GTCAGGTGCATAGTTTGCAAAGATTTTCTCCCACTCTGTGGGTTGTCTTTTTACTCTGTTGATTTTTTAGTTTAATTAGGTCCCAACTATTTAT
TTTTGTTTTTTGTTGCATTTGCTTTTGGGTTCTTAGGCATGAACTTTTTGCCTAAGCCAATGTCTAGAAGAGTTTTTCCAGTGTTCTAGAGTTTT
TATGGTTTCAGGTCTTAGATTTAAGTCTTTGATTCATCTTGAGTTGATTTTTGTATAAAGTGAGAGATGAGGATCCAGTTCATTCTTCTACATG
TGGCTTGCCAATTATTCCAGCACCATTTATTGAATAGGGTATTCTTTCCTCACTTTATGTTTTTGTTTGCTTTGTCAAAGATCAGTTGGCTGTA
AGTATTTGGCTTTATTTCCGGATTCTCTGTTCTGTTCCATTGGTCTATGTGCCTGTTTTTATACCAGCACCATGCTGTTTTGGCAACTATAGCC
TTGTAGTATAGTTGGAAATTGGGCAATGTGATGCCTCCAGATTTCTTCTTTTTGCTTTTGTTCTATTGGCTATGTGTACCTTTTTTTGGTTCCT
TGTGAATTTTAGGATTGTTTTTTCTAGTTCTATGAAGAATGATGATAGTATTTTGATGGGAATTGCATTGAATCTGTAGATTGCTTTTGTCAGT
ATGGTCATTTTCATAATATTGATTCTACTCATCCATGAGCATGAAATATGTTTCCATTTGTTTGTGCCATCGATTATTTCTTTCAGCAGTGTTT
TGTAGTTTTCCCTGTAGAGATTTTCACCTCCTTGGTTAGGTGTATTCCTAAGTATTTTATTTGTTTATTTAGCAGCTGTTGTAAAAGGGATTTA
ATTCTTGATTTGATTCTCAGCATGGTCACGGTTGGTGTATAGCAGTGCTACTGATTTGTGTTCATTGATTTTGCCTCCTGAGACCTTACTGATC
TAGGAGCTTTTTGGATGAGTCTTTAGAGTTTCTTAGGTAGTACAACCACTCTGGAAAACAGTGTGGAGATTCCTTAAAGAACTAAAAGTAGAAC
TACCATTCCATCTAGCAATCCCACTATTATCTACCCAAAGGAAAAGAAGTCATTATATGAAAAAGACACTTGCACATGCATGTTTGTAGCAGCA
CAATTCGCAATTTCAAAAATATGGAACCAGCTTAAATACCCATCAACCAATGAGTGGATAAAGAAAATGTGGTATATATACATCATGAAATACT
ACTCAGCCATAAAAAGGAACAAAATAATGGCATTCACAGCAATCTGGATGGAATTGGAGACCATTATCCTAAGTGAAGTAACTCAGGAATGGAA
AACCAAATATAGTGTATCATAAGAATGATATAATGGACTCTGGAGACTCAGAGTGAAGTTCCACTAGGGAACTTATCCATGTAACCAGAAACCA
TATGTTCCCCCAAAACTATTGAAATAAAATAAAATAAAAATTAAATTAAAATTTTAAAAGTTCACACAGCTGCCCAGCGTGTGTCCCACTCACCGGGGC
CATCAGCTTATTCTGTGTATTTCTAAGCATCTTATGAACACACTGATTGTTATAAGGAATCCAAACAATATAGCACTGCCACACTTGGGGCTGC
TATTTGTTTTAGGGCTCTTTTATTATGGAAAGTCCAACCGATATGAAAATAACCTAAATTTTCTCTGACTTCTCAGAAATTCTCAAAACATCAA
AATGTGCCCTGTCTTTTGATGCTGGTTACCCCTTGGTGGGAATCCAGGATTTCCTTATTTCAGTGTCACAGCTGTGAGTTGTAAAGCATTTCAT
TCACCACAATGCTAGTTACAGTTGATTTTATTTAAGCTGCCAGATTTGGAAATGCACCTCACTATAGCATTAGTTTAAAAAATTTAGGAAGGGG
AGAAGAAATTTGTATGTACAAATGATATTTTTTACTTTTGGACTGTAAGTATGTTTTTTGGTTCTTTATTCTTCCCACCAGTTTTTCTGGGTAA
CTGTAACTTGGTGTATCAACTTTTAGAAAACTCAGAAGACTTAGGAGTATGTAAGCTCTCTCCCTTCCCTTCCCACCCCTCACCCCCAGCATAG
AATATTGGTAGGTGAAACTTTATTAAATAGAATCTGCACGGAGTAGTCAGACCTTAGCCCCACCTAACCCTGCCACTTGTCTCTGTTACTGTTT
TCTGTTGCTATTAGCATCTTCATTCAGAAGGACGAGAGGGGAGAAAAAAATGAAAATGAAGTTAATTTTGTTCAGCAAAAGTTAAAGTGTCTGG
CTGAACTCTGGGTAGCTGGTTTTGGAGTTGTATGGGGTTTCATTTATTCTCCAGGTCTCTTAGTCTTCACTTGAAAATAGAAACTAGAGTTCAT
TTTTCCTGACAAGAATGAACTTAATTATTTACCTAGAATGGTTAGTAATCTGTTCTTATTACCAGAAAGCTTTCTTCTGATCTATTTAGTATCT
TTTTTCATAAGAGTTTGAATATATTAGCATGTATTCTCAATAGAATCTAATCTTTCATTATTAAAGTTCCTAAATATCTTATATTACTATGTTT
TATCATTATGAACATTGACTCTCATTGTTTAGAGTTTGCTTCTCTAATTATCTTGGGTGAAGGACCAGTTTTGTTTTTAATTTCCAGTATGTC
ATGGATTGATAATTTTATAAAATACAATAAAAATGATTTACTAGAAAAATGAAATACTAGAAAAATGAAATTTAAAGAAACTAAAAACATAAGC
CTGATTAAACATTTATTATTCTTATAGTCAACAGACATAAAATTACTCTGGCAAGCTGCTGTAAAAAAATTCTAAAGGTCTACTCTCAGTTTCT
GTGCTTATTCTGGGACTAGGGCTGGTCTGCAGAGTCCAGTTCGAGTTGCACTGTTGGACAGAATATATACAACTTAGGAGACTGAAGTTCAGTA
GATACTAATTTCAGAACATATCCTCAAAGTGGGTTTTTGGGGACTGTCCCCTTCACATTTCTTGCATGTATAAAAGGCAAGTGCAGTTCGGGTA
CAGTGGTTCATGGCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGCAGATCACTTGAGATCAGGGGTTTGAGGCAAATTTGGCCAACATGGT

GAAACCTCGTCTCTAAAAATACAAAAATTAGCTGGGCATGGTGGTGTGCACCTGTAATCCCAGCTACTCAGGAGGCTGAGGCATGAGAATTGCC
TGAACCCAGGAGGCAGAGGTTGCAGTAAGCCAAGATCATGGCACTGCACTCTAGCCTGGGCGACAGAGCAAGACCCTGTCTTGAAAAAAAAAAA
AAAACAAAAAAGGCAAGTGCAGAAAAAAATGCTGTTTACTTAAACTTTTTCTATTTTAAAAAAAATTGTAGGACAATGCATAAAATAATATTTA
GGTGAATATAGAAAAGTTGATTGTCTTTCTCCCACTCCTCTGGTTCTTTTCCTTTCTCTATACATCATATACATACATACAAACATATACCTT
TACATGGAGAAGGGACATTTTTTCTGCTATGAAAATGGCATCATAAACAATACTCTGCAACTTTCTTTAATATTTTGTTACAACATTTATCCTT
ATCAAATATGAATCTAGTGGCTCTTTTTAACAGTTGCATAATATCCTATGGTATCGTTGTACCATAGTTTATTCAATTATTCCCCAGCTGATAT
ACCTTCAAGAGCATTCTAGGTTTTTACCATTCCTAACAACACTGCAGTTAAATTCTTGTACATATATTCATGTGTATCTACTTTGATATTTGAA
GGATAGATTCCTAAAAACGGAGTCAGTGACTCATGCATGATGTCAGATGATACTCCAAAAAAGTTGCATTGCTGTAGAGTCACACCTGCAAAAT
ATGAGAGTACCTGTTTGCCTCACCCCTGCCAGGTGTTAGGAGTCTTTTTAAGTGTTCTCTCTCTGCGGTGTAAAGTGATCACTAGCTGTTTTAA
TTTGAGTTCCCCTGATTGCCAGCAAGAGTGTGCTTCTTTTCATATGTTTAAGGGCCTGCTGGATCTTTCTATTCAATTTGGGGGCAACAAAACT
TGACAGATTTTATTTTATTAGGTCTTTTGTGTACCAAGTTTTCTGTCTGTGGTACACTCAGTGGTTGGGGTTTATATTATTTGTTCGTTTTAGT
AGGGTAGAGGACATGGGAAAAGAACAAAGATACAGTGTTGAGGGTTTTTTGGTGGGGGGGAGATGTCTTAGTTCTGATTTTCTTTGTCTAACAT
GTTTTTTTTCTTCAAGATCAGCTTACAGGAAATCCGTCCCTATTTGTGTGTAATGTAAAAAGGGCACAGGGTGGGGCATCTTTATAGCTTGGCA
TAGTGTATATCGTTATTCAAGATTGCTCAAAGACTATGCGTTGCCATGTGTACTTTTAAAAAATTGAGGTAAGTTCATATAGAATTAACCCTCC
TCAAGTGTACAATTCAGTGGCATATAGTACATTTACAGTGCCGTGCGACTGGGACCTCTATCCAGTTCTGAAACATTTTCCTCACCCCAAAGGA
AACTCCGTCCCCATTAAGCAGTCACTCCTCATTCCCCTTATCCCTCAACCCCTGGAAACCACTTCTCTGCTTCCTGCGTCTATGGTTTCACCTT
TTCTGGATATTTCATATAAATTGAGTCATGCAGTATGTGATTTTTTATGTCTGGCTTTTTTCATTTAGCATAACATTTTTGAGGTTCATTTGTA
TTGTTGTGTGTATCAGTACTTCATTCCTTATTGTGGCTGGATAAAATTTTATTGTATGCTACAATATACAATAATTTGTTTATCCATTTACCAG
TTGATATTAGGGTTGTTTCCACCTTTTGGCTGCTGTGAACAATTGCCCATGTGCACCTAGATGCCAAGTTAAGTCATAGAGAGGCATGAGGGAA
GAAGAAAGACAGCTGAAAAGAACCTCCCAGGGAGCATCTTCTGTCTTCTAGAGCCTTCCTCTCTCTGTAGTTGGTCATCTACAGGCTCTTTAGG
AGGCTGGGTCAGTCGTGGGGCCAGATTTGGGATCTGTTTTCACTGGCTTCAGTATCTTCGTTAAACCAGAGATAGACCCTCCATATCACACCCT
CTGGATTTAAAAAGGAATTTACATCCCACCCTCAGGGCACTAGGTCTGCTCTAGCCTCCATGGGTGCAGTGGCCGCAAGGAACATTCATGGCTA
TTCCTCCATGGTTGTTGCCTCTACCTTTAGCATCTGGGTTGGAGCTTGTAGAATGTGGTGATCAGGAGGAATTGTGCCCACATAGTACCTGGGC
ATATGACAGTATAGGCTCATTTCCCATCTCTGCAGCCTTAGTCCAGTTATGTATCTCTCAGTTTTCTCCCCTGGTAAAATGGCATTACTAATACT
TACATCATAGGGTTGTAGAGATAGTTACATGGGATAATGTATAGAGAGCACTGTTACAGTACCATGTGGTAGTACTTGATAAATGTTCATTTCT
TCTGTTCTCAGTGCTTCTCTGTCCTCTTCTATCTGGTGCCCAGGACATTACATACTTCACAAGGTAGTATTAAGTTTAAAATGAGTTGATAATG
CAGAGGAAGTCTCTTAGCACCATGCCTGCAACGTAAGTCAACACTCACTATAGATAGAAAGGTACCTTACCTTGCAGTTAGGATTTCTCATTGG
GAAAATGCCATCCAATTGATTACAAGCCGTCTAAAGTGTTTTAAGTGGTAAAGATTTCACCTGGGTATATTGAGTTGTTCTGCAGCGTGGTGTT
TATTACCATAGACACATCGGGCTAATTAAGACAGCCATGTTCAGGATAGATGCACTATCACTAAGATCCTGATGTGTGAGTTGGGCATTTCCCA
TCATGTTAGCACAAATATATTAAAGAAAGTTACTTTTATATCAAAGTGTTTGCATCCCAAAGAAAATACTTGTACAGCCTAAAGTTCTCTTTCT
TGTGGAAGCTGACAAGAGACTTCTGTCTTGCCCTCCAAAGTGGTTTAGTATCCTATTTTGAGCACTCTTTGGGTGCTGTTATTTAGAAATTCTA
TTTTAGAGCAAATGGGAAGGATTTTATAAAAAAGGGAGAAGCAACTGTCCTCCACCATGCTCTCTCTCAGCTGTGTAACAAGCCTCTCTGAGGG
TGAAGTGGATCCCCATAATGTGGGCCCCATGTGTGAACCTTTTACAAGGTTTTCTTGTTGTAATGGCTGATATAATTAAAGGAGAGAGTTCATG
TTTTGTCTGAAATGGAGCATGCCTTGAGTTACAATGTTTTGTTTTTCTCACCAAATATATCCTGACTATAATAGCAAACAGCTTGTATAAGATT
TTTACATAAACATTTGAAAAAGCATTCTTGTCTTCACTGAAATTTTGAAAGCCTTTTAAGAATATTTGTAGCACTTATGTTTTTAAATGTACAG
GTCTAACATGCAGTTGTTTATTTGGTAAATTCATTCCATGAGGGTGCTTTGAATCTACCTCCAACCTCTCACGGGTCTCCCAGACTTCCCAGGA
ACCACTGCTTGACAGCTGGAGAGACAGCAGGTGAACCAGGGTCTCACTGGGAGGGAAAGACGAGGAAACCCCAAAGGGACAGCTTTCTGGAGAA
AAATGCCTGGCTGTGAATGCCTCTTCACCTCCATCCCAGATACACACTTCCAGGATGTGCAAATTGAGTCAACATCATGTCTGTAGAGGACAAC
AACATGTCTTTTGTTAGTCTTGACATTTCTTTAGCCCTAGGCCTCTCAAGTTTTGGATATGTGATGCTCAAGAAATGCATTTACAATTTGAAAA
CCTGGTGCTCATTAAGTAATTCTTTTAAAATTTTTTCTTTTCCTTTTGAAAAATTCAAACCTAGAGAGGAGATGAAAGAATCATATGAAGAAC
ATTTATATACCCTTTGTTTATATTTGCCAATTATTAATATTTGTTATTTTGTCTCTGAATTTATAGTTTTGTATGTGTGTTGGCAAGAGGGGTT
CATTTTTTAGAACTATTTAAAAGTAAGTTGCAGACTTACTTTCATGACATTTTTCCCTGAAGACCTCAGCATCATTTCTGAAGAATAAGAACAT
TTTCCTACGTAACCACAATCCTGTTATAAAGTAAGTCTTAATTGAAAACTTCAGACAGAGGACAAAAGAGTAAAAAAGGCAGAGATTGAACAAA
GCTGTAATTGAACTTGGAAAGTATAAGGAGAAGAAATATAGGGAGGTAATTAGAACTCCTGTTTGGTTCCTTAAAGGATAAATTTTGTATATAC
CAGCAAATCACTCAATGAATGCAGATTTTCTTCAAATATTTACTTTATCTAGTCCAAGGAGTTTCTCCTGGTGCTCTGAAGTCAGTGTTTTGGC
CAGGGTTATAAGCTTTTCAGCCTGTAAATACATTTCTTCAGCATCATCAATCTAAAACCTGAGTGACCACATCCTACTTAGACTTGTGGTTAGG
AGCAAATTTTCAAGGGATTTTGCTGGTGCCATTACCTTGAGAACATGGGACCTTCAGTTATTACAGTCAGAAATGTTTACTAATGGGCAGTTAG
TGTAAACATGGGAGTCCTTTCCTGACATTTAATTTAGGTTTGAGTAAAAGCTGATGTGTTAGCACACTATTTTGAGAAATAATTTTACAGGCTT
GGCAAAATGTTAAGCTTGATGTCATCACAGACTTTTGCAGATTTAGGCTTCAGGAGTCAGCGCAAGAAAAAATGCTACTCTTATAAAGGCTGAA
CAGCAGGAACAAAGTTAAGTGGATGGCATGTAGATGCATCACTAATTTGTCTATTTTAAAACAAAGATATACATTTTCTTGATACCAATAGCTT
ATAGAACATTAAACAAATTAAAAGGTTTATTTGGACTGTTTCCCTGAAAGCCTCCTTCTTCGGTAGGATTTAATATTTTGCCAGAAGAATTATG
TTTGGGGATTTATTTTTCAAATTTTTTAAAAAAGCTATTTTCACTAAGCTTTGGGAGGGGAACCATATTAAGCTGTCTGTCTAACTAAGCACAT
CAGGCATCATCATGTCAAGAATGAGAAACTATGTGTTTCCTTTAACAGCAGTGTATGTCATAGAGATGTTTGACCCATGATTTTTCATGAAAAG
GTCCATTTTCAGTAAACTCTTGTGCTTACCTAGTGTCTTCAATGTGATAACTGGCTTCCCACTGATCAGGGGTGAGATGCATCACAGAGAGTTT
GAAACTACACATTTTGTCTTTTATTTCCTTTTTCTTTTTACTCTTTCAGCCTTCAGTGGCCATGGAGATTTTTTATTTTAAATTCCAATTTTAC
ATATCAAATTTACAAACTGTGACTTTTAAAATAATTGTTGTACTCTTTTCTGTGAGTGAATTTTAAAAAGCATTTAATGTAAAATGCATGTGTA
GTTTCTTGTGTATCAAAGCCATGCTTTTCCTTAGATCAGCTTAATCGTCTCCTGTTTCCAATTTGTGTTAGAAAGTTCTGTGTGAAATGTGAAC
TCTAGTTTATATACTTACTAACAGTTAATGCGTGTCCCTTGGGATAATAGCTCTTGAGCTATCTTTGTGGCTGTCTTACGTAGACCATTTGAAT
CTTTCTCCTTTAATGCCAAGTATCCACTTTTCACGTGTAAATTGGAGATGTCACTACCTGCACTTGGACACCAGTGTGTGCATGTAATGTTGAT
TGGTGTCATCATGGTTTTTGGCTACTCTGTGATAATTTTGTTTTTCAGAGGCAAATTTTGTGAGGCCAAACTTCGGAGATTGGGTCTGTACATC
ATTCATTCTTTCAGTCAGTAAACATCCATTTAGTGCCTACTCTGTGTCAGTGCTAGTCAAAAAGGAACAGGGCAGGATTGCTGTCCTGGAATCA
TGTGCACGCATGGTACCCATGAATGGGTACTAACAACACAACAGCCACTTGAATGGCCTGGGAATGGGGCGTGGGGATGGGAAGGGGCTCCACA
GATAGGTGAATTGGTCTGTAAAAGTCATCGCTGTACAAATGAATCCAAACCAAACATTGAAAGAATGCACAGTAGATTCCCCCAGTTAGGGCA
GGGTCATAGAGCATTTTGGGCAAAGAGCCCATACAAGGCCATAGAAGCATGAAACATATGCCACATTGTATGAATTTCAAATAACTTCATATAA
TGAGAGTTTGGGAACATGGAGAAGGTAGTGGAGGAAGATCAGACTAAAACTGATTATGAAGGACCTTACGTACCATGCCAAGGAGGCTGGCCTT
CATCCTGTAGTCAGTGGGGAACAACTTCAGGAATCTCAATGCAGAGGTTTCATGATGAAATTTGTGCTTTAGAAATATTCTCTTGCAGCACTGT
GGAGGTACAGATAAGTAGGAATGGAATCCAAGGCGAGAGGGTCACTCTGCTCCTACAGAAGTTCATGGGGCAGTGGCAGTGGGGAGATAAGGAG
ATGATGGTGCTGAGAGCCAGTTAAGAAATAGAATCCTCAGAACTTGGTAACTGATTGGTTATGAGTATTGAGACTACATGGGTGACTACATGAG
TGATCTCATCAGTATATAAGTATATAAGTGCTCAATTAGATCGTGAGATCAAGGGGCGATATTAATGTAGGAAACAGAGAACAGAGAGAACCAA
TGATATAAGCCCTAGGAAGTGGACTTTTAAGGAGGAAGCAAATAAAAAGAAGCTTTAGAAGGAATGATCTGAGGGTATGAGGAAAACCTGAGGA
TAGGGTGCTCCACGAACCCAAAGCAGGAATCTGCAGAAGGAGGGAGTAGTCAAGAATGTTGAATACTTCAGAGGGGTCAAGCAAGGGTTCCAGG
ATGTGTCAACTGGTAGGTTCAGTAATCCTAGCAAGAGCAATTAGTGGGTGGTGAAAAATAAGAAATGAGATGGTTCATTTATACTACTCTTTCA
AGGAGCTTAGATACTAAGGGAAGGAGAGCAAGAGTTGTCAAGGAACATTTTTTTTAATATTCTTTTTCAAGGTTAAAATCTCAAGCAAGTTTACA

TCCTGGAGGATAGATATAATCCATTAGACAGGAAGAAGAAGGAGATAACTGATGGAATAATGTCTCTAAGCAGATCTGATGGCACGTAAGCTAG
AACACATGGCAAGATTAGCTTTGGGCTAGACAAAGGACAACTCAGTTTTTAATAGATGGGAACAAAGGAGGAAAGACTGGGTGTGGATATGGAT
AAGGGATTGTAGGTCTTGAAAGTTGGAAGTTTGAGGGGTGTAGTGTCCATGAAAATAAGTGCTTAGATCTACAGCTAGAAGCGTAGTTGACTGA
TGGCCCAACTGCTGCCCCTCTGCAGCCACCCTTGCATTGTACTAAACTACAAATTGCCACTAGCGTCTCCCAGTCATGACCAAGCACAATAGGG
GCTCCTATTTCAGGCTCATTCCTGTGGGACACAGGACTTTTCCAGTGGGCCAAATTGGCTCAAGAACTCCTATTGGCCTGAGCAGACCTTTCTT
GGAACTGTGTTGGAATCCAAGACTTCCTAGCCATTCCTTCTTCCTTTCCTCTCCATGTCCATAGGTGTGGTTTGAAGGACCTCCCACATTCTGT
GGCTTCCTTTCTCAATATATCTTTTGTATTTCTAGTTCTATCTTGGTACTTGCTTCTGGGTAGACCCAAACTAACATAAAGAATTTGGTCGAAA
TGTGTATATTATTAAGGTAATGCTAGCTGCTGTAAAAATAACTTCTCAGTTCAACAACATGTACATCATTCAGACAGAAAATTAGTAAGAAATG
CAGGACTTGAATTGCATTTTTGGCCAAATGGACCCAATAGACATGTACAGAATTTTCCATCCAACAGCAGCAGAATGTAAAGTTTTTCTAGAGT
ATACATAGAACATTCTCCAGGATAGACCATATGTTAGGCCACAAAATTTAAGATTGAAATTATGTCTAGTATCATTTCAGATATAACTTCAAAC
CACAGTGGTATAAACTAGACATCAGTGACAGGAGGAATCTTGAAAAATTCACAAATATCTGGAACATAAACAACATGCCCCAGAACAACCAATG
GGTCAAAGAAGAAATTAAAAGATAAATTTAAAAAATGCCTTGAGACAAATGACAACGGAAACACAATATACCAGAACTGATGGGATATAGGAGA
AGCAGTTCTGAGAGGAAAGTTTATAGCAATATATGCCTACATTAGAAAAGAAGAAAGATCTCAAATGAATAGTGTGACATTACACCTCAAGGAA
CTAGAAAAAGAACAAACTAAAACCAGATTAGTAGAAGGAAAGAAATAAAAATCAGAACAAACATAAACTAAATGGATAATAGAAAAGCCACAGG
AAGAATCAATAAACTTAAGAGTTGGGTTTTTTTTTTAAGTAAAATTGGCAAACCCATAGATAGTCTAACAAAGAAAAAAGAAAACTCAAGTAAAA
CCAAAAATGAAATTGAAGAAATTACAACAGACACCTCGGGAATAAAAAGGATGATAAGTCCCTATTACGAACAATTATATGCCAACAAATTGGG
TGGCCTAGAGGAAACAGATAAATTCCTAGGAAAATACAACCTACCAGGATTGACTCAGGAAGAAATAGAAAGCCTGTAACAGACCAATCACAAA
TAGATTGGAGAAGTAATGAAAAACCTCTCAACAAAGACAAGCCCAGGAACAGATAGCTTCACAGCTGAGTTCTACCAGACATTCAAAGAATTGA
TACCAGTACTTCTTAAACTCTTCCAAAAAAATAGAACTAGAAGGAATACTTTCAAACACATTTTATGAGGCCAGGATCACCCTGATACCCAGCC
AGCCAAAGACATCACAAGAAAAGAAAATTTAAACCCAATTTCTCTGATGAATATTGGTGCAAAAAGCCCCAGTAAAATATTAGGAAACCAAATC
CAACAACACATCAAAAAGATTACATGTCATGACTAAGTGGGATTTATCCCTGGCATACAAAGCTGGTTTAACATCTGCAGATCAATCAGTAGTG
ATACATTGCATTAACAGAATGAAAGATAAAAATCACATGATAATCTTAATTGACACAGAAAAAGCATTTGACAAAGTCCAACATCCTTTATTGA
GAAAAATGCTCAATAGTGTATGTATAGAAGGAAAGCTTCTCTATGTAATAAAGGCCATTTATGAAAAACCCACAGCTAACATTATAATACATGG
GGGAAAACTGAAAGTTTTTCCATGAAGGTCTAGTATCAGGCAGGCATGGATGCCCACTTTCACCACTTCTATTCAACATAGTACTGGAAGTACC
AGCAATAGTAATTAGATAAGGAAAAGAAATTAAAGGCATTGAGGTCAGGAAGAAGTAAAGTTATCTCTATTTGCAGATCAATCAGTAGTAGTG
GTAGGGGGGGAAAAAAGCCCCTGCAGATTCCACACAAAAAAACTGTTAGAACAACGAATGAATTCAGTAAAGCTGTGGGGTGCAAAATCAACAT
GCAAAATCAGTTGCGTTTTTTTTCATACCAATTACAGTCTGTTTGAAAAGAACATGAAGAAAATGGTCCCACTTAACAAAGCATCAAAAAGAAC
AAAATACCTAGGAATAAATTCAACCAATGTGAAAGATGTGTACACTGAAAACTATAAAACATTAATGAAAGAAATTAAGCACAAAAAAATGGAA
AGATATCACATGCTCATGGATCAGAAGAATTAATATTGTTGAAATGTCCATAGTACCCAAAGCAATATACAGATTCGGTGCAATCTCTATCAAA
ATTCCAGTGACCTTCTTCACAGAAATAGAAAAAATGCTTCTTAAATTTGTACAGAACCATGAAAGACCCTGAATAGCCAAAACAATTATGAAAA
AGCAAAACAAAGTTGGAGGTATTATACTTCCTGATTTAAAAATTATATTACAAAGTTATAGTAATAAAGACAGTATTATACAGGCATAAAAACA
GACACATAGACCAGTGGAACAGAATAGAGAGTCCAGAAATAAATCCCACGTATATATAGTCAACTAATTTTTGACAAGGGCACCAAGAAGACACA
ATGGGAAAAGAATAGTCTCTTTGATAGGATGTTAAGAAAACTGGATTTCCACATGCAAAAGAATGGAATTGGACTGTTATCGTATACCACATAC
AAAAATCAACTCAAAATTGATAAAAGACCTAAACATAAAAGCAGAAACTATAAAACTCCTACACAGGAACATAGGGGAATAGCTCCTGGACATT
GGCGTTGGTAGTCAGCTTTTGGATATCACAACAAGAGCTCAGGCCACAAAAGCAAAATTAAATAAATGGGGGCTGGGCGCAGTGGCTCACGCCT
GTAATCCCGGCACTTTTGGGAGGCTGAGGTAGGGGGATCACAAGGTCAGGAGATCGAGACCATCCTGGCCAACATGGTGAAACCCCATCTCTAC
TAAAAATACAAAAATTAGCTGGGTGTGGTGGCGCACACCTGTAATTCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGAGG
CCGAGATTGTAGTGAGCCGAGATGGCGCCACTGCACTCTAGCCTGGAGGACAGAGTGAGACTCCATCTCAAAAATAAAATAAATAAATGGGACT
ACACCAAACTAGAAAGTTTCTGTACAGTAAAGGAAACAATCAACAAAGTGAAGTAGCAGCCTACAGATTGGGAAAAAATTCCAATCAGTATATC
CCAATATTCCAATGTACATCAGATATATTGTAAATCATGTATTTGGTAAGGAGTTAGTAGCCAAAATTTATCAGGAACTCATACAACTCAATAG
CAAAGAACAAACGAATTACCTGATTTATAAAATGGGCAAAAGGCCTGAGTAGACATTTTTCTAAAGAAGACACAAAGATGGCCACAGGCATATG
AAAGGGTACACAACATCATATCAGGGAAATGCAAATCAAAACCACTGTGATTTACCTCCTCACAACTGTTAGGATGGCTGTTATCAAAAAGTCA
AAAGATAACAAATGTTGGTGAGGATGTGGAGGACTCTTGTCCACTGTTGGTGGGAATGTAGATTGGGTATAGCCGTTATGGAAAACGTTATAGA
GGTTTCTAAAGAAATTAAAAACAGAACTACCATATATGACCCAGCCATTCCTTTTCTGGGCATATACCCAAAGGAAATGAAATCACCACCTCAT
AAAGATGTCTGCACTCCCATGTTCACTGCAGCATGATTCACAATAACTAAGATATGGAAACAACCTAAGTGTCTGATGATGGACAAATAGAGAA
AGAAGTGGCTGTAAGTATACCACATTTGGTTTATACAAAATGAATATTATTCAGCCCTAGAAAATAATGAGAGCTTGTCATTTGCCACAACATG
GGAAAGCCCATTGTGCTAAGCGAAATACGCCAAAGAAAGACATATTATATGATCTTACTTATATGTGGAACCAAAAAAATTTCAAATATGCAGA
GAGAATACAACAGTGGTTACCAGGGATATGGGTTGTGGGCAGGAAATGGAGAGATGTAGGTCAGAGGATACAAAGTAGTATGAACAAGTATAGA
GATCTAATGTGCAGTATGAAGACTATAGGTATGGGATTCATGCTAAGTGAGATTTTAGCTGCTCTTAACATAAAAACAAAAATAGGGTAACTGA
GATGATGGATATGTTAATTTGCTTCACTACAGTAACCTTTTTACTATCTATATTAAGCCTATAACATCACGTTGTATACCATAAATATACGTAA
TAAAAATTATTTTTCAAAATAAAAAAATACAAGATAACTTCTCAACATTTCACTGTTCTAACACAAGTTTCTTCCTTATTCACATGAGGTCTTA
AATGGGTGTTGATGAATGGTAGGTGACATTTTCCTCCTGGAAATCCTTCAGGAATTCAGATTCCTTCCATCTTGTAGTTTCTCCATCTTCACCA
TGTGACTCCCAGAGTTACTGTGCTTGTTTGCATCACATCAAGAGAGGGGGAAAAACATGGCAGGTTACACATGGAAGGTTTTTATGGAGTAGGC
CTAGAAATTAGCATAGAAATTAGGCCTAGAAATTAGCATAATCACTTTCACTTATATTTCGTGGTAGAACTCAATCACATGTCACCAACTAGCT
GCAAAGGAGGCTGGAAAACGTGGCCCAGCTGTGCACCAGGAAGAAGACACTATAAGTTTCATGGAATAGTCCCTGTGGGAAGTGGGAGGACACA
GCTAATGCTATGAGGCCTGGATTTATCACACTGTACGTTTTATGTGAGATTTTTTTTTTCCCCAGGAGCTTCAACATTGAGTTCACTGGTGAAG
TTGCTGAGAAAGCAGGTGGTTGAGTTTGAAATTCAGAATTTGGAGGTTCAAAACTGAATAGTTTTAAAAGGAAAACTTGGGCAAGTCTCCGTTG
GAAAATGTCTTTTCAGTGTTCGGTACATTTTGGGGTTGATATGAGAAGGGCATAGTCACAACATATGTCACTCTGTGTGTTGCTGGTTTTGGG
TCCTGCACCTGGACAACCAAACAGGACTGGCCCCTTCGTTCCTGCTTCACGTTGGACCCTTCAGTCGGAGATAGTATGACTTACAGAGGGAGAG
ATGTTTTCAAACCCTGTGAAACCACCCATTGTTCAGATGAACCATTTATCTTGCACTTTTCTCTAATACAAATGAATGAACCTTGCTGCTTCTA
GCTAGTACCCTTATTCACCTGCTCTTCTGGTGGTATGCAATGCTCATTACATTTTTTGCTTTTGCAAATTTGTCTCATTGTGTTTCCTTTGCTT
AAAGTTGGCTGTTTTCTTCTTCCCTCTTCTCTTCCCTTAAATCATTGTCAATCCAAATCCTGGACAACCTGTCCTCTCAGGCCCAACTCAAATG
CCATCTCCTCTGTCATTCTCCCCATTTACCACAGTTGAGTGCCTCCTGTCTTCCTGACACTCTTTGGGTCTCAGTTTCACCACTCAGGTGGCCC
ATGGCTGCCTTGATACTTCTGTATGAGTCTTTCACCTACTAGATTTAAAACTTGATGATAGAACTGTGACTTCCTAGTACTTACTTGCTCTTAG
CACAATGTCTTACACACAGTACATTTTTAGTAAACAATTGTTGAGTGAAAATGAATAAATATTGCTTATTGTGGAGCAGATAGAATGAAGTTCA
GTTTGGAGAATCAGTCTTGTGTGGCCACAGATCACATGAGGAATGTAAAAATTAAATAAATAAAACAAGCCTAAGATAATGTGTTAGAAGGGGA
GAAAGGCCTGTACCGATTTTTTGCATCTCTAATGATCATAGAGATATGATTTGTATTATTTATGTGGGCTAGAAAAGGGGATCTCTATTAGGGC
TCTGAAGTTTGTGAAGGCTCCAGCCACCCATCTGATGTTGAAAAAGTCAATTGATTGAGAACCCACTGTATTTACAATCTTGACTTATTTTGGA
GCGTTAATGGAGGCAAACTGAGATTTGGGTTGGTTGGTTGTAGGGAGTATAAGTTATATCAATGCTCAGGGGAGTAGTTTTGAGTTTGAAACAT
TACAATAACTTCTTCAGGCTTTTAAGATGTACATAAAATACTTGTAAGTGGATGATAATGAATTGACAAGAGACCTCTTTATACAGCTAGAATA
TATCAAGTTGTTACTTTTCTACAAATCTCCTTATAGATTGGGTTTTGCTGGTACTGTTTTTATGGTTGTAGTTGTTTATTGTAGGATAAAAGTC
CAAGAGGAAATGTCTCTTAAATATAAAATGTATATTCTAAATATAATATATAGATACTATGTATAAGCTATTTTTCTGCTCTAGGTCCTTTTTA
TTTTCTTAAAGCCAAACATATTGTGTGTGATTCAAACAGGTAGAGAGCAATTAATTTAAAAGTGGCCTAAAACCCACCTTCCTCTACTACCTTT

GAGGGGCATTATACCATTATATGATCCAGGATTTATATAGCAGATTATTTTATCACTACTCCCTTAGAGCAACCAATCAATCAGCTTCATTTTA
TTAGGATGCTTTAATATACCCATTTTAAAAATGTTTATTTAATATTTTTAAGTAATTTTTGAAAAGATCTAGGAAGATTCACATACTCATTTTT
TCATGAACAAATTATGCTGTATACTTAATTGAGTCTGTCTGTAGGGATCATTTATTTCTATTCATCAACTCTTTACCAAGCTTCATACTAGATA
TTGAGATGATAGTCTATTGATTTTGTTTCTCTCTCTCATGTTTTTTCTAGTATGTCTTATCTTTTGGGGTTTATTTCTGGCCCTGGAGATCATTC
TTTTATGTCAGTTCTCAGCTAGTTGTGATTTGTTGCTAAATTACCTGCATTCAAGTTTTTATAAATGAATGTAGATATTTTGAAAACTATTTCT
TTTAGGATACTAAACAGTAAGACAAAGATACACTGCACAATTGTGTACAAAAGGTCTTTTGGAATATGACTTCTTTGTTAAAAGCAATTTGTGC
CATGATAGTTTAAAAAAAATAGTTCGGCAATGATGTTTTCATTTATGACTATGTACATACTGCATTTGAGCAGAGAGAAGTTTTTTATTATGAC
TAAGGCCTCTGTGTAACCAACTTCAGGTCAAATATGAAATATATGGTGTAACAAGTGCTGTGTTTTTCTCTTTAAAATACACTTGGATTCTTCCA
CGAGGTATATTAAAAATGCTTTGACATCATTATTTCATCTTGAGTTACCCTTTCATTCACTAGCTTGGTTGGAGAAAATTAACTCTTCAATACA
TGATACAGAAAATCTGTTGATGCAGCCTCCCTCCAGTTCTTAGTATTTAATTTCATGAGGGACATAGCACTTTTCCCCATGTAATTACAGATTG
GTAGAGTTGAGCAAGACCTTAAACATCCTGAAGTTTAACACCCATCAAATGCAGATACCTCTTCTAAGGTATCCTAATTTCTATATCGAAAATA
ATTCTAATTATCAGTTTACTTGGCAAATCTGCCATAATAAAGTCTTTTTCAAAGTTATCTATGCCCAGTTCCCCTCAATATTTCTCATAATATT
AGTTCCACAGTCATTCTGATCTCACTCCTTTTTGCTTTCTCCAGTTTATCAGAAAGTTCCTTAAAAGGTAGTGGACAAATTATAGAAGTACCTC
CCTTTTTTTTTTGAGGCAAGATTTCACTCCTGTCATCCAGGTTGGAGTACAATGGCGCAATCTTGGCTCACTGCACCCTTCACCTCCCAGGCTC
AAGCAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGTCTACAGTTGCATACCACCATGCCTAGCTAATTTGTGTATGTCTTGTAGAGACGAGT
TTTGCCATGTTACCCAAGCTGGTCTTGAACTCCTTACCTCAAGTGGTCCGCCTGCTTTGGCCTCCCAAAGTGCTGGGATTATAGGCGTGAGCCA
CTGCACCTGGCCCTAAAGCTACTCTTTCTGAGCAGTTTGAGAGGGACTGTGGCTTATCTGGCCTTGAGAACAGTGTCTTTATTAATGCAGCCTA
AGAGTACATTTTTGCAAACCCATCACACTGCCTGTATTGAATCAAGAGGCTGCTGGACCTCCATGTACTGACCATACAGGACCTCACATTTGAG
CCTAGTAAACTTGACTATATTCATTTTGGTCTATTTTTAACCTTGTGAGAACTTTTGTAATCCTGTTTCTGGCATCCCTGGTGTTGTGTTTTTG
TACCAATACAGCTTCTGGATCATTGTCTCAATCATTGATAAAAATGGGCAAATACAGACTTTCTGTCCAGAGTGATAATCATATCCATTACTTT
TGCTTTAGATAAGAGTGTTGCTGTTGATCATCTTTGCCTGGGAAGTTGAATGATAAAGCCAGAAGAAAGCATGCTTTCTGATCATTGTAAGTTT
TACTTTTAAGGAAAGAGACTAAAAAAATTTAGCAGGAAATTTAAATTTTATTAATATCATCTCATATACTTTAGAAGATCTAAAACTGTTAAAA
GAAACAAAATGGTTTACACTGGAGCCTGGTTATAACCTTTCTTTGGTAGCCCATAGCTGTGGGGCCCATAGCTTTGGGGCCCAAAGCTCTCTTT
GATTTGAGTCAGAGACCTTCCCATGTGCCCAGGAATTTTGATTATGGCAGGTGATATTATCAAGTCTTCATCAGATTTGGCTGGAGGGAAAAGC
TGTCTGTCACCAAGTTGTGTGAATCTTTGTATTGCTAAAAAGGATACCCGGGCAGTCTTAAAACTGGTGCCTTATGTTATTTGAACTTTAAAAT
ATTGTGATGTTCATGTTTGCTCAGGCTGGCTACTCCAGTTTTGTTACAACATAGTGCTGCTCAGACCATGGTTGAAAGTTTGATGCTAAAAAGC
ACAGTGTATTTGAGCATAGTCAATTCTAAAAAAAAATTTTGTTTTCTTTCTTCCTTCCTTCTCCTTTCCTTTCTTCTTTCTGTCTTGAAATCTGT
GGATTGAACTTTCCCACCCCTGGAAAAACAACTCAGAAAGTATATCATGTGTCATCACTATCATCTTCCTTTTATCAGTGCAGGTTTATAGAAA
GTGTTCTCATATCATCCTGAATCATTTCTACAAACTATAAAACAAAATTAACTTTCCATTACAATCCTAACAATTGTAATAAATGCTCCTATTA
GAAGCTTTTACTTCCATCCTGTGAAGTATATCATGCTGAGGGGAAAGTTGCATCTTCATTAGTCACCCATGACTTACTCCAGGTGTTACCCTCT
AAGTTAGAAAGAGAGAGGGCAAAATACCCTGGTGACACATACGTTTTTTAAGGGAAAAAATTCTGAAAGCAAAAGGGTTCTCTCTTTTTTTAAT
ATGACTAGCAAAAGAGTGTTGATTAAGATGTGTCAAGCAGGTGCTGGGTATGTGCTAAACTAATGGTTTTCAGAGTACTGAGTGGCTATTTTTA
AATGTTTCTATATCATTCTCAGTTAAGCTGCTGGATGAAAAGTACAAAAGGCTAAAAATATTTACAGTTTCAGTAATGTCTGTTTTAAAAGAAA
CCATCCGCGTCTATGGCCACACCACCCTGAACGTGCCTGATCTTGTCTAAAAGAAACCATCCTGTGTGATTTTTCTTTATTTCCATTTGAAGGA
AAAGAATATTATGGCTTACAGAGAAGTGGTTGAAAGCAGTTTGTTCAACACTGAGGTTTTTAGGAAAAAATGGCCATCAAAAGGACAGTAAGTT
GGGTTACAAATCATCAGGATTAAAAAAAAAAAAGTTGATTATTATTCCTTGTACTATATTATTATTACTATTTTTGTATTATTAACTGTAGTTCC
AACTGAAAATAGTATTATCTTTGAAACTTTTTGTATGGAGTTAGGAGACAAGTTGCTGGTATCAGATTACTTGGGCCTATATCTCAGCTCTATC
CCTTGGATATGTGATCCTGGATAAATTGTTTAACCTCTTTGTGCCTCAGTGTACCCATCTGTAAAACAGAATAATAATAGTGCCTTCCTGCTAA
GGTTGTTGTGATTAAATGAGATGATGCTCTGCCTAACATGGTAAGTACTCAGTAAATGTTTGTTATGCTTATTTTTTTCATTTAAAAAAATTTT
TGGTTAAATGAACACATTTATTCTCTTAACCATTTTTGAGTATATAACTCAGTAATATTAGCTATATTTACATTGTAGTGTAACAAATCTTTAG
AATTTTTCATCTGGCAAAACTGAAATGTTTATTATGTTTTAAAAGCTCATTTTTCTTCAGAGTCAGTTACACAGCTGTGTGGACGTAACACAGG
AATGCAAGCACCATTGGGGCAGGGAGTTTAGACTCTTCTGTTCACTGCTGTATCACAAGTGCCACAATCAGCATCTGGCCCATAACAGGGCTCA
ATCAATATCTGTCGAATGAATGAATGAATGAATGAATGAACAGTGAGGCTTCATTTGACAAACTACATGTGTGTTTGAAAATTATTTCTTAAAT
GGTAAATCCATTTTTATGAGTGATTTTAAGTATACATGGAAAGTTGACTCCTTTCGGAGGGTGAAGTGATTTCTAAAACAACTGTTTTGTAATT
ATTTAGCAGTTCTGGCTTTGGTAGGTCAACTTTTCTTAAACTGGAAAAAAAAAATAGTATTCTTAGTGTAGATTGCAAAAGGAAAGAGGATATGT
TAGATGATTTGCCCAAAATTTAAACAGGATTCGCTTTTTAAATTCAAGCCTTTTTGCTTTCATTCAGATCTGGTCACCAGACTTACTTTTTCCT
TAAGGCATATATGAATCATCTTGTTCTTTCATTCAGAAATCAAAAGTTCAGGCCTAGATCAGTATTTACCAAAACTGGTGGAACACTACCTTTC
CACTGAGAGTGCATTACCTTTTTTTGAGTCTTTGAAAAGAATGTCAGCTGAACATGGTCTGGAAGTGGCCAAAACTCTGTGGGTGGGGAGAAAG
GAAGAAATAACCTATCTCCCATTTAAAAACCTACCACCTATTAAATAAACGGCAGTCTTGTTCTGTGGAGTATTCATTTGGGTTATCTATTCTG
ATGAACAAATACAAATTCTTGGTAGGGTTTTCTTGCTTCTGGATAAAATGCTTAGTGTTGCTTTTTGTTGTTCAATCTTAGGTTTTGTTTCATT
TTGTTTTTCAGGGTCTCACTCTGTCAACCAGGCTAGAGTGCAGTAGCGCAATCATGGTTCGTGGCAGCCTCAGCAGCTCCCTGGGCTCAGGTGA
TTCCCCCACGTCAGCCTCTCGAGTAGTTGAGACTATAGGCACGCACCACCACACCCTGCTAATTTTTGTGTTTGTAGTAGAGATGGGAGTCTCA
CCATGTTGCTCAGGCTGGTCTCGAACTCCTGGACTCGAGTGATTTGCCCACTTTGGCCTCCCAAAGTGCTGGCATTACAGGCATGAGCCACTGC
GCCTGGCCTGTTTTTATGATATGTATTGAAATGCTCCAATAGCATTTTATTTTTATTTAAACATTGCTGTTAGGTAGTTGGCACAAAATGTGTC
TTATGCCAAAGTTTACTTCCTTCTACCAAGGAAAGGGGACTCTGTCTCCTGGACTTTGCAGTTATGGGAGGAAGATGACAGGAAGCTACATCAT
CTGCCAGGATTTTTATGGGGCCACATCACATACAGTGCCTGTCTGTAACTAAGAGCAAGAGCACATCTCTCCTTTCAGCTGATGTTTAGCAAAC
CCTCACTCTGCTCCCATGGCAAAGACAGTCACTCATCTTCCAAATTGTGGTATCTTGAGTCATTTCCATTATGACTTGTCTTCTGAAAAGTGAT
AAAGGAAAATCATCTTACCTAGTCATTTTTTCCCATTCTACAAGACAAAGTTTATCTCTGAATCAAAGAGCATAAATCTCTGTTGCCTCTCTGA
GATAATAAAATATTTTTATATTTAAATTTTCTGTTAACAGGAAAATGTATAAAACCTTCCCAAATTTTTAACTCCTTCTTTTGATTCTATACCT
ACATAGGTTTTTTATTTGGATTTGAAACCAAATAAAAGACCGTTTCATGGTCTGGGCCCTTGGGACAGGGTAGTAGTGAAGCAGCCAGTTCATTT
ATTCTTCATCTGCCCTGCCATGGCTTCCTGTTGCACTAAGAATCCAGCCTCCTCCCCGGAGTTGGTGGGAGTCTGCTGACCTGGCCCCAGCCAG
GCTCTCTGGCCTCATGCAGCCATTTTCCCTTCATTGACCCCATACCACCACTGTGACCAGGTGCACCAGGCTCTTCCTGAGGCTGCTTTTCTCC
CTGAAATGCCCACCCCACCTCCCACTTTTCATTTTTCTAACTCTCGTTCATCCTTCACTTGCATTTTAACATCACATCCTCTGAGAAGCCTTCC
CTGATCTCCACCCTTAATGAGCACCACCCAGTTGTCCATACTTTGCTTTCTCCTTTCTTTCCCAGCCCTTATTAGAATTTTAATTTCATATTTG
GCCATACATTTGTTTCTTTAATAGTTTTCTCTCCCATTAGTCTATGAGCCCATTAGGGATCACGGCTATTTTGTCTGCTGTATGTAATATCCAC
TTCCTAGCAAGCAGGACACACTCAAGGAAGAGTTATTGAATAATAATTTAAAAATATTTTTTATTAAATGAAAAATATAAATATCCAATTCTAA
GAATGTGCAATTCTGTCAGGAGTGTTAAGTACTGAAAAAACGACAGCAGATTAGTTAATTGGTTGATTTCACAAACATCTGTAGATTGTTGACA
GTGCACTATGATGTGCTGTTCTAGGTGCTGAGTACATGTGGACGGGTTGTTGCCTGGCTTTGCAGAGGTCTCACCTTGGGGAGATAGCAAAGAG
ACACAATGAGGAATAAAATTAGTGCCTTTCTCTCAAGGAGCATATGTATTCATTCATGTAACAAACATTTGTTGAGCACCTATGATATACTCTA
AGCTAGAAGACACTTGAATGTGATGAGTATAACATATAAGAGAGTAAAATTAATCTCCAAGAAAGATACAGAATGCTGTAGGGATGAAGATTAA
GAAATGCTGTCTGATTAGGGACATCAGAGAGCATCCTGGATAAAGCAGAGACCGAAGTGCTACTTGAAGAATGGGTTCAACTTTGACAGCTGAA
GCTATGAGGGAGGAAATTCTAGGCATGGGAACCACTTGGGTAAAGGCATGGAGATGGGAAGACATTCCAGGGATAGCTATTAACCCTTTTTAAC
TGAAGCATAGGGTGGATGATGGTGAATAAGAAGAAATTAGACTAAAAAAGTAGGTAGAGGCTATACTTTAGGGGAGTGAAGAATTCCTCTAAGT

SAGRES DISCOVERY 02-02

TTAGAAAAAGTTGATTTTAATTACCTTAAATAAGGCAGTAATGGTACTAATATTGCTGTTTGGTAGCCCTTAGGAAAATGATACTTGTGACTTG
GTACAGTGGCTCACACCTGCAATTCCAGCACTTTGGGAGATTGAGGTGGGAGGATTGCTTGAGGCCAGGAGTTCAAGACCAGCCTGGGCAACAT
AGCAAGACCCCATCTCAAAAAAAAAAATAACTGTACATGGTGGTGCATGCCTGTAGTCCCAGCTACTAAGGAGGTTGAAACAGGAGGATCACTT
GAGCCCAGGAGTTAGAGATTGCAATGAGCTATGATGACCACTGCACTCCAGCCTGGGTAAGACACCATCTCTACAAAAAAAAAAAAAAGAAGAA
GAAGAAAGAAATTGATACTTGTTTAAATATATTACATGTCAAATGTACTACAACAGTCCTCTCCAAATGAGAATATAAAGAGCTTCATCCTTGT
AAACTGCAGTCATGTTCTCGTTATAGTGGTAGTTAGTATGCAGGTCAATAATTTATATGTGGTCTTTAGCTTTGTCTTTTTCATTAAACAGTAA
AAACGGTAACCTGACATTTGAAGGTTTTTTTTTCACATTTGTAATATCAAAAACTTGATTCGTAACAAGTATCGTAAATTTACAAGTATGTTTT
TCATGCATATTTTAAGAAAATTTTCATAGGACTTTAACGTCAGGTTTCTTTTGAATACTTCCACATGCTCTACCTAACAATTTTAGTGTAAAGT
TTCATTTTCCTTATCAAATTCTATGTAAGTGAGACATTGGTGTTTTAGCCAAGGTACCCTGCTTTATGGAGTATCTGTGTTCCTAGAAAATTTG
TTTTGAAATATGATTTTGTAAATCAGATTGTATTGTAATATACTTGGTGACCTTTTGCTTCAAATCACCTTAAAATAAATTCATTTATATTATC
TAATTCATATTTTATAAATCCTAATTTTTATATGTACTCATTTTTCTTGAATTGGGGGTAATTCTACAAACAATAAACAAGGTAAATGATTTTT
TTTTGCCAGTTTGTACTAAGAGAACATGTTATTTTGTTTCGGGTGAATGTATGTATCTTAATACACTGTACTACATTAGACATCAATAGGGAGG
AATGTAACGCATTTTTCTTTTGTATGGAAATCTGTTGAAACCTATCTTAAAGAGTTTTGAGCAGAAATTGAAGGATGAGCCTGAGGTTTTCTGA
TTAGTTGGAGAATATTGTTTTCAGTAGACAACAGTAAGAATAAAAGTGGAAAAATTGTATTTAAAATTGATGTTTTATAACTTTCAGAAGTTGA
TGTCTCCATTTTACACATTATACTTATAAAAGTACAGTAATCAACTCTGCTTTATAACTGTTTTGTGAAGATTATTTAAAGGTCAAGGGAGTGT
AGTAGAGGCACAGAAAAACAGAATAAAATTGGAATCCTAGAGTTTATGTGCATTTAGGTTAATTTTGACTTAGTGGCTCCTGGCTCTCACCAAT
CTGGGTTGAGTGAAGGACCCACTGTTCATTGTGTTCCAGCAGTAGTCACTCAGACCCAGCTTGCCACGTTATCAGTCCAACTTAACTTCTGCCA
CGTCCCACTCCTCCTCCCTTGATAGCTTCTCTTGCTGACATCCTTTCCACCCCTTTGTGCTGCATTCCTCTGGCACTGCCAGCCTCCTGTCATG
GAATGAGGGTCTGGGCCAGGAGACCTTTGGAGAAAATTCCTGGAGAGCAAGTTTTCATAGATTTTTGTCCAATTTTTCTGTTTCCACCCTGTT
ACAAATATTTTAATCCAAATATGAAAAATCTTTAAATTCAGACTTCTCTTGTTTCAAATTCAGACTTCTCTTGTTTCAAATTCAGATTATTTCT
GATCACCTCATAGCTAGTTCTTGAAGTTCATCTTAGCAGGAACAGAGCTAACTAAACTACTGAATGATGTAAATGAACATATAAAGGCTATGTT
TACCTACTTAAGAAATTGCTTTTAGCCAGTTTAGAAATGTCTGCTTACTCTTTTGTTTTTAAATTTAAAAAATTCTTCAGAGATGGGATCTCGT
TCTGTCAACCAGGCCGGAGTGCAGTGCCACCGTCACAGTTCACTGGCTACCTCAGCCTCTGGAGTAGCTGGGACTACAGGCACGCACCACAACA
CCTGGATAATTTTTTTAAATTTTCTTGTTAGAAACAGAGTCTCTCTATGTTGCCCTGACTGGTCTTGAACTCCTGGCCTCAAGTGATCCTCCTG
CCTTGGCCTCCAAAAGTACTGTGATTACAAGTGTGAGCCACTGAGCCTGGTTGAAATGTCCACTTACTTTTAAAAATGAATTGTATTTTAAGGA
AGAGTTTGCAATGCTTAAATAATTTTCATCAGTTTACTTAAAAAGTACTAAAGCCTTTTTTTTTTTTTAAGACAGAATCTCACTCTGTCACCCA
GGCAGGATTGCAGTGGCATGATCTCAGCTGACTGTAACCTCTGCCTCCCAGGTTCAAGCGATATTCTCCTCACTTCAGCCTCCCAAGTAGCTGGG
ATTACAGGCACCTGCCACCACACCCGGCTAATTTTTTGTGTGTTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAAGCTGGTCTCGAACTCC
TGACCTCAGGTGATCTGCCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACACCTGGCTAAAGCCTATTTTAAAGCATA
ATTTATATTAGGTATTGTTAATCCTTCACGGTTCTTGTTTGGTTAATTTCAGCAGCTTAAGGAAGATCACTTGGAGCTAGAAAGGCCCATGAGG
GTGATGATGGCTCAGAGGGGGCAATAGAAGCAGCTTTTAGGGAGGAGTCAAGTGCAGTAGGTAAACATGGGATGTGTCAGATATGATACCAGCC
AGTGGTCCCCATAGCACAGGCAGCAAGTGTGAGGCACAGCACAGAGCACATGTACACGAGTATTTGTGTGCGTGTGTGCGCATGTGTGCGCGTG
TGAAGGGGGGAGGGGGTGGTTGCTGTCAGGTGAGCAATATACCCAAATGGAGACCCCAGAAGCAGCTGATACTAATCCATCCAAGTAGGCAGCA
GTGTCTGTCCATGAGAATGTTGGGCCCAGCCATTATCCAAGGATTCTAGACCAGATTCTGGAGAGATCACAGCAGAGTTTCTGCTTGACTTCAC
TGAGCTTCAGTGTTTGAATCTGTAAAATGGAAGCAGTAATAGTAATTACCTCAAGGGGTTATTTTGATGGCTAATTGAAAACATGTATGCGAAG
CCCTTGAATACCATCTGGTACATAGTAAGTATTTAGTAAATGTTAGCTATTACTGTATTACATGAAATTGGGAAGACAGTATTCTTTTTAAAT
GTCCTATAAATAACCGGGTGCAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCCAGGCAGGCGGATTGCTTGAGGTCAGGAGTTCAAG
ATCAGCCTGGCCAACATGGTGAAACCCTGTCCCTACTAAAATTGCAAAAATTAGCCGGGGTGTGGTGGCACATGCCTGTTATCCCAGCTACTCAG
GAGGCTGAGGCATGAGAATCATTTGAACCCAGGAGATGGAGGTTGCAGTGAGCTGAGATCATGCCACTGCACTCCAGCCTGGGCAACAGAGCGA
GACTCTGTCTCCCAAAAATAAAAAATAAAAAATGAATGTCCTATGACTGAGGTTTATTGCTCCTCAATTGAGCTATTCCAATCAATGAAATTTT
ACTACATAAAGGTAGATGCCTTCTAATGGTTTTCTTCCCACAGGGATGGTGGGGTGAGATGGGGAACTGTTCAGGTAGTAGACCTGTTCATGAG
GAAAAAAACTATTTAAATGCTGAGAAAAGGATGCTAGCTTTTTTGGATCCATCATCATTTTTGCCAAATTCATAGAATTTTTGGCCAGTGGTGT
CAAACTTTAAAATTCATAGGAAAAAGAGATTCAGTAATTACTCTGTAATATTAGGGAGGGTGTGGAAATAAGGAATGAACGTTATGTAAAGACC
ATAATGCTAGTCAGAGAATGTTCCAATGGAAAACTGATGTTTCCTTCTGCCACCAGGACAAAACTTTTGTGATCTAAAGGCAAAACAATAACAA
AAACAGCAACAGCAACAAAAACCAGCCTAACAGTCCCAAGTGGTCTTCACTGTCATGATTATTAAGCATTTTCTCCAAAGTCTGAACTACAGTT
TGTTGAGGTTTCATTGAAAATGATACTAAAACAAATTTGCTTAAAAGTAAAATGGAGTTATTGGCATCACAAAGATCATAGTCACCTTCTTAAG
AATTGCATAACCTTTAATGACTGTAAAGGATTTTTAAAGACGATCCTTGCGACTAGTTATTAATACATTTTTTTGAGGCTGTGGAAATCAGATA
ATTTGGGCCGGGCACATTGGCTCACGCCTGTAATCCCAGCATTTTGGGAGGCTGAGGCGGGCGGAGCACCTGAAGTTGGGAGTTCAAGACCAGC
CTGACCAACATGGAGAAACCTTGTCTCTACTAAAAAAAAAAAAAAAAAAAAAAAAAAAATTAGCCGGGCATGGTGGTGTATCCCTGTAATCCAAG
CGACTCGGGAGGCTGAGACAGGAGAATCGCTTGAACTCGGGAGGCGGAGGTTGCAGTGAGCCAAGATCACGCCATTGCACTCCAGTCTGGGCAA
CAAGAGCTAAACTCCGCCTCAAAAAAAAAAAGAAATCAGATAATTTGCCCAAAGTCAACAGCCCAAAGTCAACAACTCCTGAATTTTTTGATCA
CATTATCTTTCAAGTTTAGTTAGAACCTGAAAGTTAACTGTCCTTCACTTAGGTAGATCATAAATAATGCACTGGTCACATTGTGTAGATATTA
AGTTACACTTTGGTAGATGGATTTTTAGATATTGAAAATGATAGATTGGTACAACTGCTTTGAAAGTTTGGCAGCTTCTTATAAAGCTCAAGAT
AGGCTTAACGTACAATTCAGCAACTACGCATCTAGATGTTTACCCAAATGAGTTGAAAATTTATGTCTGCAGAACAACCTGCATGCGAATCTTG
ATAGCAGCTTTATTTATAACTGTCAAAAACTGGAAGCAACTAAGGGATCCTTCATTAGATGAATTGATAAACTGTGGTACATCCAGATAATGGA
ATATTATTCAGCACTAAAAAGAAATGAGCAATGAAGCCACAGAAAGACACAAAGGAACCTTAAATGCATATTGCTAAGTGAAAGAAGCCAGTCT
GGAAAGGCTACATACTGTACGATTTAAACTATAGAAAAGGCAAAAGTCAAAACCATAGAGACAGTAAAAAGATCAGTGGTTGCTAGTTCAGGGA
AGAGGGGACAGGATGAACAGGTGGAGCACAGTGGATTTTAAGGGCTGTGACACTATTCTGTATGATATTGTAATGGTGGATAGATAGGTGTGTC
AAAACCCATACAACTGTGTAACATAAAGAGTGAACTCTTATGTAAACTATATTGACTGTTATGACTAGTTAATCCTATATCATCATTGGCTCAT
TAATTATAACAGATGTACCATACTTGTGCAAGATGGTTAATAACAGGGGAAACGGGGAAGAGGGAACTTTTGGCTTAGTTTTTCTATAAACCTA
AAACTGCTCTAAAAAATAGTCTACTAATAAAAAAAAAAAAAGAAAATCAGGATAGATTGTAGCTTAGAAATAAAAAAACAATACTCCAAGACAA
AACAAAACAAAAGCCTTGTATAATGTCTTTCATATAATATTCCCCACCTTATTTCTCTAGTTGTTTTTTAATTTTTTTTTCATTTATCTTATGT
GTTATCTCATCAACCTTTAGTAACGGGCAGTTAAAAAAATAAGCAGTTTGGCAACTTCCTGTGGCATACATTTCAGATTGTGAGCAGAGATGCC
CACCATGTGACTGGCAGGTGTCCCTCTCCCTAGCCACACCCTGTCCCTCTTTTCCACCTACCCTAGCATTAGTTGTCTCCTACCTTGCTTTTGA
CAACAGACAGGGTGAAAATGTGGGCTTGTGGCCATTGTGCTAAATGTTTTATTTCTATGTATTTTTTAATCCTTACAGCAGTTCCCATTTTGTA
GATGAGGAAATGAGAGCACTGGAAGAGAGGAAATTCCTACCCTTGCAGTCTGACTCCATTCTGATCCTCTATCAGGCTAATGTGAACACACGTG
ACTCTCTGTCCCAGCCTGCCCCCTGTTGAGTAGGTGGGAGGGGGAGCCATTTGGAGGATTTGGTCCCAGTCCAGGTGCTATTTAAGTGAGCGGT
TGATTTTAGCTGTGGTGAATACCACCACCCTACAGGCTAGTGTCTGCCATTGAGAAGTATCATCTCATCATTTTCAATCTATTAAGTGATACAT
TATCACATTATTATTATACATATATATTATTATATATTATCTGGAAACCATATAACTATAATTTTAGTCAACTCTTTTTTTTTTTTTTTTGAGT
TGGAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAGTGGGGCGATCTCGGCTCACTGCAACCTCTGCCTCCCAAGTTCAAGCGATTCTCCTGCCT
CAGCCTCCCAAGTAGCTGGAGACTACAGGCGCACGCCACCACGCCTGGCTAATTTTTTTCTATACTTTTAGTCAACTCTTAATTTCTAGCCTCAT
ATTGACAAGTGATAGGGTTCAAAAGTAATATCTGTTGGCTTTGGAAATAATATTATATTTAGTATTATATTTAATGGAAGTTAGCAGATTTAGC
TTCTTAATAATGTTTGGCTGGAGGCAGTATTAACCTTTGGTTGCTGTCTTGTGGCCTGCAGATGTTTGTAATGCAAGAGATAGGAATTTGGTCC

CTAGGAGGGTAAAGCTAAGGTTCACTCTAAGAAAGCCACAAAGCAGACAGTCTACATGTTGAGGATTAAATGTTGATTTTACGTGGGTCATCAT
TTTTAAAGTCCATTTGCCTTCTTATTTTGTGATGAATATTTAAGATTTTGAAGTACATCTCCTCTTATTTGCTTTGTAGTTCTTATGAGGAAGA
ATTCCCATTATAGTGGGGCTGAGGAGATAACCATTATTTTTCGTTATGCTTGTTTTCTTAATATCGTAAAGCAGACAATAGCAGGATATTTAAT
GAAATACATCATGAATTTAATCCTAGACCAAAGCAAAGTATTTTCAAGTATTTTTCATTTTCACATAAATTATATTAAAATTCATATTTAAGTT
AAAATTTTTGAGACAGTTTACTTGAAACATAGTAGCATTCTTCACTGATGTTAGAATTACTTTATAAGTTATTTTGCATTTCTTAGGAGGCAAA
ATAGGTTTTCAAAAGGATTAACATGTGTTAAACTTTTTGATATTTCATTAAAAAAGATAGTATTGGAAAAATGCAGTATTTTTTCATTTACTTC
CAAATGTTTTGTATTAAACTTTTTTTGACCTAGTAGATGACTAGTACAAATAGAACTTTTAAAGATTAGGATATACCTGTTACTTGTAAGATGA
ATTTTTTTTAATGCTTAATTCAAATAATAAAATATATCTGTTTTTGTATTTTCTGTAACAATATAGAAGTAGTTCTCAGATTTCTTTTTCTATAA
GATGAATTTTTAGATCTTTATTTTACTTGGCAAGTCTAAAATAGTGGTGGTTCTGGGGTTGATTCATGTGTTCGTTTTTCCTACTGTTTGGCTA
ATTCTTGTATGTGGTTTTAATTTTTTTAATAGCAAATATATATTTCTGTATGTGAATAGTCAGCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTGTGTGTGTGTGTGTATTCCCCCCCCCTTACTATGGAGATCATGCATGTCAGTGCTGAGCTTGGGGAAAACAGAAAAACAAACGTGACCTTTG
ATCCCTTCAGAGATAACATAATCTCTTAGTCATATAAAGATAAGGTCCATCTCTTAGTCATATAGACGAGATTTATATCTTAGTCATGTATGGC
TATATACATAAATATGTGCATATTGCCAGAGATTATTAAAGCATGTACATGCATACATAAATAATTTTTAAAGTGAAAAGAGAATCCTCCTATA
ACACCTTACAGGGTGGCTATGTTCTTTTAATGTTTCATGGGGACCTTGCTGTAATTTTAGAGCCAGCACCTGGCTCAGGTTCACCCATGACATT
TTCAGCTGATCTTTCGCTTGTTTTCTAGTTGACCTTCAAACAGAAAGTTCATAGCCTCTTCTCAGCTGTTAATGTGATTTACTTCTTATGTCTG
GGAAGTCAAGATTGTTGCTGAATTCATTGTTTTAAGGGGATTGAGGTCCTTGGTTTAATGCCAGGACATTCCCAGCTGACAGAAAACTAAATCC
GCCAACCCTAATTTCAAAGATTACCAGGTTTGTGGCTCGTGGACATCTTAGATCCTAGGTCGAGCAACTCTTAGGCTGTTCCTGGCACACCACA
TACATATGGGGTTGTGTATTGATTTAATTCAAGTATCATTTTAGCATTGATTGGCAAACACCCTAGTGGCTTTCAGTCAGTAAAATTCAGTGC
AGCAGCTAACCTGCTGCTGCTCCTGCCTTAAAATCAGTATTTGAGTTAGTGGTCGTTTAACTTTGCAATTTTGACTCTGTGTTAAAATGTATAC
TTTTTCTTAATTTTCAAAATAGGAAGTGAGGTGTGCTCTTCAGGTTCTTGGGCTCACAGCAGGGAGGTTATGAAATATAAATGAAAGGAGACAC
TAGATGAGCTCCACACAAGGCAGTATCACAACTCACTCCCCCAAGAAGGAAGCACATCATCATTTCTTACACCGTGAGAAACAGCCATCTTGTC
ACAGGAAAATGAGATTGAAGAATTAGTCTGATTAAAAACAAATTACCAGAGTTGCTGTTCAGTTAGGTGGCCTGCAGAATATTAGCAGCTGTGG
TTGGAAAGCCATCAGGAGTTTCTCTCAAGCAAGACCAAGCTGGTTTCCTTAGATCCCTGTCTTGTGTCCCAGCCTGTTTTATGCCTTCACCACC
CTCACTTTAGCTTTTTCCCAGTAGGAAACAATGGCAAGGTAGAGGAAGAGTTTTTAAATTCATTCTTATTAGGAGTGAGTTTTTTCTTTGTAG
ATATTAGTAATCTAAAAGTAGAAGTAGTGTAAATATTTTTTACAGCATATAATTCAATTGCACATCAGCAGTTGCGCTATCTGTATATGCAAAT
ACTCTAAGAAATTTAATATTTTATCAAAAGCCACAACTCCAAAAATGAAATCTAATGACTTGTTTCTATGGTAACCACTATCGAAATATGTCTA
GCCAGTGTGTGTCTTCCCATAATTTTTCTCTAAGAGTTTCAGGGAGTTCATTAAATTTGCTTTCCCAACATAGATAGATGATCGATCGATCGAT
AAGAGAGAACAGATACATTTTTCCCCCTAATGGGGTTATGAGACTATTATAAAATTCTCTTTAGCTTCGTATAGAGTATGACTTCATTCTTAGA
CATGAATGTATTTGGCTAAGGGACAAGCCTATTGTTTTATAAATTTAGTTTAAACCAGTAATAAAGCCAGGTTAGTAATAATTTCTAAAACGAG
ATTAATCTTGCTTCATAAATATTTTCTGGTATTTATATATGGAACTGTTGGATTGCACACACATTGATTTCTAGAATGACCCATGTCCTTTTAA
AATTGAAATTCATTTGCTGTTCCTTTGAGACCTTGTTAGATTTCTTTATTGCTCGTCCACCGTTGTCTTTGTTATCTACCAGGGCGTTGAGTGT
CTGTCCACCTTGATGGAGTTCTGACCTGGATTTGATCAACATCCCCTTGTGGCCTTTCTTCCTTGTCAGAGGTTGTGTGCTGCAAATACAATGA
AAGTCACAACTTATTTATTTAGAGATCTTGACATTTCCCAGCAGGTTCATTCAGAAAAGCTGACTACAGTGTTTCCAGAGGTACAGAAGAGATT
CCATTGCATTTTACATTTAAGAGAAAGTAAACTATTGGTTTGGTAAATTTTTCACCAGTCTCAAGGCCTGTCATGTCACAAAACAAACAGATGT
GGTCAGATATTCTAGTGATATAAGTGTGCATTCACCGTGAGTATTAACATTATGGCAGGGTTCATGGAATTCTCTGGTTACATTCAAAGGAAA
CATTTTGTAAAGTAAAGTGGCAGGAAATAGATACTGAGGAAATAAAACTACACTGGGTCTGACAACCTGGAACTTTCATTTAGCCTACAAAGTT
GACAGACAGGCTAGGATGTCTCTGAACCTGTTAGATATGGTTGGTCATAATAACATTTAATTGTTTGTTGAGGAGGGATGACTATTTAACTTAA
GGGCCCTTCCTCTGTACTTTCAAGCTCTCCCAGATTTCTAAAACAAGAGCACTGGGCTGGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTT
GGGAGGCCGAGGTGGATGGATCGTGAGGTCAGGAGATCGAGACCATCCTGGCTAACACAGTGAAACCCCATCTCTACTAAAAATACGAAAAATT
AGCCGGGCGTGGTGGCAGGCGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGTGGAGGTTGCAGTGAG
CTGAGATTGCGCCACTGCACTCCAGCCTGGGCGACAGAGAGAGACTCTCTCAAAAAAAAAATAAGAACATTGGCCTTCCTGAGTCCTGGAGAAT
GGGTTTGTACAATTTCACAGTGGAATCATGGACATAGTATAAGTGCATGTAGTTTTCAATTTTAATTTGTAGTCTCAGTTCTTTCAAGAAGTAG
CTGAACAGTGACAGGCACAGTTTTCTATACAGTGAGCTAAAGTAAGATAGCTTCATGGAATCAGGTGGTTTCATATCCTGAAATCCCAGAGACT
CTCTTTTTTGCTCCCTCATCTATTGCCCTGTGTTCAGGCTTTACCATTTCTCTTCTGGACAAACACAGGAAACTCTTTACCTGCCTCCTGCTTT
GCACATATGGCCAGCCCCTTGGTTCATCTTCCATACTGCCAACCAAATGTTCTTTCTAAAGGCAAAACTAAACATCATGGCATGACTTTGCTTA
AAATCTTCCGAAGACTTCTCTTCCTTTGCAAGGTGTCTAAATCCCAGAATGTCTCAGACCTATGTATCTTTCCAGTCTACTCTTTCTGTGCCCT
GGGTAAACTGTTCGCTTCCCAAGTGCTTTGTGCTAATTGTGTGAACTCTTTCTGGGTCCCACCATGCAGGCCTGAGGTCCCTCATGGCTCAGGT
TTGTCTCTGGCCTAGCATACTGTTTCTAATCGTTAGTTGACGTGCCTTCCTCACTAAACTCTAAAAAGCATTTTGAGCACTGTTTATTGCTTGC
TTTTGCTTAACAAATACTGAGCCCAGCACCTGGCACCTAGGTGGTGCTCAATAAATGTTTCTTATATGATTGAATAAATGAATGAAGGAATGAG
TTAGTGATATCACACAGGAAGCAGTGGTGAAGGAGACACTGCATTTAGTTAGTAAAACAGGCTTGAGCTGCAATTAACAGATTTCAGCAAGAGT
GAGGCTGGTTGGTTGCTGGGTGGCCCCCATAAGGGCATAGCCCTGGTGAATAGCCACAGGACCAAAATCAGTTTTATTAGTTCTTTTTGAGAGA
TGTGACTTGCAAGAATTGACTTATAGTTAAATTTATGAGAGATTAATTCATCATAATTGATATGCTCATGTATTCTTGACAATGAAAAGAGGAAGGC
CAGGCAGCACAACTGACATGGGTCATTTGCTCAGGCCACATCCTGCTGGTCAGTAAGTTCATTCAGGAGGCCCAATATTAGAACTTACTAAATT
CTGAGTAAATGCATCCTTTCTAATTGTCTCTAAGGGATTGTCCATCAAGCTGGATTACCCAGAAGAAGGATTATTTTCTTTTCCTATTTAAAAA
TGTTTTTAAATTTAAAAAAATTTTTTAGAGACAGGGTCTCACTATATCGCCCAGGCTCAAACTCCTTGGCTGAAAGGATCCTCTTTGCCTCCAC
CTCCCAGGTAGCTGGGAACTACAGGCTTGTGCCACAATCCCTGGCTTTTTTAGTTGAAGGGCATTTCTCTATAGATCACTGACTTTTACAACAT
CCTTAACAGTAATCAAAACAGTTCTACCTTTGTAATAATAATGGCTAATTCTTGAATGTTTACTGTGTTGGGCACTGTTCTAAATGCTTTATCT
ACTTTGACATAATCTTCACAACCCTGTGATGTAATTACTATTATTAGCTCTGTTTTTACAGACTGGGAAACCGAGAGCAAAGATGTTAAGTGAT
TTATCTCTGTTCTAAGGGGTGCTGGAATTTGAACCCATGCAGATGGACTCAATACCTTTGCTTTTAACCACACACTAATCTTCCTTTCTATGAA
TGCAACCAGCATTTCTTGTGTTTGCTTTGTGTGACTTCGTTTAATGCTCCTAGCAACTTCTGCAAATTAGGTGTTAAATCTCTTTTGCTTGCAG
CCGAAAAAAGGTCTTGGTTTTTTGGTTACAAGCAACGGACTAAAGCAAAAAAGATTTTACCATGTCTTATACCTGAGCTATCTTTAGGTCAGGT
TGCTGACTATGATGATGGGTGCCCCAGTTGGTATGGGGAGGGGCAACTTTTCACAAAGGAAGGGGAGCCAATGATGGAGAAACAAAATCACATG
AAGAAATGGAAGTTTAAATGACTTGCCCAAGGTCACCCAGCTAGTGAGTGCCAAAGGTGGGATTTGGCCCTAGGCTGCCTCTAGCACCATCTGG
GTTCACTCTGATTTGAGTGGACCCTTTGCAAACTGTACATCCTGCTGCTGCTGTTCTTTCATCAGCAGGTTATGCTATCATAACCATAACATGT
ATCATTTTCTTTATTCCATTCTGGTTCTAAGAATACACTGTGACCACCTTCTTTGAACCTGGCTGTTTCCCAAATGTAGTGCACATTGTTTTAT
TTAATTCTAAACTATCTTTTAGGATAGTTGTATAAACAGTTTAGTTCATCTAAAATTTTAACTAAAATTTGTACTGCTTTCCACTTCTGAAAGT
GACCTTTTTTTTCTGACCTGGCTGCAAATTCTGGAGAAGGCTTGACTGAAGCTCTGTGAGCAGACCAGAGCTTTTTCAGGCTAAGGTTTATACAA
AACATTGACCTTCATGGAAATTCTGGTTCTTGATCACTTGGGTAAGCAAGTAAGTTCATGGGAATGCCCATCTATTCACTGTCAACTCACAGCC
CTACTGTACAGGTCCTTGCTGGGGAGCATGCTCTCTGGAAAGTGGCTTATACTTTGCACTTCTGAATCTGTTTGTGAGGAAATGACAGTATTTT
TCCGCACTTGCACCACCGACTGAAGCGCTGATCCTTGATGTGTTTAGTTTTTACCTGTGCTCATCTCTACATCAAAAACAGAGGAAGCCACAGG
AAATTGCTGCCTGTATTTCCAGGAAACTTAACTACATCATCGGCTCCCCAATCCGCACAGCCCAGAAGACCCTGATGCTGGCCTCAGTGTTGCT
GATGTGGGTGGTGATAAGGGCCGAGAGTGTTCTCATCCTGTGGCTCTGCCAGTGAAAGCCTAGAAGAGATGAAGCACTCTTCAGACTAACAGG
AAAACCCTGAGTCTGGTTCTATAAGCACTTAGTCTCTGAACATGCCGACAGTGAGGGTGAAGTGAGGGATAATTCTATCCCAAGGCTAGTGGTC

CTCTTTCTTTCTGCTCAGGTGTGCTATCTTGTCCCTGGTCCATAGGGCCGTGGCTGGCATTCTCTCTGATCACAGAAAATTGAAATGATCCTGG
GAAAATTGTCACATGAGCCTGTGGATGGGGTCAGGAGAGATAAAGACCATAGGATTTACACTGGCCACCAGCAGTTCCTCAAAGAATTATAATA
ACATAATTGTAATACCAATCGCTGATATTTATTGAGCATTGACTTTGGTGTGCCAGGCATTTTGTCGAGGACCCTATGAGCATTAATGTAATCC
TCACATAAACCCCAAAAGGGACTCTTTATTATTCCCAATTGTCAGGCGAGGTACCTGAGACTCATAGAGTTTGATACCTTGTCCAGGGTCATAT
AGCCATTAAAGGATGCAAAACTTGAACCTAAATCTGTGTCATTCTAAGCCAGCACTATACATAGTCAAGTAGGTTTTACTGGAGGGTGGAGTGG
GGCTGGCAGCCTGTGTGCACAGGCAGACGGAAGCAGACAAGATCCATCCAAGGCAGGCTGAAGACTTATACCCAGAGAAGGCTTTGGTGTACAT
CTGCCAAAGTGATATTCTCATGTAGAAGAAAGGATTGGGTGATAGTCCAATAAATACTTTACCACAGGGAACTTATGTGTCTTCTGGGGTCTGG
CCAAAGTCATGAGTGCAAGCTCCCAAATAAAAAAAAGGTGGCTTCTCACCTCCTCATGATCCCAGCTTCCTAGCATAGCACTCTTCTCTATTTT
AGCTTATCAATTCCAAATGTGATTGAAACAAGTATGAGAAATTGATGTTGCTTCAGCTTCTCTGTGAACTGAAACAAATTCTTGTTGAAACATG
ATATCTCCTGCCTCATGGATCAAAGAGGGATGGTCTGGAAGAGAAGCCCCCATAAATATTTGAGGCTTAATGAAGGCTATCTGTTGAATAATAC
ACCTGTATTATTGTAAAAAGTTTTAATTTGGCCTCAGAGATACTCCCCACTAAAGCAGACAACAAAAAAGTGAGAAAATGAGGCTAGGAATTAA
TAAAAGATGTCAAGAAAGACCATTTAAGGACTTCTTAGAGACAGGCCATAAATGTGGTTTTGAACTTTTTGGCAGCTATTATGAAGACGGAAAG
AGAAGTGTCATGGGAATCAATTTTCAAAACTTAAAAGTTCTCTTAAAATTCTAGCAGAAAAATAGTTTGCAGCTCTACACAGGTATTGGCTAGC
ATTAGTTTAAAGTGGTTGACATGCAGCCCTACTGCACACCTCTTTATATTCCCTTTGTGTTTAGGATTAGAAAAACTCACATAGTATGATCTAT
CATATGTCTACTTCTGGATTATTTCAAGATTGATAATCTGGTTTGTGTATTATCTTGGTCTTCATTTCTCTTTCCTTCTGGGCCTGTTGTTCAT
CTACTGGACATTTCTTTTCTTATTAACATTTCTGCTAAATTTTAAACAGAGAAAAGAAAAATAAATACACAATTCCAGCTATTTGCAGAGGTGA
TTTCAATGCTTTGTCAGCTAAAGGGAATTTCAAGAGAGATCTTTCTACATCAGTCTACTCATAATAGAACTCCTGGCTATCTTGGGTTGAGCCT
GCCTGCAGGTGTGCTTAACCTGGGCCACAGATTAAGGCAGGTAAGGGAGAAACACCTGCAGAGGTAGGTTTTGACCCCATTATACCTAAGATGA
AGGTCACTCCTTGTGAATTGATATAGAATGTGAAAAGGGTAGAAACTGCTGATTAAAACAAAGTGTTTTGATTATCTGGATTTCAGTAATAAGT
GTTTTCCTCTCTTCCAGTTATAAAGAGTTGAAAACCTTGCAAGGCACTCTTGTATAATTGTGTCCTTAAAAGGTTTAGATAACGGTTGGGCTTC
TCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTG
TTTGGAAAATAATAATGCCTAGGTTTCACTAGAATTCTTTTTATCTCCAAGGCTCTCTTAAATATTGACTAATTAAATAAAAACTAAGGAAGTC
TAGCTAAATAGCCTCACTTTGAGGACCAGCCCAGTGGACTTAGAATACACAGTGATTTGCTGTATCTCTGAAACAAGCAACTAGAAATCTTTTA
TTATTGGCTATAATAGCAAGTGGCATCTCTTATTATGTTTGGCAGCTGACATTTCAAATTGCATTTTGGTTGGTTGTTATACATGAAATAGTAG
GATATGAGTAGACTAAAAATGAGAATTTGCAGCCCAGGGATGACATGAAATATCTAACATCTAGGGGTTGCCATGACAACTCATCAGAAAGTTG
CTTTGTAATCTTTTGGATTAGGCTCTGGCCCAGGGTCACTGGATTGGAGTTGGAGAACGCTTTGGTAACAGGATGTGAATGTTGTACCTTTACT
CAATGGCATTTGAATTTGCAGTTTGGTCATGTTGCTAAGGTCAAGTAGAAATGACATTGAGGGAATTTTTAAATTCCCGCAGAACCTAGACAAG
GTCACATTTGTCAGCAAAAATACTCAGATGGAATAGTCTGAGACTTAGCAACTGAAAGACAGGATTTCCTGTCCTTGATAGATAAAAGTATGC
ACATATCCATTTATATATGCCTATCTCTAAACAGTTGTATGTAATGAAAATTTGGGAAATTAAACCCTTTTCATAATTGTCTTCTGTTATAAAA
TTGGAACTGAACACCCCTAAGAAAACAGTTTGGCCACAAACAAACCACAGCTGCTTTCTAGTGCTCTGTGTCCTCCCTTTCAGCTGGAAATGGC
CTGCAGGGTGTGGAATTTGGACCAGGGAAGGGAATTCGGCAGAGAGAGGAAGGAAGCAATTGGGAAACAGGGTACCACATTCCTCATCCCCCAC
ATTGGCCTTGACCACAAGGACAGCATCTTCCACATGATAATGCACCTCTCAGGCATGCTTCTCACCAGGGATGATCAATGGAAGCAACCTGGAA
ACTAAAGAGCTCTGTTCCTAAGTCTGATCCCAGTTCTGCCACTCACACTGTGATCTTGAGCAAAACACATTTCAACTCTGGGTTCCCCTAGGAA
ATGAGGGGGCTGAGTTTCCTCTGGCTGTCAAGTTCTGCTATTTATCATCATGTGGGGGCAGAGCCAGGTCTCCACATCGCTTTTCTTTGCCATT
AAGCCCACATTCCCATCATAACTTTGCAGTAGAAGTACCGTTCATTGTTAGTGGGACCTCTTAATAATTAAAAGAAAGAGAAAAAATGATTTAT
TCTTATCCCCATACCTTTTAAAGTTGTGGTTTTCTGAAGCAAAGGCTGCCATGCAGTGAGGAAAGGATGAAATTCCAGACAGAAGACAGTCAGT
TGCAATAAGTTGTCCTACTACCAGTACTGTCAGCATCAGCTCAGCTTATATTTACTGAGTATTTTCTATATGGAGACAGTGCTAAGCCCTTTAT
ATGCATCAAACTGTTTAATCCTTAGGACATATTCACATGTACACATGTATAGGTATGATGCATGTGATTAAAATTGAACATTTGCTATGTACCA
GGTGTTATGCCAAATCCGTACAATAATCCACTGAGATCAATAAATGGATTCAGTCAGTCAAGCCTCACAACAAAGGAGGTGTTATCAGTTATCT
CCGTTTTTACAAATAAGGAAACTGAGCCATAGCTAGTAACTAGTGGAGCAGGGATTTGAACCCACGTAGTATGGCCTCAGCATCCTTTCTCAAA
ACCTCTCTGCCTGTGGTTCTCCTCACTCATATGACATAACCACACCTGGGGAACTTTAGAAATATAAGGATCTTGGGGCCCCATTCTGGATCAG
TCAGAATGTCGGGGATTGCGTCCCAGACCCAGGTTTGCTAATATGCAGCCAGGGCTGGGAACCACTGCCTCAGATGGAATACCAGGGTTATGTT
GTTGGAGAGTTGCCTGTAGCTCTACAGCCAGCAGATGACTGACCTAGGACTTGCATCCAGGCTGTAGGCTCTCAAGCCAAATATCTCGACGGCA
CAATGGGCAACAATTCAGTTGTTATCTGGGCTCATATCTACCACCATGCCTAGTTTCTCTCTCCTAGTCTAAATCGCAAAGCCGCAAGTTCATT
TAGGGCTGTTTAAAGACTGTATGCTACACCAATTATGAGAATCAGAGCACAAACTTCTTGTTGCAGCCAAAGCAGTGATTTCCTACTTAAAAGT
TTCAGAGGTAACCTTTGCTTTTACCTGTCACCAACTTAAATGTAAGTTATCGTGCTTTTTCCTCATTGAGCAAAATCTTGTACTGACAGAGTCT
AGGACAGTGGTTCTAAAACTCTGATGCACATTAGAATCTCCTGGGGATCTTTAAGAGCTACAGATGGCCTGGCTTCCACCCCAGACATTTTTTT
TTTCTTTTTTTTTTTTGAGACAAAGTCTCGCTGTGTAGCCCAGGTTGGAGTGCAGTGGCATGATCTCTGCTCGCCGCAACCTCCGCCTCCCAAGT
TCAAGCAATTCTCTGGCCTCAGCCTCCAGAGTAGCTGGGATTACAGGCGCTGGCCACTGCACCCGGCTAATTTTTTGTATTTTTAGTATAGACG
GGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCCGACCTCAGGTCATCCGCCTGCCTCGGCCTCCCAAAGTGCTAGGATTACAGGCGTGA
GCCACCGCCCAGCCTCTGATTTTATTAGTATGGGATGTGACCTCGGCAATGGGAGTTTGTAAAGCTCTCCAGGTGATTCTGATGTGTAGCAGAG
TTTGAACAGTGGTTTAAGAACTTGGTCTGTGAGTTCACAGATGTGTTGACTTGAGAAGACTGTGGAATCACCTCATGGATAGAACTCACTTTTT
AACTCTCTGACAGTGTCTCTTGCGTTTCAGCTGGCAGGATTAATTTGAGTTTAATTCCACCCATTTCACTACCTGACTTGGAATTGTACCTCAC
TGTCAAATGATGGTTTCTCCCCAAAGGTTGTTCTTATACTTAGGCTCATGCAGTGATATTGGCGACATGTCTGTAAGATCCCTTTGTAAAGTTC
TCAGCCTCATTTGACTCTCTTATTTCCACTATAGAATATTTCTTTTTATGTTGTTTTACCTTTTAAAACTGTTTTTTCTTGAGACAGTGTCTTG
CTGTCACCCAGGCTGGAGTGCAGTGGTGCCATCTCGGCTCACTGCCCCCTCCACCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCAGAA
TAGCTTGGTGTGCCACCAAGCCTGGCTAATTTTTGTAATTTTAGTAGAGACAAAGTTTCTTTTCACTGTGCTGCCCAGGCTGGTCTTGAACTCC
TGGTCTCAAGCAATCCGCCTGCCTTGACCTCCCAAAAAGTGCTGGGATTACAGGCGTGAGCCACCACGCCCAACCTAAAAACATTTTTATGATT
TTAATACATGTTGCTTTTTTTTCTTCCAGGAGCAAAATAAACACCTCTTCCACATAATGCATTATAGTAATAATCCACCTATGGTTCTTTTCCCA
AAATGGCTGACCATCAGCCTCACTATTGGGAGACAGCAGCTGATGTGCCTGTAGTGTTTAACGGCTGATAGCGTCTTACAGATAGATAGTGATA
TGGTGGAAAGTTGGAGATTATGTAAAGAAGAATTGACTCAGACTTTATCCTCAGAGATTTTAGTAAAGTCAGATTAATGTAATCAACTGGAAAA
TATAGATGGATTATAAAAGTATATTAAAGCAGAAGTGTAAATTTGTTGGCAAGTTTGCAAATGTACTGGATTAATCTAGAAATCATTTTTGCAG
TAAGTCTTAAATAGATTTTTAAACAGAGATGTTATTTTGTGGATAAAAAGAGACAGGTAATTTACAAGTGGAACAATTCTTGATAAAGGCTGGG
GATGGCAAATGGAGTGTTGCAGGCCACTAGGCCAGCTAGCTAGGCTGGTATGAAAAGTATAAACTGGGTGTAGCAGTTAATGAGGAAGGATTGC
TGAGGTGGATAGAGCTAGCTATTGCATGAGATTTAATACCAAGAATACTTTGGAAGAGCTTTTTTTTTTTTAAAGGGATATATCAGGAGTTTCT
GTTTTCCTTTATGTGGTTGTTGAAGTCTAGTTGATTTCTAGTCTGTAATTTTGTTGATATTTCAGATCACCAAACAAGGCTGGTAAGATGGGTT
AGTTATGCTTCTCTTGAGGATAAAGCTTTTGAAATTAACTCTGCTTCTTTAGGTTTAAGAATTTCTAATTCTGTCTGTCTACATCTTGCTGCTG
TAATCTCCAAGAAAAGAAAAAGGGGTTAGGATGCCTCTCTTTTGAAATGGAGGGGTCAGAGCAGGCAGGGGGCTGTCACTGTTGTTTCTCTTTG
TTCAGAAATTAGAACATGTGAGCAAGTGGTTCCACCCCTCATTTTGTGAGCTGTTTTCCTCTGATATTTCCTAATTTTTCCCATGACGTTTTAG
CCTGTTTCTTCACAAGATTGTAAGGCCTGAAAGACCCCATTGTTTGACAGGAGTGCAGGCTTGTGCACATTTGCTGATCTGGCTGCCCGGGGTC
TGAGTGTGGGTGGTATACCGCCCGAGGGATCATGCAGACGGGAGAATGCGTGGAGCAGACTCCTGGTAGTTGCAAACACTTTATGTGTATTAAG
AGTTCATAGAATGTCTTTTTGTAGACAGAAGATGCTGCACTTTGAAAATGTTATTCACAAACTGAAATCTCATTGACAGAAGTAGGGATATTCC
ATTAGGCTAAGAAAAGTTTCTTAATGGCAAATCAAATGGATGAAGGCCTTATTCAAACTTCATTTCATCTTCAGATAGATTCAAACTTTTATTC

TTGCAGTTCACGCACATTCCTTGATGGCCTGTCTTGGATTTATGTGAGCCTTTGGAGCAGCAATCTCACATACTATGCATGGCAAATCCTAGTC
AATGCATACTTTTTGAGAGTGCAAGATGTTAATTGTAGTAAGAGAAGAGAAATTCAATAACAAATGTTTTTGAATAAAGGAAGCTGAAATTTAA
TACTAATGGTGTTTTCTCTAAATGAAGTTAATATATTATTGTTGTATTAACTTTTCAGGAGTTTGAGGCTGCAATGAGCTGTGATTGCACCATT
GCCCTCCAGCCTGGATGACAGAGTGAGACCCTGCCTCTTAAAAAAAAAAAATTCTAAGGACTTGGGCTCTGTGTTTGATTGACAGTAATAGACC
AATAGAAGACATTGCATTTATATAGACTTATAAAATAGCATTCACATTTCCAATCAGATTTACAGAATTCTCCCTTATTTTTAAATGTTCTCAG
TGGTAACAGTGACGTTGGGACTAGAGTCAGTATTGTGAGTCGTTTATGCACATCTCTTCACAACTCCATGTTCAGTGAGTCATACTGGCAGCTT
GAAATCAGCCATGGTGGGAGAGTTTACACCATGGAAATCAAACACTACAAATTGGTGCTCCTCACCCTCAGAGTCTGTTTTTAAACATTTAGCA
GCATACCACTGCCCAAAATGGAGTTGAGCAGTCAGGGAGTCTCCTCTTGAGGCAAGTCATGCAGTGCTTCCACTCAACCAAACAGCCAACATGA
ACATTTTGAAATGTAGGCTGTGTGGCTCCTGAAGAAAAGTCCTTCATAGCTCCACATTTTTCTGAGCCAAAGCCTTGCTGTGATCATAAAGCTA
TTCATGCTGTGGCCACCACCGTCCGTCCTCCTGGCTCTCACCTCCAGATGCCTGGTTTCACCCCTTTTTCTGTAGAACATCCTAGACCCACTCC
TATTTTAGGGCCTTTTCTGTAGGGCAGTGGTTCTCAAACTTTACAGCACATCAGAATCACCTGGAGAGTCTGCAAAAACAGACCACTGGGTGCC
TCTCTAGCATTTCTGAGCTAGTGACAAGTTTCAGGGTAATGCTGGTGGCCTTAGGACCCCGCTTGGAGAACCACTGCTTGAACTGATGGCCTCT
TGGTTTACCTCTCCCCTCCAGATCTCTGATCCTCTTTTTCTTTCTCTCAGTAAGGCACACCCTGACTATCCTATGTAAAATTGCAGCCTTTCTC
CTCCACCACAGTTCTAATTCCTGACTCCAATTTTTATTTATTTAAGTTCCAGGATACACGTGCAGGATGTGCAGGTTTGTTACATAGGTAAATG
TGTGGCATGGTGGTTTGCTGCACCTATCAACCTATCACCTAGGTATTAAGTCCCAAATGCATTAGCTATTTATCCTGATGCTCTCCCTCCCCAC
CCCCCTCTAACAGGCTCCAGTATGCGTTGTTCCCTTCCCTGTGTCCATGCGTTCTCATTGTTCAGCTCCCACGTATAAGTGTGAACATGTGGTG
TTTGCCTGACTCCCAATTTTTTTCAGTGCACCTGTCACCTGTTACCTTACAACAAGTTTCTTATTTGTGATTATCGTCTGTCTCTCCCCACTAA
CTCTAAATTTCACAAAGATAGGGAATTTTGTCTGTATTTTTTTAAAAAACAGGGTATCACTCCAATTATCCAGACTGGAGTGCAGTGGCATGAT
CACAGCTCACTGCAGCCTCGAACTCCCGGGCCTGGGCTTGGGTGATTCTCCCCCATCAGCCTCCCGAGTAGCTGGGACTACAGGCATGCACCAC
CATGCCCAGCTAATTTTTTGTATTTTAGTAGAGAGTTTTGCCATGTTGCCCAAGCTGGTCTTGAACTCCTGGGCTCAAGTGACCCACCCGCCTC
GGCCTCAGAAAGTGCTGGGATTACAGGTGTGAGCCAGCATGCCCAACCTTGTTTGTTGTTGTTGTTGTTGTTATGATGTATT
TCAAGCCTCTAGAACAGTGCCTCGTGGCAGGTGCTCAGTAAATTGTTGAATGAATTAATGGATGAACAACATTGAGATATGAATAATGTATTTC
AAATTTTGGTCCCAGCCTTTTAAATTCTAACTCACCAGAGAATCTGAAAACACTTTCTGCAGTTTTGTTTCTCAGCTTCACTGCTCTTAGGATA
ATGAGGAATGGTTTCTGCCCTGGGCTGAAGTTTGGGAATGACTTGATGAGCCTTAAAATAGCAGGTGCACCAAATTGTTGTTCTTCCATTTACA
TTTTAACCTCAAAGTCCCTAAGCCAGTGATCTTCAAACTCTGGTCTGCAGAAGTTCCCTGGAGATACTTCAGAGGCTCTGCAAACATCTAATTT
GCATTTCATTTTAATATATTTTAAACTATGTTTTATAACTATAATAAAAGAAAATGCACACAAATGTGCTACCTACCAAATTTTAACACATTAG
GACCACCAGCACATTGAATTGGACTGCCAAGTCAACCTTGAAATAGTGTTTTCCACTATTTTGGCTTACATATTTGAACTTCTTATAAATAAAT
GAATCATTGATTAGGAACTTCCATCCCAGTATTTTTCATATTCCAGCCTGATCATAAATTGAACAGGCAAATTCCTCTTGTCACACATATTCAG
CACACTTGATGACATGCCAGGCAGCGTTTCAGAGCCTCTGTGGGATGGAGGCTTCTGTGTGGATTAATGGCTAGTTGTACAATAAGTGAACACC
ACACACATCACTTAGTGATGTACATTCTGTTAGAGGATCATGTCTACCCACTCTACATTTTGGATACTCTTTTACCTTAAATAGTTGTCAAATT
ATCATTAGTGATTAAAATTTGAAATAAAATCTTGACTGCTGCATTTTCTCCAAGCTTTTAGATTTAGTTTTGAGGCATATTATGAGATTATCAAA
TGAAATGCTAAAGAACTGTTATAATTTCCAATACAACTGTGCCTTACAATTCAAATCTGCTCATTTCCAGAATTCAGGTGCCAAAATTTCCCAT
TGTAAATTCCAGTGCAAAGGAATTTGAACTTGTTATGTTCATGTCAGCTTCGTTTCTCAGTTTCAGATAGTAAGTAGTAAGAGTAGCAAATAGC
GAGAGATTTGTCTGAAAATTTGAGTTTTGAGAGCAGAGATTCAGATAGTGTTATCTGTATTTAGGAGTATCAGGATTCTCTTAATACAGTGAGT
GCAACCAAATACAGACACAGAAGTAAATCATATTCTGGATCACTTTTAAAAATCAATTGAGGCTGAGCCTGGTGGCTCATACCTGTAATCCCAG
CATTTTGGGAGCTCAGGGCAGGTGGATTGCTTGAGTCCATGTTTTCAAGACCATCCTGGGCAACATGGCAAAACCCTATCTCTACTTAAAAAAA
CAAAAAAAAAAATTAGCTGGGTGTAGTGGTGTGCACCTGTAGTCCCAGCTACTTGGGAGGCTGAGGTGAGAGAATCACCTGAGCCCAGGAGGTCG
AGGCTGCAGTGAGCTGAGATCACGCCACTGCACTCCAGCCTGGGCAACTGCAGTGAGGCCCTGTCTCAAAAAAGTCAGCTGATAGAAGCCTTAC
TATCTGAAAGCCCCACTCCATCTCACAAGTGCCATTGAATACATTATATGAAACAGTTCTAAGTTATACATTATGGAACATTTTGTAGGCCTCT
TTGCATATCTGTTTATTAATTTACTTAATGCTCTGTTGTAATTTGTTTTGTCTCCTACACTGTATTTGAGCTCTTTGAAAGTAAGAATTATGTC
GTAGCTTTGCTTCCCCAGTGCCCAGCGTTGCCTAACATGTGGTGGGTACTCAGCACATGTTTATTAAGTGTTGGAAGTAAATGCTCGGTGCCAC
CAAGTGAAAATAGCACCCAGGCAAAAGTTTTCTCAGCAAGGCAATTTGCTTCTATAGAAGGGTGCGTCTCATGGATGGAGCAATGGCGAGAGCA
CACTGGACAAGGAAGGGGAAGTGGGTCTTATCCTTAACGCAGCTAGTCCCTACTGCTGTGTCTTTCCCCTATTGGCTAGGGTTGGACCACACAG
TCTAAGCTAATTCCGATTGGCTGTTTTAAAGAGAGCAGGGGTGCGCGCCAGAGTGGCGGGTTGAGTAGTTTCGGCAGGAAGGACTGTTTGAGAG
CAGGTGACAGAGGATGACTAAGGACAGTGCAGGTGACTAAGGATGACTAAGGACAGAGCAGTTGACTAAGGACAGAGCAGGTGACTAAGGATGA
CTAAGAGCAGATGATAGAGGCTAAGAGGGGGTTGTTTACTGAAACTAGGGGCAAGGAGACATAAAGAACGAGGAAGTTTTAAACTTTAAAATGG
AGAACAAAGAACAGGAGAGCTGAACATGCTGAACGTACCATATTGGTTCTTTGAAGAGGAATTTACTATATCCTACATAAGTGACACTGCATTC
TACTGCAGAAGGAAGCAAGCTCAAAAGGAACAATGAAACTTCATATTAAATACACAATCAGTGAGCTTTCATTCTAAGCACAAATTTCAGCATG
AAAAAAATGTAATGGTTCTGTGAGTCCTTCACTTGATCCCTCACATACAGTCTTCTAAAGTTTTCTGAATTCCTTTTACAAGTATCTTCTGACT
CTGACTCTTCCATGCCATCCTACTTGCTCTGAGCCTTGTTCTTCTCTGTGTCCCTTGCATGGACTGTGGAAGCCACCTCAGAAGCCTTCTCCCA
GACCCAATGTTTCTGCTTCTTCACATTGTTGCCATTGTCTCATGAAATAAAACCAAGCATATCCTTTGGTCTGCACTGCCTGCAAAATAAGGGC
TAAACCTGTGCTTTCCAAATATAATAGTCACTAGCCACAGGTGGCTGTTGAGCTCTTAAAATGTGGCTTGTCCAAATTGAAGATGTGCCGTAAGT
GTAGAATCCACACCCTGTTTCAAAGACTCAGTATGAACAAAATTTGTAAAATAGCACATTAATACTTTTTATATTGATAGCATGTTAAAATAAT
ACTTTTTTCTATAATATTAAGTAAATTTCTCTCTTTTTATTTGTTTAATGTGGTTATTAAAAAGTTTTAAATTACAGGTTTAGTTCACCTTGTG
TTTCTGTTGGCCAGCACTGGTCTAAGCTATATCATGACATTTAGAGTTTCTTATAACCTGGACTCAGTTACCTCTTTGGCCTCATCTCCCAGCC
CTTCCTGTCCCTTGCAGAATTTCTCATAACCCCCAGACTCACCAACCCTGTTTATACTTACGGGTTTTAATTTTTTTCACATTCAGTTTCTTCT
TTCTGAAATGTCCCTCCTTTTTTAGGTGTCAAAAATCCTGCTCACACTTTTAGGACCTGACTTAATTGTCCCTTGCTGGTGATGTCACGCCCTA
TTTCCTCAAGCAGAATTAGCCACTCCTTCCCATATAGTGTCTCTCAGCACCTCCATTATTGCATTTGTCTTGCTGTTCTGCCATTAGGTGTCGT
CTTAAGTAGACTCCTCAAGGGAAAGGCTGCAACTTATTTCTCTGATGACCACAGGGCAGTACCTCGTGTGTAGTAAGCACTTAATGGATGTTTA
TTACATTAACTTATGAACTAATTTTCATCCTGCTATACACACTGCTATTTTTATATACATCAGACCTTGATCATCTTAACCATTGGCCATGGAA
AAAATTAGATGCTGAGGTGTATAGGACTGGACCTTTCAGCCTTAACCTCAATTTCAGGTTTTGTGTTCAATAAAATGGCCTCCTTTTTCTCACT
GGGTGGCTTATGATTAAAAAATTATAACTTTGAACTTAAAAAATCCATGAATATTGTACAGACTAAAAGTATAAAAGGACAGTATAAATTACTG
CTTTTTACCTATCTTGCTTATAGGGATTTCATATAAGATTTGTTTGATTGAAGATTTCACTTCAGAACAAGTTTGGAAAGCTACTGTTCTATT
CCTAAATTTCATTTACATTTCTATACCAAAGGTTTCATTTTTATTTTGATGAGATGGTTTCTACTATCATGTTAGTTCACATAAGGCAACACTT
CTCAACTTTAGTTGCACAAAATTGGGAAGCTTTTCAAAAATACCTCCCCACTCAGGGATCCTTGTATAATTGAGCTGGAGGAAAGGGGCCCAGG
CACCAGTATTTATGAAAAGCACAAATACCTGTAATAAAATGATTCTGCAGTGCTTAGAAAACCAGGTAGTTAACTATGAAAATACTGAAGTTTT
AAATTGCTAATTTTTCTTTCTTTTTATTAACTATGCTGTTATTGTTTTTCTTGGCAGTCAAGCTAATGCAATTTAAAGTTTGTATTATGGTTTT
GAGACCTCAAACAGCATTTAATAGACGCCATCATCTGTGGACAATTTTCCTAAGGCTTCTGAAATTAAAAATTTCCTTTTCTGTCACTCTCTAA
AAACCTACATGCAGCAGAATTTTAATGTCCCTTATTGATAGAAATAGCTAACACAACACCTATTTCAGATCATGGAAATGAGGACTGACAAGGG
CTGTGGGTTTAAGAAGTTTACATAGGTAGTGGCCTTCCTGGCACCCTTGTTAGCCTGAATAAACAGTCCTCCCCTGACAAATCCTCTGTAGCTC
TGCCACATTGATAAAATCTGACATTCTGGTTAGTCACTTTTTAATGATATTCTTTCTTTTGTTCTTGATATGTTAGAAACCAGCCCTTATTTTT
TTCAGTGTGTGGGAAAGAATTAACTTTAATTTCCTAATTCGGTAAAATGGGCTGCTAATGCAGACCTTATTCTTAGGGGGACAGGAAGAAAAGT
GACCTAATTTCTATATATCAAATACATCTTCCTTCATACATTTAAAAATGTATAGAGTTATAAAGGACCTTAAATCCTGTAGCGGAGAAACTCT

GGGGTAAATACTTTGGAAACATTGTGAAAAAATTCTATAAATTCTGATAGTAGGTTCCATTTCATTGCTGTGTACTATTAAAAAGTGCAGATGT
AAATAAGCATAAGTTTTGCAGGTTGTCAATTTGTTACAAGCGGCTGCATGTTCTTATTCTTCTGAAGTGTCATCTCTTTCAATGTGGGCTGTTT
AGGCGGAAAAAAAAAAACTCAGAAAAATACACACTTGGGATCAAACCCTTAGTGCAGAAAAAAGAATCAAAACCTGTAGTTAAGTTGGTTATTT
GCAGTGGTGGTATGTCATCCTGTGTGAGACTGACGTCAGGCAGATTGAATGCAGAGGCAAACTTCGGGAGCGTGTGTGTGTGTGTGTGTGTG
TGTGTATGTGTTTTAAAGCCCCACTCCCAGAATATGAAGTGAGTATGAAGGGCACCACAGCAACCCCTGGATCTCTCAAGAATGTACCTGTTTT
TAACATGCTGGATCAAGTGTCAGCACTCAGTAGATGAGGAAGGGGTAGAGCCCGACTTGTACAGATTCCGCGGATGGTAAATGGCCCTCTGGCG
TGTTTACAATACAGCTGTGCATTCTTAATGGCTCTGCCGCTGCCATGTCAGGTAAAGTTTTCTTTGTACGTGATGAATGGCAGAGAATTCTTTA
GCAGAAGGAACCAAAGGAGCTGGGAGGAGGAAAGGGAAGAGAAGAGCGGAAAAGAGAGAGAAAAAGAAACACACAGCTCCAGAGGGACATAGC
CTGTGCTTTGCAGTTGCTTGTGTGGATAGAAACCAGATGGTAAGCTGGAACACCCGCTTGGCTATCTGAGGAGCCAAACATATGGTTAATGGTC
GGGAGAAATAGCTTTCAGAGCCAGGGCTTTGCTGACTGCCTCATATTACAGATTGTTACAGTGTGTCATTACATTGCCAACCTAAGTGCTTAAT
ACCCACTGCAGGCGCTGGGCATACACTTACAAGAAAGACTTTTAGCTCTTTGCTGGCTCTAAACAGAGAAGTGACATCATAGGGAGGCTGAAAA
TGTCTGGTGTTGGAGGTGGGGAGAAGGATAATTTTGTAGTGGAAACAACAATTTTTTTTCTTTTTTTTTACAAGCCTTCACTCCACTGAAGTCTA
CTGTTTTCTGAGAACCTTTTAATACTAGACTGGTTCTCTCACTCTCTCAATCTCTCTTGCGTGCACTCTCACTCTCTGTGTCACACACACACAC
ACACACACACACACACACACACACGGAAAGGAAACCGAAATTCACAGCCCAGGCCATGTCCCCCAACTCCAGTGGATTTGACAGGCCTCGTTCA
CCTGGAAGCCACATCACTGACTCAGAGGCCCTGCATTTGAAGTTTCTGTTTGGGGAGCTTTGGGCAACAGCAGGCCTGTGTTATCTAAGGAACT
GCTGAGCCCATTCATCTGCTTTTCACGGCCCGTTTCCTTTTATTTTTAGCCAAATCCGTCAGGCCTGACAGGCGGGTAATTCGAGCCAGAGAAA
GGGCAGAGCTCCAGGTCCTTTCCACAAAGCAATTCTTCTCCTCCCTCCTGGGAGGGCTCCAGACTTGGCCTGCTTCAGGCAGATGGATTTGTTG
AGTCATGTGAGATCATTTACACAAAAACACAGTGAGGCAGTGGAAATTAAAAAAAAAAAAAGAAAGAAAAGAAAAAGAGGAGGGTGGGGGAAGA
GGAAAGAGGGGAAGCCAGGGGAATGTGCGCTGCCCTGCTGCTGAGGAGCATAGGAATTTTGCAGTGAGGCAGCTAGACTGAGGAATGCCTAGAG
TCATTTGTGTATAAGGTAATGTCTAGTTTACAGAGTGGGGCGGGCCAGGCGAGGACGGCGCCTCCAGCAGCTTGCCTCTGTTTAAAAGAAGAAG
GTGTTGGGAAACTTTAAAAAAATTTTTAGAGCAACACCCACCAAACAAAGACCACACTGTTGACAGCGTTGGGTTCCAGTAGCGGTAAACTACC
AAGGGGCTGGTTTACAGAAAATGAGTTTGCTCTGTGATGTCATACAAGTTTGCTTTGTCCTGACGCCAACATGACACTGAGGCAGCAGAGGAGG
GAGAACAGGAAAATTGGAACCGTACTCTTAGTTAATGGTTTCCAGAGATTATTTAGCAGGACTTGAACAGAGGGAGGAAAATATTGTGAAGGAT
TGCTGCGAGGTGTACCATAATTGCGGTAGGTAAAACAAAGTCATTACTATGGTTTTCTTGCTCAAGAAGGATTGAGCAATGACTTCAAAATGCC
AAGTAAGGTATTATTTTTCCCTACCACAGTATTTATTTTCCTTTAGCTTCTGGGGCATTAAAAAAAAAGACCAACTCTCACATCATGGCAAACA
GTATTAATGTTAGTGAATCAATTTTGTTTACTGTTTATACCACAAGCCTTTAAAACATTCCATTAAAAAATTGTCTCCCGCTCATTCATGAAAT
TCTTTTTTTCCTTCAAATTTGCTTACATGCATTAGCTTTGTTTGGATAGGGACTTTTTCCCTTTTTGGCTGGAGTAAAAGAATGCATAAAAGAA
TAGTGAGTAGATTATCTAAATGTACATTCTTACAACAAATGTAATGAAAATATGCCGCGTGGATGAGAGGGAATATTTGAAAACAGAAAGAAAA
ACAGAAATGGGGAGCATTTCAAAATAGTCACCCTGATTATCTTTGTTATGATGCATTTCTTCAATTCTGCATTTATTTAGAACCCTATTGTGCA
GCTATTTCTTTTAGCCACCCTAGATAGAATGTAGGTCAACATCAACATTGTTCCTCATATTTTGTTGGTATTTTAAAAGTTGAAACATTTTGCA
GTTTTTTTCCAGAGCTAGATATTCTTAGGTTATTTAGACGGTTTTAGTGACCATAGAACTTCACGTATAAACTCCTTCTGTTAATAGCTACCACT
GAATTTTGATAGTAGACACTCAGATCACACCTTGACCTGGAGTAAACAAGGCACTGATGATATTGATGATAACATAGTCCAACACTGAAGCTGT
TCCACTTCTTCCAGGCAACTCTGATGGTCTTACTCTGTGTAAGTTACAGCTTTTACTTCGCTCAAGGAGAGAACTGGTAAATTTTTATGGTTGT
TAATTGTTTACATTTTGGGGACCCCAAGTTGCATGGTGCCACATTATTATAATGTGATTATGAGTTGGCATGATTTTAAGTCTACCCATATCCT
TGAATGTTCCCTCCCCGTCAGGATTTCCCAATCTCAGCACTATTGACATTTTGGACCAGTAATACTTTATTATGGGGTGTGTCCTGTACGTGGT
AGGATCTTCAGTAGCATCATTGGTCTCACCCACTAGATGCCAGTAGCACCCTCCCCCGGGTCATGACAACCAAAAATGTCTACAGCATTGCCAG
ATGTCCCCTGGGAGACAAAACCACTCTGGTTCAGAACTTCTGCTCCACATTTCTTACTCTGGTTTAGAAGCTCACGCTTTACGTCATGAGCTGG
CTGCTCAGTTACTTCTAAGATTGAATTAAAGGATATGAAATAATGTTTTAAGTTGGAATTCCAAGTTAAGTAAAGTTTTTGAAGGTGCAGGCAA
GAGTACTTTTGAGTATGGTTATGCAGAACAACCTCTCTCTTGGAATTGCGACCTTAGCAGGTGGATCCCCTCAGGACTCCCTTACAGTGAGTTT
CCCAGTGCTGTTTAAGAGGAAATGACCCCACCGTCTGAGCCGAGGGAAGTCGACATTAGCAGAAAGGGAACTTCCCCTCAGTCACCTGAGCAGA
CAGCCTAGGCCCCAGGCTCGCTGCCTGTATATCCAGCCCCAGAAAGAGGGCAAGGCAGCAGCCACAGTTCTTTCTTGGGAGCACAGCTGACCTC
CTCCCCATTCCAGCGGCTGTGGTCTCAGAAGCTGAAACTCTCGTTAATAAGGAATGTGGAGCTTTCCACAGCTAAGGCAAGCATAAATTTCCTC
TGTTTGTTTTGTGAGGACTAGTGTCAACTGCTGTAATGAGATCAGAGAGGACCCCAGGGTCAGCTGCTGGAACTGCTTTCTGTGGCTGTTCTCT
TGGCTGCTTGCTGTCGGAGAACGCAGTGACTCCCTGCAGACCTCCCTGATGTGTTAAGGTGGTTGTGCCCTTGTTGCATTTCTTGCTGTCTTTG
CTTCTCTCATTCTACTAAAACATCAGTGTGCAGTCATCCAGTTCTAAATTATGGAAAAGTTAATGGAAGGCAGATTCCTTTCCACAGAACTGAG
GGCAGACTTGGGTGTGGAAAATGCAGCCTTGGGAAGGAAGGTGACCTGTTTCCTTGGGGTAACTGCCTGGACCTGCTGCTTCTGGCTAAGGGTA
GGTTTCTCAAGGCCTGGGCTACCCGTAAGCACTTTCTACCCCCAATGGCACTCTGTAATGAGGATGAGTTAGTGAAAGAGTCACAGCAATTAGC
TTAGGCTACAAAGAACATAATTCTAGTTGTAGCCTAAATGACAGCTAGAATTGGCTACATATGGAACCTAAATATGGCAGAATTGCATTTAGGG
AACCCAATTCTGGCAGAATGGTATACTGAGCTCATGCAGCCTGGCCTACTTCTGACCACCCACCCCAAAAAGTCCTAAGCCTGGCCTACTTCTG
ACCACCCACCCCAAAAAGTCCTAAGGTATTATATTGGTTAAATATTTTCAAGTACATACGAGCTTTAAAGCAGGACAGGGAAATTCTTAGGTGC
CAGAAGACATTGATGCCACTGGCCTTAGAGTGTTTCAGACCCAGCTGTAGGCTCTAGGCTCTAGGGGCTATGGTGTCTATACTCACACAGGAAT
TGCTTGTGAAAGGGGGGCAAGAAGATTTTCCCCAGTCTGTTTGGGGCTTTAAGTCTGTGTGTTGGGGCACAGACCAGGGGGATGGAAACCCAGG
GTTACACTGTTTGAATAGCTCTGGGGTTCATAGTTACACTACTACCTGCATGGTATAACTTCAACTGTTTTGGCAGAAACTGGTTTGAGAGCAT
TGAACGCCCTCAGGCCATAGTGGAGGCAAACACTAGATCCCTGTGGAGAGGCTTAACAACCTGGGACATGGTACTCCCTCAAAAAGAATAAGCT
GCACTAAGGAGATGCTGATAATAAGTACAGAATATGGCCAGATACAGTGGCTCATGCCTGTAATCCCAGCAATTTGGGAGGCCAACACAGGAGG
ATCACTTGAGCCCAGGAGTTTGAAACCAGCCTATGCAACATAGCAAAACCCTGTCTCTACAAAAAATTATCTGGGCATGGGTGGTGCACACCTG
TAGTCCCAGCTACTTGGGAAGCTGAGGTGGGAGAATCACTTGAGCCTGGGAGGTTGAGGCTTCAGTGAGCCAAGATGGCACCACTCCACTCCAG
CCTGGGCGACAGAGTGAGACCCTGTCTCAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAGGAACAGAATCTAAGCCCCAGAAAAGCAGAGGTTAACA
GTGAACCTTCAGGCCAACTAGAGTTTTCTTCTGCAGATTAATGAAAGTTTCTTCTCAAGAGGAACAAGGCATATAACCCATTCTGGCTTGCTAA
GCAGTTTCAGTTGTAAGCACTAGCCCCAATTAAGGTAACATCCTACTTATAGCTTGTCCCCAAGATCTTCTTGAGAATATTTTAGTTCCTTAAT
TAGAAACTTTTTATTGGAGAGATAGCTGGCCCCCTTAACGCTTCTTTAACAGTGCTCCCATTGCAGTGGATCACTCTGAAGTAACCCATCAGGC
TGTCTGTTATTTCAGTTTCTCACCAAATCATAGGAAATATGTTTGCCTGAATTGTACAGCAACCCCCTCCCCCCGCCCCGCCAAGGGAGAGGGA
AGTTGAAATTATTTGGAGGGGTCTGGGATTCTTTCAGCATAAAATCAAAGAAACCCAGGTAAATAAGACATGGTTAGTAAACATTTGTTCTAGA
TGAATATAATTCAGCCTTCTCAATCCAAAGTGAACAAATGGATCAAGAGTTGCCTGGAATAGCCACTGTGTACTCCCTTTGCAGTGACGTGCAC
TATTGGCAAACATGAGTTGAGAATGCTAAACTTAATGCATGATTCCTTAATTTATTAATAGGACAATGAAATCTCTTTTGTTTAGTTTTTTTTC
TTCTAAAGTGCGCAAAAAGCTGTCACCAGTAGTACCCAAATAGTGCCTTGCTGACCTAAAAGTGTGCCATGCTTCTTAAGAAAAAACTTCAGTA
TTTATTCTTAATTTGGACTTCTATAAAGTTTAATTTCAAAATATTCTGACCAAGCGAGAAGTAGATATGAATATTGACATTAAAGCATCAGAAG
AGGAGAGAATGAAAGGAAATAGGTTCAACTGGTGCCAGACTTACAGGAGATCTTCCCAAACATTATAATTAAATTTGGCATATATTGAGTGCCT
ACTGTATGTATGTAAGGCAGCGGGATAGGTGCTGGGTATTTGGGTACTAGTACAAAATAGACAAGATCTCTTCTTGTGAAATGCTCAAAACAAT
CCTCAAAAGAATCTCCAGAGATATAAAGAATTTCCCCCAGCTTTAGGGATAAAGGAACAGAGACTGAGAGAGAGCCAGTAACTTGCCAAAAATC
ACATTCCGAGAGGTGGAGTTGATATTCAGACTGACTTGGCCCCTATCTCTCTTTGCCTACTCTTCTCCCTGGCTTTCTGTGGGCAGTGAAGCCC
TAGCAGTACAACCCAGAGGGGCCAAGAGGCAGGTAGAGAGTTTTCTCTCCCGGAGGTTTACAGGAACAAAGAATCCCCTGACTGACATGGAAGG
TGTGCAGTAGAAGAGGCAAACTAGCCAACCAGACCCAACTCCTACAAAATTTCCAAAGTATTAGCATGAGTTTCCAACATTAAAACAGCAAATT

ATTTTACACAGTCTCTCAACTCCGTTTCTTGAGTATCAGAAGCTCTTGGCACATGGGGCTTGTTCCTGCTTTGCTGGGGCTAGAGCTGAGTAGC
AGACTCCCCGGATGCCCCATTCCTCACTGTCTTCCCAGACCTGACCTTTCACTCATCTCATTCTTTCTTGACCCTTGCAGTCATCTGAATTTGT
GACCCCTGGTTTAAATAGTCACTTAGGCAAGGGAAGTGGGCCAGGCCAAGTAACCTCTTGGGGGCTCCTCTGTGTTGTGCCTTTAAATTGAGAT
AGTCCTAAATCACTGGAGACTGCGATTTACATTTTACAGTGATAGCCCTGAATCTAAAGATTAGATATCCTGACTTATCATTTGACCAAGTGCA
AGAACCCCCTAGCCTGTGTGCCAGAAGTGGGTGTATGAAAGTGATGGACCCTCTACCACTTGTCACTCTTGGCCCTTCCTGGCCTCTGTTTCTC
CCCATCTGGCTCTCAGACTATTTGTGTGCGTGTTACCAACAATGTGTCTCTCTTTTATAATTTATAATCCTCTTGTTTCCTCCTCTTTATTA
CCATTTCCTATTGAACCATAACTCATATATTAGTTAAAATTTCAGAACATTCATTTTCAAATTACCTAACCTATCCTTGGGGAGGAAGGCTGTT
GTTGATGCTTGATGGGAAGATGCTCTTGTTGTTCTGGCTTAGAATGTCTGTTTTCCATGGTATGCTGTGAAGGCAGCGCACAGGGGAGCAAAGC
AGAATGGCAAACGTCTGGTCTCTTGGGGCAGAACCATGTTATAGTGTGTTTGCTGCCTCCATGTGGGGTGGCGAGGACACTGAAGTCATGGAGA
ACCACAGCCACACATCTGCTGTAACTTTGAGGATGGAGAGGGACCTGCAGGAATCTCCTTGGCAAGCTCCACTCTGTTCCTCTTGCCTCTTCTT
TAGGAAGCAGGGAATGAGCCAGCCACTTGGAAAGAAGGTGTGTATGCATTGGGGGAAGGGGGCAGGAGTCTAGTTTCTTTGCCTTTGGATCCTT
CAATCCCAGCACCATGCCCCCTATGGTAGAAGGGAGGGATTAGCTTTCTGTAATAAAATGACCTTATATTTTTTCAGTTGAAAGTCTCCAGTTG
AAGATTGTCCAGACTTAACTTCAAAGCCATGTGAATTACTCCACCCCTTAAAATAGAGTAGAGGAAATTTGGGATATTGCTCTCACCTGTCCAT
CTGATTTCCCAAGTTTCTAAGTCCTAGATGCAAGAGCATTTTTTTCTAGACTTCAGAGCCGGTTCACCTTGTATTACTTCACTTACTCCTTCTC
CAAAAGCTCTTGGGCCTGGCATAGGCCCTCATGCCCCAGCCCTCTGCCTAAGCTGCTGGGCGTGGTGGTGGGAAGGGTAGGAACAAGAGTCCAT
CCCACAGACTGGCCTCATGGTACGTTATGTCTAAAAGCTAGTGAGACCTTTAACACTGCGAAGAGTGACCTGCTTGCTCTTGTTGGCCTATCTA
TCTCCCACAGGAGTGCCTGAGCTACCCAGCTTTGACATATATTACTGAAGGCTTCTAGAATGGACATCATAGAAGGGGGTGGGAGTTGGAGTGG
GGAGAAAAGCCCAACTCACCATATTCCATTCAGTATTTGGCAGTATTAGTTGCATTTTCAAGGGTCAGGAGAGCACACACACACACACACACAC
ACACACACACACACACACACACAGCCCTTGACACTTTTAAGCTTCTCTTTAAAGAGCATAGGATTAAAGGTGGCTTATGTTATTCTCAGCATAC
CTCTATACCACATTAACAGTGATCCAGGTAAAATAGGCTTCTCTCCATGGTAGATGGAGGTTGATGGTAAATAAATAGTGGTGAATCAGGTACG
CCTGGTGTTTTCTCCAACTCCCATTTGCTGACACCCAAGACATCAGAGTATAACCCTCAGAGAAGCCATAGGATGTGGAATTGTCACCAGGAGC
CCAAATCTCTGGGTCTCTTCCATAGCGAGGACCTGGCTGGTGAGGGGCACTTGGCCATGTTACCAAACCTATCTCTGAGTGTCTTTGTTTGCTT
GCCGCCCTTTGTTTTTCTCCATTCTTTATATCTTTCATCTTTTCTTGTCATTTCTCTCTTCTTCTTAGACTTACTTTGTCTCTGCCTTTTTTTT
TTTTTTTTTTTTTTTGAGATGGAGTCTCCCTCTGTCACCCAGGCTACAGTGCCTCTGCCTCCTGGTTCAGGCTATTCTCCTGCCTCAGCCTCCT
GAGTAGCTGGGATTACAGGCCTGCCCCACCATGCCCAGCTAATTTTTGTATTTTTAGTAGAGATGAGGTTTTTCCATGTTGGCCAGGCTGGTAC
TCCTGACTTCAAGTGGTCCACCCGTCTCAGCCTCACAAAGTGCTGGGATTCTGTAATTCTGGACCACCTTTCTTCTTACCCATGCTTCTATCCA
CCTGGAAAGACAAATTATGTTTCATTAACCTTTTAGAAGTCTAAGATTGACCATTGAACCAACTGTTAGGATCAGCTGAGTGGAAGTCACACGG
GCTTATGGGATTAACTTTCTCAAGGCACCCTTTAAAGACGTCTGTAGTTTTCCTTTTGTTCAGTACTAGAGGAATCCAACTTCTTAAAACAATA
AAAAGAAACATTGAATAATAAACTAAAAAAGAAAACATTCTTGATTCCACCATGGTAACTCAGGTATCTTTTTCCCTAATGCTTTATATTTAAG
ATGCAGTCTCCTTTTTTAAGCTGTAGATTTTGCTAAGCTTCTTCATAAACTGAATTGGCTGCAAAACAACCAGGTTCCCTCGATTTCAAAGGAG
ATGGAAAGTACTTGATAGAACAAGGCCAGTCTTTTTGGTTGCTGTCCAGAAGTGAACTGACCCAGTTTCTAAAATTGTCATCTGTTCTCTGAGG
CGTTTTCTGTTAAATGGTGGTCTTGGTGTGTGCATGTGCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTTTGTTTGGGGTGTGTGT
TGTGTTTATTTTTTATTTCTGGTCTTTCACATGCTTTATTTCCATAGCGTCTTGAAATGAAGTCACTTCTAGTCCAGGGTCTATTGCTTATTAT
AGCAAGAACCAGGAAAAATTCTTTTACCTCTCTGTGTCTGGTTTCCAAATTAGGAAAA

HUMAN SEQUENCE - mRNA

GCGGCCGCCGCCCTCGCCACCCCGCCTGCCCACTCCCGCCGCCGCCCCGCTCTCGCTTTCCCCCCGGCCTCCCCTCGCCCCTTCCCCTCCCCCT
TCCCGGCGCACTCGGGGGGCTGGGAACGAGCTGCCATGTGATGCGCGTCCCCTCCGCGAGCTTTCGGTGACCCACGAACTGCCCACCTCGCCGG
CTGCCGGGAGGGGGCTGCGAGCCGGGAAGACGCGGGGAAGAGGAGGCGGAAAAGGACGCAAAGTTCTCCGGCGAGCGCATTCATTCACATAGCT
CCCAGTTTTAACATTTCGCCACCTACTGAAGACATCATTTGGGACCAAGCTGATGAGCCCTTGAAGCACAGCAGATAAGAGTGTTGCTGTTGAT
CATCTTTGCCTGGGAAGTTGAATGATAAAGCCAGAAGAAAGCATGCTTTCTGATCATTTGCAGCTGTCTGCTTCAGAAAGTGAGGGCTCCAGGA
ATGAGGAGAATCTTCAAGAACTTCCTCGCACTGTGACATGTCTGATCCCTTGCTCCCATCCCTGCAGCATGAACAAGGTGGACACTCACTGACC
TGTCACAAGGTTGCCCCACAAAACTTTGGGGTCCATGTCTGAATGGATTGCCAGAGCCTTCTCATCTCTCCCTTCGCCCAGTTCCCTGCATCCT
AAGACTCGAAGGCAGCACAGGACCTGGAAAAATTACATGGTGTGAACGGCATGTCTGTGGATGAGAAGCCTGACTCCCCCATGTATGTGTATGA
GTCCACAGTCCACTGCACCAACATCCTCCTGGGCCTCAATGACCAGCGGAAAAAGGATATTCTCTGTGACGTGACTTTGATCGTGGAGAGGAAG
GAGTTCCGGGCCCACCGGGCTGTGCTGGCCGCATGCAGTGAATATTTTTGGCAGGCGCTGGTTGGACAGACAAAAAATGATTTGGTGGTCAGCT
TGCCTGAGGAGGTCACAGCCAGGGGCTTTGGGCCGCTGTTACAGTTTGCCTACACTGCCAAGCTGTTACTCAGCAGAGAAAACATCCGCGAGGT
CATCCGCTGTGCTGAGTTCCTGCGCATGCACAACCTGGAGGACTCCTGCTTCAGCTTCCTGCAGACCCAGCTCCTGAACAGTGAGGATGGCCTG
TTTGTGTGCCGGAAGGATGCTGCGTGCCAGCGCCCACACGAGGACTGCGAGAACTCTGCAGGAGAGGAGGAGGATGAAGAGGAGGAGACGATGG
ATTCAGAGACGGCCAAGATGGCTTGCCCCAGGGACCAGATGCTTCCAGAGCCCATCAGCTTTGAGGCCGCCGCCATCCCCGTAGCAGAAGGA
AGAAGCCCTGCTGCCCGAGCCTGACGTGCCCACAGACACCAAGGAGAGCTCAGAAAAGGACGCGTTAACGCAGTACCCCAGATACAAGAAATAC
CAGCTTGCATGTACCAAGAATGTCTATAATGCATCATCACACAGTACCTCAGGTTTTGCAAGCACATTCCGGGAAGATAACTCTAGCAACAGCC
TCAAGCCGGGGCTTGCCAGGGGGCAGATTAAAAGTGAGCCGCCCAGTGAAGAGAATGAGGAAGAGAGCATCACGCTCTGCCTGTCTGGAGATGA
GCCTGACGCCAAGGACAGAGCGGGGGATGTCGAGATGGACCGGAAACAGCCCAGCCCTGCCCCTACCCCCACGGCCCCAGCTGGGGCCGCCTGC
CTGGAGAGATCCAGGAGCGTGGCCTCGCCCTCCTGCTTAAGGTCTCTGTTCAGCATAACGAAAAGTGTGGAGCTGTCTGGCCTGCCCAGTACAT
CTCAGCAGCACTTTGCCAGGAGTCCAGCCTGCCCTTTTGACAAGGGGATCACTCAGGGTGACCTTAAAACTGACTACACCCCTTTCACAGGGAA
TTATGGACAGCCCCACGTGGGCCAGAAGGAGGTGTCCAACTTCACCATGGGGTCGCCCCTCAGGGGGCCTGGGTTGGAGGCTCTCTGTAAACAG
GAGGGAGAGCTGGACCGGAGGAGCGTGATCTTCTCCTCCAGCGCTTGTGACCAAGTGAGCACCTCGGTGCATTCTTATTCTGGGGTGAGCAGTT
TGGACAAAGACCTCTCTGAGCCGGTGCCAAAGGGTCTGTGGGTGGGAGCCGGCCAGTCCCTCCCCAGCTCGCAGGCCTACTCCCACGGTGGGCT
GATGGCCGACCACTTGCCAGGAAGGATGCGGCCCAACACCAGCTGCCCGGTGCCAATCAAAGTCTGCCCTCGCTCACCCCCCTTGGAGACCAGG
ACCAGGACTTCCAGCTCCTGCTCTTCCTATTCCTACGCGGAGGACGGGAGCGGGGGCTCACCCTGCAGCCTCCCTCTCTGTGAGTTCTCCTCCT
CGCCCTGTTCCCAGGGAGCCAGATTCCTTGCCACAGAACATCAGGAACCAGGCCTGATGGGAGATGGAATGTACAACCAAGTGCGGCCCCAAAT
TAAATGTGAGCAGTCTTATGGAACCAACTCCAGTGACGAATCCGGATCGTTCTCGGAAGCAGACAGTGAGTCGTGTCCTGTGCAGGACAGGGGC
CAGGAGGTAAAACTTCCTTTTCCTGTAGATCAAATCACAGATCTTCCAAGGAACGATTTCCAGATGATGATTAAAATGCACAAGCTAACCTCAG
AACAGTTAGAGTTTATTCATGATGTCCGACGGCGCAGCAAGAACCGCATCGCGGCCCAGCGCTGCCGCAAAAGGAAACTGGACTGTATTCAGAA
TTTAGAATGTGAAATCCGCAAATTGGTGTGTGAGAAAGAGAAACTGTTGTCAGAGAGGAATCAACTGAAAGCATGCATGGGGGAACTGTTGGAC
AACTTCTCCTGCCTTTCCCAGGAAGTTTGCCGAGACATCCAGAGCCCCGAGCAGATCCAGGCCCTGCATCGGTATTGCCCTGTCCTCAGACCCA
TGGACTTGCCCACGGCCTCCAGTATTAACCCTGCGCCCTTGGGTGCTGAGCAGAACATTGCGGCCTCCCAATGCGCAGTGGGGGAAAACGTGCC
CTGCTGCTTGGAGCCAGGCGCGGCTCCCCCCGGACCCCCCTGGGCACCCAGCAACACCTCCGAGAATTGTACCTCTGGGAGGAGACTAGAAGGC
ACTGACCCGGGAACCTTCTCAGAGAGAGGACCTCCTCTTGAACCCAGGAGCCAAACAGTGACCGTGGACTTCTGCCAGGAAATGACTGATAAGT
GTACAACTGACGAACAGCCCAGGAAAGATTATACCTAGTGACTCGGCTCTGCCTCCCAGTCCGCACACCTCTCCCATCCAGGCGTTCTTCAGTC
AGCCTGTGGCACTGTTCATCTGCTGTCCCGAAGAAACCGAGAACACATTTGGTGCACACTACAGCGGTCTTAGCAGCAATACTGTTCCGAAGTA
TCCTCTCCTCTTCTCGAGCAGGAGTGATAGTTACCTTCACAATGGTGCTACCCCTTGCCCAGGCAAGGAAAGACAGCAGTGATGACACTGTCTG

SAGRES DISCOVERY 02-02

TCTGTGGCTCAATTTCAGTCTTCACAGGGATAGACTACAACACCTCTAGGCCCCAACCACGGATTTTTTTTCTCAGTGGCCCATGTCACAAACC
CTATCTCAGGAATTTCTTCTGAATGTTCAATTTTTTTCATTGAAGACAGCTTCTATACACATCAAAGTTTTATAGCTAGACTGTACATATTATA
TATAATATATATATAAAAAATATATATATATATATCCATATGCAAAAGTCCTGCATGCCTCAACTTTCTCATCCTAAAACTGGAAACTTA
TTTCTCATTTAGAAACAGGTTCCAACATTCCTCTTCTTTTGTCTCTGATGCTAGAACTAGTTTGGTAACTGTTAACGTGGTCATTTTTCTTGCT
TCACAGTTCAATTTTCAATTCGTACTTATTTATGGACAAAATTCAGTGTTGGAAGCTTTTTCCCAAGGTTTTATTTCAGATTTCTTTTTCGTTT
GGTTTGGTTTTGGCACCTCCAAGTGGTGTCATTTGAGCATTGTAGGTTTGTTTTTTGTTTGTTTGGGGGGTTTTGTTTGTTTTTGTTTTTGTTT
TTGTTTTCCTTGCAGATACTGTACAGTAATGGTCAACTTTGCCACTTGCACTGAGTTTTGGGTCAAACCTATTTTCTTAAATGAAGTTGTAACT
TCGGTATAACTCAAGTATACTGTATATTCTTTGCTTTTAGTTAAAAAAGTAAAACATTTTAGCTAATTAAAAAGCACTCAGGTGATAATTATGT
AGGAAAAACAATCTTGCCAAATAATGAATTCATCCTAGGATGTGTAGACAATAATCTGCTTGAATATTTTTATATTTCACCTCCTCCCCACCTT
TCCCTAAGCAAAGTTTAAACGCAGATAGAGAGTTCAGAGTTGATGCTGGATGTTCAGATTCCTAAGTGGGGAGAGAGTTTGGACATCTCACTCA
AAAGTACATCAGAAAAACAGGAATCCGTGATTTTATACCAGAACTCAGCAGGCATTGGCTCCTAGAAATCAAGTTAGAAAGTTTTCACCCAGGG
AGTAAGTCCCATTCATTTCAACACGTCCTGAGGCCTCGGCTTGCTCTTGGAAGTGGTGTGCAGTAGGACCTGCTCCCCTGAAGGACGGGGCCAA
CCAGCCACTGGCTTTCCTGCCCAGGCTTGGCCTCCCAGGACATCTGGCCTGAGGGGATTTGAATCACAGCCCCGAAGGTCCTGCCTTCACCCCA
TTGGGAGAGAGCAGGGCATCCTGGCATCTGCGATCCATCCCTGACACAGGCTGACACATTCTTTCTCCTTTCCTTCTCCAAAGGCTTGGAGTTT
TCTTCTGAGGTTTTTCTGCCAGTGTCTTGTCTGAAGGCAGACTTCATTCTGAGGCTTTGGACAAGCTATTCACCGGGAACCCTCCCTGTCCCCT
TCCCGAATCACACACATACCCTACCCTCACCTGATGATAATTTTCTCTTCTTGCTGCAAAACTGGTTGGCTTGCAACCCAGAGAGAGCAGCTTC
CCTTGGCTCTGGGGGCCGTGTTGGCCCCAGCCACGTTTACAGGAAGGTGTGCCCCAGAGGAGGAGGAATCAGCTCCCTCGCTCCAGTGGCCTTG
GGTCCGGGTCTCACTGAGCAGCCCGAGGGCCACTCCAGCCCGGCTGGGGAAGAGAGTCCTGAACGGTTTGATGTGGGGATGGGGTGGTGGGCAG
TGGGGAATAGATGGTTGACTTTGTTTCTTTATTTGTGCCATTGTTTGGACAATATTAAAGCTGCATGTAAAAGGGGAAATTAGTATATGATGTA
GGCTAAAAGTGAAATCATAGTAACATATGTTTTAGTATTATTAACTTTTTTCTGTACAAATATTAGCACTAAATGTTTAAATATGTATGAATGC
CAGAAATTTGTCAGTTCATGCAGTAGGATAAAAAAAAAAAAAAAAAAAAAAGGGCTTTTCTTTTTAAACAGTTCCACTTTTAAAACCTGCCTCT
GGGTTTTTGTTTTTTCTTGTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTCTGAAACAGATCTTGATAAAGCTC
TGTGTTGGAGCTGCTGGTTTTTGTTATGGTTGTTGGAATTTCTTGGCCTACTAGGACAGTTCTGTGCTTCACCATGAGGTTTGCCTTTGTGGAA
AACTCGTGGGTGACAGTGAGAATATAAACTCAATGTGAATCACGTGATACTTCGGCAGGCGTGTGTTACAGTGGAGTCAGCTGACAGTATTTTG
CTTTTTAACTCTATTGTTGCCTTTCCAAGTGACCTCTCCTCTTCTTTTAAAAAAAGAACACTTTCTGCTCATATCATAACCAGGTCCAACCCAG
CTTCTTGGCATGAGGTTTACCCTGGTAACAACTCATGTGCAACTGGTAGTCTTGACCACATTCCATCCATTTCCTCAGGTTTCTGTGGTTCAGT
AGCCCAGACCTGTTTGGCAGCCATTTCTAGCAGGGGCGGGGCCTCTTTATTTCTCTCCACCCTAACTCAGACCTCACCTTCCTCCCACCCACCC
CTGCCTTGCTTTTCTTCCTCTTCCCCCAACCTAACTTCTGCCATGGGAACTGGTTAAAAACACTGCTCTAAAAACCATCTTCCAATTTCATAGA
GATTTCTCACAAGTTATTTCATTCATAATCCACCATGAACAGTGACTAGCTTCGTGCAGTTGTTCATGTGATGTGTGTGTGTCTTTTCCTATTC
AGAACTATGTGCTTGTCAAAATTATTTCTGGGTTGATTCAAAGGGAGGACTTGCTGGGGACCAGAATCCAAACGGCCTCAAGTGGAATTTTAAA
ACCTAGCCTGTCTCTTTTCCCTGGGATCCCTCTGTCAACCCCACGCCTTTTAGGAAAAAGAAAAGTGAGTGAACAGCAAGGAAGAGTGTTTGCA
CAGTACAGTAACATTTGGTTGTTCTTAAGGCTCTTTTCTTACAAAAATAAGAGACCCTCCAACCACGGGCTGTTTAGGAGGATGCCTGCTTGGG
TCTCCAAATGGCTGGGGTAGGAATGGTTGTTGGGGCAGAGCCAGTGGAGGTGAGTGACCCTGAGACTAATGAACATCCCACCTAAATCCAGTCC
TCCCCTTGGATCTGCCTTTGTCCTGCTTGTGTATCCAGGCAACCTCTTTTCAAGTTGGTCAGGCTTTGGACAGGTGAGTGATTTGCTGTATGTG
TTTGTTTCTCTGCGTTACCTGGGGGTGCCTTGATTAAAATCGAACTTTATTACATACTGATTCTGGAACAAAACAGTTAGAAAAACTTTAAACT
TTAAAAAAAAAAAAAACCGACAAAGTTACGAGGCCATCCTGCTATTTATCTTCTGAGTTCCCAGCAATGACTCAGGCATCAGAGATGATGCTGCA
GTGGAAAACCTGACTCTGTGTGTCTGCAACTGAATGTTGTGCGAGTAATTTATTAACTGTCTTTCTAAAGGTTTGCTGCTTTTAAGATGCACTA
TAATTCGGGATGTAATCCTTACATTGCTTTTCCAAGGAAGGGAACAAAAGTCTAGTGATTAGTATGCCAACTGCCACTACTCCTTCAAAAGGAG
CCAGGACCAGCGACAAGACTCATGAGAGGACTGGCTAAAGTGAAGTGTGCACAGTGTGAAGTTTAATGCTGTTGTCAAGAGGCCTAAACCCACA
TTTTCTCTTTTAATATTTTATGATTGCCATCAAAGAAGAAGAAAAAGAAGGAACAGACAAAGGTTTGAAAATGATAAGCCTGTTAAGACACCAA
AAACTCCTGTCCCGTGAAGCTGCTTGACATCCTGTGGAGTAGCATAATCCTCTCAAAATGAGGAAGAGCTGCCTGCAAAGCTTTCTCAAGTCCC
TATTTGGCTACCTACTTCTCTACATTATGCCCCATTTAAACTAGGAGCTGTCTTAGAAATGACTTCAAACTGCTTCACTATTGCTTACAGTTTA
GGAGGAGTCTCAGATCCAGAAGGAGCAAGAATCAAGTTTGGTCCTCAAATGACTGTAAATAGACTAAAGAACAAGGTGTTTTTTGTTTTTGTTT
TTGTTTTCTAAGAATAAAGCTGTTCGTTGTATCATGAGTTAGTGTTTCTTCCCCAAACTGAAGACTGTGTTGGAAGTGCAATTTCTGGTGAGTC
AGTCCACAATACAATGCCCTGTGTGGAGTTGGTATTCATACAGGAAATCTGTGTGCACGAGGCATTGTGTGTTGAAAGTGTATGTTTATAGTAC
TGCCTGAGCCATCTCATGACCCCAGCGTCCAAAACCGATGCTGTAGAACAGAACATATCTGTCACAAATAGGTGTGTGCAAATAGCATTTGTAC
ATAGAAAAGTCTCATTGTGGCAGATTGAGCATAAATTATTCAACTGACGGTGCAAAAACATTACTTGCAAAGAAAAGTTTATAGTATTTTCCTA
CACTCCACCCTGGGAGATGATATTTCTATCAAATGAATATCAGTGCATTTTAAATGTAATATGAAAACGATGCTGCCATTTTGTGAAGAATACC
CACTTGGTTGCAGAGGCCAACTTTCATAGCTTTGATTTAATGTTGTGACACGGTGTATGCATTTTGCTGTCAAGCAATGGATAAACAGCTCTGA
CTTTCATTCTCATTCCAGTTTATTGACCTCAGATAAAACACTGGCCCTTCTTAGAAGCAGAAGTGTGCACCAAGACCATTCATTTCAGGTAGAC
TCACATTCAGTGCCAAGTGCTCCCATGGGAATAATCAGACGCATATGTTGCGAAAGAGTGAAGGGACTTGGACAAAGAGGGGTTTTCCTACAGA
TGGATGCTCAGTCTTCTACCAAAACATGTTTGGAGGCAGAACTATGACCTCCCCTTAAGTCCTAACAATGTATTTTGTGTGTGCAAATCCTGGG
ATGCCCGTTTCACGCTCTGACATAAAGACATGGCACCTCTAGTGAGTGATCAGGAAGATTCCATATGCATTTGGGAGCTTCAGGTGCTTGTTAG
ACACAGTGAGCCATTCAAGGCAAGCACCACCTTTGCTAGTGAGGCCAAGAGAGCCTGTGACAATTTGACAATTTGTTCCAGAACCAGTCTGATG
CAAGTGCACCTCTAATATATGCCTTACAAACTCCAGAGGCCATATTCAAAACAGGGTCTTCTCAGTGTATGCAAGGGGCTGCAGCCCCTCTTCT
CTTCCTCCCCAGGTTGAACAATACGGACAGTTTTCACACATATCTACCTGTATAACCCTCTGTACCTCTCATAACTGGTCAACGACTGTAACAG
GTTACATCAGGTGTTTTTCTACATACTTTTTACACAGATTCTATGCGATTAATGTAATTTAATTCAATGCATCATTTTATTGTACTAGTTCTTA
GGCTTGTCCTTATTTTTTTCTAAGTGATTGTGGTTTTTCTCGTGGTTTTTATTGTAAAAAATGAAAGGCTGTTGATGCTTATTCTCTGTAACTA
AGAATTTTACCTTTTGGGGGAAAAAAGCATTGCTATGAACTAATGGAATTGGAACTTCATTTACTCATTGTAAATACACTATTGTGCAAAAAAA
GTTTTCACTCAATTGAATTGCTAGTGTTAACTGAATTTTGTCTAGACACCATTTCTGTTGATGAAATAAAGACATATCATTATGCATTGTAAAC
TG

HUMAN SEQUENCE - CODING
ATGAGAAGCCTGACTCCCCCATGTATGTGTATGAGTCCACAGTCCACTGCACCAACATCCTCCTGGGCCTCAATGACCAGCGGAAAAAGGATAT
TCTCTGTGACGTGACTTTGATCGTGGAGAGGAAGGAGTTCCGGGCCCACCGGGCTGTGCTGGCCGCATGCAGTGAATATTTTTGGCAGGCGCTG
GTTGGACAGACAAAAAATGATTTGGTGGTCAGCTTGCCTGAGGAGGTCACAGCCAGGGGCTTTGGGCCGCTGTTACAGTTTGCCTACACTGCCA
AGCTGTTACTCAGCAGAGAAAACATCCGCGAGGTCATCCGCTGTGCTGAGTTCCTGCGCATGCACAACCTGGAGGACTCCTGCTTCAGCTTCCT
GCAGACCCAGCTCCTGAACAGTGAGGATGGCCTGTTTGTGTGCCGGAAGGATGCTGCGTGCCAGCGCCCACACGAGGACTGCGAGAACTCTGCA
GGAGAGGAGGAGGATGAAGAGGAGGAGACGATGGATTCAGAGACGGCCAAGATGGCTTGCCCCAGGGACCAGATGCTTCCAGAGCCCATCAGCT
TTGAGGCCGCCGCCATCCCCGTAGCAGAGAAGGAAGAAGCCCTGCTGCCCGAGCCTGACGTGCCCACAGACACCAAGGAGAGCTCAGAAAGGA
CGCGTTAACGCAGTACCCCAGATACAAGAAATACCAGCTTGCATGTACCAAGAATGTCTATAATGCATCATCACACAGTACCTCAGGTTTTGCA
AGCACATTCCGGGAAGATAACTCTAGCAACAGCCTCAAGCCGGGGCTTGCCAGGGGGCAGATTAAAAGTGAGCCGCCCAGTGAAGAGAATGAGG
AAGAGAGCATCACGCTCTGCCTGTCTGGAGATGAGCCTGACGCCAAGGACAGAGCGGGGGGATGTCGAGATGGACCGGAAACAGCCCAGCCCTGC

SAGRES DISCOVERY 02-02

CCCTACCCCCACGGCCCCAGCTGGGGCCGCCTGCCTGGAGAGATCCAGGAGCGTGGCCTCGCCCTCCTGCTTAAGGTCTCTGTTCAGCATAACG
AAAAGTGTGGAGCTGTCTGGCCTGCCCAGTACATCTCAGCAGCACTTTGCCAGGAGTCCAGCCTGCCCTTTTGACAAGGGGATCACTCAGGGTG
ACCTTAAAACTGACTACACCCCTTTCACAGGGAATTATGGACAGCCCCACGTGGGCCAGAAGGAGGTGTCCAACTTCACCATGGGGTCGCCCCT
CAGGGGGCCTGGGTTGGAGGCTCTCTGTAAACAGGAGGGAGAGCTGGACCGGAGGAGCGTGATCTTCTCCTCCAGCGCTTGTGACCAAGTGAGC
ACCTCGGTGCATTCTTATTCTGGGGTGAGCAGTTTGGACAAAGACCTCTCTGAGCCGGTGCCAAAGGGTCTGTGGGTGGGAGCCGGCCAGTCCC
TCCCCAGCTCGCAGGCCTACTCCCACGGTGGGCTGATGGCCGACCACTTGCCAGGAAGGATGCGGCCCAACACCAGCTGCCCGGTGCCAATCAA
AGTCTGCCCTCGCTCACCCCCCTTGGAGACCAGGACCAGGACTTCCAGCTCCTGCTCTTCCTATTCCTACGCGGAGGACGGGAGCGGGGGCTCA
CCCTGCAGCCTCCCTCTCTGTGAGTTCTCCTCCTCGCCCTGTTCCCAGGGAGCCAGATTCCTTGCCACAGAACATCAGGAACCAGGCCTGATGG
GAGATGGAATGTACAACCAAGTGCGGCCCCAAATTAAATGTGAGCAGTCTTATGGAACCAACTCCAGTGACGAATCCGGATCGTTCTCGGAAGC
AGACAGTGAGTCGTGTCCTGTGCAGGACAGGGGCCAGGAGGTAAAACTTCCTTTTCCTGTAGATCAAATCACAGATCTTCCAAGGAACGATTTC
CAGATGATGATTAAAATGCACAAGCTAACCTCAGAACAGTTAGAGTTTATTCATGATGTCCGACGGCGCAGCAAGAACCGCATCGCGGCCCAGC
GCTGCCGCAAAAGGAAACTGGACTGTATTCAGAATTTAGAATGTGAAATCCGCAAATTGGTGTGTGAGAAAGAGAAACTGTTGTCAGAGAGGAA
TCAACTGAAAGCATGCATGGGGGAACTGTTGGACAACTTCTCCTGCCTTTCCCAGGAAGTTTGCCGAGACATCCAGAGCCCCGAGCAGATCCAG
GCCCTGCATCGGTATTGCCCTGTCCTCAGACCCATGGACTTGCCCACGGCCTCCAGTATTAACCCTGCGCCCTTGGGTGCTGAGCAGAACATTG
CGGCCTCCCAATGCGCAGTGGGGGAAAACGTGCCCTGCTGCTTGGAGCCAGGCGCGGCTCCCCCCGGACCCCCCTGGGCACCCAGCAACACCTC
CGAGAATTGTACCTCTGGGAGGAGACTAGAAGGCACTGACCCGGGAACCTTCTCAGAGAGAGGACCTCCTCTTGAACCCAGGAGCCAAACAGTG
ACCGTGGACTTCTGCCAGGAAATGACTGATAAGTGTACAACTGACGAACAGCCCAGGAAAGATTATACCTAG

TABLE 3

MOUSE NOMENCLATURE
ICSGNM Wnt1
Celera mCG18420

HUMAN NOMENCLATURE
HGNC WNT1
Celera hCG41496

MOUSE SEQUENCE - GENOMIC

TGAATGCTTGAGATAACCCAAATGCATGCTCCACGCTCGCGCGCGTTTGCTGCACAAGAGATGAGGGAGGCCTGAGAGGATCCCAAAGTGAGCCCA
ACTTCAGGATAGCGGGGGGGGGGGGGGGTCCTGCTTTCTCCAAGGACGTTCCCACACAAATGTGAATACGCATATGGGCATAAACAAAAAGCTA
CAAAGTGAACCTTTAATTTTTTTTAATGTGTGAACAAAACAACAACAGCAAACAAAACAAAACAAAACAAAAAAAAAAAAAAGAAAGGCCTCCC
CAAAACAAAGAAGACCCAGCAGATGAAAGAAAGTGTTTGCTGACTGGGGCGTGGTGGCACACCCCTTTAATCCCAGCACTTGGGAGGNNNNNNN
NNNNNNNNNNNNNNTGGGAGCCGAGGCCAGAGAGTGGTTCCAAGAGCCTGACCTCGGACCCTTCTAATCTAGCTTGCCTGGTATTGCCAGCACGA
GGAGGCAACACCCCTCACAGGTGGTGGGGAACCCCCTTCTAATCCCTCCCTCTAACCCTGTAAGGGCGGGCAGATCAGTTGTGGGGCCCACAGA
GAGGGAGCGGTTGGTGAGGAGGGATAGAGGGTCTGAGAGAACCGGTCTCAAATGGGTATGTGAGTGTCCCAGGACCCTGCGTCGTGTGTGAGCT
GGCTCCCCCCCCGCCCCTGCCAGACCGCAGCCCCAAGCACAGCATGACTGGCCCTGCGCACCCAAGTCACATAGATCCAGAGCCGACCCCCCAA
GGAAACAGAAGCACAGGGCTGGTACCCACAGCCACAACCACCTCTTCATTGGTGGTGGCTAGCAGCAAGGCTGGGCAACCAGCCCCTGGTCTAC
ATTCTTGCAAGTCTTGCCTTGTGTTGAAGAGGCATCCCTGGCTAGGTGTCTAGTACAAAGGAAGTTAGGTATCTGGGGTTACTATTGAGTGCTT
CCTTGATGAGGGTGCTGGAGCCCTAAGCTAGACCACAGCGGGAGGTGCTCTTTCTGAGTCCCCCACCTCTGGAGTAGGGAAAAGGCAGCCCAAG
AGCTCCTTCCCATTTAGGGGAAGAAGGCCAAACCATGTATAACTTCTGAGATGGGCCAGCACTGTCTCAGTAACTTCTACCCTACTCCAGAACC
CAGGATCCTCACCAGTGCCCCATCCTCTCTCCTGCCTGTCAGCCTGGGACTCACCCAGGCCCTGGAAGGGTATTTAGCAGATCCTTCATCAGTA
TCTCGAGGATATTCACGTTTCTCCCGTGGCTGCAGTTCCATTCACACGTTGGATTTTGTCTTGTTCCTATTTGTCCCTAATGCTATCTTTACCT
CCTAGTTCTATCATTCAGTCAGATGTCAAGAAGGGACTAGGGCAAGCTGGGGCAGGTAGAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTGCGCGCGCGCGCCATGCTTTTACTCCCAACACTTGGGAGGCAGAGGCAGGTGGATCTCCTTGAATTCAAGGCCAGCCTGGTCT
ACTATGTAGTGAGTTCTGGGACAGCCAGGCTATATAAAGAGACCCTGTCTCTAAAACCGATGATGATGATGATGACGACGACAGCGGCAACGAC
AATAATAATAATAACGACGAAGGTGATGATGATGATGAAGGGGCTAAGGAAGATTATAGCGCCCAGAGGTTCAACTTCTTAGTGGTCTGGGGGC
TCCCCAAGTTGAACTGTCCCAAACCTAAGAACTCATACCGCTGTTCTCTAACCTCTCTGAAGTCTTGCTCTTTGATAAGAGGCCACAGGCAGGC
AGTGGGTGGCCTGAGCTGGCCGAGGGTGCCCTCTTGCCGACCGTCTGGCCTGAGCACTGACCCACAGGCAGCTAGAGGGCGGTGGGACAGGCGG
GGCCTGGAGAGGCCTGCGGGTGCACACCCATTGCCTAATACCCCAAGCACGCAGCCAGCTCCAAGAAAGAGGAGGGGCAGGAACCAGAGAGACC
TTGACAAGGGTTGAGACCTAGATGAGAGGGGGAAAAAAGGGGGGCTGCCATCACTGCAGGGAGGAAATGAGAGCAACCTGGCCCATCTTCCTTT
TGATGAGAAAAGTGGAAGGCCCCTCCGGCCCTTGCGGGGATGGGGAGGGGGGACGTGTAGCAAAACACTGTGGGAAGAACAACGAGGCCCTGAA
GGGCGGGGAGTGTCAAATAAAAGAGTGGGGACCTCTGGAGATGGGGAAATCAAGCAACTGAGGCGGTGGCTAAAGCCGGGCTACACTCGGGAAT
CTCCTCCTCCTCCCCCTCCCCTGATGTTTGCCTTGGCTGGGGTCTTGGGTGACTCATCTGTTGCTAAGCCGCTGATAGGGGCGGCCAGCCCAGG
GAACCCAAATTATAGGCCCTGGAGGGATGGATGCGCCTGCGGCGGTGAGCTCAGCTGTACGCCTCCCTCCACCTCACCGGTCTTCCACTGCAGC
ACCGAAGGCCACCACCCAGAGGCGCCAGAGATGTTGCAGACGAACTACTGGACTCCAGAGAAGCCCCCACATTCAGTAGTAGCCCCAAGGAGTC
TTCTGACTCACCCAAGACAGAATGTTACCCCCTTGTCTACTATAGGTTGATGGATGGGTTACACCCTCCCAGCCCGAGGGGGTAGCGCCTGCCT
GGGCTTCAAAGGCTTGCCCAAGAACTCAGAGCTCTGCTCCAATGTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTATACACACACACACAC
ACACACACACACACGTCTAAGCAAAGCTTTCACCCTCCCCCACCGCCTCCCTCCTAGATCTATTCCAAGGCCTGTGTTTTGCTACAGAGTTT
CTACTTCAATTCTTTAGTTAACTGTAGCCAAAAGTGACAGCAAGCCGCCCCCTGTCCCATATACCTAGAATAAGGAAGTTGAGGGAGGGAGATC
AAGAATTCCAGGAGAGCAGATCTACAGATCAGCATCGAAGAGCTCTTGTTGCTTTTGTAGAAGACTTAGGTTCAATTCCCCAGCGCCCACAAGG
TGGCTCACAACCATTCATAACCTTGGTTCCTTGGGAATCAATAGGTATGAGTGTGGTGCGCATATATACGAGCAGGCAAAACATTGAACTACAA
AGAAAAACAAATCTAATAAATAATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTGAGCCACATGTAACCCAGGCTAGCTTCAAACTCAATATG
CAGTTAAATATGACATTGAACTCTGACCTCTGCTTCTCAAGTGATAGGACTATACATGTCAGTGAACATGGCTTTATCTTCTCTTTATTTTTAC
CATACCTATGGTAAAGCTTAGGACCTCACATATGCTAGGTAAGTTGTGTGTGTGTGCGTGTGTGCGTGTGTGTGTGCATGTACACATACGTGTG
TGAGCACATGCAAAGGCCAGAGGTGGGGATGGGTGTCTTCCTCTATTTCTCTTTGCCCTATATATTTTTTAGTTTTCATCTTATTTTCATTTTT
AATTTATTTATTATTAGTGTGAGGGGTTGTTGAGTGTGCATCGTGGTGACAGCCATTCTCTCCCCTCTGTCCCCACTTCAGCAGCGGTACTCAT
AGATAATAGGGTTTCCCTGTCTTAGATTGCATTCCACCACCAGAGATCAAGAAAGGTACATGTGTGAAAGGTCTCAGTCAGGGTGTTACTGCTG
TGAACAGACACCATTACCAAGGCAAACTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTTTCGAGACAGGGTTTCTCTGTATAGCCC
TAGCTGTCCTGGAACTCACTTTGTAGACCAGGCTGGCCTCGAACTCAGAAATCCACCTGCCTCTGCCTCCCTAGTGCTGGGATTAAAGGCGTGC
GCCACCACACCCGGCTCCAAGGCAAACTCTTATAAGGACAACATTTTTTAAAAGATTTATTTATTTATTTTATGTATGTGAGTACACTGTCCCT
GTCTTCAGACGCATCAGAAGAGGGCATCAGATCGCATTACAGATGGTTGTGAGCCACCATGTGGTTGCTGGGATTTGAACTCAGGACCCCTGGA
AGAGCAGTCAGTGCTCTTAACCACGAAGCCATCTCTCCAGCCCAAAGGACAACATTTAATTGGGCCTGGCTTACAGGTTCAGAGGTTCAGTCCA
TTATCATCAAGGCAGGAACATGTTAGGCATGGTTCAGGAGGAGCTGAGAGTTCTACATCTTGTTCCGAAGGCAAACAGGAGAAGGCTGGCTTCC
AGGGAGCTAGGATGAGGGTCTTAAAGCCCACAGGCACAAGGGCACACTTCCTCCAACAAGGCCACACCCACTCCAACAAGGCCACACCCCCTAA
TAGCGGTACTCCTTGGACCAAGCATATTCAAATCATCAGAGTGACCCAGGCCTCAGTGATGAGGAATTTCTCAGGGACAAAGTCAGGCGACCCA
TCTATAGTGCTCATTCCCTTGAGCCTTCTGTGCAGGGTACTATGTGGAGAAATTCCTAGCTTACGGACATGTGTAGGAAGCTAGGCCATTCCAT
ATTATACCTCAGAAATTCATCTTTGGAGGAAGCAGAGTTCTAGGCTAAGAGAGAGCCTGGGAAAGACATTTCCATTAACAATAAAATAAAATAA
AATAAAATAAAATAAAATAAAATAAAATAAAATATCTCAGCAGCTAGAGGCATGGCTCATCGGTTAAGAGCATCGGCTGCTCTTCCAGAGGACC
TGGGTTCACTTCCCAGCAACCACATGGCAGCTCACAGCTATCTATAACTCCAGTTCCAAAGGATCCAGCACTCTCACACAGATATGCATGTAAG
CAAAACACCAATGCACATAAAATGAAAATAAATTTATCATTTTTAAGACTCCACCAAGCTTCATTTGGGTTGATGTACATCTTGTTCTAAACAC
ATTCACACCTATTGGGATGACTCAGAAAGTTATGGGACCTGTGACCAAATCTATCGACTCGAGTTCCATCCATGGAACCTTTGTACTAAAAAGA
GAGAATCAATTCTTGTAAGTTGTTCTCTGATTATGCATGCTATAGCAGTCTCACTCATTTGCTTATTCTCTCTCTCTCTCTCTCTCTCTC
TCTCTCTCTCTCTCTCTCTCTCCACACACACACAGACACTCAGGCACACACACACAAAGTGATTAAATGTTTAAATTAAGGGCTGGAGAGAT
GATTCAGCTGTTGAGAGAGCACTGACTGCTCTTCCAGGGTCCTAAGTTCAATTCCCAGCAACCACATGGTGGCTCACAACCATCTATAGTGGGA
TCCGATGCCCTCTTCTGGTGTGTCTACAGTACACATATACATAAAATAAACAAATAAATCTTTAAACATTTTAAATTAAACACAAGTGCCCCAG
GAACAGTAACTAAATCTATCAGTCATTTCTTCCTCAGAGTATAGCTTGGCGGGAAAGGCTGATCCATTCTGAGAGTCAAGCTCTTTTAGAGTCA
GACTCAGGGAGTTTAGTCAGAAATCATACTTAAAAAGCAGACGAGATGGAAACAAAAGGTGCCAAAAAGGTGGCAGGCCAGACCTAAAAGTCAC

TTTCTTTCTGTGTCAACTCTGAAAAGGGACCCCAGCCTGCTCTGCTGCATATCAGGCAGCCACTGAGCCACTGACGATGCAGAAAGAGTGTGCA
TAGGCTTTGAGTTCAAAGGGGCTGTCAGGTCTGGGGGAGGGAACATGCCCCTAATCTCCACTGGAGGACTGGAGGAAGAGAGGTCAGAAGTTCA
AGGCTAGCTAAGACCGTATCTTTAATTTGAAGCCAGCCTGAGCTACATAAGACCTTATAGCAACAAATACGCAAACAAAAATCAAAACCAACCA
GGCTAGAAAGATGGCTCAACACTTAAGAGCGCCTGCAGAGGGGTGGGGGTTTAATTCCCAGCACACACATAGTGGCTCAGGGAATCTGAAGCCC
TCTTCTGGCCACTGCGTGAACTGCATGCGCATGATACATGTGCATACATGCACACAAAATACTCAAAACACATTAAAAAAATAAGTCTAGCGGT
GGTGGCACACGCTAGCACTCAGGAGGCAGAAGCAGGCGGATGTCTGAGTTTGAGGCCAGTCTGGTCTACAATCCAAGTTCCAGGACAGCCAGG
CTACTCTATCTCAGAAAACCAAATAATCAAACCAATAAGACTCCTCTACCCCCAAAAAACAAAAAAGCAAAAAATAACAACTGGGTTTGGGTTT
AGCTTTGAGATAAGATTTTACTATGTATCCCAGGCTGGCTATACTAGAACTGGTTACTATGTATCCCAGGCTGGCTATACTAGAACTGGTTACT
ATGTATCCCAGGCTGGCTATACTAGAACTGGTTACTGTGTATCCCAGGCTGGCTATACTAGAACTGGTTACTGTGTATCCCAGGCTGGCTATAC
TAGAACTGGTTACTATGTATCCCAGGCTGGCTATACTAGAACTGGTTACGTAGACCAAGATAGCCTCAGACTCACAGATGTGACTCACTTGCTT
CTTAACTCCCAAGTGCTGGATTTACGACCGGTGCCACCAAGCCTGGTGTCCCCAAGGCTTTTTAATCCTCCTGCCTCAGCCTTCCAGGTTCTGG
GACTGGCAAGCATGTGCCCCCACACAGAGTTGGCCTGGGGATTGTTTATTCTATTTTTCATTAGTTATTATTTTGTTGTTGTTTGAGATGGGAT
CTTTCTACATATCTCAGGGTTGTCTCATGTTTGGAGCAATCTTCTTATATTTTATTGTATGTGTGCCTGCATGTGTGTACATGCGTGTGCGCTC
ATGTGCATGTGCGTATGTGTGTGTGTATGTCTGTGTGTGCATCTGTGTGTGTGTATTGTATGTGAGCAAGTGTGCAAGCTCATG
GAGATCAAAAGACAAGTGTTTAGAATCAGGTCTCTGCTTTCATCACATGGGCCCCAGGGATGAGGCGCAGCTCACCTGGCTTGCCAGCAAACAC
TTGTTTGTTTGTTTGGTTGGTTGGTTGGTTGGTTTTTGGTTTTTTCGAGACAGGGTTTCTCTGTATTGCCTGGCAGTCCTGGAACTCACT
CTGTAGACCAGGCTGGCCTCGAACTCATAAATCCGCCTGCCTCTGCCTCCCAAGTGCTGGGATTAAAGGCGTGTGCCACCACGCCCAGCTCAGC
AAACACTTTCTTTCATCTGCTGGGTCTTCTTTGTTTTGGGGAGGCCTTTCTTTTTTTTTTTTGTTTTGTTTTGTTTTGTTTGCTGTTGTTGTTT
TGTTCACACATTAAAAAAAATTAAAGGTTCACTTTGTAGCTTTTTGTTTATGCCCATATGCGTATTCACATTTGTGTGGGAACGTCCTTGGAGA
AAGCAGGAGCAGGAGTTACAGACAGTTATAAGCTGCCTGACCTGGGTGCTGGGAAACACCTCAGGTCCTCTGGAAGAGCAGTAAGTCCCCTTAA
CCAATGAACCATCTATCCGTCCAGCCTACATTTAATTTGTTTTCTTATTTACTTTGTCTGCATGTGTGTTGTGCATGGGACACTGGATGCC
TGTGGAGGTCAGAGGTCAGTCTTCTCTCCTTCCATCCAGCGACGCTCGGGGACTCATATCCTCAGGCTTGGCAGCAAGTGCTTCCTTGTCCCCT
TAGTCAGGGATTCTCCATGTAGCCCTGGCTGCCCTGCAACTCTCAATGTAGACCAGGCTAGCCTCGAACTCACAGAGATCCATCTGCCTCTGCC
TTCCAAGTGTTAGGGTTGAAGGCTTGCACCACCACAGGCCTTGCTTTGGGTTTTTGAGAGTGTCTACAGAATGCTGGGAGGTGAGGAATAGCCT
TGAACTTCTGATCTTCCTGCCTCCCAAGTGCTGGGGTTACAGTCATGCGCCACCAATTCCTGGCTTTTGCAGTGCTGGTGATCCAAACTAGGGC
TTCATGCAAGCGAGGCAAACACGGTATCCCAGTTCCTGGGAATGTGGCTTTAACATGGATTCATTTATTAGCAGGGACCTGGGACCTGAAGACA
CTGCCTTACCAAGCATCTCCTCTGTGAAATAGAAGAGAGGAGAAATATTAAGATCCTGGGAAGGGGGCGCTTCCCTGTGTGACAGTGGTGCGTG
ATAACCAGGCTGGCAGTGCCCTCTGCATCCCACATTGGGAACAGCAGCCTGATACTCCAAGGCTGCCATGACCCTGAAGATCACTGGAATCAGG
AGGAAAGTAGAATCCACAATGGAAGAGTTAAGGCTCTTGGGTAAGAGTGGGAGAAAATGGGGGTGGGGGGTGGGGACACTGCAGAAACCTGGGA
GAAAAAAAATCCAACTAAAATCAGGAAACACATGGAGGCACAAATTTGCTAATCTTTCTTTAAAAAACTGTTTCAGGAGATTTATTTTATGTAT
GTATGTATGTATGTATGTATGTATGTATGTATGTATGTATACGTGCACCTGTGTGTGCTTGGTGTCAGTGGGGCTCAGACATCACCTGAT
TCCCTGGAACTGGAGTTACAGGTGGCTATAAGCCACCACTTGGGTGCTGAGAACAGAGTCCGGGGCCCTCTGGCAGAGCAGTCAGTGCTTTTAGC
CACTGAGCCATCTCTCATTCCCCCCAATTATGTTCATCTTGAGTTGGGCAGGTACGGTGGCGGAATAGGCCTGTAATCCCAGCAGTCACTGGAC
CATCATGGGTTCTACATATTAAACCTTTATGTTAGGTAGGGTCACACAGCAAGATCCGGTCACAAAACCAGCAACAACAAAACCAAAAGGAGCC
AGCTTCTTCCCACAAGCATTCTTTCCCTCAGGTCTTCAGCTCCATCTGACAGCTACTCGGCTGGTGGTCCTATCCTTTCTGAGCCTAGTTGCCA
GAGAAACAAGCCCGGTTCATCTTCATGACTAGCACATCTAATGATAAGCACAGGTTGACTCAAGGTGCCATAGGGTGACACTAGGTACCCAGAG
CGACAGAATGACACCTATGAGTGCACGTCGTTAATCACAAACACACACACACACACACACACACACACACACACACACACACTCATGCACCCACCTGC
AAACACAATTGCAGCCTTCTGGACGTCCTCGTCACAGCCCCACCTCCTTCCTGATACACTGCGTTAAGTGGTGACTGTAACAAAATGACTTCA
TGCTCTCCCTGTCCTGAGCCAAATTACACAATTATTTGGAAAGGGCTCAAAATGTTCTTCGTTAGAAGTTTCTGGATACACCAATACACAGGAG
CGTGCACCCTCAGAACACATGTACACTTTGACTTAATCTCACGGGTGACACACCGACGCTTACACTCCCCCTAGCCCACAGAGGCAAACTGCTG
GGCGCTTCTGAGTTTCTCACTGCCACCAGCTCGGTTTGCTCAGCCTACCCCTACACCCCACGCCCGGGAATCCCTGACCACAGCTCCACCCATG
CTCTGTCTCCTTCTTTTCCTTCTCTGTCCAGCCGTCGGGGTTCCTGGGTGAGGAAGTGTCTCCACGGAGTCGCTGGCTAGAACCACAACTTTCA
TCCTGCCATTCAGAATAGGGAAGAGAAGAGACCACAGCGTAGGGGGGACAGAGGAGACGGACTTCGAGAGGACAGCCCCACCGGCGCGTGTGGG
GGAGGCAATCCAGGCTGCAAACAGGTTGTCCCCAGCGCATTGTCTCCGCGCCCCCTGGCGGATGCTGGTCCCCGACGGGCTCCGGACGCGCAGA
AGAGTGAGGCCGGCGCGCGTGGGAGGCCATCCCAAGGGGAGGGGTCGGCGGCCAGTGCAGACCTGGAGGCGGGGGCCACCAGGCAGGGGGCGGG
GGTGAGCCCCGACGGTTAGCCTGTCAGCTCTTTGCTCAGACCGGCAAGAGCCACAGCTTCGCTCGCCACTCATTGTCTGTGGCCCTGACCAGTG
CGCCCTGGTGCTTTTAGTGCCGCCCGGGCCCGGAGGGGCAGCCTCTTCTCACTGCAGTCAGCGCCGCAACTATAAGAGGCCTATAAGAGGCGGT
GCCTCCCGCAGTGGCTGCTTCAGCCCAGCAGCCAGGACAGCGAACCATGCTGCCTGCGGCCCGCCTCCAGACTTATTAGAGCCAGCCTGGGAAC
TCGCATCACTGCCCTCACCGCTGTGTCCAGTCCCACCGTCGCGGACAGCAACCACAGTCGTCAGAACCGCAGCACAGAACCAGCAAGGCCAGGC
AGGCCATGGGGCTCTGGGCGCTGCTGCCCAGCTGGGTTTCTACTACGTTGCTACTGGCACTGACCGCTCTGCCCGCAGCCCTGGCTGCCAACAG
TAGTGGCCGATGGTGGTAAGTGAGCTAGTACGGGGTCCGCCACTTGTCCTGGGGCAAAGAGCCAGGCACGGGCCTTACCCAGCTCCCACGCTGT
GGGGATCACCAACCTACAGACCCCCCTCGTGCATTGTGACTTCACATCCAGGGTGCTCACACCTAGAACTAGCTCTGCTGAAGTGGGGGCACAT
CATTGGCATGCAGAAGCCCAGATACACCAGGCTCAGAGACCATTCCCATTTAATACGACCCCGTTTCTGCTGAGCAACAGGTCCCAACCTCGCT
GTGGTGGGTGCTCAGGTGTCCCTTAGGTCTTGAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACCAGATATTAGCTTTGAGGTG
AGGGAGTGGAATTCCTAAGTTTTTCAAGGTGGGCAAGGCTGCAGGTGGGGTTTCTCCTCGGGGGCTGACTTGAAGAAAGGAAGAGCTAAGGTAG
CCATGCCTTTTCTGTCCACTCACTAGACTCTGGAGCTCAGGGCCAGGCAAGGATAGGGTGGTACAGCCTGTATGGTTAGGATGCAGGTCCCCTC
CCCTGGACTGAACCCTTATGCATCCCGCCAGGGGCATCGTGAACATAGCCTCCTCCACGAACCTGTTGACGGATTCCAAGAGTCTGCAGCTGGT
GCTCGAGCCCAGTCTGCAGCTGCTGAGCCGCAAGCAGCGGCGACTGATCCGACAGAACCCGGGGATCCTGCACAGCGTGAGTGGAGGGCTCCAG
AGCGCTGTGCGAGAGTGCAAATGGCAATTCCGAAACCGCCGCTGGAACTGCCCCACTGCTCCGGGGCCCCACCTCTTCGGCAAGATCGTCAACC
GAGGTGGGTGCCCAGGAAAGCGACGCTTCCGGGATTAAGGGAAAAGCAGGGTCATCTCCAGGGCATAGGCGGGCGAAGGCAGGGAAGACATCCC
AGGGTTATATGTGATCAAACTGAGAATCGCCTGGTGCCGGCAGTTACCGTAGGTCAGCACCAGATTCTTTCTAGCCTTGCGTTGTGAGCATGAT
CTTTAACGTTGCTGAGCCACTGGCCCACAGAAAGGAATTCCGGATCGTGGGCGCTGGGCGACAGCTGTTTTTCCCTAGCCTTCCTCAAAGGTA
CCTGGGAAGCTGATCTCTGAGGGCTAGCTAGGGTTGTGCTTCGCACCCAGCAAAGTTTGCACTGCCAATACTAGTAGCGATCTTGGCTATGCAG
ATTTGTTCTACTTGGGAATCTCCCCTTGGAGCTGCTCTGCTAAGGCTCTGGAGTCTCAGTAAAGCTTAGAGAGGAGGGCATTCCATGCTTCGCA
CACATGACTCCAAGGATGTTGGACTGTAGGGTACCAAGTCTTCCAAACAGGGTGCTGAGTTGGCCCCACGCCTTCTCTCAACTGATGCGGGGTC
GCTTCACCCACAGGCTGCCGAGAAACAGCGTTCATCTTCGCAATCACCTCCGCCGGGGTCACACATTCCGTGGCGCGCTCCTGCTCCGAAGGCT
CCATCGAGTCCTGCACCTGCGACTACCGGCGGCGCGGCCCTGGGGGCCCCGACTGGCACTGGGGGGGCTGCAGTGACAACATCGATTTTGGTCG
CCTCTTTGGCCGAGAGTTCGTGGACTCCGGGGAGAAGGGGCGGGACCTACGCTTCCTCATGAACCTTCACAACAACGAGGCAGGGCGAACGGTA
CGTCGGTGTGTCCGGAACCAATGGCAGGGAGATGTAAGACAGGTGCACGGGGACAGAGGCACAGGGAAGGGGCTTCCCGAGAGAGTGGGACTC
TAGGAGGGAAGACAGAGAAGAGGTGGTGGTTGAGGGCAAAGAGGTTCCTGAGCTGATGACAGAACAGAAGAGATTAGCAGGCTATCAACACGTG
GGATGTATTGAGATGGCTCCATGGCACACTTTTGAAAGATAAAAGTGACTTGCTGGCGTGGAGCAGAGTCTGGCCGAATGTCCCTATCTCAGCG
GGCCATTTTGCACTTCCTCTCTCCCGAGCTTAGTCACACCTGGACCTTGGCTGAAGTTTCCACAGCATCGACGTGACCCGGGTGGGGTGGGGGT
GGGGAAGTATGGGTGGTGGTTCGTGGGATGTTGGCTTTGACCTTTTCTTCCCTCCTCCCCTCGTCCCCTCCTCCCCCAGACCGTGTTCTCTGAG

ATGCGCCAAGAGTGCAAATGCCACGGGATGTCCGGCTCCTGCACGGTGCGCACGTGTTGGATGCGGCTGCCCACGCTGCGCGCTGTGGGCGACG
TGCTGCGCGACCGCTTCGACGGCGCCTCCCGCGTCCTTTACGGCAACCGAGGCAGCAACCGCGCCTCGCGGGCGGAGCTGCTGCGCCTGGAGCC
CGAAGACCCCGCGCACAAGCCTCCCTCCCCTCACGACCTCGTCTACTTCGAGAAATCGCCCAACTTCTGCACGTACAGTGGCCGCCTGGGCACA
GCTGGCACAGCTGGACGAGCTTGCAACAGCTCGTCTCCCGCGCTGGACGGCTGTGAGCTGCTGTGCTGTGGCCGAGGCCACCGCACGCGCACGC
AGCGCGTCACGGAGCGCTGCAACTGCACCTTCCACTGGTGCTGCCACGTCAGCTGCCGCAACTGCACGCACACGCGCGTTCTGCACGAGTGTCT
ATGAGGTGCCGCGCCTCCGGGAACGGGAACGCTCTCTTCCAGTTCTCAGACACACTCGCTGGTCCTGATGTTTGCCCACCCTACCGCGTCCAGC
CACAGTCCCAGGGTTCATAGCGATCCATCTCTCCCACCTCCTACCTGGGGACTCCTGAAACCACTTGCCTGAGTCGGCTCGAACCCTTTTGCCA
TCCTGAGGGCCCTGACCCAGCCTACCTCCCTCCCTCTTTGAGGGAGACTCCTTTTGCACTGCCCCCCAATTTGGCCAGAGGGTGAGAGAAAGAT
TCTTCTTCTGGGGTGGGGGTGGGGAGGTCAACTCTTGAAGGTGTTGCGGTTCCTGATGTATTTTGCGCTGTGACCTCTTTGGGTATTATCACCT
TTCCTTGTCTCTCGGGTCCCTATAGGTCCCTTGAGTTCTCTAACCAGCACCTCTGGGCTTCAAGGCCTTTCCCCTCCCACCTGTAGCTGAAGAG
TTTCCGAGTTGAAAGGGCACGGAAAGCTAAGTGGGAAAGGAGGTTGCTGGACCCAGCAGCAAAACCCTACATTCTCCTTGTCTCTGCCTCGGAG
CCATTGAACAGCTGTGAACCATGCCTCCCTCAGCCTCCTCCCACCCCTTCCTGTCCTGCCTCCTCATCACTGTGTAAATAATTTGCACCGAAAT
GTGGCCGCAGAGCCACGCGTTCGGTTATGTAAATAAAACTATTTATTGTGCTGGGTTCCAGCCTGGGTTGCAGAGACCACCCTCACCCCACCTC
ACTGCTCCTCTGTTCTGCTCGCCAGTCCTTTTGTTATCCGACCTTTTTTCTCTTTTACCCAGCTTCTCATAGGCGCCCTTGCCCACCGGATCAG
TATTTCCTTCCACTGTAGCTATTAGTGGCTCCTCGCCCCCACCAATGTAGTATCTTCCTCTGAGGAATAAAATATCTATTTTTATCAACGACTC
TGGTCCTTGAATCCAGAACACAGCATGGCTTCCAACGTCCTCTTCCCTTCCAATGGACTTGCTTCTCTTCTCATAGCCAAACAAAAGAGATAGA
GTTGTTGAAGATCTCTTTTCCAGGGCCTGAGCAAGGACCCTGAGATCCTGACCCTTGGATGACCCTAAATGAGACCAACTAGGGATCCAGGTCT
CCTGAGAGAAAAGCCTGCTCAAAAGCTCCTGCAGGGCTCTTCCTCCTGTTCTGGCAGCAGCTGGTTAAGTGATGAGGACAAGTGTGTCACCTGA
TGGGGACTCAGCACACCAACAGTCCAGCTCTCCTAGTGCAAGAGCTGGGGAGGTAGCAGCAATGAAAGGAAAGGATAGCCATGACTACATCCTG
AGAGGGGGGGGGGGGAAGCTCAAGCAGAAAGGGTGTCATTGCCCCTGGGAGGCTATCAACCTTTTCTGCAGTCTGAGCTTTGAGCAGTGGAAGG
CCCACCTCTTACACTCTTCCTGGAAATTCTTTATTAGCAACCCAACCCTAACCTACAGGTAAGGGACATCCAGGAACAAGCCATGGGTTAGAGC
TGGAAAGATGGCTCAGAGGTTAAGAGCACTGGCTGCTCTTCTAGAAGTCCTGAGTTCAATTCCCAGCAACCACATGGTGACTCACAACCATCTG
TTAATGGGATCTGGTGCACTCTTCTGGTGTGTCTGAAGACAGCTATGGTGTGCTCATATAAATAATAATAAAGAAATGATATTAAAGAAAAGCC
ATGGGTTAACAGTGGGCCCTAAACTTGAACTAGAAAACTTAAAGATGCTCATAGGGAAGAAGAAAAGAGCAGAAAGCTTAGCTTCTAGACAGG
GTAAGGCTTAGAGCTCAATAAAAAAGGAACCCCAAGAGTGATTGGTCCACAACCAAAGCAGTAAGCTAACCACACCCACAAAGAGCCAGAATGA
GGATTCCTTATGACCTGCAGGCTACCTCTGTGCTTGCAGTCACCAGTCAGCAGGAAAGGAATCCTTCTCAGAGTACTCAACCTGACGCCAGTCA
TTTCTTCCTCCCTTCCTTGTCCAACCAGAGCCTTAGCCCTGACTCAGGGAACACTAACCCTTTCCAATACCTGACCTTCATCATAGCCCCTTCC
CACCAGAGAGGACCCGAAAGGCATTGACAGAAGCTACAGAGGACCCCCGCCTTCCCAAGAGCCATAACCAGTCTCAATCAGCTCAGAGAGTTTC
TTCTTCTTCCCAGGATCCTTTGCTGCAGGCTATCACCTCTGGGGAAGGGGGGGGGGAAGAGGTGGGGGGGGAGGGGTGAACTCTGACCCCTGTT
GGTTTTTTGACTCTGTGAGTGGGTAGAGAAGTAGATTCAGGGCCTGCTCAAGCCATTTCCTTGCCTTTCTCTCCACTGGCAAAGCTAGCACTGG
GTCAGTTCTGATGAGTGGATCCAACCTGGGATACTGGATGTCTGGATGTCTAAAAGGTTCTGGGTCTCCAGTGATGATCATCCAGAAGAGCCTA
CTCAGTCCTAACCCAAGCTGAGCTATCAGCCCCTCAGCGCTCCCAAAGTATGAAGCCATTGGGCTGTCCCAGGGCACAAATGTGTGTGTGTCTG
TGTGTGTGTCTGTGTGTGCATGCCTGCACATGCTGTGTTGCACGTGTGTGCCTGTGTGTATGTGTGCATGCACGCATGTGCACATGCACGCTTG
TGTGTGTGTGTATGTGTGTATGTGTGTGCATGTGCACGTGTGTGCACGCATGTGCGAGAGTGTGTACGCGTGGGCTGCTGTAACTCAATGTA
TCAGGGAGAAGCAGCAGAATGGAGGAACCAAACCATCGCCGACCAATCTCACCCAAATCCTAACCCAGGAACCTGGAAACTAGTGTGTCGAGCA
GAGGTGTCTTTCAGGAGTTGGAAAGAGAGCACCACCACCCCCTTTTGCCCAGGTATTTGACACATCTTTTGTCTTCAGTCTTCTCAGTCCCATT
TGCCTTGCTTGACCCTTAATTGAGAATATTCAAATATCCATCTTTGTTGTCGCTTAAGGAGGGGATAGGCTTCAAATGACATAGTGTCTGTGAC
AGCTTGGGTTGTGTGGACGGCTACTGATACCTTTTCTGTACTAGCCTCTGTCAAATGCTGGCAGTGCAGCAATCTACAAGCCAGAGGTCCAGCC
AGGACTCAACCAGGCCAACAAACACTAACAGGCATAGAGGGAAAGACCCTCGGTGTGCAGGAAAGGCTTCAGCACCCTTCTCTTCCAGGGGCTG
GAACTTGGAAGAAGTGTGCCATGGGAAAATGCAGAACAAAGCCAGGGCCCAACACAACATGCACAAATAAAAGGAAACACTTCAGATAAAAGTG
CTGGAAATGTGTGGCGTGATGGTAGAGCACGTGTAAGGACGAGATGGGTTGGATCCCCAGCCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTGTGTGTGTGTGAAGGGGCTGTGGGGTCTACAAGTGTTGCCTAGGAGCTGAGGACTCTTTTGTCCCTATTACCTGTGTTATCTGCGCTGCCCT
CTCAACTGGATCAGTAGATCAGTAAGGAAGGGGGGGGGGAGGTGCGTACCTAGAAAGAGTCTCAGGGCTCAGAACACAAGGCGCTGTCCATAAG
ATAATGAATGTCATCAGAAATATGCCTGACGCACCTTCCTGAGGCTTCCACCCACTCGTGATCTTTAGATGCCATGCAAATACACACCACCCCG
GGGACAGGGACCCTGGTCACAGAGCTGACCTCAGTCAGAGCTGTTGCGGGGACTGAGTCTTGAAATATCCCAGGGGTGGCGGAAAAGCTGAGAG
GACCAAGACAGCCAGCGGGGCTGCACGGTCCCTGGGGGGTCAGCACCGAACACCCTGACACTGGCATCTCGGAAAAACCCTGTCAGTGGTAACT
GCAAATACCAGAGGGTCCAACCCCCCCTTCCTTACGGCCCCAGGCAGGCTCAGTCCCTTGGCTCCAGGGAAGAAAATAAGCTGTCTGGCTGTGG
TGTGAGCAGGAACATCCGTGCAGAGCTGCCCACCAACTCACCCTTACTCAGTCTTTCCACACCATGCCAGGGCCGGGCATGAGACAGACCACCC
CCTTACCCCCTCCCCCGTCTGGGCTAAAAGCAGACACACTGGGTTGGTGAGAGAGCAGCAGGTTATAAATATGCCCAAGGAACTGCCGCCAACT
CGCTCCCCTGTCATCCCCTGGGAGGGGGTAGGGTGGGGTGACACCTAAGGAGGAGCCAGGGCTGCCCTATTCAGTGAGGCCCAGAGAGAAGTGG
AGCCTCCAACCAGCTGCTGAAATATTTATTGATTTTTTTTCCTTTACCTTTCCCAGGTGAATGTGCCACCTTTGACGTGTGCCCTGGACTTTTG
TCTACCCCACCCTCCCTGGTATATGGCCTTATGTCCAGCGTGAAAGGGCTCAAAGCCCTGGGCCATTTCCTTACACCCTCAAGAAAATAGCAGA
CTTTTTAATTCACTCACTGAGTGGACATAGTGAGGTGCGCATGCGCACCTGCAGCCCCGGCGCATGCACACCCTACTCCTGGGTGATCGTACCA
GCTCCAGCCTCTGTTCTGCACGCTGTGCCTTCAACCTGGCAACCTCCCAGGGGAAGGGAAGGGAAGGGAAGAGAAGGGAAGGGAAGGGAAGGGA
AGGGAAGGGAAGGGAAGGGAAGGGAAGGGAAGGGAAGGGANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCTAAGGCA
AAAGGGGCAGCCCTCCTCTTCCAGGGCTGAGCCCCTCCCTTCTCCATCCTCCCTATTAATCCTCGGAAGTGAAGGGGCCGTCCCTGGCGGCCCT
TCAGCCCTATTGTGGCCCCTCGCCCTCCTCGGCTGGCGTCTAATTAACTCCTCCTGCCCCTGGTTTTGTGTGCCCCCCTTACTCCACCTTGTCG
GCCCCGCCCCTCCGCTCGGTCCGCTCCCCCCGACGGACATTCCAGTCAGGCCGGGCCAGTGTGCCAGGGCAACCAGGGCCAGACCGAGGCCTAA
TCCCCCCTCCACCCGGCCGGGCTCAGGGAGCCCCACTCACCTCCCGGCTCTCTAGGGGCTGCTCGGCTCTGCTGTGGCCGGAGACACACAATCAG
GACAAAGGCGCAGCCCCCAGGGGGCTAACTCAGCCTTCACGCCCAGGTTGTGCGGCATTTGGGGAGTTTAATGAATTGTCCATCACGCCTTTCA
GGGCCCGCCCGTCAGCCTGGATTAATCTTCGGAGCCCTGGTGGGGCAGGAGACACTAAGCCTGTATTTATTACTCTCCCATTGTCACTAATTGA
GGTAATTATCTGTGACTCTGGCCTGGCCAACAATGCTGCATTCACTCCTGGGACCTCGATGGGCCTGGCTCCCACTCTCAGCACCAACCCTCCC
TCCCTTCCTCTCTAAAACGCGCCAAGGGCCAAGATGGGCCCTGGAGCATGTTGGGAAAGTGGACAACGTTCCACAATGTTCCACGTTCACGTAG
TGTCTCCCAAAGCCTCCTCCACTATGGAGCAGTGTTGAGGAGAAACCTGGGTCTCCTAAAGTTGGTGAGAGAAGAGGGCACACAGGCTTGACCC
GCAGAAACCCCAGGCCACAGCCAGCCTGGCATGCTTCATTCCTGGGTAAATGGCACTAAAGTCTCACGGGGCCTTTCACATGTCCCTGTAGCCT
ACAGGACTCTGGAGTGCTAGAGGGCACATACTATTCCCTGCTAGATGAGAGGTTCTGGAAGCAGAAGCTACCAGAGTTGCCAGAGCGGCAAAGT
TGGAGAAAGTTAACAAGAACAGGATAGGGCGCAACAGGGAGCAGAAGGGCAGGATGCAGAAGCATCCTAGGAAGAAGCAACCCAAAGTCAGAGC
ATTCCCCAGGGATCACACCAATGTGACCATCAATTAGTGCCATGCAGCAAGCTGGAGAAAAACCCAATTTAGAGTAGATGTCATATGAAGATGG
CCTTCTGGGTCAAGGGAATATTCCTGGAGAACGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTAATGCATGTGCATG
TGGTGTGTGTGTGCATGTGTTGTATATACATGTATGTGTGTGAATTCTTGTGTGTGTGCTTGTGTGATGTGTGCGTGTGTGTGTTTAAGATA
CAATAAAGAAGAGTAGACTTGGATGAGACTTGATTTTGAGATTCTTGATGGCAAAAATTATGTTTTGGGTCACTGTTATTTTTATAAGATCCTA
ATACTTTACCTAGAATGCCAGGCTATATGAAGCCCGTACTTCACAACCGTTGCGGCCTGTCAGATCTTCTCTTAAATGTCTGTCCTCCGGCTCT
TCATTTACCTAGTTCTTGGTCAAAAGAGATGTCTAGAGCATTCCTGGACAGTCCTGTCCTGGATGGACAACTGACCAGCTGAAGCACTAAGGAT

CCTGGTAGAACTCAGCGCCAAAGTTCGAACAGCGCCACCTCGTGGCAAATCTTGGGAGAGCTTCTGGAGACACTAGCTAAGAGGATAGAGCCAG
CGGCTGCAGGGGCTCAGGCTGGACAGCAGCCATCCTCCTTCATGGCTGCGTTGTTGTCTTCCCGGCTTTTATTTTAAATTGTCCCTCCATTATT
TGAAGTAATGTATCGTGCACTTCGGGATGTCATCAAGTTTCCCATGTGCTGAAGATAACAGAGAATACCCGGTCCTTTTGCCTGTACCCCCTGA
GTGCTAGGACTTTTACGGGGCTACCATGGCCAGTTTATAGAGTTTTGGGGATCAACTGTGGGACCTTGTGAATATTAGATGAGTTTCTATCAAC
TGAGTTACATTCTCCTGCCTCACTTCCCTCTTCTTACACAAACCTTTTTGGAGGTGTTTTCCATGCCAAGATTTCGTGGCTACAGAGTCAAACA
TGTAAATCAATGTATGTAAATCATATTCTAGTAACAAATTTCAAAGGGTAACCAAGTCAACAAAGATGCCAGGCATGGTGGCACACACCTTTCC
TCAGAGGATTTGGGAAGCAGAGGAGGGTGGATCTCTGGGAGTTTCCAGGCAGCTTGGTTTAAATAGAGGGTTCTAGGTGAGTGGGGGCTATGTG
GTGAGACCCCATCTCCGATACAGTCCCACCATCACTAACCCACACCAAACCAACCAACCAAAAAGAGAAAGCACAGCAAAGGTCACGATGGAGA
GCCAGGGAAGTATTCAGAACTGAAGTACAATAAGATACTCCCAGCTCAAAACTCTCTGTCATCACTCTTTTGATTCTTCTCACAAAAGATCCTG
TGTTTCTTTAGCCAGAGGCAGAGCCTCATTGCTTTTCCCATGTTGCCTTGGAATTCCTGGGTTCAAGGGATTCCCCACCCACAACCCGCCATGT
AGCCGGGACTACAGGTGTATGCGTCTGCCCCATGTGAAGGTCAGATGCTTGCTTTATGCTTGCCTTCAGTAACCTCTTCGTGACCAAGGCCTCT
TTCTTCCCAGGGCCTTGTTCCCTGTGGAACTCATGTCTTCTCACATTCTGGACGCATCTGTTTCCTCATCATCTTTGTGAGAACTACCTCAAAC
ATCCCTTCTTCAGCTTTCCCTTGGCAGAGTGACCTTGCCTGCCCGAACTCTTGAAATGCTTTGCTGGCCATCCGTGTATGCAGTAGACCAGGCT
TGCACCTGCATGAGGACACAGGTTAGGTGTCTCTCATTTTGCCATCCTTGCTAGCACCAGATAGGGACATTATATGCCCTCATCAAATGATGAA
TAAGTGGATTCATGGATGAAGAAGCAGACGCATGGATAGATGGATATGGAGAGGCACTTGAATGGATGATAGATGAGATGTGGATAGATCAGTA
AGTGCATAGGTAGGATGCATGGATAGATGCATGCATAGGAAGGATAGATAGGTGAGTGGGTGGATGGGTGGATGGATGGAAGGATGACTGGATG
GGTGGATGGGTGATGATTGGATGGATAATTGGGTGGATTGATGGGTGGGTGGATGGATGGATGGTTAATTGGGTGGAT
TGATGGGTGGGTGGAATGGATGGACTGATGGAGCATTTATCCACAGATGACTTGTATATCCTAGTTAATACAAGGAGATTCAAAGAAGGAGCC
TACCCCCATGGCATGCCATGAAGAGGCAGGAACACCCCTAGTTTAAATTTTTCTCTCTATGTGCACCCTTGAAGACTTGTCTCCCAGTAGGCAT
TTGTGGCTATATCCCATTCCCTATGAGTCCAAGTCAAGGAGGTGTCCTCCTCCCACTTCTTTCCATAAAATATGGAAGAGTTCACAAATTTGAA
TGTTGGCCTTGCAGAGGCACTGCGCTAATCTCCTCTCAGCTGCTCCAAATTTAGTGTAAAAGTGATCTCCCCAAAGGTAGAAGGTGTGCCCGAG
TCTCCTCGATGTCCCTGGAACACATGGTTAGTGGGCAAGTGGACAACTGAGTAATTACTGAGAGAATACTACCCTGTCCTCAACGAACACTCTG
TGCACACATCCCAGGACCCTGCATTGAGCGGCTCTCCTCTCTTGCAAACACATCCACATTACTGATCTCTGTTTTGTTTTGTTGTTTTTTGGTT
TTTCTGAGACAGGTTTCTCTGTATAGCTCTGGCTGTCCTGGAACTCACTTTGTAGACCACGCTGGCCTCGAACTCAGAAATCTGCCTGCCTCTG
CCTCCCAAGTGCTGGGATTAAAGGCTGTGCCACCACTGTGCTCACTGATCTCTTTGATGTCCCAGTTATAGCTCTTGGGTTCCCCACCCATTTG
TAGGGGGACCCAGGACACCTCAGAGCTCTCCCAAGTCTAAAAAGGGCAGGGTTCCTGGCTCCCTTAATGCCTTATCAAGCACAACAGAACTCAG
GGGCAGAAAATGTTCCCAGGAAGAACTTAGCTGTGGGGAGAGTCATGGGGTCCCCTGCTAACCTAAGATGTGTTGCCCCCAAAAGAGTAGCCCT
CCAGGACCTGCTGTCTTTTCTCCTGATCAAGGGGGCAGTTCCAGGGTGGGGGTGGTTGTGCCCTCCTTCAGAAGGCTGGGTAGCTGGCAGACAC
AGCTAGATTTAGAAGTCATTTTCACAGCAGGGAGTCGCTAACCTGCCACCCACAGGGCCCCATGGGGCCTAAGATACTACTTACCAGGGTCTGG
CCCTGAAACCTGCAGACACTCCTCTCCTTCTCTCCCAGAACTTTGGCAGCTGGCTCCGACTCTATCCTTGGCAAGCTCTGGAAGAAGGCACGTG
TTGCCCTGACACCCTAAATACCCAAATGTTCCCCCACACAAAATGGGTGGTTGTTACCTAACCTAGGATATGCCTTTTTCAATGCTGGGGACCA
AACTCAGGACTGTGTACATTCTAGCCACACATGCATACTACCATTGAGCCACCACCACAACCCGGTTCCAAAGGGACTTCTTTTTTTTTTTTGG
AGACAGAATCTTGCTGGGCTGAACTGGGATAGGCTGGAAGTTGCTGTGTAAACCAGGCTGGGCTCAAACTCATGACCATTCTCCTGACTCCAGT
TTTCAAGAAAGTGCGCCATGCCTGGCTTCCTTCTCTCTCTCTCTCTCTCTCTATCTATCTATCTATCTATCTATCTATATATATATATATATAT
GTTTTATTTTGCCTGGATGGCATGCAGCTCATTATGTAGACCAGGCTGGCCTTGAACACCCAGAGACCCACCAGCCTCTGCCTTCTGAGTGCTG
AGATTAATGATGGAGAGTGCCACCAATGGAGAGTGCCACCAACCGGGCTTCTTTCCCTAATTTTTATCTACAAGTCACCTCCTCTGTGAACTCT
CCCTGGATTTTCTAAAACTAGGATCTCCCTTGATTGACTCTTCCTAGAACTTAACACAACCGTCCTCACTGTCAGACAGGCCTTGCCATTTCTG
CCCTTGAGCCCAGCCCAGAGTCTAGTTCCTAGGAAGTGTTCAGTAAATGCTAGGTTTCGCTTGGCAGCAGAAAGGACTGCATTGGACGTGGTAA
GACCTTTGGTATCTTTGATCTTTGCCCAGGGTGACCCGGC

MOUSE SEQUENCE - mRNA

AGTGGCTGCTTCAGCCCAGCAGCCAGGACAGCGAACCATGCTGCCTGCGGCCCGCCTCCAGACTTATTAGAGCCAGCCTGGGAACTCGCATCAC
TGCCCTCACCGCTGTGTCCAGTCCCACCGTCGCGGACAGCAACCACAGTCGTCAGAACCGCAGCACAGAACCAGCAAGGCCAGGCAGGCCATGG
GGCTCTGGGCGCTGCTGCCCAGCTGGGTTTCTACTACGTTGCTACTGGCACTGACCGCTCTGCCCGCAGCCCTGGCTGCCAACAGTAGTGGCCG
ATGGTGGGGCATCGTGAACATAGCCTCCTCCACGAACCTGTTGACGGATTCCAAGAGTCTGCAGCTGGTGCTCGAGCCCAGTCTGCAGCTGCTG
AGCCGCAAGCAGCGGCGACTGATCCGACAGAACCCGGGGATCCTGCACAGCGTGAGTGGAGGGCTCCAGAGCGCTGTGCGAGAGTGCAAATGGC
AATTCCGAAACCGCCGCTGGAACTGCCCCACTGCTCCGGGGCCCCACCTCTTCGGCAAGATCGTCAACCGAGGCTGCCGAGAAACAGCGTTCAT
CTTCGCAATCACCTCCGCCGGGGTCACACATTCCGTGGCGCGCTCCTGCTCCGAAGGCTCCATCGAGTCCTGCACCTGCGACTACCGGCGGCGC
GGCCCTGGGGGCCCCGACTGGCACTGGGGGGGCTGCAGTGACAACATCGATTTTGGTCGCCTCTTTGGCCGAGAGTTCGTGGACTCCGGGGAGA
AGGGGCGGGACCTACGCTTCCTCATGAACCTTCACAACAACGAGGCAGGGCGAACGACCGTGTTCTCTGAGATGCGCCAAGAGTGCAAATGCCA
CGGGATGTCCGGCTCCTGCACGGTGCGCACGTGTTGGATGCGGCTGCCCACGCTGCGCGCTGTGGGCGACGTGCTGCGCGACCGCTTCGACGGC
GCCTCCCGCGTCCTTTACGGCAACCGAGGCAGCAACCGCGCCTCGCGGGCGGAGCTGCTGCGCCTGGAGCCCGAAGACCCCGCGCACAAGCCTC
CCTCCCCTCACGACCTCGTCTACTTCGAGAAATCGCCCAACTTCTGCACGTACAGTGGCCGCCTGGGCACAGCTGGCACAGCTGGACGAGCTTG
CAACAGCTCGTCTCCCGCGCTGGACGGCTGTGAGCTGCTGTGCTGTGGCCGAGGCCACCGCACGCGCACGCAGCGCGTCACGGAGCGCTGCAAC
TGCACCTTCCACTGGTGCTGCCACGTCAGCTGCCGCAACTGCACGCACACGCGCGTTCTGCACGAGTGTCTATGAGGTGCCGCGCCTCCGGGAA
CGGGAACGCTCTCTTCCAGTTCTCAGACACACTCGCTGGTCCTGATGTTTGCCCACCCTACCGCGTCCAGCCACAGTCCCAGGGTTCATAGCGA
TCCATCTCTCCCACCTCCTACCTGGGGACTCCTGAAACCACTTGCCTGAGTCGGCTCGAACCCTTTTGCCATCCTGAGGGCCCTGACCCAGCCT
ACCTCCCTCCCTCTTTGAGGGAGACTCCTTTTGCACTGCCCCCCAATTTGGCCAGAGGGTGAGAGAAAGATTCTTCTTCTGGGGTGGGGGTGGG
GAGGTCAACTCTTGAAGGTGTTGCGGTTCCTGATGTATTTTGCGCTGTGACCTCTTTGGGTATTATCACCTTTCCTTGTCTCTCGGGTCCCTAT
AGGTCCCTTGAGTTCTCTAACCAGCACCTCTGGGCTTCAAGGCCTTTCCCCTCCCACCTGTAGCTGAAGAGTTTCCGAGTTGAAAGGGCACGGA
AAGCTAAGTGGGAAAGGAGGTTGCTGGACCCAGCAGCAAAACCCTACATTCTCCTTGTCTCTGCCTCGGAGCCATTGAACAGCTGTGAACCATG
CCTCCCTCAGCCTCCTCCCACCCCTTCCTGTCCTGCCTCCTCATCACTGTGTAAATAATTTGCACCGAAATGTGGCCGCAGAGCCACGCGTTCG
GTTATGTAAATAAAACTATTTATTGTGCTGGGTTCCAGCCTGGGTTGCAGAGACCACCCTCACCCCACCTCACTGCTCCTCTGTTCTGCTCGCC
AGTCCTTTTGTTATCCGACCTTTTTTCTCTTTTACCCAGCTTCTCATAGGCGCCCTTGCCCACCGGATCAGTATTTCCTTCCACTGTAGCTATT
AGTGGCTCCTCGCCCCCACCAATGTAGTATCTTCCTCTGAGGAATAAAATATCTATTTTTATCAACGA

MOUSE SEQUENCE - CODING

ATGGGGCTCTGGGCGCTGCTGCCCAGCTGGGTTTCTACTACGTTGCTACTGGCACTGACCGCTCTGCCCGCAGCCCTGGCTGCCAACAGTAGTG
GCCGATGGTGGGGCATCGTGAACATAGCCTCCTCCACGAACCTGTTGACGGATTCCAAGAGTCTGCAGCTGGTGCTCGAGCCCAGTCTGCAGCT
GCTGAGCCGCAAGCAGCGGCGACTGATCCGACAGAACCCGGGGATCCTGCACAGCGTGAGTGGAGGGCTCCAGAGCGCTGTGCGAGAGTGCAAA
TGGCAATTCCGAAACCGCCGCTGGAACTGCCCCACTGCTCCGGGGCCCCACCTCTTCGGCAAGATCGTCAACCGAGGCTGCCGAGAAACAGCGT
TCATCTTCGCAATCACCTCCGCCGGGGTCACACATTCCGTGGCGCGCTCCTGCTCCGAAGGCTCCATCGAGTCCTGCACCTGCGACTACCGGCG
GCGCGGCCCTGGGGGCCCCGACTGGCACTGGGGGGGCTGCAGTGACAACATCGATTTTGGTCGCCTCTTTGGCCGAGAGTTCGTGGACTCCGGG

GAGAAGGGGCGGGACCTACGCTTCCTCATGAACCTTCACAACAACGAGGCAGGGCGAACGACCGTGTTCTCTGAGATGCGCCAAGAGTGCAAAT
GCCACGGGATGTCCGGCTCCTGCACGGTGCGCACGTGTTGGATGCGGCTGCCCACGCTGCGCGCTGTGGGCGACGTGCTGCGCGACCGCTTCGA
CGGCGCCTCCCGCGTCCTTTACGGCAACCGAGGCAGCAACCGCGCCTCGCGGGCGGAGCTGCTGCGCCTGGAGCCCGAAGACCCCGCGCACAAG
CCTCCCTCCCCTCACGACCTCGTCTACTTCGAGAAATCGCCCAACTTCTGCACGTACAGTGGCCGCCTGGGCACAGCTGGCACAGCTGGACGAG
CTTGCAACAGCTCGTCTCCCGCGCTGGACGGCTGTGAGCTGCTGTGCTGTGGCCGAGGCCACCGCACGCGCACGCAGCGCGTCACGGAGCGCTG
CAACTGCACCTTCCACTGGTGCTGCCACGTCAGCTGCCGCAACTGCACGCACACGCGCGTTCTGCACGAGTGTCTATGA

HUMAN SEQUENCE - GENOMIC
CCCTGGAGTCGGGAGATGACTAAGAGGGAGTCCCTGAGGTCTTTGAAGATGTGTACAACCGAGTTCTACATCTGAAAGCCTTAGAAATTCCCCC
AACCCTGCAGGGAGCTTGGGTGGGTGAGGTGGGAGCAGAGCCTTTGTGGTTCTGTTTTTTTTGTTTTTTTTTTTTTAAATTCACTTCAGGGTTAA
TCAGTCTTTTAACCAACCTACCTACCACCATCCTAGCACCCCCAAAGCACTGGAGCTATGGAGCTGCCCTTCCGCTTCCCAAGATGTAGTTTTA
TATTTGCCCTTCAAGACTGCCCTTTTTATGTTTATCCTAACCTGCTATTACCCTATAAAACACTGAGAGGAGGAGAGAGGTTGGGGAGTGATTT
TCCCTAAGGCCCTCTTAAAAGGTTGGCTTCTTTGTTATGTTTTGGGGGTCACAGAAGCTCAGGCTGCCAAGCCTTTCCCAGACTTAAATAAACA
TGCTCACCATTTGGGTGTCCAAGCCTTCCCCTACACCAGGCCCTGTGGGGAAGGAGGGGGACCCTCACTTCATTTTAGGCAGGGGCTCTCCGGA
GCCCTGAGAAGACGAGAGACAGCACCCGCTTAGAGACCAGGCCTCTGCTACCCCAGGATCTAGGGCTCCTGGGCCAGCCTTCTGATCCCCCTAA
CTCCAACCCTCCAGGGGTGAAGCTGTTTGCACAAGTCTTGGGAATTCCCCTGCAGATGGCAGCTGCCTATTAACCCCATAGTCCCCAGAGCACT
GCCCCCATCTCTGGGCTGAGCCCCCATGGGTCTTTACACCTCAGGGAGTGAACTCCAGTGGGAAACCAGGAGAGGCAGCCATGCCTCCCAGACC
AGGCCAGCAGTGACCTGTTCTCTGCCTCTCCAGCCGTTCTTCACCTGCTCAGGTGAGCAACACCTGGAGCCCCCACAGCACAGAGGAGGGGACT
GGCTCCCCAGCTTCAAAGTCATCAGGGTCTTTGTTCCCAGCTTTGGCTCCTGGGAACCCCAGCAATTAGGGGAGCAGATTTAACCCTTAAACGG
TTGGGGGCGTCACCCCACCCCCGCTGAGACACTGGGGACACCAGCCTGGGCTTGTCCAGCCAAGATGGGGGGAGAGAAAATGGTGGAGGGAATA
GGGGGGCGTTTGAAGCTTCCAGGACTGGGGGCATCTCTTGTTCACAGGTGCAACCCAGATTAAGCTGAGCGGAGGCAGGAAAGGGGGGCCCTAG
GGTAGGAGAGCAGGGACCCAGCTGCCTCGCTGGCAGCACGCAGGTGGAAGTTAGGCGCGCAGGGGCCCAGACGAGTGGCCAGACCTGGCTCAGA
GCGGCTCCGGGGGGGGCGGGGAATTCCAGGAGAGGCCCCTCCCGGAGCCGCGAAACCATCCCTTCCCGCCTCCGCGCGCCTCGCCCTGCCGCCC
ACCCCCTAGCCTCCGCGGCAGCGCCGACCCGCCCAGCCAGGCTCACCGCGCTTGAGGATGGCGCTGTGGTGCGGCAGGCGGCCGCCGCCCTCAA
GCGCGGAGCAGTTCCAGCGCTGGTCGCGCAGCTGGTGCTGACACTCGTGGACCGCGATGTGCAGACCCTGAAGCGCGGACGGCGTCACGTCGGG
GTTGCGCAGGCACAGGCCTAGCTGCCGCTTGCTCAGGCCGGACAGCGTCAAGCACACGGTGTTGGCCGTCAGCGGCGGCTCGCCAGGCAACTTC
AGGCCCAGAATCTCATTGCTTAGAGCCCTGGGAACCAAGAAGGCGTCTGGGGTCTGCGGTCCAGACCCCTCCAACTCTCCCCACCCCGGGTCGG
TGTTTCTATGGCCTGGGAGACAAGGGGAACTGCTCACCGACTGCACAACGCCAGGAACAGGAGACCCGCGAGGCCCGAGGGCGGAGGCCGCGGC
CGGGGCTCCTCCAGCATGTCGAAGCCCGGAGGCTCCGGTGGGCAGATCGATCAGGACCTGCGGGACGGGAGACTTGATGCGGGTTCAGGAATAG
GGCGGCTCGCTTGGGGAACCAAGTGACGCCCTTCTTCGGGCTCCTAACCCACCGGTGCCACCCTACTGACCCTTCTCATTCCTCCTCAAACAAA
ACAAGAAGAAACACCCCTTGATTCCCAGAGTCCCTGAGGCTTGGAGGTCTTAAAGAAGAAGAGTCAAGGCGTTGTCCCAGCTCAGGACTCAAGC
GAGCACCCCTGGAACCTTGCCCAATCAGACACAACGCCCGGCACACAGACACACACTCACTTGCAAACTCAGACACACAGACTCACAAACACTT
GCTCCACAACCTCGCCTACTGCTCCCTTTTCCAGGGCCCCACGACTAGCTTCCCCGCCCTCACAGGGCTAGGGAGAGGGATAGGGAGGAGGTTC
CCCACCACCTAAGGGGGTGTCACCTCCAGGTGTCATCAAGGGCAAGTAGGCTCCATGAGAAAGGTCTAAGAATGAGTTCCCCACTCACACTGCC
CCCTCCCTGAGCAGCAAGGAAAGAGGAGAGGCTCCAGGTGCAGGAAAGATGGGGAGGAGAGCCTGGCTCCCTCCTAAAAGGGACCGTGGCACAG
ACTGAGTCCTCTTCCCTATCCCCCACCTTGCCTAACTACAAGCTCCCCTCCTCCATAGTCGCCCGTCTGGTCCTCACCCCTTGGCTCTCACATT
CATTGCATTCTAAATCTGGGGGCACTCCTTTATTCTCTGTGTCTTTATCTCTAGCAATATCTCTGGCTCTCTATGCGTCTCTGTGCTTCTGTGG
GTGGATGCGTGTCTGTCTGTCTGTCTGACTACACACGTGCCTGTCTCTTCCTCGTGTGCACGTCCCTCCCTCCTGCTTTCCCAGGTCTAATT
ACCTCCAGTGGTTTGGGTGCGGGGTCCGAGACAGGCACGGTTGGGTTGCCTGGGCTTCACTAGTGCTGCTTAAACCGTGGGGAGACTGCGCTGG
GTTCTGTCCCCTTGTCAGAGCCGCATTCTTCCAGGGCCGGGCCACTCCTCTTCACCGCTTCCCCAGCGCCGCCGCGGCCGCCGGGAGGAAGGGC
GGGAGGAAGGGAGGGAGTGATCGAGAGAGCTAGCAAGCCGGCGAGCAAAGGACTGGGGGCTCTGGCTTTGCTCTCACCGAGCTCAGGGTGGCTC
TGCCGGGCTGACGGAGCTGCAGCCCCTCCCCGAGCCTGGGGCTTCCCCACCCTACCCTCCACTCCCAGCCTTGACCAGGCGAATGCAGCCTCCC
CCTCCTCCCAGCGCGCGCGCGCGCGCGCACACACACACACACACACACACACACACACACACTCTCTCTCTCACACACCCTCTCCCCCGACG
CCTGGGTTCAGGCTTGGCCCCACTGAAGAAGGAGGTGGCCAGAGTTCCTCTCACCTGATCTGGGGTCGCCAAGGCTGCAGGGAGGGTGTAGTAA
CCTTCCTAGGGAGCCAGAATGGGGCCCAGATGGCCACATCTTTCATCACTCCTCTTTGCGTCAGTTTCTCCACCAAGATCAGGGTGGCTGGAAG
GTGCCTTTGACAAGATGAGGATGGAGCCAGACAGTCTTTGGGCTTCTCGGTGTGGGACAGTCACATGTGGCACCCACAGCCTGAGCGCACCCGG
GGTACTCAGAGCGGGCAGGAGAAGCACACGTCTGGGCAGCTTGGTTCCCACCCTCCTCCAAGCCCTGCGCCTGCCCCTTTGGAGGGGACAGCTT
TGGCCTCAGAGTTTGGCCCTAGCAGAGGTTCAAGTAGCACCAAAGATTGTCAGCCTGCCCCGATGCTTCCTTGCCTGGCAGGGATGCTTGCCAA
CAGAGGTATCCTACCCTTCTCGGGATTCCCCCGGTCTGCACTTTGGGTGGCCTGGATTCCTGCTCCAAGCTGTAGACTTGCTTCTTATGGGATG
AGGAGGGCCTTGGGATCCAAAATTGAGCCAAGCCCAAGGGCAGCCGGGAAAGAGCCTGGTCTTGGGGTGCACAGGCAAAGGCAAACCGCCTTAG
GGAGACCCAGTGGCAGCGAACGGGTTAGGCGCCACCGTGCTCCCGCCTGACTCACCCTCGAAGCTCTAACCACTGTGGGCTATTTTTGCCAGAG
AGGGGCCCCAGGCTTTCCAGCCGCCCCCCGCCCCTGCCAGACCGCAGCCCAAGGCACGGCTGGCCCCACGCGCCCCAGGCACATTGACTCAGAC
TGCCCCCAAGCAAGCAGAGGAACAGGGATGATACCCACAACCACAGTCACCTCTTCCTTGGTGGTGGCGTTGCAGCTCTGCTGGGCAGCCAGCC
TCCAGTCTGTGCTGCTGGAGGTCCTGCCCGTGCTGCAGGGGTCACTGTTGGATAGCGGGCACAGCAGTCTGAGACAGGAGATCGAGCAAACTTA
CATCTGTTGGGATATTTACAGATCACCTTTACGTGCCAGGCTGTGAGCAGTCTGGGGAGGTGAAAGTGCCATGGTCCCTGACACTGGACAGCCT
GGACCAGACTGCTTTTCTCTGATTCCCTACCTCTGGGATGGGGAAGTGGGAGCACTAGAGTTCCTGACCCTCCTTCCCATTTAGAGGACAAGAG
CCAAACCATGTGTGGTTTTGGAGGTCACCAGAATCTGCAAGCCCCATCTCATAGTTTTCATCCTTACACCTGGATTCATGATCCCCACCAGTGT
CCTTATCCTTTTTCTTGCAGTCACCCTGGGATTCCTGCCAGGTCCTTGGAAGAGGGGAATGAGGTTGCCTAAGCCTCTCTTCTCCATGGGGACC
TCATGGACATTTGTATTTCTCCATGTGTCTCTGGGTCCCCCTTAGGTTTGGGATTATTTTTTGCCTTCTGATTCTACCCTTGTCAGGCTCCAGC
ATACAGCCAGGTGCCAAGAAGGGGCGAGGGGCAGAACTACTACAATAGGTTTCAACTTCCTGGTGACCCTAGGTCTCCCCAAGCAGGACTGTTC
CAAATCCAAGGACCCAGAGTCCTGCTCCTTCTCTCTACTGAAGCCCAACTCTGGGACAAGAGGCCACAGGCCGGCAGACTGGGTGGCCTGAGCT
GGCCCGCAGTGCCCTCAGCCCGACCGGCTGGCCTGAGCACTGACCCGCAGGCGGCTAGAGGGCGGTGGGACAGGCGGGGCCTGGAGAGGGCTGT
GGGTGCACACCCATTGCCTAATACCCCAAGCACGCGGCCAGCTCCAAGAAAGGGGAGGGACGGGAACCAGAGAGACCTTGACGTGGGTCAGGGC
CAATGACAGGAGGGGGAAAGTGGGGGGCTTTCATCACTGCAGGGAGGGACTAGGAGCAAGCTGGTTCCCCTTCCCCTCAATGAGAAGAGTGGAG
GGCTGCCCTTCCCATCCTAGGGATGGAGGGTGTAACGAGAGCAATGTGGGAAGAACACTGGGGCCCTGGAGGGCGGGGGTCAAAGAAAAGAGTG
GGGGCCCCTGGAGATTGGGGGATGTCGAGCAACTGAGGCGGTGGCTAAAGCCTCAGAAGCCTCCTCCTCCCCCCATGTTTGCCTTGGC
CCGGGGTCCCGGGTGACTCATCTGTTGCTGAGCCGCTGATAGGGGAGGCCAGACCCGGGGAACCCAAATTATAGGCCCAGGAGGGATGGATGCG
CCCGTGGCGGTGAGCTCAGCTGCGCTGCCCACCCTCCGCTTAATGCGCCTTCTGCTGCAGCACCGTAGGCCACCACCTGGAGGCACCAAAGGGT
CTGCGGGCCGACTGCATACTGGACTCTCAGGAAGGCCCCACTTTCAGCAGTCCACTTCCAACAAATCCATGGGATTACCTTCAACAGAATTTTGC
CCCCTTCTGTACTCAGGCCTAATGGATGGGCTGTGCCTTCCCAGCCCAAGGGGGCAGTGCTGCCTGCGGGTGCTTCAAAGGAGGGTAGGCTCCT
CTGCCCACAAACTCTAAACCCTGGAGCCCTGCTTCCTCCCCAGATCCCAAAGTCAAGGCAAAGCCCCTCTCCCCTCTAACATCTCACCTCTAAC
CCTATTCCAGGGGGGTGGTTTGCTACTGATTTTCAACTTCAAGCCTTTAAAGTCATCCACGGTCAAAACTGATACAGAGAAAAATGAAGCAGGG
TAAAGGAGATTAGTAGTGGGATTCTATTTTATAAAGGGGGAGGGAAAACAAACTGAAGGAACAAATACATGGAGAGATCTGAGGAAGAGCATTT

TAGAAGACAGAAAAGCAGGTGCACAGACCCTTAGAAAGGAGCATGCTTGGTTCAAAGGATTAGAAAAGAGGCCAGTGAGGCTAGTGGGGAGAAA
TTCGCAAGGAAGAGAGTGGTAGGCAATGAAGCTGGAGGGCTAGGAAGGAGGCCCCTTACTTTGAGTGACATGGGGTCTCGCTGGAAAATTTTG
AGCAGAGAAATGAACTAATCAGACTTCTGTTTTAGGAAAGATGGCTCTGGGCTGGGCGCAGTGGCTCATGCCTGTAATCCCAGTACTTTGGGAG
GCCGACGTGGGCAGATCACGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCCACCTCTACTAAAAATACAAAAATTAGGTGG
GAGTGTTGGTGGGCGCCTGTAATCCCAGCTACTCGGTACGCTGAGGCAGGAGAATCGCTTGAAACCGGAAGGTGGAGGTTACAGTGAGCCGAGA
TCATACCACTGCACTCCAGTCTGCACAACAAGAGCAAAACTCCGTCTCAAAAAAAAAAAAAAAAGAAAGAAAGAAAGAAAGAAATTGGCTCTAGT
AATTAAATCAACCCTTTTGATTTTTGCAGTAAAATGGAGCACTGAAATGGAGCAATCTTGGGCAGTAATGTGGGGTCTAATGAAGTTTTTGGGT
TTTTCAGATGGGTACTATTGCAGCATGTCTGCATGCTTATGTGTATGTTCCAGGAGAGAGATAAGTGGATGATGCAGGAAAGAAAGAGGGGACA
GTTGATATCATGATTATTTGATCTAAATAGAAAGTTGGGTGCTTGTTTTGGCAGCACATATACTAAAATTGGAATGATATAGAGATTAGCATGG
CCCCTGCACAAGGATGACATGCAAATTTGTGAAGCATTTCATATTTTGAAAAAGAAATGTCAGCCAGGTCATAAACAGTGTGACCCAGATCTAG
GGGCCTTACCCTCTTGCCCCCTACTCCTGGTGTGTGGAATGTTGGAACAAAGCACAGTGGCTCCTTTCCTCTCTTCCCACCTCTGCTTGACAAC
AGTCGTCAAAGACAGGGCTTCCATATTTTCCAGCCAGCCTCCCACCCTCACGGTGTTGTATCAATCCACCAGGCCAAAAGATGTGACCCAGGCC
CCAGTGGGAAGAAACTCATAAGGGATAAAGGACAGGCTCCCCGTGATACATTGTCCATTTACTTGAGCTATCTATGCTGGGTGCTCTCTGCAGG
GACTACTGGCTTTTGGATCTACGGAGGGTGCTGGACCACTACACCTTTTCCCTCTGGGGTGGATCCTTGGAAGGGCCAGATATACTAGGCTGGG
CAAAAGGGAAGAAAAAAGGGAAAGAAGGACATTTCTTTCTAAAATAACTTCCATCAGGCTTCATTTGGGTTAATATGCATCTCATTTAAAACAC
AAGTGCCCGGGAATATTAATGAAACTTACCTGGCATTTATTCCTTAGAGTGATTTCCCTGCCTTAGAAGGGAATCCTAGTCATTTCTGGGACTT
GAGACTTTAGGTTCAGGCCTGGGGAAATTTCTCAGTCAGAAGGCATCCTAAAAGACAAGGGAGATGAAAAAAATGAGAGCTAGAACTCAAAAGG
GAGGCAGAAAGGCCCAAAAAATTATTTTTACCCATCAATTTTGAGAAGGGTTCCCAGCCTGTAATTGCTGCACACTGGCAAGCAGCTGGTAAGG
TCGAAAGAGCATGGGCTTTGAGTCAAATTGGTCTGGGTTTTAATCTGGCTCTACCATTGATTCATTTATTAGACGTGGACCTTGGACAAGTGCC
TGATCTATTTTTAATTCTGCAAAATGGGGAGAGAGAAGAGATCTTCCCTCCTTCCAGGGGCCATGTGTGTGGTGGTGGGGCATGATAACCAGGC
TGGCAGTGCCCCCTATTCCCCATATAGGGAAAAGCAGCCACTTTTTTTTTTTTTTCAGATGAAGTCTTGCTCTGTAGCCCAGACTGGAGTGCA
ATGGCGTGATCTCGGCTCACTGCAATCTCCACCTCCCGGGTTCAAGCCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGTGTGCG
CCACCACACTCAGCTAATTTTTGTATTTTTATTAGAGATGGGATTCCACTATGTTGGCCAGGATGGTCTCGATCTCCTGACCTCATGATCCACC
TGCCTCGGCCTCCCAAAGTGCGGGGATTATAGGCATGAGCCACCGCGCCCAGCCTGTCACTTCTTCAATAGGAGGCCTAAATGGCCTTGAAGCT
GAGTAGGAGTCCCTGGGAGAGAAGAGAAAAGTGTACAATGGATGAGATGGTCACAGGCACTCTGGGTATCCCAGTGTGGTGGGAACTAGAGCTT
TAGGGAAAGACAGAAACTTGGCAGAAACATCCAAAGAGAAGCAAACACATGGAGGCACAAGTTTCCTCATCTAGGTTCAATGTAGCCAGCAACC
CTTGTCTTCCCAGTCCTCTCCATCACCATACATACAGTGGACATCCGCACCATTTCCCATCCTTTCTGAGCCTAGGCCTCAGAGACTTAGCCAC
TCCAGGCTGGGTTCACCTCAATACCATCTTGGTTGTAGGCTCGGCTCTCTCCCCCAATGACATGCACTGGTTGACACATACCACAGTGTGACAC
GCCATAGGATGCCACGAGGTACAAAGGGCAACAGAATGACGCATACACACATATTTAATCTTCCCATGCACATGCTCATCCACCCACTCCACAC
ACAGTCCAGACACTCTGCATCCCTCAATCATGCTTCTGAGTCTCCTGTCGACAGTTGCCACCTCCTTCCTGACACACTGCCCCAGGCGGTGACT
GTGACAAGGTGACTCCATGACCTTTTCTGACTTGAGCTAAATTCCAAAATTCTTTGGAAAGTTTCCTAACATCCTTCGTCAGAACAAGGAGTTT
CTGGCACGTACCAACACACAGGGAGGATGCACCCTCAGAACACAGCACATTCTCACTCCCACCCATATTCACGTTGTTCCACTTCACACACACA
CACACACACACAGCCACTTGTGCGCTTCTTCTGGCGCACATGAGCAAACTGCCTGTTGCTTTAGGTTTCTCTCCACCGCTAGGCTCCTTTTGGT
TAGCTCACCCCCACAACTCATCCCCGGGATTTCCCTGACCACAGCCGCACTCACGCCCCCGTCTCCCCTTTTTCCTTCTCTGTCCAGCCATCGG
GGGTTCCTGGGCGGTTAAGCATCTCCCCGGAGTCGCTGCCCAGAACCACAGCTTTCCTTCCGACACTCAGGATGGGGGAGAGAGGGGACGTCGG
AGGGGCCCGGGGTGACGTCGAGGGGACAACCCCACCGCGGGCGGCGAGGCGGGCTGGGCCCCTGGCGGGCTCTCCCCGCAGCACACTCTCGCCG
CGCCCCCTGGCGGATGCTAGTCCTCGACGGGCTCCGGACGCTCAGCTGAGTGAGGCGGGCGCGCGTGGGAGGGTGTCCCAAGGGGAGGGGTCCG
CGGCCAGTGCAGGCCCGGAGGCGGGGGCCACCGGGCAGGGGGCGGGGGTGAGCCCCGACGGCCAACCCGTCAGCTCTCGGCTCAGACGGGCGGG
AACCACAGCCCCGCTCGCTGCCCATTGTCTGCGCCCCTAACCGGTGCGCCCTGGTGCCACAGTGCGGCCCGGAGGGGCAGCCTCCTCCCGTCAC
TTCAGCCAGCGCCGCAACTATAAGAGGCGGTGCCGCCCGCCGTGGCCGCCTCAGCCCACCAGCCGGGACCGCGAGCCATGCTGTCCGCCGCCCG
CCCCCAGGGTTGTTAAAGCCAGACTGCGAACTCTCGCCACTGCCGCCACCGCCGCGTCCCGTCCCACCGTCGCGGGCAACAACCAAAGTCGCCG
CAACTGCAGCACAGAGCGGGCAAAGCCAGGCAGGCCATGGGGCTCTGGGCGCTGTTGCCTGGCTGGGTTTCTGCTACGCTGCTGCTGGCGCTGG
CCGCTCTGCCCGCAGCCCTGGCTGCCAACAGCAGTGGCCGATGGTGGTAAGTGAGCTGGTGCGGGGTCGCCACTTGTCCCGCGGCACAGAGCCA
GGGGCCAACCCTACCCAGCTCCCACGCTCTGGGATCCGTCTGCCGACAGGCTCCCTCCCCGCTCTGACTTCCCTCCGCGACACCGAAGGGCGAT
CTGGCATGAAACTGCCCCAGACTCCAGCTCTGTACAAGTGGGGCGAATGATCCGCCCGCGGAGGCCTAAGATACCCAGGCAGGGAGCCCACTC
TCATCTAGCACCGCCCTTCCCCTTTGAGCGCCAACTCCAGCCTCACGGCGGTGGCTCACCACAGGTTTCCCCACCTCGGGAAGTGAAGGGCCAG
GAGTTCGCCTAGAAAGGAGGGGAGAAGAGGGTGGGACTCCTAAGCATTTCACGCCTTGGGTGGGCAAGAACTGCAGGCCATGATTATCTCGCTC
AGGCTGACCGGAAGAGGCTCGGAGATCCAAGGTAGACACTCGGTCTCCGGGTACCTCCTCTGTCCAGTCTCCGGACCTAGGGCTCAGGCGAGCA
GCCCTGGGACTACTGGGCACACACAAGTCTGGACGCCCAGTTCTTTCAAATTAGTGAGCCTGGGAGAGCGGGTATTATTAATCTCCCGCCATTC
TCTCCAGCCACATACCCCCAGGAAGAGGACCGGGTGGCACAGTTTTTATGGTTAGGGTGCGGATCCCCTTCCTGAGCCTGAGCTATCATACGTC
CCACCAGGGGTATTGTGAACGTAGCCTCCTCCACGAACCTGCTTACAGACTCCAAGAGTCTGCAACTGGTACTCGAGCCCAGTCTGCAGCTGTT
GAGCCGCAAACAGCGGCGTCTGATACGCCAAAATCCGGGGATCCTGCACAGCGTGAGTGGGGGGCTGCAGAGTGCCGTGCGCGAGTGCAAGTGG
CAGTTCCGGAATCGCCGCTGGAACTGTCCCACTGCTCCAGGGCCCCACCTCTTCGGCAAGATCGTCAACCGAGGTGGGTGCCCAGGAAGGCGAC
GCTTCCGGGAGCAGGGGAAACGCGGGGTCACCCCCAGGGCATGGGCGGGCGAGTTCAGAGAAGGTGTCCCAGGCGCCTGGAGGGTCACACAATC
AACCTTGCCAAGTGCCTCGTGCCCAGCGCCAGCTCGGGGCCAGACTTCTACCAGGCGTTTTCCAGCCGTCACCCTGGAAACGAAGCTTAACTT
TTCTGAGCTACTGCCCCAGATAAAGAAAGTTTCGGGTCGCGGACGCCGGCTGACCGCCGCTTTCCCCCAGCCTCTCTCAAAAGCGCCTGGGAAG
CTGCTCTCTGCAGGCGTGTGTCTGGCCTCTCGCCCAGCAAGGCTTGCACCGCCAAAATGGGCCGAAAGTTTTGGGCTGCGAAGAAGTCTTGGGG
ATGTATGGTTCTTCCGCTCCCCTCTCTTCGGTTTGTCTCTCTGGGGCTGCTCCACTTCCGCTATCGAGCCAAAATGCGCCCTAGAATCTCCCAG
TAAGGTGTGATTACGCCCGTGGACGTGGCTGCGTGCCCACGCACCTGCTTTCTCTACTAGCCCTAGAGACCAGCTTTCCAGCACTGCCGGCCCT
GGCTCTCAGGACTCAAAGTGCGGAGTCGGGGGTGGGATTCCGGTCCCAAGCCCTTCATGAGGGTGCTGGCCGCGCCCCGCGTACCCCCTCGCTG
ATCCCCGCTCCCTTCTCCCACAGGCTGTCGAGAAACGGCGTTTATCTTCGCTATCACCTCCGCCGGGGTCACCCATTCGGTGGCGCGCTCCTGC
TCAGAAGGTTCCATCGAATCCTGCACGTGTGACTACCGGCGGCGCGGCCCGGGGGCCCCGACTGGCACTGGGGGGGCTGCAGCGACAACATTG
ACTTCGGCCGCCTCTTCGGCCGGGAGTTCGTGGACTCCGGGGAGAAGGGGCGGGACCTGCGCTTCCTCATGAACCTTCACAACAACGAGGCAGG
CCGTACGGTGAGCTTTGAGAGGCTCCGCACCCTAAGCGGAGCGGCAGGGGCCAACCTCGGGCTGGGGAAGTGACGGTCGGTGAGATAAGGCAAG
GGGCACCAGGAGAGGGCGTCCTGGGAGAGCCGGAGGCTTGGAACGAAGACGGAGAATAGAGGAGACAGTGGCTGAGGGCAAAGGTATGTCTGGC
CCGCGGACAGGTAGAAGAGGTTGCAAATCAAGCACAGTCTCTTCGCTGTACAGATTCGAAAAATAAGCCTGAGAGGCCGAGACTGACTCGCCGC
GGCGGAGCAGGGTTGGGCAGGGTTTCCAAATCTCAGCGGAACATTTCGCGCCTCCCTTCCCCTGGGCTCAGCTAGGCCTGGGCCTTTGCTGAGG
TCCGGCCCCCGTGGCGTCCGGGAGAGGGCAGTGTCTGGGAGGGTGACTCTGGCCCGGTGCCCTGGGACACTCTTTCTTCCCCTATCCCCGCAGA
CCGTATTCTCCGAGATGCGCCAGGAGTGCAAGTGCCACGGGATGTCCGGCTCATGCACGGTGCGCACGTGCTGGATGCGGCTGCCCACGCTGCG
CGCCGTGGGCGATGTGCTGCGCGACCGCTTCGACGGCGCCTCGCGCGTCCTGTACGGCAACCGCGGCAGCAACCGCGCTTCGCGGGCGGAGCTG
CTGCGCCTGGAGCCGGAAGACCCGGCCCACAAACCGCCCTCCCCCCACGACCTCGTCTACTTCGAGAAATCGCCCAACTTCTGCACGTACAGCG
GACGCCTGGGCACAGCAGGCACGGCAGGGCGCGCCTGTAACAGCTCGTCGCCCGCGCTGGACGGCTGCGAGCTGCTCTGCTGCGGCAGGGGCCA
CCGCACGCGCACGCAGCGCGTCACCGAGCGCTGCAACTGCACCTTCCACTGGTGCTGCCACGTCAGCTGCCGCAACTGCACGCACACGCGCGTA

CTGCACGAGTGTCTGTGAGGCGCTGCGCGGACTCGCCCCCAGGAACGCTCTCCTCGAGCCCTCCCCCAAACAGACTCGCTAGCACTCAAGACCC
GGTTATTCGCCCACCCGAGTACCTCCAGTCACACTCCCCGCGGTTCATACGCATCCCATCTCTCCCACTTCCTCCTACCTGGGGACTCCTCAAA
CCACTTGCCTGGGGCGGCATGAACCCTCTTGCCATCCTGATGGACCTGCCCCGGACCTACCTCCCTCCCTCTCGGCGGGAGACCCCTTGTTGCA
CTGCCCCCTGCTTGGCCAGGAGGTGAGAGAAGGATGGGTCCCCTCCGCCATGGGGTCGGCTCCTGATGGTGTCATTCTGCCTGCTCCATCGCGC
CAGCGACCTCTCTGCCTCTCTTCTTCCCCTTTGTCCTGCGTTTTCTCCGGGTCCTCCTAAGTCCCTTCCTATTCTCCTGCCATGGGTGCAGACC
CTGAACCCACACCTGGGCATCAGGGCCTTTCTCCTCCCCACCTGTAGCTGAAGCAGGAGGTTACAGGGCAAAAGGGCAGCTGTGATGATGTGGA
AATGAGGTTGGGGGAACCAGCAGAAATGCCCCCATTCTCCCAGTCTCTGTCGTGGAGCCATTGAACAGCTGTGAGCCATGCCTCCCTGGGCCAC
CTCCTACCCCTTCCTGTCCTGCCTCCTCATCAGTGTGTAAATAATTTGCACTGAAACGTGGATACAGAGCCACGAGTTTGGATGTTGTAAATAA
AACTATTTATTGTGCTGGGTCCCAGCCTGGTTTGCAAAGACCACCTCCAACCCAACCCAATCCCTCTCCACTCTTCTCTCCTTTCTCCCTGCAG
CCTTTTCTGGTCCCTCTTCTCTCCTCAGTTTCTCAAAGATGCGTTTGCCTCCTGGAATCAGTATTTCCTTCCACTGTAGCTATTAGCGGCTCCT
CGCCCCCACCAGTGTAGCATCTTCCTCTGCAGAATAAAATCTCTATTTTTATCGATGACTTGGTGGCTTTTCCTTGAATCCAGAACACAACCTT
GTTTGTGGTGTCCCCTATCCTCCCCTTTTACCACTCCCAGGCTTGGAAGCTTACCTCTCTCAAACAAATAGAATATGCTGTTGGGGGACTGGTT
TCCTAACCTTGCCAGAGGACCCTGAGATTCTGACCCTTGGATGACCCTAACGAGGCCACTGGGAATCCAGCTCTCCTGAGAGAGGAACCTGGTC
AGTAGCCAAACAACCCTGCAGGGTTCTTCTTCCTCGTGGAACAGCAACTGGCTGTGTGATATGGACAGGTGCATATACTTGGTGAATGGGGGTT
AAACAACCTCAGTGCCTGCTTTTCCTGCCTGGAACAGCTGTTCAGAAAATAGCTACTATTGAATGATAACTGTGACCATCTTCCAAAAAGTAGG
AAGAGAAACTAAAGCAGAGTGCTGCTGCCCCTAATGTGGAGCTATTGGTCCCTGAAGCTTGGCTTCTTCAGCTGTGGTCAGGGCATTGGACAGG
GGTGAAGCCCTTCCACCAACAGAAAAGTAAATACTGGCCTGGGGCAGTGGCTCATGCCTGTAATCCCAACACTTTGGGAGACCGAGGTGGGTAA
ATCGATTCAGCCCAGGAGTTTGAGACCAGCCTGGGCCACACAGGCAGCCCCACCTCTACAAAAGAAAAAAAAAAAAAAAAAATAATATATATATA
TATATATATATATATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATATACACACACTATTAGGTATTATATATGTATATCTATCT
ATCTATCTAATAAATACCTTATCAGGAGCCCCACTCCCAATCTTGGGCTCAGGGAGATCCAGATAATAGGTGATGAGCCTGGTGCTGGACCGAG
AAGCTCAGAGATGCTGGTGGGAGAGAAGGGAGCAGGTAGGCTAGAATCCAAATGCAGGCTAGGCTTAAACCGATGTAACCAAAGGAAACCCTAA
TGTGGTCCATAACCAAACTACTAAGCTAGCCATTCCCATAAAGAACCAGAATGAGGATTTTGTTACTAACACCACCAGTGTGATACCTCTGTGT
GCACATTCACCAGAGTCAGTGGGAGTTCTAATCCTACCCACGGCCCTAAACCTATCTCTAACTCTAACCCTCTTCCTGTTCCTAGGTCTAGGTT
GAACCTTAGCCTTAACCCTAACTTCAGACAAACACTAACCCCTTCTAAGCTCTAATGTCTGTCCCTAATCCTAACCCCTCCCCACAGGGGAGGA
TCAGAAGGGCAAGGGGAGCTGTGAAACACCCAACCTATCCCCTAAGAGCAACAACTGCTCCCAGCCAGCTTGAGAATTTCCCCTTCTCCCCTAT
TCCCTCCTCTCCTGTTCAGGCCTCTTCTGCTGTTGGTGCCTCCCACCACCTTTGGGATATGTGTAGGGGTAGGGGAATGGAGCCAGGAACTGCT
CAGTCCTGCAACGACATCCCTTTCCCTTCCTTTCCACCTGCCAAGCTAGCACCATCTCAGTTCTGATTCCTCACCCTAGGGGAAGAAATAAAAA
CCTATTGATCCTGGGGAAGAGGCACCTGAAAAGCTTTGGGTTTCCATAAAGAGCACCCTGCAGAGAATGCCCAGTCTATAAGCCAAAGGGCTAT
TAGATCCCTCAACTCCCCAAATAAGAAGTTAATAGGCTGCCAGAGGTGGGAGGGGGGGCTTGGGCCCCTGCTGGACAGTGCCCAGAGTTGAGAT
GAAGCAGCAGGGTAGAGTCAAAGCATTGGCAGCTGTCTCCAACTACTTTTGCCTAAATTCAAACTCTAAGAATTGGAGTCAGTATCAGCTTTCA
GGCTTGGAAGCTGGGGCACTCTGAACCAGGTTGACAAACAGGAGCTGGAGGAAGAGCAAGGGAAAGTGGTGAATTCTTTTCTGCCCCTACCCAG
ACTTTCAGCAAATCTCGTACTTTCTCAGACTCAGTTGCCTTGCCTATCAAACAGGGATGGTTATTGTTACTTAACCTTTCAGGGAGGTGATGAG
GTTCAGATGAGATGATGTACATGAAAGCCTGGGTCATTTGAATACTCACTGACACCTCTTCTATACCAGGCATCTGCCAAATGTTGGCAATACA
ATGATTTATAAACCATAGTGCCTGCTTGGAGGAGGTTGACAGTCTGGCCAGGGGATCAAGCACATCCTCAGATATTGTTAGCATATGGAGGGAG
TGCAATGAAGGCTCAATGAAGTGTAAAGCCTTCTGCACATAAATGAAGTTTAAGGGCAGACTCCCATACTCAAGCCCTCGGCATGGAGGCTCTT
CTCTTCCAAGGGCTGGAATTTCAAAGGTGATGGTGCTGGGAAGTGCAGAATTAGGCTGGGCCCTCAATGGGCACTAATAAAACACAAACACACA
TACACACACACACAAACAAGTAAAAGGGCAGAGGGATCTGCAAAGCACTACATAAAAGCTAATCATTTTGTTATTGTGATCATCTATGCTATCC
TCACACAGGGCTGGAGCGGGTACATCCTGAGGAGAAGAACAATTATGCATAGAAAGAAGACTCACAAAGGTCTCAGGAGCCACAGTAGGCTCAG
GGTGGTGGCCATAGGATGGTGTCATCAGGACTGTGCTTGATGCGCCACCTCTCACCACCTCTGATCTTCAGGTGCCAGGGCGCTGGATACACGT
TGGCCTGAGCAAGTGAGGGAAAGACTAGTCCTGAAATATCCTGGGGGGAGTGGAAAAGCTGAGAAGAAAGGCAGGCTGTGCACAGTCCCCAGGG
GGTCAGCAAGCCAGCACCACACACACTCTGCCACACGCACCCTGGAAAAACCCTGTCAGTGGGGCTGCAAATACCCTAGGGTCCAGCCTCCCCC
AAAGCCTCCCCCCTCGCCCCAGGCTGGCTCAGTCCTCCTCTCCAGCGCAGAGGGAGAAAAATAACAAAACGAGGAGAAAATAAGCTGTTTGGCT
GTGGTGTGAGCAGGAATATCCATGCAGGGCTGCCCACCACTCACCCTTACTCACTCTTTCCACACCCAGCCGGGGCGCCCAGCATGAGACAGAC
CACCCCCCTGCCCCCTCCCCCGTCTGGTCTAAAAGCAGACGCTGGTGAGCGAGCAGCAGGTTATAAATATGCCCAGGGAACTGCCGCCAACTCG
CTCCCTTGTCATCCCCTGGGAGGGGCAGGGTGGGGTGGCTCCCAGGGAGGAGCCAGGGCTGCCCTGTTCCCTGAGGCCCAGGAGGAAGTGGGGC
TTCCTAGAGGCTACCATATTTTCCCCCCTTTTCAAGGTGAAGGAACCACTGCCACTCCATTTTCCCTGAACATTTGCTCATCTCTTCAGATATG
TGGTCCCTACCCTCCCTGGGCCCTGGCTGGAGGCTCGGAATGAAAGGGCCCAAAGTACTCTGTGTCATGGCACAGCCCGCTGCTACTTGTCTTC
TTCACATGCATTTGCTCTCAGCAAAACAGAAGTTCATTCATTCATTCAACAAGCATTAACTGAAAGCCAGCTGAATGCCAGACCCTGTGCACAG
GCCCACCTGTGTGCACAGTGTCTGCACACACAGGTGCAAGCACACAGCTGCCCCTACTCCATGTGCTCACATCACCTCCAGCCCCCACTAAG
GACTTCCTGGCTTCAACCTGCCAGCCTCATCAGGAAAGCAAAGCTTCAAGCTCCTGGTTGTGCCTCAGAGTAGGTTAGGGGGCATGGGGTAGGG
GGTGGCTGAGAACAGGACCCCAAACACTTCTGCTTCCACTACTTCCCCTGTAAATGAGGGGGTCCTTTCTCTCCTTCCTGCCCAATCATCCTCC
CTAAGTAGGTGCCATGTGACGAAGAAAGAGCCATTCTTGGGATGCTGAGGGTACCTGTCCAGGCCACCAGAGCCTCCCACCTCCCAGCAACTTG
CCAACTAGGTGCCAAGCTGGGGCAAGAGGGGGCACTTCCACCCTGTGAAGCTCCCAGCTCTCCTCCCCCAGGGCTGAACCCCTCCCTTTTCCCT
CCTCCCTATTAATCCTCGGAAGTTAAGGGGCCGTCCCTGGCGGCCCCTCAGCCCTATCGTGGCCCCTCACCCTCCTCGGCTGGCGTCTAATTAA
CTCCTCCTGCCCCTGGTTTTGTATGCCCCCCTTACCCCACCTTGTCGGCCCCGCCCCTCTGCTCGGCCAGCTCCCCCCCCACGGACATTCCAGCC
AGGCCGGGCCAGTGTGCCAGGGCAACCAGGGCCGGACCGAGGCCTAATCCTCCCGCCGCCTGGCCCGGCTGGGGGAGCCCCACTCACCTCCCCA
CTCTCTGGGGGCTGCCCGGCTCTGCTGTGGCGGAGACACACAATCGGGACAAAGGCACAGCCCCCAGGGGGCTAACTCAGCCTTCACGCCCAGG
TTGTGCGGCATTTGGGGAGTTTAATGAATTGTCCATCACGCCTTTCAGGGCCCGCCCGTCAGCCTGGATTAATCTTCGGAGCCCTGGTGGGGTA
GGAGACACTAAGCCTGTATTTATTACTCTCCCATTGTCACTAATTGAGGTAATTATCTGTGACTCTGGCCTGGCCAACAATGAGGCATTCACTC
CTGGGACCTCGATGGGCCTGGCTCCCACTCTCAGCACCAGCCCTCCCTCCCCTCCTCTTCCAAACCCGCCAAGGACTACGATGGGCCCTGGAGC
ATGTTGGGAAAGTGGACAGCGTCCCACAATGCCTCACCTCCCCACCGGCGTCTCCCATAGCCATCACTACAGAGCTGTCTCCTGGTCCCCCCAG
AGAAGGTGAGAAAAGAAGGCAGCCTCTGCCAGGGGATGGATTTGGCTGGCAGAGCCCTCAGGCCAGAGAGGGACCTGTTTCTGAGGACTTTGGT
TTTCTGGACTCTCCAACTCCTCATCTCCAGATGCATGACACCAGGGTCTCACAAGGTGCTTTTGCAGATCCATCCTCATGTCCCTATAGCCTCT
AGGGTGTTAAGAGGCTCTAGCCTGTACCAGGCCTACTCTGGGGAGGTCCCTAAACCTACCAGTGCTGGCAGAGTGGCTGTGGATGTGATGGGAG
ATGTTAAGAGAGACAGCAGGAAAGGTTCTGTCAGGGGAAGAGCAAAAGGAGCCAAGTCAAGAAGGAGCAGTCAAGAGTCACAGCATTCCCGGGG
GTCACACTAATGTGGCCATGCAGCAACTTCAGGGAGAAACTTGGATTTGGAGGGGCAAGAGTTCCAAGAGAGCGGATTTCACGTGGAGACAGCTT
TCTGGGTCAAGGTGGTTGGCCCTGGGGAGCAGGTATGTGTGTACAAGAAAGACAGAGAGAGAGAGAGAGAGAGAGAGAGATAAGAAAGGAAGAT
TTAGGCAGAACTAGATTGTGAACTCCTTGAGGGCAAGAACTATGTCTTTGTGTCTTGGTCACTGTTGCTTTTATGAGAGCTTAACATTGTACCT
TGCACGTAATAGGCACCGTCAAGTGAATGGATGAATACAGATGAAGCCGGCACTTGCTTTAAAACTGGGATCTGTGAGCTATTCTCTTCCACAG
CTGCACTCAGGCTCCTCATTCTCTCAGGACTTGCTGGAAGGAGATGTCTAGACCATCCCTGGACGGTCAGCGGTGGGCACTTCACCAGCTGTTG
ACACGACAGACCCTGGCCGAACTCAGAGCGGTAGTGGGGATAGCGCCACCTTGTGGTGACTCTTGGGAGAGCTCCTGGAGAGACGCTAGCCAAG
AAGGCAGGGTCATCTCTCAGGAGCAGGGTATCACCCCGGGCTGCAGCCATCCTTCTTCCTGTATGTCTGAACTGCATTGTTATGCCAGCGGTCC
TGTGGCACAGTTTTATCATTTGTTCCTTCTTTATTCCAGCATTTTCTGAGAGCCTGCTCCACGCCAAACTTGTCGGGTATACAGAGCTAAATCA

GCTAAATCACCTCCAGCAGCTCATGGTCCAGCAGGGGATTCCACAAGGTAACAAGACCAACGAGGTTACGATCAAGCCGCAGGAAAAAAAATTA
TCCAGGTGTTGAGGAGGCACTAGAACATTCCCAGCTCAAAAACTCCATCATTCACCTCTCCCTCAATTCCTCTCACCGAAGTGCAAATGGTTTA
TCTTCATTACCAAGAAACAGTCTGGGCATGGTGGCTCACAGCTGTAATCTCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACTTGAGATCAGG
AGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCGTCTCTACTAAAAATACAAATAAAAAATTAGCCAAGAGTTATGGCGCCCACCTGTAATC
CCAGCTACTCTGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGAACTGGAGCAGAGATCACACCACTGCACTCTAGTCTGGGTGACAGAGTG
AGACTCCATATCAAAAAAAAAAAAAAAAAAAAAAAACCCAAAAAGCAAAAAAAGACAAGAAATACTTCAAGTTCTGGCTCCCACACATCTTTCCAGGA
CTCACTCTTCTGCCCCACTGCATTCCCTAATGCCTCTGCTCCCTGTGAAAGCCACGTGTTTTCCTACCTCTCTGCATTTTCCCACCTCTCTGCA
TTTTCCCACATCCTAGAATGTCCCCCTTCCCTGTATCCCACTGTTGGAACCCATCTCAGATGTTCCTTCCTCCATGAAGACTCTTCTGATTTCC
CTTGGTAGAGTGGTCTTGCCTGTTCTAGCTCCTGAAGCACCATGTAGGTAGGTGCTTTCATTAGCAGCACATACTGGGTGTCCCATTGGTGGTT
GTCTGTGTATATTACTCATCCTCCTACTAGGCTAGCCCTTGCAGCACTGACCTGGGCATATCATATGCCTTTGTTAAATGGTGAATAGACGGAT
ACATGAATAAATGGATGCACGGACAGAGGAATAAATCGATGGAAGTATAAATGGGGCCAGGCGCGGTGGCTCATGCCTGTAATCCCAGCACTTT
GGGAGGCCAAGGCAGGCGGATCTCCTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAT
TAGCCAGGCATGTTGGTGGGCGCCTGTAATCCCAGCTACTCAAGAGGCTGAGGCATGAGAATCGCTAGAACCCTGGAGGCGGAGGCTGCAGTGA
GCAGAGATCTCACTAATGCACTCCAGCCTGAGTGACAGAGTGAGACTCTGTCTTAAAGAAGAAAAAAAGTATAAATGGCCAGATAGATGACAAA
TAGGTTGGTGGATGGGTGGATAAGTGGATGTGGAATGTATAGATGGATGGGTGGGTGGATGGATGAATAGATGGATGAATGGAAAATCTATCCA
TAAAAGGACTCACAAAAGGCTATGTAGGCTGAGTGCAGTGGCTTATACCCGTAATCCCAACATTTGGGGAGGCCAGGATGGGAGAATCGTTTGA
GCCCAGGAGTTTGAGATCAGCCTGGGCAACATAGGGAGACCCCGTCTCCACCAAAAAAAAAAAAAAAAAAAAAAATTAGCCCGGCATGGTGACACG
TGCCTGTGGTTCCTACTATTCAGGAGGCTGAGGTGGAAGGATCACTTTTGCTGGGGAGGCTGAGGCTGCAGTAAGTTGTAATCGTGCCACTGCA
CTCCAGCCTGGGTGACATAGCAAGACCCTGTCTCAGAAAAAGAAAAAAGAAAAAAAATGGCCAGATGTGGTGGCCCATGCCTGTAATCCCAGCA
CTTTGGAAGGGTGAGGCAGGCAGATAGCTTGAGGTCAGGAGTTCGAGACCACCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATACAA
AAATTAGCTGGGCGTGGTGGTGCGCGGCTGTAATCCCATCCACTTGGGAGGCTGAGGCAGAAGAATTGTTTGAACCCGGGAGGTGGAGGTTGCA
GTGAGCTGAGATCGCACCACTGCACTCCAGCCTGGGTGGCAGGAAAGAAAAGAAAATTTTAAAAAAGCCCAGGTAGCACCAGAGGCTTCAAGGG
AGGGAGCACACCCCATGCTAGGATATGCAGAGGCAGAGGCAGTATCCAGGCCAAACTTTCCTTCACTAACATCTGCACCCTCAGCAACTTGTCT
CCCAGAGGCCTAGATACATTCCACTCCCCATAAGAAGTCATGGTCTGGGAGCTGCTCCTCTTTTCATCCTCCCTGGTCCCTCAGGAATGCTTTC
ATTAACATATATTATGCCATCTTCCTGCACTGCAATGACTGTGGGTTTCCTCTTCCACATCTCTTTCCCTATATCATACACACCCTAGCTTGAG
AGCTCCCTGAAGGGAGGAAGCATGCCTGAGTCTCTTTTGTGTCCCTAGCACCTGGCATATATGTTTAATGAGTGAGTAAACAAATGAACAACTG
AGTGAGTGCTGCCTCTTCCCCATAGACACATTTTATACACTTCCTGCGTCCTCTTGTTCAGTTATCTCTCCTGGCCCTCTCCTCCTTACACACA
TCACACTCACACTCCTGACCTTGACACTCTGAAATTCCAGAGTTATATGCTGGGGCTCGGTTTCCTTACCTATTTGTGGCTGATCTAGGGAAGT
CCCAGCCCTCCCCTGAGAGTCTGAAAGAGACGGCTCTTGACTCCTCTAAAGCCATATTAACTGGGTCCCATGGAGGGCAGAAAGGGGCTTCCCT
AGGAAGAAGCTCTCTATTGGGAGGGTAGCAGGATCCTGCACTAACCTGAGGTCTGCTGCCCCAAATTGACCACATCCTCCTGTGTCTGCTGTCC
CTACTCCTGACCAGTGAGGCTGTCCCAAGGTAGGGGGTGGTTGTGGCCTCTGTCTCAAGGCTGGCTGGCAGACACAGCCAGATTTAGAAGTCAT
TTTCGCAGCAGGGAGCCTCCAGTGTGCCACCCACAGAGCCCTGGAAGGTCAGTCTGAGATATGGCTCACCAGGGGCTGGCCCCTAGACCTGGAG
TCACTCCTCCCCTTCTTGTCTCTCTCCTTTTTTTGCCCAGAATTTTGGCAGCTGGTGCTGACTCTATCCTTAGGCAAAGATGGAGTAAGTTCTG
GGGGAAGGGGTGTGCTGCACTGACACTCTAACCGCCCAAGCACTGCCAGGGCAC

HUMAN SEQUENCE - mRNA
ATGGGGCTCTGGGCGCTGTTGCCTGGCTGGGTTTCTGCTACGCTGCTGCTGGCGCTGGCCGCTCTGCCCGCAGCCCTGGCTGCCAACAGCAGTG
GCCGATGGTGGGGTATTGTGAACGTAGCCTCCTCCACGAACCTGCTTACAGACTCCAAGAGTCTGCAACTGGTACTCGAGCCCAGTCTGCAGCT
GTTGAGCCGCAAACAGCGGCGCCTGATACGCCAAAATCCGGGGATCCTGCACAGCGTGAGTGGGGGGCTGCAGAGTGCCGTGCGCGAGTGCAAG
TGGCAGTTCCGGAATCGCCGCTGGAACTGTCCCACTGCTCCAGGGCCCCACCTCTTCGGCAAGATCGTCAACCGAGGCTGTCGAGAAACGGCGT
TTATCTTCGCTATCACCTCCGCCGGGGTCACCCATTCGGTGGCGCGCTCCTGCTCAGAAGGTTCCATCGAATCCTGCACGTGTGACTACCGGCG
GCGCGGCCCCGGGGGCCCCGACTGGCACTGGGGGGGCTGCAGCGACAACATTGACTTCGGCCGCCTCTTCGGCCGGGAGTTCGTGGACTCCGGG
GAGAAGGGGCGGGACCTGCGCTTCCTCATGAACCTTCACAACAACGAGGCAGGCCGTACGACCGTATTCTCCGAGATGCGCCAGGAGTGCAAGT
GCCACGGGATGTCCGGCTCATGCACGGTGCGCACGTGCTGGATGCGGCTGCCCACGCTGCGCGCCGTGGGCGATGTGCTGCGCGACCGCTTCGA
CGGCGCCTCGCGCGTCCTGTACGGCAACCGCGGCAGCAACCGCGCTTCGCGAGCGGAGCTGCTGCGCCTGGAGCCGGAAGACCCGGCCCACAAA
CCGCCCTCCCCCCACGACCTCGTCTACTTCGAGAAATCGCCCAACTTCTGCACGTACAGCGGACGCCTGGGCACAGCAGGCACGGCAGGGCGCG
CCTGTAACAGCTCGTCGCCCGCGCTGGACGGCTGCGAGCTGCTCTGCTGCGGCAGGGGCCACCGCACGCGCACGCAGCGCGTCACCGAGCGCTG
CAACTGCACCTTCCACTGGTGCTGCCACGTCAGCTGCCGCAACTGCACGCACACGCGCGTACTGCACGAGTGTCTGTGA

HUMAN SEQUENCE - CODING
ATGGGGCTCTGGGCGCTGTTGCCTGGCTGGGTTTCTGCTACGCTGCTGCTGGCGCTGGCCGCTCTGCCCGCAGCCCTGGCTGCCAACAGCAGTG
GCCGATGGTGGGGTATTGTGAACGTAGCCTCCTCCACGAACCTGCTTACAGACTCCAAGAGTCTGCAACTGGTACTCGAGCCCAGTCTGCAGCT
GTTGAGCCGCAAACAGCGGCGCCTGATACGCCAAAATCCGGGGATCCTGCACAGCGTGAGTGGGGGGCTGCAGAGTGCCGTGCGCGAGTGCAAG
TGGCAGTTCCGGAATCGCCGCTGGAACTGTCCCACTGCTCCAGGGCCCCACCTCTTCGGCAAGATCGTCAACCGAGGCTGTCGAGAAACGGCGT
TTATCTTCGCTATCACCTCCGCCGGGGTCACCCATTCGGTGGCGCGCTCCTGCTCAGAAGGTTCCATCGAATCCTGCACGTGTGACTACCGGCG
GCGCGGCCCCGGGGGCCCCGACTGGCACTGGGGGGGCTGCAGCGACAACATTGACTTCGGCCGCCTCTTCGGCCGGGAGTTCGTGGACTCCGGG
GAGAAGGGGCGGGACCTGCGCTTCCTCATGAACCTTCACAACAACGAGGCAGGCCGTACGACCGTATTCTCCGAGATGCGCCAGGAGTGCAAGT
GCCACGGGATGTCCGGCTCATGCACGGTGCGCACGTGCTGGATGCGGCTGCCCACGCTGCGCGCCGTGGGCGATGTGCTGCGCGACCGCTTCGA
CGGCGCCTCGCGCGTCCTGTACGGCAACCGCGGCAGCAACCGCGCTTCGCGAGCGGAGCTGCTGCGCCTGGAGCCGGAAGACCCGGCCCACAAA
CCGCCCTCCCCCCACGACCTCGTCTACTTCGAGAAATCGCCCAACTTCTGCACGTACAGCGGACGCCTGGGCACAGCAGGCACGGCAGGGCGCG
CCTGTAACAGCTCGTCGCCCGCGCTGGACGGCTGCGAGCTGCTCTGCTGCGGCAGGGGCCACCGCACGCGCACGCAGCGCGTCACCGAGCGCTG
CAACTGCACCTTCCACTGGTGCTGCCACGTCAGCTGCCGCAACTGCACGCACACGCGCGTACTGCACGAGTGTCTGTGA

TABLE 4

MOUSE NOMENCLATURE
ICSGNM Rasgrp1
Celera mCG14557

HUMAN NOMENCLATURE
HGNC RASGRP1
Celera hCG38304

MOUSE SEQUENCE - GENOMIC

CACTTTTCAAATAACATGAAAGTGAAAACCTGTTGGCAAGACCAAAAGAAGTCTGGGGTAGTGGTTCTTCTTAGGTCATTTTAGAGATTCTTAG
ATCTTGAGACAGAGCAAAGAACTGCTTGTAAATGAGCCAAGAAACTAATCTCCATAATGCTCAGGGTAGAAACTTGTAGCTTACAAGACACTTC
AGAGGTTAGCACCGACAACCATCTATTTAGAATGCGTTACGCGTCCCTTTTTCTCACACAGTACTTTTTAATGACTGATGGCTGAGAAGCTCAA
ATGTTTTTGGATACAGAATCTAAGCTTGTCACAAAGGCGTAGTTAGCTTTTGTTCCAGATTTGCTTCTCACAAGCTGTGTTCGGACAAGTGACT
CGACCCCTCTAAGGCTTAAGTTCCTCATCTACAAAGCGAGGGACCATGACAACTGAAAACCAACACAGTGTGTTGTGAGGGTGAATGAGGTCAC
AGGCATGGCTTCCTCAGAACAACTTCTGGTGTGCACAAGTCATTTCCTCAGAAGGAGGCTGGAGAATCGGAAAACAAGGAGGTACAAATAAATA
TTTTAAACAAAGTACTAATGAGTGAACATTCCTTTTTAAATATTCTGCTCCATCCCAGCACCCAGATCAATGCAAATTAGCATGAAGCCAGACT
TTGCGGTTTATTTGTTTGGTTGGTTTTGCCTCCTACTAATCTTGCCTGATGGTGTAACTGACTTTTCTCAGGGATCCAGAGTTGCTGTGTCCTT
TCTGCTTGGACCTCTCAGGATAACAGCTCCAAGTGTGACCTGGGACATAGGGGACATGTTATGAACCAGGACAAGCCCTTGGGAGTTGCTATGC
CAGCAGCTAGTTATGGGGTATGTATGGCTCTTTGGGCCTCTTTAAATGAGAGTCTAGTTTTATCACATCTTGGGCCTCTAATTCGCTTGGATTG
AGATGGGAGTTCTTTGTTTACACGTTGAGGTCAGGACTGTACTATGTACCCCAAGCTGGCATCAACCTCACTATATCCCTGCCTCAGCCTTTTT
CAAGTTAGGGTTTTTATATTTTATTTTTAAGAGCAGTTTTAGGTTAGAAGCAGAATTGTGTTGAGCATCATCCTGTCATCTCTACATGTGCACA
GTACCCCTCTCCAGAGTGACACATGTGTGACATCTGATGAACCTAGATCATTATCACCCAGAGGCCATGGTTGACATTGGAGTTCTATAAATTT
GAATGACCATTCACTGTCTAGTGTCCCCACACACATTACAGTGCCTTACAAAGTAGATTCACTGCCCTGAAAAGTCTGCGCTACAGCTTTACTT
TAAAAAAACCAAATACCAGGCCTATTTTCCAAATTTGTTATCATAGCATTTGGGAGATGATGGCAGAAAGGAGACAAGTTTATGATCTATATTG
AATCCGAGGCCAGCCTTGGCTCATGAGACCCTGTCTTAAGAAAATAAAAGCATAAAAATAAAAAGAATGTGTATTTAAGCCCCCTTTCCACCTC
ATATACCACTAACTGTTCTCCTCCTTCTCCTTCCTGTGAGTCCAAGGGACCAGGAAATGGCTCATGTCTAAATCCACCCATGACAACTAACTCT
TCCAAGAAGGTGCAAGTCTAACTGCCAGGTGCCGTTGCCAGTGGGTCCCAGGCTCGGGACTCATAGCAATCACAATATCCACAAAGCAGGTTTC
AATTTCACTACTTTTATAATCAGACAAAACACATATTTAGGGTTGGATAGATGACTTGGTGAATAAACCACTTGCTGTCTGAGCATAAGGACCT
GAGTTCAAGTCCCCAGAACCCTTAGGAAGATGGTAGCGTTTATCTTCAGTCCCAACTCCTTCTGGCAGGATGAGAGACAGAGACAGAGACAGGT
GAGTCCCTGGAAGATCAGGAGCCATCTAGCTCAATTTACACAATAGAGAGCAGCAATGAGAACTGGTCTCCAGTAAGCTGGAGAGGAAGGTGTG
ACAGCCAAGGTTTTCCTCTGACCTCAGATACATGTAGGACACCTGTACTCACACACAAAGCATGCACATTACATGCATCCACACGTCATGTAC
ACACACACACACACACATGCACATGCACATGCACATAGACACATAGGCATATAGGCATATTTAATAATGAATAAATAATAATAAGAATCCTCTA
GATTATATTCACCTTTTTGCCACTGCAGTTACAAAATGTTTTTTTTTTTAATTTTTATGAAAGAGAAACAATTCTGCTGCATTTAAGAGCAGGG
TCTTAAGACACGCAAATCGGTGACGTTATCCTCTACTTTGCCTCTACTCTTCCGATTTCTTCCTCTTCCATTACCAGGCAAAACTCACAGCAAC
ACTGGGTTCTATGGGCTTGTCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACTCCAGCAACAATCACACCGAACTTGTTTATTT
CATGTGCCTATCATAAGCCTTCCCCAGATTTTTCACACCCTCCTCCCAGATACAAACTAACAATGTCACAGCAACTAACAGCACAGTGGGGTCA
CACCTGCATGGGCCAAATTAAGATCCGCCATGAGGTGACTGTCCTCTGGGAGCGGCTCTCGCTTCAGAGGCTCTTGTGAATCACACACAGCAGC
ACCATCACACTTCCCACAGCAGGTGGCCATGTTTTTCACTGACTAACGAGCAGGATCAATGACTGAACACTTCACTAACACCTGGTCGAGGGCT
GATCTCCATCCACCCTGGGAAGCTGAAATGAAGTCTTCTCTAGCATTTCCTATCTAATTCAATACAGAGGAGGGGAAAAAACATTAGAGAAACA
AGATAAACAACAACAAAATGACAGTATTTCTATTACATTGAATTTTGTGTGTGGGTTGATACTGAGAGATTATTTCCACCAAAATGTTTGAGCC
AGTTTGCCAGTTAGCAAACTAGGCAGTCATGCAAACTAATCTAGATCCATCCTTGCAACAAACTGTAGCTCCCATCCGGCATTGTGTCCCCCTA
AACAATGCAGTTGTGATTGGCACAATCCAGCTCACATTGTCTCTATTCTGTCTAAAACATGCATTGCATGTGGAAAATACAGTAGCCTACTCTC
TGCTAACTGCCTGCCTTAGTCTCACCTAGAGTTTTCTCTCTACTTCTCAAGCCAGAGGGCACAGAAGACGCAGACATAGAAAATGATCACTCAA
ACCCTATGTGGATTTTCATGGGAATATTGTCTGCCCTTAAGAATGCCACCCTCTGCTCTCACGACAGTGAATCAAACTGAATTGAATGAGAAAA
CCTTAAGCCTGTAAAGGATAGGTACGCTTGGTGCAGGAATGGTAGAAATGGCTATTAGAATGGGAAGGTCAAAATCAAGTCATTTGTGGTTGTG
TCTGAAGTTGATTCCTTTAGGTTTCATTAAATAAAAAGAGTGAGGGTTATGGAGACATGATCCCCACCACTGAAGTAAAAGCTGGGTGAAGGCA
CATAGGTACCTGCGTCCCCCGTGCTTTAGGGTGGACATTGGAGAGTCCAGGACGTCTCTGGCCAGCCAGCCAGGCCAAAAGAGAAACATCAGGG
TTAGTGAGAGACCCTGGATTGAGGAAACAAGACAGCTGTCATCCTCTTCTGATCACAACCGCATGTGAGCACATGGGAACACACACATGTGTAT
AGTACAAACACAGCAAACCTACACAGAGACAGACAGACAGACACAGAGACAGAGACAGAGGAGAGACTTCCCCTTTTAAAAGGAAACGTTTCCTTC
CGAAGCTTAAGGATACATCTGCCCAGTCTTTGAGAAATCTCTCCCCACATTGATTTGCCATTATTTTCTCTGCTACTCCCATGCAAGTTGGACT
ACAGATTTTCAGGAGTTTTTGTTTCAATGCTGTGTTTATCACAGCACTTTTTTGAATGCATATTGAATTGAGCAGTTTAAGGGTTTGGTTTTGG
TTTGGTTTGGTTGGCTTTGTTTTTGTTTCTTTGTTTTTACCCAAAAAAAATCACGTCTGTTTTTTTTTTTTTTTTTTTTGGTTTGTCCAGATGTT
TGGATCTTTCTATAAACTGCACCCCACCCCAGCATTTACCCATGCACCTTTGCAGGTGATAAGTGATTAAGCAGAATGAGTTTACTGAGGTATA
CAATACGAACTTTATAAATAGTGTTTGTGTGGCCAAACTGGTTTTAACTTTGGAATTGGTGCTGGTAGACTGTACTGTCGGCCTCTGGAAAGAG
GCCCAGTATTGAATTTTAATCTCTTCAGCCCTCTTTTTAGACCTACTTGTCCCAGGCACCCACTGGCAAACCTGAGGGTGTGTGCTAATTGGAT
CACACCCAAAGGGGAGAGCAGGTAGAAGGAGCTGGAGCAGACTTCGGAGAACCAGAACCTCCCCGCCCTGCCAAGACAATTGAGAGGCAAACAG
ACTGATACACACCAGTGGGTGAGGGGAGGGTGTGTCGCCCCAGTATTGTGGTTCTGCTCTAACTCTCCCGAACCCTGCATATCCCTTCTCGTTA
GCATCCCTCCTTTGTTCTCCTCTCCCCTCTGGTCCAGCTCTCTGTTCCTGTGATCCTTTGTATCCATAGCCTGGCCCTTATGTCCTCTGAAAAG
CTGGCCCTTCCTCCATGGGTGTGAACACAGCTCCAGGGGTGTTCACACAGGATGGAGCATCCACCCTGAGCATAGAGGAGGCAGTCAGAGCATT
AAGAGTCCTGCGTCTGGGGCAAAGTTCAAGCTTCAGGCTCTGATTCTTTAAAACTCTTCTGAGATAGGCATTGAGCCCATTTTTTAAAACGTCT
TGGGGCTGAGAATCAAATTCAGTCTAATCTAAAGTGAGACTTTAAGTCACTGACTGAGTCCATCCTGTCATCCAAATGTTGGTAAGAAAGAGTG
ATACTGTCTGTTACCCTTGAACAAAGTAGACTTACCCAGTTAGCATCAAGACGGGCAATTCTCACACATCCTCTCACCTGTACCTGTAGAGGGG
TGTGTGTGCCTGCTAAAGCAAAAGTCAGGTCCCAGCCCTCCTCTGTTATCTCCCTTCAGGAAGCTCTCNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTCTG
TCTCCAAGAATAAACATCATGAGACCTTTTCTATGGCTTGGTATAGTATGGGATGGGGTGGGATGGGGTGAGATGATATGGTATGGTGT
CATGCTGTGTCATTCTCTATCATATCATATAAAATCATATAATACATAGTATTCTATTCCTTATATTTAGTACAGTTTATTACATTATCACTAC
TTGTCTATCCTGCTAGCATCTTAAAAGATGCAGAAGTCAAATGTGATGCCATTTAGAGACACTGTTTCTGCCTATGTGCTCTATAGGGTAAATA
AATACAATTCTGCCAGGCTCTGGTAAAGAAAGTCAAAGAATCAGACAGCAATTTCCAAGCAGCTAACAACAAGAATGTGTTTTCACAATTAGGA
TCTGTACTTGGAGTGGTCTAACATAACACAGTGTAATTACCTTCATAAAAATCCCCTTTGAAGACTTGGGGATAGATCAGTTAGTAAAATGACT

GTCTAGCTTGCTTGAGCCCTGGATAAACCAGCGCTGCATAACCCAGGTATATCAGTAGGTACCTGCAATGCCAGCAGCACTCTAGAAGTAGAGG
TAGGAGGAGCAGAAGTTCAAGGTCAAGGCCATCCTCAGTGACATAGAAAATTTGAGGCCAGTTGGAGTTACACGAGATTTATTTAAATACAAAC
AAACAAATGGACTTCTGTGAAGATACCTCAGAGCAGTGGAGCAATGACAAGCCCTCCTCCAGACAGATACTCCCTGAGAGAACTTCAATGTACA
CAAAGACAGAGTCCAATTCTAACCCCAGGTCTGAAAGACAGAAGCAAAGGATCACCTCTCACAGAGACATGCCCTCCTAGCCTGGGTCTGAGGT
GAGTCACAGCAAAGACCATATTTACAAGCCTATGGGTTTGCAGATGACAATGTGCAGAGAGAAAGACACTTTGGAACATTCAGGCCTAAATTCA
ATGTTATTGTCATTGTTGTTGTTGTTGTTAGTCAAAAGTCCTCCTTTCATGACTCAGAGATGTATGAAAGAAGAAGTGGAAAGACTCT
AAGAGCCAGGAACACTGATGACTCCAGAGAAACAGTGTCTTGCAGACACACACACACACAGCTGATGCACGTGTGAACTTAAGAGACTAGGACA
GTACACATAGACCTGTACAAGTTCAAGCCAGACACAATCCCAGGGCAGAGACAAGGAAGTAGCTACAAGGACCCATTTCTAACACAGAAGCTAT
TTGCTGTTAATACCTCCTTGGGAGACGGAAAATTAGTTTATACCACTGGAATCCACTGGGTATATTAACCACGCTCCAGGGCAGGTCTCATGCT
CAGGAGCAGGTGGCCAACACAAAATAGACTCCATGATTTGTGTGTGGGTCACTGAATTTTTTGGTTTGTTTTGTCTTTCTGGTTTGTTTTGCTT
TTTTTTTAAGAGAGGAAGAATATGAATTCGGGTAGGTGGGTGTAGTAAGATCTAGAATCAGTTAGGGGAGGGGAATGAATAGGATCAAAACAGA
TCATATGAAAAAAACTAAGAGGCCCATAAATAAAACCAAAACCCACGGTTCAGGGGCTGGAGCAAAGGCACAATAGTGAAAGGCACTTACTACT
CTTTTTTTTTTTTTTTTTGTCTTTTTTTGATTTTTTTATTTTAATTAGGTATTTTCTTCATTTACATTTCCAATGCTATCCCAAAAGTCCCCCA
TCCCCTCCCCCACTTACTACTCTTGCAAAGGACCTGTGTTTGGTTCCCAACACCCACATAGTGGCTCAGAACTACTCCTAACTCCAGTTCCAGG
GGATCCAACACCCTCTCCTGACCTCTGGGGGCATCAAGCATGCACAAGCTACATACACATACATGCAAGCAAACAAGGAAAACTGTGGAGCAAC
CAGCCACAGTCACATACATAATGAGGCCACGTACCCTTGCCTCAGAGACAGAACCATGGTCAGCAACTGGGCCATAATCTGACCCCGTTTCACC
CTCTGTCTCTTCACTCTCCTCTAGAGCCCAGTGCCCCATGGATGCTGGCTTTTTCTTACAGAGCCAGCAACTTGACTTGGATACAGACCATGGG
GGGGGGAGCTCATCTTGGACATTTCAAGGAGGATAGTGGTGTCCTAGCACTGAAGGGGCAATCTCTAGATGGGAGAGATTTTTAAAGTCACAAC
ATATTTATATGTTCATTTATTTGCTGCCTTGGTTACTGTCCATGTACTAGACATGCGAGCTCATGAACACAAGGACCTTGCCTGTCTTGTTCTC
TCCAAGACTCTCAGTAACAAGAACAGCATATGACACTAGGGAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGCACGGCAGGAGTGATGAGAGTATAATGTGAGAAGTCAGGTACC
CAGCAGACCACGGCTGGAGGCCAACCAGACAGGAGGGTCCATCCATGAGAGTACACAATGCTATGATATCTAACTCTCATTTTCTAGGTAATTG
GAGGGGAGGGTGGTTCCTAAAGTTTGGAAACAGAGAAAGAACACAGTAGTGCAACCATGCAGTGGTGTAGGGGGTGGGGGGCGGTCCAGAGAAA
GGAGATGTCAAAATTAGGGAATGCAGTCTACCCCATAGATCCAGGTGGGGGATGATGGGAATACACACGGGTTTGTGGCTTTGGAGACAGAAAG
GAAGTGACAATACAAGGGAATGATGGAGAGAAATGTCTCTACTAGATGCCAAGTGTAGATACTCAGCGGACCCCTGTGGGTCATGTTGAAGCCA
TGAAAGAAAAACGAAACCACCTCACTTAAGCCTGGATCATATAGAAAAGCCAATGACAATTAAACCATTCCTCCAAGAAAAAAAACATATCCAG
AAAGTAGGGCTGCGGTTGCAAAGGAGTCCCTCGGGTGAGCAAAAGGTCTGTGGACCTTCGTTAAGAACCCGATTGAGAAGAGGAAGAAAGACTG
AGTGGATCCTGGCTGCCACAGAGACATGGGCTGTACCAGTGAGAAGGGAAGAAGCAGCAGGAAAGGGGGCAAGATGGGGTGGGAAGAAGGAGAC
AGTTGGTGCCCAGTTGGAAGTGCTTCATATGCACAGGAGACTGTGCACAGGACAGGAGGTGAAGAGGGAAAGGAAGCTGACATGAGTTTTAGAA
GGTTAGGGGAGGCAGGTTGCTGAGGGAGGAGTAGGTGAAGCTCACGGGAGGTCTCAGGTGAGTACTATCTGGATCTATCACAAGTATTCCATCA
TTTTGGGAAAAGTAAGGGGGGCTCTCACCTCATCCAAAACTGCTCCCAGTGACGCCACCCTGCATACCGTCTTCATCTCTATGTTTGCCTGTAT
CTGTTCTGCCCTCATCCTGCATGACCCCGAGGTGACATCACTAATGCTCGGGAGTATCCTCAGGAGAAACGTCTTTTCAGGCTCTGTGACAAGA
ACCTCGGATCTTTTAAACATTTTTTTTCTGTTTCTTTTTGTTTTCTTCCTTTTTTGGGGGGTGGGGGTGGGGGTGTCTTTCATATGTAAGGAAC
TGAACTATGTAGACCTTCCTCTTGGGCTTGGCTGACCCCTTTGAAGCAAGTGTGTAGTAGATTCTGTTTTCCAAATGTGTAAGCATACATTGGT
ATGTAATTTTAGACTGCTCTCCACTTCTGGCCCCATTTATCGGCCTTGTTTTGTTGCTGTTGTTTCTCATACTTATTTTTGTAGGTTGTGTAT
TCTTGTAAGTGATCCTGAATTCTTTTCTAGGACAACATTGCACATAAACATGAGGAAATGCACGCGTTATAGCAGAAGGAGGTCTTAAAGTCCA
GAACGTTGTGGCTGGGAAGATCACGGGATGTGATAGCAATAACGAGGGTGTTATTAGGCCAGTCCAGCAGGGACTTAGAGACGCCAGGCAGAGC
TCAGTCTGGGCCACCTCTCTTTTCGGTTTACTGGCTGTGAGAGCCTGGTGTTCTCTAAATCTTACGCAGTGCCCTCTTTGCGTTTGGAGGGGTG
GCTTAACGAGGTAACATGTAGGAAACAGCACTGGATCAGCATTAGCTGTTGGTATTACCGTGGCCATGTTCCAGACAAGTAGCAGGTAGGTCTC
CCCTCTTGGCCAGGTCTGCTGGCACGCTGACATTGCAAGAAAGCCCCTCCCCTAGCCTTCCACTCCCACTTGGCTCTCTTGGTCTACCACACCC
ACAAACTCCCAAGCAGCAGCCTCTAACCTGACAGCTCACCTCCACACCCACCGCCTCCTCCGTAGTGCAGTGCACACAGCTAAGTCTTCTCTTT
TTTTAAATATGCCAAAGAGAACTAAGTGCGTAGTAGTTTAGGGGGGTTCTGCCTTCCTTGCCCAGACCCGACTGTGTACCCTCACTGATACATA
CAAGACAGTCCTGCCATCCGGGAAAGGGTCTCAGCAGAGCCCCCACCCCCACCCCCCTAGGGGACTCGTAGCCTTGGGTGGAGGCAACTCTTCG
CAAGGCTCTAGCTTTGTCAATTTCGGGGCAACTCACTCTGCACCCCTCGGACCTAACTCTTGGGCTGGGAGAGATGAATGGCAGGCGGGGATGA
AGGGAGACGCTAGGGCGGCGCAACTCCTCGGGGCGCTACCAAGTAATGGGGGCAGGATTCGAAGAAGAACTGAGGGCGCCCCACGTTTCCTCCA
GCCTGATGATAACATCAACGCCTGTCAGGTGGTTGGTGCGAGAGAGTGTGTGCGCGCGCGGGAGCGAGCGTAGGGAGCGCGCTCGCACAAACTT
TGTGCCTGCGGGTGAGCCTGGGTCGGCTCGCCGGGCTCCAAGAGTGGTCGGCTCCGGGCTGCGAGGGCCAGCGGCGGCCGAGGGATGCGCGGCG
CCCGGCCGAGCCGATCCCACCGCTCTAGGTGAGACGGCTCCAGGGGCGCAGAGAGCCGCGACCATGGGAACCCTGGGCAAGGCGAGAGAGGCTC
CGCGGTGAGTAGCTGCGTCTCCTCGGAGAGCGCTGCACCTCTACTGGGGAAGGATAGCTGAGCGGTGTGCCCTGTGGTCCTCTCCAGTGGGTAC
CAGGAGGGACTAGACGACCAGGGCGCCTCCCTCGGAGGAGAGTTGCCTACAGGGGTAGACCATGATCGGGGACCTGGGAGCCAGGTCAAGATAG
GCGTGATACAGACAACCTCAGAGTCCAGCACACCAGGTCGGGAAGAAAGAGTTGGGGTTGCTGGGGTGGCGAGGCCACAGGTCACCTGGGCAGA
TCTGGAGTGGTCTGAGCCCAGCCAAACCTTTCACCTACCCAGCGCCCACAACAGTCGACCTCCCTGGATGCTCTCGGTCTGGGCACCCCCCGGG
AACTCCCACTCGCACACTTTCCGTGCCCTTGGCACCCGCTGCGGGCGCGGGTCTAGGACAGCGCCACCTTGCGGACTCTCCTGGCCTTTCAGGA
GCGACTGGCGGCAATGGCTGCAAGCGGAGGTGGCAGTGCTTGGCTGCCCTTTGAGGAAAAAGAAGTTTCCAAATCAATGGTCTATGAGTCTACA
CCCCTCCCCTTATACTCTACAGAGATGTTTGGGAGACGGAAGGTGAAGGAAGAATGGCTATGAACAGTCTATCTCTTGGGCAGCAATAAGGAGC
CTGGGGTGGGGGTTGGAGGGATGTCAAGAAATTTAGTGTTTGTCCTCAAAACACCAGGACCCCGTAACTGCCTGGACACCACTTAGCCTTTGTT
AGGGCCGAGAACGTTGTGTCCTTCACAACGCCATTCACGTGGACTCCGATATGACGGCACCATGCCTGATCTGTAACTATGCCCATTAAAATTC
CCTGTTGGGCCATATCATCCCCTGAGTGTTCTCAACCTTACCTTGCGCTACACTATAATGGGTTAGTCCATTGAATTAACTCTGCATTATTGGC
GGTGTGGGGCAGGACTGGAAGCTACACTCAGCAGAAATGGCCCTGTGAAAGCTGCCTTTTCTTATAAACAACTATGAGATGTCCCGGCCCTCCT
CTGTTTCCTCCTTTGCCCTGTGGATAACTGTGCCTGGAGACTAAGTCCCCCAAATCGGTTCATACTTCGAAACCTCTCCCCAGGCTCTGTGGGG
TGGGGAAGGCAGACGCTAACTACTGCAGGGCTGAGAAAACATCTTGAAGTTACTGGGTTTCTTTCAAGCTTTTGTTTTTGCTGTTATTGTTGTT
ATTTTGTTTTATTTAATTCATAAGTTTAACTGGAAACGTGTGGCTACTGCCCTTTAAAATCATGACTTTGTAGAATTAGAGGCTGTTCACTCTT
CAGATGGTTAAAGCACTCTCAAAGTTGCCTATCATAAAGCACTGTAAAAATCCTTACCTACAACCATCTCACCAAGAGGTGGAGGGAGGGGAGA
GGGCAGAGGACGTGAAGCGGGGATCTAGCTTGGTGAAGAGTGTTTGCCTGGCATGCAACAATCCTGACTTTGGTCCCTAGCATCATGTAAGAAA
GAAATTAAGATATTTCTTTTAATTCCTTTGGTTGCATCTTGGTGGAGTGATAGGATTGTTCGTTTTCAATCAGGTATGATGGGGGCATATTTGC
AATCCCAGCACTGAATAGAAAAGACTAATACAGAGTTTCAAGCCACATAGTAAGACCCCTGTCTCACAAAAGAAAAACAAAACAAACAAACAA
ACAAAACCAAAACAAGCTAAAAAAAATTCTTTTTAAAAAAAATGTAAAGAAAGAAAGAAAAAGAGAATGTGACCTGAGAGTTTTTCCAGGGCAA
GCAGTCAAGAGACTAGACAAAGCTTACATGTGCACAGAGTGCTGTTGGCTTTTAACACTTTGCCTTCCCTAGTTTCTCATGCCCTCTGAATTGC
TCCTCACTGGGCTAGGTTTAGGTAGTTGTCTTTTTTCTAGGAAGGGAAGGGAGCCAAGCTAGGAAGTGTGGCTTGGTGCTAAGGAAGCTGGCTG
CTAACCTGCTGTGCATCTGTGGCCAATATATCTCTATTGCATAGCTGTAGGTGTTTGGGAAAGGACTGTGGAGAGACGACTAGCCAGCTCTTGG
GTCCTGGTGACCATTTCAGGAACCTACTAAACAAGGAAGAGCTGAGACGCTGCCTCTGCATCACCAGCCATCTTTCTGAAGCACACGGTTGTTA
TACATTGAATAAGCCCTTTTGGGCTCTTGACAATCTACTCACCAATTTCAGTGCAGGAATAAACACACAGTTTCATGTAAAAAAAAATAATAAT
AAAGCCTACTAGATGAATAAAAGCAAGAGGGACCCCAGATACTAGTCCCTGAGATAGCCCATATGAACAGCCTCAGTATGTGTAGGACTCAGTT

TCATATCACAAGGTCGTATCTTTCTAGACTGTAGCTTCAGACACAATGCAAATTCCTGCACAGTATCTTTGGAACATGGAAACTTCATGCAGAC
TGTTGCTGTTTTCAGGTTATCAGTTTATTCTCAGACACTGATCTGACAGTCTCAGGGTCTGGATAAAAGACGGTGGTGGTCAAGAGTTTAGTGG
ATTTCTGCAGCACCAACCTGATTCTTTGGGAGTCGTTGGCTTGGGTTAGCATGTTCCAAGTCACCAGGGTGACTGCGCTTTATTGGTCCTAGCT
TGGAACTGAGCTCCATGCACACCACAGCCCGATGCTCTGAAGTTGGAGCAGAACTGGAAGGGCCAAGGTGACTCCTGGAGTCTGGCTGTGTGGT
GTGTCCTGTGTTCAGGGTACTGTCTTTGTGCAGGCTGATTTCTACAAACCCAGGTGTGCCCAGGGTGGGGGCGGGGTGGATTTCTGTTTGTTTG
TTTGTTTGCTTGCTTGCTTGCTTGCTTGCTTGCTTGTTTTAACTAAGGATTTGTTTGGCCTCTTCTGAGTGAGGTTTGAGACCTTGTCAGA
GGAGCTCTTCCACCCAGCCCCTGGAAGTGCTTTGCCCTCTGCTTTGCCCTCGACAATCTTGAGACATTCACCTAGAAGTTACGTGGTTACACTC
GCTGTCTTGGTCAGATTCCCCTACTAAAGCTTTGTGTATTAGGGAACTATGAGATGGCTTTATACAAGAGTAACTAACACGCTATGGACATGTA
TAATTTACAGAGAAAGTTACAGAAGCCATCTCACCACGGTCTCCCCCCTGGCCCACTGTAATATCTTACTCATGGGAATAAGTATGCGGCGAAT
CGATGCAGACTTGTGTTTCTAGTATGTGCTATGTTTCTAGACTGTTAACTCCTTCTCTTCTTTGACAGTTAAACTATACATTAGCCAAGGGTGC
AATGAGAAAAGAACTAAGAACATGCAAAAAAAGCTACCAGCAAAAATGCCTATCATTATTAAACCTTCAAAGATTATAGACGTGGGTCTCTGTG
TGGTTTTTAATAAAGAGGAAAATAAAACATACTGCATGAGACACTTTGCATGGTGACCTGTATCAGCCAGATCACGCCAAGCTAAGGATGAGCA
GACGAAGCGCCACCAGACTCCTAAGCCATTTCCAGATCCAAAATGGTTACTTTATATTCGGTTCTAGAGCAGGCAGCTCAGCTCAGAGCCAACC
CCTCCCCAGTTTCTCTTCGTTGAGGATCAATGTAAAGACCCGATGGAATACTGTTTACTGGTCTAAGTGATTCATAGTGGTTCCTTGTGTTATC
AAAAATGAAACCATTTATTAAAACCAACCAAGATGTGTAAGAAATGCAGAGATGACTGAAAAATCTAAATGTCACCCCCCTGCTTCTTCAAGAT
TCTCAAAGCTAGTTCAGGGGACCTCCTGCCCTTCTGTATCTTTGGCATTGCTTAAATGAATGAAACTATCCAAAAAGGATGCTAACTGAACCAG
TCCTTCAGACCCTGGGTCCGTAGCCTAGCAACTAGAAGCTAAGGGCTCCCAAGGAAGCTTCTTCCCTCTGCATCTCCCCTTCTGGAAGAGAGAC
GGCAGCATAGAGCAGTCCTTACACCAATGGGGAGAAGGCTATTGCTGCCCTGGAATCTCACCTTGCCATTTGCTGGGGAGATGTCTCTTTAACA
GCCAACCAGTCTGTTCAGTGCTTTTGCCAAGTGGGAGGGGTATGCCTTCTCCCAGCCCAGCTTCAGAGACTCACTGTCCTATCTCCTCTTTGCT
TGGTCTTCGGAGCCTGGAGCTGCCATTGAGACCCCAGCTGCTCTGTCTATCCTCACTTGAGTCTCTCTTTCCCCCAGGAAACCTTGCCATGGC
TCCAGAGCTGGCCCCAAAGCAAGACTAGAGGCCAAATCAACCAACAGCCCTCTCCCTGCCCAGCCCAGCTTGGCCCAGATCACCCAGTTCCGAA
TGATGGTGTCCCTGGGACATTTGGCCAAAGGAGCCAGCCTGGATGATCTTATTGACAGCTGCATTCAATCTTTTGGTGAGTTGGGCAACTGCCC
ACCTATATAGAGATTGCTGTGTTACTTTGTTCTGTGCCTTAAAAAGTGTCTTATACAAGAGCAACCTAGATTGTATTTTGCCTTTAAAAATAGC
TTTAGAGCTTTTGAAATGTTGGAGACAGTCTGTAGCGCTTACGGCACATGACTATGTGGGTGGAATAGGTCGTGATGAGAAGTACAATTTGAAG
TGAGAACTTAGTGAGCGAAGTTGGCATTTTCCTCGCATGGTGGTTTGTCTCATGGTGAGGGGAAAAAAATCACAAATTGATATTGGGTATTCTT
CTCCTCTAGTTCTTGTGGTCGAAAAATCCTAAGCCTGTCTCACACCGCCAAATACAATTTGAAAACTTTTAGGTCATTTGGACAAATAAGGTCT
CGACAGTTCCCCCTTACAATCTGGACTTGTGCTGTGTTTGTGACTAGAAGATGAGGAGCCCATGTGTTGCAGGTCGAGGTTGGAGGAGGACCTGAGC
ACATGGGCACATAGGCCGGCAGCGGTGTATGGTCCAGGTGCTCCCCTCTGTACTGCCAACAAGCAGTGCCCTGAAAAGATTTCTTTTTATCCAA
ACATTTTCTTTTGATGGTTGCTTATGAAATGGTGACTTGAAAGTAGTACTAAATATTGGGTTTGCTTCCAAAAGGGCAGGATTAAAACCGACAG
ATTTCAGTGAAACCCATTAATTCAGAGATGTTTCAGTGTCCCCACGTCCCCTTTTCTATGCTCATGCATCTCCCTCTGGGAAGGAGATGGATTG
GTGGGACTCGGCTCTGAAGCATCAGCCCACCCCAGCCTGATCCTCCTGGAGAGCAGAGGGGAGTTGTGCTCAGCTCTCAGAAGTGGGGACTGTT
GGTGTTTAGGCCCAAACAAGGACCTTATTTATAGACTTGGGGAAGACTTGGCACTTTGGGGAGATTCTTTTTGTGCAACTGCCTCAGTTTTGGT
TTAAAACAGTGCTTCTTAAACATTCTTGCACACACAGTTTGGGGGTTTTGATTTTTTTTTTTTTTTTTTTAGTAATGCAGATGGCTAGGTCCCA
CCCCCAGAGTTTCTGCCTGAGTAGGTCTGGCCAGGGTGGGGTCCAAAAATTTGCATTTCTAACGAGGTCCCAGGTGAGGCCTTGACAGCTGCTC
CCAGAACTCCACTTTGAGAATCGCTACTTTTAAGTTCTGTTGGCTGTAGACTTCTTGACTTTGAAAGAAAGCAGATTGGGTGTGTGACTCAGGC
TCAGTGTTTACCTAACAGGCAGGGGCTTGAGTGCAGGCTCCATCCCTGAAAAAGAAAAGGCCATTCATTCTGCTCCCTGTTTTATCTTTACCCG
AAAGACTAATTCAAGATGAATTTTCTACTGCTAAGCTACATCTTCACCTCCAGATTGAATAACTTTGTGTCTCAAAATCATCATAGACGATTTT
TTACATTCAAGGAGACAGCTAGAAGCTGGTGGAGACCAGTGGCCATGTGGTAGTCATTAGTGTTGTTAGATAAGCTCCTTGACTGCTAATTGTA
TTCAGTAGACCTGCAGAGAGCATAGTGTAACTATTGCATGAACAAGGACCTTTACTCTCTCTTTCACTGCTGAGAACGCTGGGGCCATCACCGT
GTTTATCATGTGAACGCTCTTCTTTTTCTACCAATCATCCAACTACCTGATGAGTTCAGCCTGTTTTCTTACCCTTCAAATACCTGTAGCTTCA
ACCTCAAAAATACATGGCCAGTTCTGGAGTCCTTTCCAGAAACAACCAATCAGAACCCACTCCCCCAACCAGCCCTACAAAGGCAATGGTGCAT
TGTTTCCTGCAATATGTGAAGGTAAAAAGTGGTGCTTTAAAAAACAGGAGCTGAGTAAGTGCCACTGAGACTAAAGCTCCTCAGGCCACTACCA
AGAAGCATTTATTAAGTCTGTAATTATGCCTGACCCTGCACTGGGTGGCACCCAAGAAAGTCACAGTGACCAAGTGCCTGTTTCATTAGCACTT
ATGACACCTGTGAAATACCCGGTTCAAGAACACACACACACACAGAGACTCACACATGCACATACCTGTGATAATAAGTTAAGGTGTGGTGTTT
GGAAAACACACACACTCACACACACAGTCACACACTCACACACATACACTCACACACACATGCACACACACTTGATAA
TAAGTGAAGGTGTGGTGTTCAAGAACACATTCACACACACACACACACACACACACACACACACACACACACACACTAACAAATGAAGGTGTGGTG
TTCAGGAGCAAGTTCCTTGTACTAGGTAGGGTTTGAATCAGGGCACTTATTGATAAGGACCAGTCATCACCTCACATACCCTGGGCCATAGGCA
TGCTGTGGACAAAACCCCGAGCTTTCTGTATTATATGTTACAGAATTTCCCATCACAGAGTTTACATGAAAGACACAAAACAGCCAAAGCAGGG
AAGAATTAGAAGGCTGCCTTTGTGAGTGGCCTCCTCTTGTTATCAGCTGACCTAGCTCTTGTGGGAGGAGCTACACTCTGAGCCGTGAAAAGCC
GGTTTGAAGATTAAGGCAACTTGACTAATTCCTTTCTTTACTTTTTCCTACCTGCTCATTTCACCTTCATGATGATGCCTAGGAAGTATTTCAG
GAGGCTGTGTACACAGCACCCACAGGGCCCCCCCCCCCCCGAACACAGGGGCCATTGTCATACACATTTTAATTAGTTTAAAACAAAACCAAGTG
TAAAGTTTAGTTCATGCCACAGCAGCCAGCCTTCCGAGTGCTTGATGGCCTCAGGTGGTGACTCCTGTGAAACCGAGTAAGCAGACAATGCCTG
TGGTCACAGAGTCTGACTTGGGTACTTGAGAGGGAAGACAACTGACCTGAGGAGACAAACGGTAGGTAGATTTTTCTGGAAACTGAGGTTTTAT
TCATGTCTCAGGTACACCTAAGGGACAATCTAGTTACTGTTTAAAACCTCATGGGCATTGAGACGTGTATACTGAAAGCTGTCTCTTGAGCATA
ATTAAGTGTTAGTTGTCCATCCCTTCCAGCAACTGCTCTCTTGGAAGGCTGGAATAGAAGGCCTTTAAGGATACGAATGCAAATGAAGGTACTG
TGGACGGCCCCCAGCAAACCTCTCTGTATCAGAAGGTTACAGATCTGTGATTAGAAACACCGAGCCTCCATTCCGTGGCTTACCCCTGCACCA
GCCCACTCCCACCTTCTGTTTTAATCCGAGGGCATGCTACCCATCCCGACTGTGGCTGCTAGTTAACGCTATCTGAGGTAGATCATCACAGCAG
GTGAAACATACCGTCCGCTAACAGGTTAAAGGCCTATGAGAAGCACTTAGGCTTTTCGCTTCTTCCTCACTTTGCAAGAGGGCTCTGAGCATTG
GGGCCAAGTGGAAAAATGGAATACCCCAAGTTACAAGGTGCTTTCATGTCTCCTCTCTGGGCAAGAGAATTCTGATAGCATCAGGGAACAGTTG
CACTCGTACCTCAGAAAGCACGGTAGCAAGCAGTTCCTCTGTGTCCAGATCTGGATGTCAGGGCCGAGGACAGTGCATCCAAGTGGCTTATATT
ATATGGAGTGTTACTTTTTTTTCTTGGTGTTCTGTATGTATTAATTTTTCTTCTATATTCAAAACAACCCTGAAGTAGGTCAAGTATTATTATC
TCCATTGGGTGAACAAGAAGAAAAGTGGGACATCTGAGATCTGAAACAACACACCCTGTACCCACCATCTAAATAGAAAACAGGCTGCCTTTTT
CTTCTGCCTCTACCACCAGCAGCTATTTGTACCCTGAGCTCGTGCAGATGTGCCTCACTTCCCAAGACAGGCCTCATAGCCTCAGAAGAGATTT
CAGATTTTGTGTTGCACAAGGTAGGCTGGCAACCTGTGCTTGCTAGTCTGCAGGCCTGGTCTCCCTCAGTTAGAAACCACATTCCGTTCAGTGC
AAGAAATAGTCAGACTTCACCTTTATACCATCAACTGTCTGGTTGAAGTTAATCGAGTCAAACTTATATTTGTAAGTTTCTATGTGTATGCATT
GTACTAATGTTTCCCAAACTAGAAAGACCCTAAAACCAGTAAGAGTAGTTTCTGTACTATGGGCTAGTTGAATACTAAGCTCCTTATAGACCTT
AAGGAATTATAGTCTTTGAGACTGGAGCTGAGGAAGGGCAAACACGTGCTTGCTGGAACCGCTGTCCCCTCCACAGCAAAGTGAAGGTTGGATG
TTCCTCATCTCAGCTTTAACTCTGCACACTGAGGCAAGGTGTACAGGAGACAGGCACCACACCACGCTCTATGACCCAGATGGGTCCTTAGCAC
TGACACCTGCAGGCACCAAGCCACATATATAAGGTCACATATACAAAGCCTTACCTAGGGCTGATAACAACCCCCGAGGGTAAGCCACAGCTGT
CCCTGAAGCCTCCTCATGGAATTCCCCAGATTTACAAGGTTTCTCGTAGAAAACAGCAAACAGCCATTTGCGGGGGGCACCCTACCCTAAACAC
CTGGGCGTGTCAGAAGTGCCCAGTATGTGGAGAGAACTGGCATTCTTCGTTCGGTGTGCCACTTAAGCTAAAGAGCCCTTTACCATGTCTCTGC
TGGGGTGATATCAACCAGTGCCCCTGCAATATCTTCCCTTTCATGTGTGTGAGTTCTGGTGACTCTTGGGTCTGAGGAAGGAGATGGTTTAACC
CTCTTCACCTCAAACTTTCCTGTGTGGCATTATCTCCAGGAGCCCTCCCTGTGTACTGGGGCAAAATCAGGCCTTCAGACGATGATGCCTAAGA

GCCACAATTTCTCAGGAGTTCTGGGTACTTTTCTTCAGTAGGTGGACCCAGAGGAATGAATCTTACTGCTGACTGAAAGACAGAGGGTGTGGAG
TAGCTGAGCACTTATGGCTCGTGGGTGCAGTGGGGGCGTGGGCCTTTCCCTGATCTGACCCTGCTGGGCTTCTGAACAGCACTGTGCCTTGTTA
GTTTCCTCTCTTAGCTGATAGGGAACTGGGACTCAGAAGACGGAAAGGACACATGCCTGGCCCAGCTCATTACTGGCCCAGCTGCTGAGACCAA
AGCTCAGGTCGGCTCTCTGAGGCTTGTGTTCTCTCTGCTGGAATAGAGTCTCATCCTGTGTGAGTTTGTCAGACATGCAGCCCCTCATGAACTG
ATACCGATCACCACTTCCCTGTAGCCCGCTTGCTCCTTGGACATCCCAGAACATGTTCTTAGGCTTTCTAGGAAAACAAAACCAACTACAAACA
GCTCTGAGAAGCAATGGAGCCAGTAGGCTTTTCAATTTATAAACCGATAAAGCTCTCGGGGAAGCCAGAAAGCATGAAAGCGGTCCAGCAAGGT
TTAATTAGAGACACTCTTTGCCTGGGAGCATGTTGGAAATCCCAGCACAAGCTAGCAGCAAAATTTACAACCTGTCAGCCTTACACTTGGGACT
TGGGGATGGGGGCAGTACTTCATTGCTCTCCAAGACTTTTCTTCAGGCTTACATTTGCTGCTGTGGGGAGATGGTCAGATCCATTCCTGATGCT
ACAGTAAGGTCTCCATTCTTGTCTCCAGCCAGCCTCCTGGACTCACAGGCCTTCCAGAAGAGGCTGAGCTGGGAGGAGCCAGAGGGAAGCCCTG
AACAACCAGCCAGATGAACCTGTTTGCCAGTAGATTCTTTAAGGCTTTCATTGGGAAATAATAGGAATTCCACAGCTGTCTGTTTTGTTATCAG
AACAGGGGCTGGCCCTCTGAGAGCCTCGGAGAAGGGCATCTTAGGGGCAAACTTACCTCCTGGCCCTCTAATTGTTGCCTCATGCCTGAAGCAC
TTGGTGAAACTAGGTACTTCAATGCCAAACAGTCTTGACATCCTTAATAATCCTTAATAATTTAATTAATTATTAATAATTTAATGATCCTTGC
TGATTCAACTATAATGTTGAAAGGGGGGCATCTTTTCATACCTATTGGATCTTAAAAACCACATGGCCTGTCATGAGCGTGAGAATACTAAGAA
TGGATGGCGGTGGGTGTCTTGCCAAATGCTGACGATGTCGAGGAGATGGGCCTGTAACATATTATATTTTTTATGAACATGGAAGTGTGAGTAT
GAGAGTGGAGGGAGATGATAGCCTGATCTGCCAGCTGTGGCATACTGGATGATTATCCAGCACACAAGATCTAACCTGTTCTATTTTGTCTAAT
TTTGCAAGCCAGTTGTTAAACATAGCCACCATTAAAGAGTCTGTTATTTACATGTGTGCTGAGTAAGTTCATAGAAGACAAGCATTGGAAATTG
GTCACTTTCTAATGCGTGGTCATGTTTACTGTTCTGTGTGCTTAGGAGGGTGTGTCCATCATGCCTGTATGGTGAAAAACACTGCAGAGGCTTT
TGCTGCAGTGTAGTGCAGTGCAGTGCAGAGCAGGGCAGCGCCCCCACTGGTCCATCTGCAGCAAGGCAGGCTGGGAGCTTGGCTTTGCCAGTGT
AGTCACACCTTGGAAATAAGCAACATTACTGCCAGCCCAGCCTCCTCAAACCCAACCCCCTAAGAGCTCGAGGTTAAAGGCTTACCAGCATAAC
ACCATTGTCAGTACTAAACCCCGGGGCGCTGTCAGAGCAGAGTCTAGAGGGAGGGGACCCTCAAAGCTGACAATCTTGTTCTGTATCACTCAGT
TAGGAGTAAGGCTAACATAGTTTTTGGGTCTTTCATACCCTAAGTAACCAACCTCCTTGTCTGTGGTCAAGACAAGACAAGGCAAGATGAAGAA
ATTAAACATCAACAAAGCTGGGATTTTCTTAAAGACGTTATTATGGAACAAAGATAAATCCAAGAGATTTCATTTGTAATTGAACCAATTACAT
ATATATATATATATATATATATATATATATATATATATATACATACATATATATATATATTTTTTTTCCCCCTTAACTCACCTCCACACATT
CTGCAGGATTAAGCGTCTCTTACTTTTTCAATTTCTTATACTTCTGACCTCCACATGTATGACCCATCTCTATCTGCTTAGGGCTCCGTCTGCA
GTGTTCATTTGCTTTTATTCCCTCTGCGTGTTGACAGCTTCAGTGGAATGAACACACGAGCTTTGCTAAGCAGGTGTTTTTTTTTTTGTTTGTT
TGTTTTTTTTTTTTTTTTGTAATGAGTTTGCTGTGTTCCTGATCATGAACAGTCTCTTCATACCTGTTTGTTATCTGCTGTTTACGGTTCTATA
TTGCTAGAGGTTTGGACCTGTTTTCTTGGCTAGCATTTGTTGATGCCTTTCTCCTATTTTCATCCCTTCATTATTTTTACTCTTACAATACGTA
GAAATTCCATGGTTTATGTAGTTAAATTTGTCTTAGCCTTTTAACCTTTATTAATTCTAAACTTAAAATCTATACTTCACCCACTTGGAAAA
TATCTTCCTGTCATTTTAATTAAAATGAAAATTATTTTAATTCATTCAGTGTATATAATATGCATTATACAGTCTTGGGAATGATCAGTAAAGT
TTGCAAGTTATTGCTGGAGGAGAGAAAGCCTTTGGCTTTATTTCTGGGATTAGCTTAAAGCCGGTCTGGGTCCTACTACACACTAGACTACTGC
ACACAGGTCATTTTGGCACTCAGAACCCTGCTCTCTCTGACTCTGTCACAGATGATTAAAATCAGTTCTAAAACCAAGCAGTGTCTGGAGGAAG
AAATAGCGTGATCTCAAATATGATATTGAATGTGAACTTGAAGGAAACCCTTCAGAACTGATGTATAAAGTGCTTTTAACTGTTTATAGAACCA
ATAGCCTTAGAAGACTAAAACTCTCGTCACATTTAAATCTCATTTTTCTAAGTTATTTCTGTAGAGTGAACCTATGTTGCTCCTAAGTAGGCCG
TTTTGTGACGAGATACATAAAACATTAACAGTACTTATCTATTTAAATATTCACTGTTATTTTAGAAATAACCAGCCTTTGGATAATTATTGTG
AACAGTACCGTGTTTATGTTAATATTATATATATTTATTTAATTCACACTCTTATGTTCCTATAACTACAAATATTTAACTAATACTCAAAATT
CATATTTTTAAAAAATTTTAATAACTTTTAAAAACCATTTGCTTCACTCTGGGAAACTTCAGAAATACAGTTTAAAAATGAAAAGCATTGGGGC
TGGAGAGATGGTTCAGAGGTCAAAAGCACTGGCAGTTCTTCCAGAGGATCCTGGTTCAATTCCCAGCACTTACATGGTGACTCACAACGATCTA
TAATTCCAGTTCCAGTAAATCTGACACCCTCACAAACACACATGCAGGCAAAACACGAATGCATGTAAAACAAAATTAAAAATCATTTTAAAAA
CTTTTTAAAAGGAAAAAAATTACAGTTCTGTATCCTACCCCCACAAACAGTGTTAGCTATGAACATTCTTGGATTTGTCTCAGCGTTCTCCTAT
GGATATGCACGGATACTGTGAACATAGTGCATGTCTTGTGATAGATTCTCCATACCTCTGTGTGTTCAATATTCACATCTTAACCAATTGTGAT
CCTGCGATGAACATTACTACGTGCCAAGAAGCGTGCTAGCATACAAGGTTTCTACTCTATCCTAAAATTGATCCTAAGAAAATAATGCTGGCAT
AATTCCATCAAATATGGGACATAAAATTGAGGGTTGCTTGGCAACCAAAATGACGCTGATGAAGAATTAAAGGCATTTCCAGAGAAGAAGAATA
CTGATTTTTCCAATGTAAAGTGCTAATTATAATAGCCTAGGGCTGATTACAGATAGAATGAATGAAAGGGAGCAATACTTAAACTAACTGAAAA
TCCAAGAGGCAAGCATTCTTCTTCGTTATGTGTGGCGAAAGTGAGTTAAAGGTTTACTGTCAGAAACGAAGAATAAAATCTCTTGCCTTCATTA
TAACTTCTCTAAGTTATAATGAAGGAGCAGTGAGGTGGGATTTATAGCAGAGCCTAGAAGAGGCTGAAGTCTGCTCAGTCCAGCTGCTTTTGCA
GTGACTGTGAGGTGGCGGGCAGCATCTGAGGAGGCCGTACTGTTTCCTTCCTTTTTAGTGCAGAACAGGCCAGGGCTCAGGCACTGAGCATCTT
GCTAAATGGTTGTACCGTTTGGCAGAACCAGCTGCCAAGATGGAGCTTGAACAAGGGGCACACCAGTGATTGACTGAAATGAACAAAAGAACAT
AGGTACTACTACAGGAGGAAGAAAGAGCAGAGAGTACTAATTTTATCCTGAAGGAGAACACGGATTCATAGGAGCAAGATGGGTGTTGAGTATA
AAATCATCTGAAGGCTCAGATGGAAAGTGAGAATTCCCAAGTAGAAGAGCAGAGAGTTCTTCTGTCTCCTCTCAGTGATCTGCCGAACTGTAGT
ATGGACTTGTTTATATGATCTTTTGAACAGCCCCATTTTAAAGAGGAACTGAAGCACTCAGGAAACGGGTGTCCCCCTAATTATCATATGTGAG
TGAGTGTACTTGTTAACATATAGTCACACCCTACAGAGCACCCTTGAGTCTGTTGAGCAGTTGGCTAACTCTGCGTTGCTTGCTTCCTGCGTGA
GCATAGGGACTTTTCCATACTTCCTTCCTTTCTTTCACACCTTGGAATTCCAACTTTACTTCATCCAAGAGCTTCGCCATTTACCTCCAGGCCTG
GGCCACTCCAACCACACAATAAAGCAGTTAGCATCTGATACAGTTCTTTCCAGAGGTCAGCCACAGGAGCCACACTGCTGGCTACCCAGCTATC
TTCAGTTCCTGCTAAGGATGAGTCCTCACTCTGTAATAACTTGTGAGTTGGCTCTACTCTATGAACATACTCCCCTTACTTATTGTGCCTATAG
TCTCCCGCACTGCCTGCGTGCCCAATGGCTTAGAGTCCTATTACCTTGTCACCAATCACAGGTAGATTTAGCTAACTGAGGAAGTGGACCTTCA
TAGTGTCACAGGGGAAAATATGAA

MOUSE SEQUENCE - mRNA

GGATCCGCGGCCATGGGAACCCTGGGCAAGGCGAGAGAGGCTCCGCGGAAACCTTGCCATGGCTCCAGAGCTGGCCCCAAAGCAAGACTAGAGG
CCAAATCAACCAACAGCCCTCTCCCTGCCCAGCCCAGCTTGGCCCAGATCACCCAGTTCCGAATGATGGTGTCCCTGGGACATTTGGCCAAAGG
AGCCAGCCTGGATGATCTTATTGACAGCTGCATTCAATCTTTTGATGCGGATGGAAACCTGTGTCGGAATAACCAACTGTTACAAGTCATGCTA
ACCATGCACCGGATCATCATCTCCTCAGCCGAGCTGCTACAAAAAGTCATGAATCTATATAAGGATGCCCTGGAAAAGAATTCTCCAGGAGTTT
GCCTGAAGATCTGCTATTTTGTCAGGTATTGGATAACAGAATTCTGGATCATGTTCAAGATGGATGCCAGCTTGACCAGCACCATGGAAGAGTT
CCAAGACCTGGTGAAAGCCAATGGTGAGGAGACCCACTGCCACCTCATCGACACGACCCAAATTAATTCTCGAGACTGGTCCAGGAAACTGACT
CAGAGGATAAAATCGAATACTAGCAAGAAGCGCAAAGTGTCCCTGCTGTTTGACCATCTGGAACCTGAAGAACTGTCTGAACACCTCACCTACC
TTGAGTTCAAGTCCTTCCGACGGATATCTTTCTCTGATTACCAAAATTACCTTGTAAATAGCTGCGTAAAAGAGAACCCCACCATGGAGAGGTC
CATTGCCCTGTGCAATGGCATCTCCCAGTGGGTACAACTGATGGTTCTCAGCCGTCCCACCCCGCAGCTCCGGGCAGAGGTCTTCATCAAGTTC
ATCCATGTGGCTCAGAAACTCCACCAGCTACAGAACTTCAACACGCTGATGGCTGTGATCGGGGGACTGTGTCACAGCTCCATCTCCAGGCTTA
AGGAAACAAGTTCACATGTCCCACATGAGATCAATAAGGTTCTGGGCGAGATGACTGAACTGCTGTCCTCCTGCAGAAACTATGACAACTACAG
GCGAGCCTATGGGGAGTGCACCCACTTCAAAATCCCCATACTGGGTGTGCACCTCAAGGACCTCATATCCCTGTATGAGGCTATGCCCGACTAT
CTGGAAGATGGGAAGGTGAATGTCCAAAAGCTCCTGGCCCTTTACAATCATATCAATGAATTGGTCCAGCTGCAGGAGATGGCCCCACCATTGG
ATGCCAACAAGGACTTGGTGCATCTGCTGACGTTATCCCTGGATCTATACTATACAGAAGATGAAATCTATGAGCTTTCCTATGCCCGGGAGCC
GAGGAACCACAGAGCTCCGCCACTGACACCTTCGAAGCCACCAGTTGTAGTAGACTGGGCCTCTGGAGTGTCTCCCAAACCTGACCCAAAGACC

ATCAGCAAACACGTCCAAAGGATGGTGGATTCTGTCTTTAAGAACTATGATCTCGACCAGGATGGCTATATCTCTCAGGAGGAGTTTGAGAAGA
TCGCTGCAAGCTTTCCATTTTCCTTCTGTGTGATGGACAAAGATAGGGAAGGCCTCATCAGCAGAGACGAGATCACGGCCTACTTCATGAGGGC
CAGCTCCATCTATTCCAAGCTGGGCCTGGGCTTTCCACACAACTTTCAAGAAACCACTTACCTGAAGCCCACCTTCTGTGACAACTGTGCTGGC
TTTCTCTGGGGCGTGATCAAGCAAGGCTATCGCTGTAAAGACTGCGGGATGAACTGCCACAAACAGTGCAAAGACCTGGTGGTGTTCGAGTGCA
AGAAGCGAATCAAGAGCCCAGCAATATCCACAGAGAACATCAGCTCTGTGGTACCAATGTCCACCCTTTGTCCACTGGGAACCAAAGATCTGCT
CCATGCACCCGAAGAAGGATCTTTCATTTTCCAAAACGGAGAGATTGTGGACCACAGTGAGGAGAGCAAGGATAGGACCATCATGCTCCTCGGA
GTGTCCTCCCAGAAAATTTCAGTTCGGCTGAAGAGGACTGTTGCCCACAAGAGCACCCAAACAGAATCGTTCCCGTGGGTTGGTGGCGAGACGA
CCCCTGGTCACTTTGTGCTGTCTTCTCCAAGGAAGTCGGCGCAGGGCGCTCTTTATGTGCACAGTCCAGCATCTCCATGCCCCAGCCCAGCACT
GGTCCGAAAGCGGGCATTCGTCAAGTGGGAGAACAAAGAGTCCCTTATAAAACCAAAACCAGAACTTCACCTCCGGCTCCGGACCTACCAAGAA
CTGGAACAGGAAATAAATACCCTGAAAGCAGATAACGATGCTCTGAAGATCCAACTGAAGTACGCACAGAAGAAAATAGAATCCCTGCAGCTTG
GGAAAAGCAATCATGTCTTAGCCCAGATGGACCACGGTGATAGTGCTTAATCCAGAATTTCAAGGACCAGAATCTGCAGACGGGTTTACTGGGA
TGTCGAC

MOUSE SEQUENCE - CODING

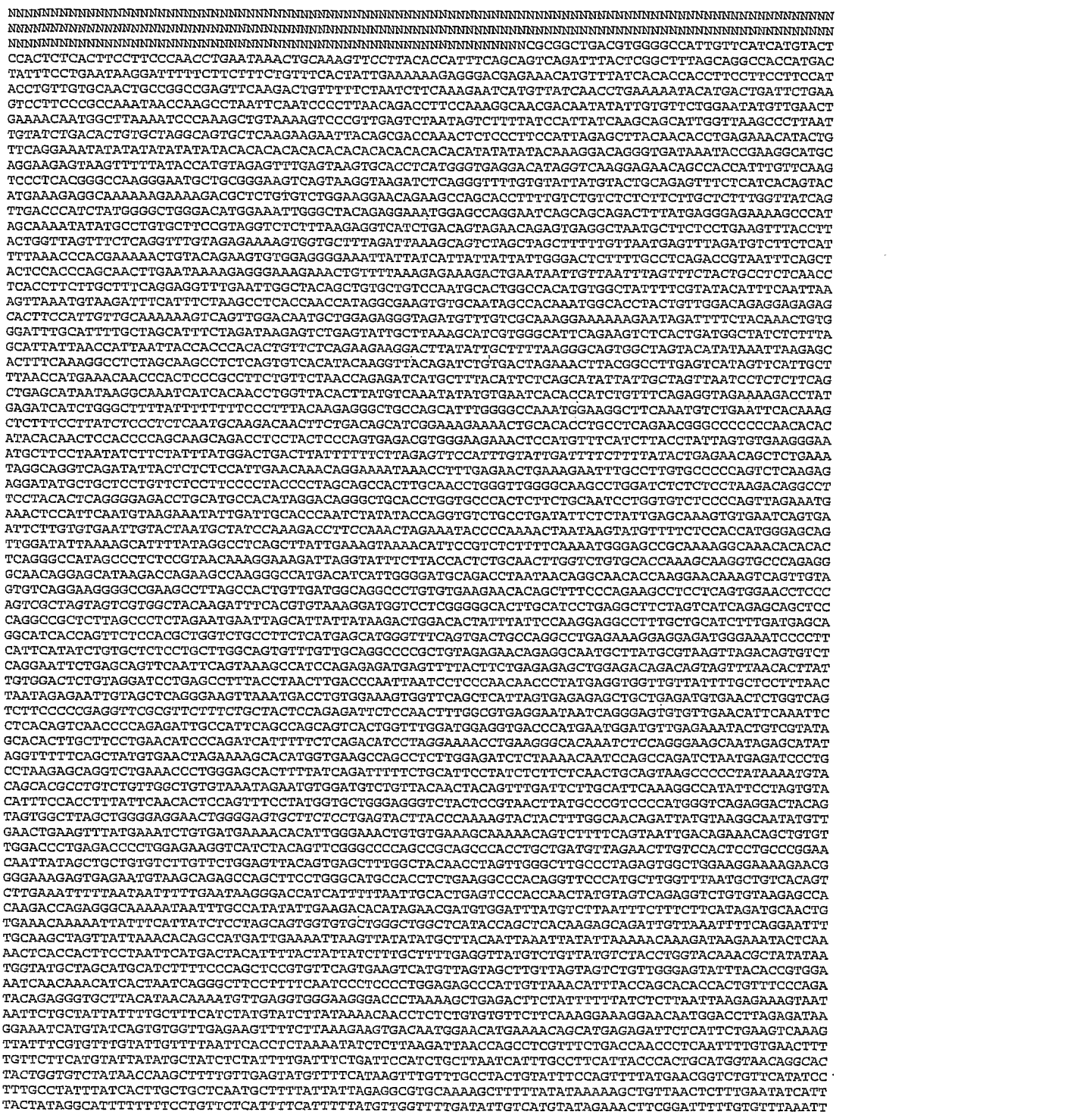
GGATCCGCGGCCATGGGAACCCTGGGCAAGGCGAGAGAGGCTCCGCGGAAACCTTGCCATGGCTCCAGAGCTGGCCCCAAAGCAAGACTAGAGG
CCAAATCAACCAACAGCCCTCTCCCTGCCCAGCCCAGCTTGGCCCAGATCACCCAGTTCCGAATGATGGTGTCCCTGGGACATTTGGCCAAAGG
AGCCAGCCTGGATGATCTTATTGACAGCTGCATTCAATCTTTTGATGCGGATGGAAACCTGTGTCGGAATAACCAACTGTTACAAGTCATGCTA
ACCATGCACCGGATCATCATCTCCTCAGCCGAGCTGCTACAAAAAGTCATGAATCTATATAAGGATGCCCTGGAAAAGAATTCTCCAGGAGTTT
GCCTGAAGATCTGCTATTTTGTCAGGTATTGGATAACAGAATTCTGGATCATGTTCAAGATGGATGCCAGCTTGACCAGCACCATGGAAGAGTT
CCAAGACCTGGTGAAAGCCAATGGTGAGGAGACCCACTGCCACCTCATCGACACGACCCAAATTAATTCTCGAGACTGGTCCAGGAAACTGACT
CAGAGGATAAAATCGAATACTAGCAAGAAGCGCAAAGTGTCCCTGCTGTTTGACCATCTGGAACCTGAAGAACTGTCTGAACACCTCACCTACC
TTGAGTTCAAGTCCTTCCGACGGATATCTTTCTCTGATTACCAAAATTACCTTGTAAATAGCTGCGTAAAAGAGAACCCCACCATGGAGAGGTC
CATTGCCCTGTGCAATGGCATCTCCCAGTGGGTACAACTGATGGTTCTCAGCCGTCCCACCCCGCAGCTCCGGGCAGAGGTCTTCATCAAGTTC
ATCCATGTGGCTCAGAAACTCCACCAGCTACAGAACTTCAACACGCTGATGGCTGTGATCGGGGGACTGTGTCACAGCTCCATCTCCAGGCTTA
AGGAAACAAGTTCACATGTCCCACATGAGATCAATAAGGTTCTGGGCGAGATGACTGAACTGCTGTCCTCCTGCAGAAACTATGACAACTACAG
GCGAGCCTATGGGGAGTGCACCCACTTCAAAATCCCCATACTGGGTGTGCACCTCAAGGACCTCATATCCCTGTATGAGGCTATGCCCGACTAT
CTGGAAGATGGGAAGGTGAATGTCCAAAAGCTCCTGGCCCTTTACAATCATATCAATGAATTGGTCCAGCTGCAGGAGATGGCCCCACCATTGG
ATGCCAACAAGGACTTGGTGCATCTGCTGACGTTATCCCTGGATCTATACTATACAGAAGATGAAATCTATGAGCTTTCCTATGCCCGGGAGCC
GAGGAACCACAGAGCTCCGCCACTGACACCTTCGAAGCCACCAGTTGTAGTAGACTGGGCCTCTGGAGTGTCTCCCAAACCTGACCCAAAGACC
ATCAGCAAACACGTCCAAAGGATGGTGGATTCTGTCTTTAAGAACTATGATCTCGACCAGGATGGCTATATCTCTCAGGAGGAGTTTGAGAAGA
TCGCTGCAAGCTTTCCATTTTCCTTCTGTGTGATGGACAAAGATAGGGAAGGCCTCATCAGCAGAGACGAGATCACGGCCTACTTCATGAGGGC
CAGCTCCATCTATTCCAAGCTGGGCCTGGGCTTTCCACACAACTTTCAAGAAACCACTTACCTGAAGCCCACCTTCTGTGACAACTGTGCTGGC
TTTCTCTGGGGCGTGATCAAGCAAGGCTATCGCTGTAAAGACTGCGGGATGAACTGCCACAAACAGTGCAAAGACCTGGTGGTGTTCGAGTGCA
AGAAGCGAATCAAGAGCCCAGCAATATCCACAGAGAACATCAGCTCTGTGGTACCAATGTCCACCCTTTGTCCACTGGGAACCAAAGATCTGCT
CCATGCACCCGAAGAAGGATCTTTCATTTTCCAAAACGGAGAGATTGTGGACCACAGTGAGGAGAGCAAGGATAGGACCATCATGCTCCTCGGA
GTGTCCTCCCAGAAAATTTCAGTTCGGCTGAAGAGGACTGTTGCCCACAAGAGCACCCAAACAGAATCGTTCCCGTGGGTTGGTGGCGAGACGA
CCCCTGGTCACTTTGTGCTGTCTTCTCCAAGGAAGTCGGCGCAGGGCGCTCTTTATGTGCACAGTCCAGCATCTCCATGCCCCAGCCCAGCACT
GGTCCGAAAGCGGGCATTCGTCAAGTGGGAGAACAAAGAGTCCCTTATAAAACCAAAACCAGAACTTCACCTCCGGCTCCGGACCTACCAAGAA
CTGGAACAGGAAATAAATACCCTGAAAGCAGATAACGATGCTCTGAAGATCCAACTGAAGTACGCACAGAAGAAAATAGAATCCCTGCAGCTTG
GGAAAAGCAATCATGTCTTAGCCCAGATGGACCACGGTGATAGTGCTTAATCCAGAATTTCAAGGACCAGAATCTGCAGACGGGTTTACTGGGA
TGTCGAC

HUMAN SEQUENCE - GENOMIC

GGTGCTTGGGAGGGCATGGCTGGAGAGGTAAGATCCAGTCATGCAGGTACATGATGTTAAAAAGTTTGCACTTTATTCTGTAGGCAATTGGAGA
CTCCTAGGCAGTTTAGAAGCAAAAGAATTATGTGACCATGTACATGAAAGAAGCAACATGAAAGAAGAATCAGAGAAAAGGAGGTTATGTAATT
AGGGACGCCAGTTACAAAGCTATTACACATGTCCAGGTAAGAGATGATGGGGGCTTAGACCAGCATGTGGCTTTAAAGATGGAGAGGAAGCCCT
TGGGAACAATGAAAGGAGGTGGTGGTTGAAAATGTGGGTCTAAATGCTAGGTGACAAAGGTGGATATTCGGACAGAAGAGTCATATAGGTCCTG
CTGAGGCCATGGGAGAAAATTAAAACACCTACTTTGAGTAACGGATCATTTAGAAAATCTGAAGAAAGCTAACAACCCTTCCCCCAGAAAAAAC
ATACACAAAAATTTAGATATAGTTTCAGAAGCTTCACATATAGTATAGTCCCTTCTCCCCAGTTAATCTCCTCATGGACATTAATTAAGAGTCC
ATGATTGAGAGAAGGAAGAATAACAAAGAAAGCATCCAGAGGAAGGGCCTCACCCAAGGGGTGAGAAGAGGAAGACTCCCCAACCAGACACCTA
GGAAAAATAGAAGAGAGGGTAAATGAGGGTACAAGATAACACACTTGGGTGGCTGGCAAGATGGCCAAATAGGAACAGCTCTGGTCTGCAGCTC
CCAGCGAGATCAACACAGAAGGCACATGATTTCCGCATTTCCAACTGAGGAAACTGGCTCATCTCATTGGGACTGGTTAGACAGTGGGTCGAGC
CCACGGAGGGCGAGCCAAAGCAGGGTGGGGCATCACCTCACCAGGGAAGTGCAAGGGGCCAGGGAACGCCCTCCCTAGCCAAGGGAAGCTGTGA
GGGATTGTGCCATGAGGAATGGTACACTCTGGCCCAGATACTACACTTTTCCCACAGTCTTTGCAACTCGCAGACCAGGAGATTCCCTCAGGTG
CCTATGCCACCAGGGCCCTGGGTTTCAAGCACAAAACTGGGCAGCCATTTGGGCAGACACTGAGCTAGCTGCAGGAGTTTTTTTTTTCATACCC
CAGTGGCACATGGAATGCCAGTGAGACAGAACCATTCACTCCCCTGGAAAGGCGTCTAAAGCCAGGGAGCCAAGTGGTCTAGCTCAGCGTATCC
CACCCCCACAGAGCCCAGCAAGCTAAGATCCACTGGCTTGAAATTCTCGCTGCCAGCCCAGCAGTCTGAAGTCAACCTGGCACACTCAAGCTTG
GTGCGGGGAGGAGCATCTGCCATCACTGAGACTTGAGTAGGCCGTTTTCCCCTCACAGTGTAAATGAAGCCGCTAGGAAGTTCGAACTGGGCAG
AACCCACTGCAGCTCCACAAAGCCTCTGTAGCCAGACTGCCTCTCTAGATTCCTCCTCTCTGGGCAGGGCATCTCTGAAAGAAAGGCAAGCAGCC
CCAGTCAGGGGCTTATAGATAAAACTCCCATCTCCCTGGAACAGAGCACCTGGGGGAAGGGGTGGCTGTGGGCCTCCTCCTGGCTCTGAAGAGA
GCAGTGGATCTCTAGCACAGTGTTTGAGCTCTGCTAAGGGACAGACTGCCTCCTCAAGTGGGTCCCTGACCCCTATGCCTCTTGACTGGGCGAC
ACCTTCCCGCAGGGGTCGACAAACACCTCATACAGAAGAGCTATGGCTGGCATCTGGCAGGTGCCCCTCTGGGACAAAGCTTCCAGAGAAAGGA
ACAGCCAGCAATCTTTGTTGTTCTCTGCAGCCTCTGCTGGTGATACGCAGGCAAACAGGGTCTGGAGCGGACCTCTAGCAAACTCCAGCAGACCTG
CAGCAGAGGGGCCTGACTGTTGGAAGGAAAACTAACAAAGAGAAAGGAATAACATCAACATGAACAAAAAGGATGTCCACACCAAAACCCCATC
CAACGGTCACCAGCATCAAAGACCAAAGGTAGATAAATCCATGAAGATTAGGCAAACCAGCACAAAAAGGCTGAAAATTCCAAAAACCAGAATG
CCTCTTCTCCTCCAAAAGATCACAACTCCTCACCAGCAAGGGAACAAAACTGGATAGAGAATGAGTTTGACGAATTGACAGAAGTAGGTTTCAG
AAGGTGGGAAATAACAAACTACTCCAAGATAAAGGGGCATGTTCTAACCCAATGCAAGGAAGCTAAGAACCTTGAAAAAAGGTTAGATGAATTG
CTAACTAGAATAAACAGTGTAGAGAAGAATGTAAATGACCTGATGGAGCTGAAAAACACAACACGAGAACTTCGCGAAGCATACACAAGTATCA
ATAGCTGAATCAATCAAGTGGAAGAAAGGATATCAGAGACTGAAGATCAACTTAATGAAATAAAGCATGAAGACAAGATTAGAGAAAAAAGAAT
GAAAAGGAATGAACAAAGCCTCCAAGAAATATGGGACTATGTGAAAAGACCAAACCTACATTTGATTGGTGTACCTGAAAGTGACGGGGAGAAT
GGAACCAACTTGGAAAACACTCTTCAGGATATTATCCAGGAGAACTTCCCCAACCTAGCAAGACAGGCCAACATTCACATTCAGGAAATATAGA
AAATGCCACAAAGATACTCCCTGAGAAGAGCAACCCCAAGACACATAATCATCAGATTCACCAAGGTTGAAATGAAGGAAAAAATGTTAAGGGC
AGCCAGAGAGAAAGGTCGGGTTACCCTCAAAGGGAAGCCCATCAGACTAACAGTGGATCTCTCTGCAGAAACTCTACAAGCCAGAAGAGAGTGG

GGGCCAATATTCAACATTCTTAAAGAAAAGAATTTTCAACGCAGAATCTCATATCCACACAAACTAAGCTTCATAAGTGAAGGAGAAATAAAAT
CCTTTACAGACAAGCAAATGCTGAGAGATTTTGTCACCACCAGGCCTGACTTACAAGAGCTCCTGGAAAGGAAAAACCAGTACCAGCCACTGCA
AAAATATACCAAATTGTAAAGACCATCGACACTATGAAGAAACTGCATAAACTAATGGGCAAAATAACCAGCTAGCATCATAATGGCAGGATCA
AATTCACAATAACAATATTAACCTTACATGTAAACGGGCTAAATGCCCCAATTAAAAGATACACACTGGCAAACTGGATAAAGAGTCAAGACTC
ATTGGTGTGCTGTATTCAGGAGACCCATCTCACATGCAAAGACACACATAGACTCAAAATAAAGGGATGGAGGAATATTTACAAAGCAAATGGA
AAGCATAAAAAAAGCAGGGCTTGCAATCCTAGTCTCTGATAAAACAGACTTGCAACCAACAAAGATCAAAAAAGACAAAGAAAGACATTACATAA
TGGTAAAGGGATCAATGCAACAAGAAGATCTAAATCGTAAATACATATGCACCAAATACAGGAGCACCCAGATTCATAAAGCAAGTTCTTAGAG
ACCTACAAAGAGACTTAGATTCCCACACAATAATACTGGGAGACTTTAACACCCCACTGTCAATATTAGACCGATCAACGAGACAGAAAATGAA
CAAGGGTATTCAGGACTTGAACTCAGCTCTGGACCAAGCAGACCTAATAGACATCTACAGAACTCTCCACCCCAAATCAACAGAATATACATTC
TTCTCAGCACCACATCACACTTATTCTAAAATTGACCACATAATTAGAAGTAAAACACTCCTCACCAAATGCAAAATAATGGAAATCATAACAA
ACGGTCTCTTGGACCACAGTGCAATCAAATTAGAACTCAGGATTAAGAAAGTCACTCAAAACCGCACAACTACATGGAAACTGAACAACTTGCT
CCTGAATGACTACTGGGTAAATAAAAAAATGAAGGCAGAAATAAATAAGTTCTTCGAAACCAATAAGAACAAAGACATAACATACCAGAATGTC
TGGGACACAGCTAAAGCAATGTTAAGAGGAAAATTTATAGCACTAAATGCCCACATCAGAAAGGAGGAAAGATCTAATATTGACACCATAACAT
CACAATTAAAAGAACTAGAAAAGCAAGAGTAAACAAATTAAAAAGCTAGCTGAAGACAAGTCACAACAAAGATCAGAGGAGAACTGAAGGAGAT
ACAGACACACACAAAAAAAACCTTCAAAAAATCAATGAATCCAGGAGGTAGTTTTTTGAAAAGATTAACAAAATAGATAGCCCACTAGCCAGAC
TAATAAAGAAGAAAAAGAGAAGAATCAAACAGACACAATAAAAATGATAAAGGGGATATCACCACTGATACCACAGAAATACAAACTACCATCA
GAGAATACTATAAATACTTCTATGCAAACAAACTAGAAGAAATGGATAAATTCCTGGACACATACACCCTCCCAAGACTAAACCAGGAAGAAGT
CAAATCCCTGAATAGACCAATAACAAGTTCTGAAATTGAGGCAGTAATTAATAAGCTACCAATCAAAACAAAAGCCCAGGACCAGTTGGATTCA
CAGCCAAATTCTACCAGAGGTACAAAGAGGAGCTGGTACCATTCCTTCTGAAACTATTTCAAACAATAGAAAAAGAGGGAATCCTCCCTATCTC
ATTTTATAAGGCCAGTGTCATCCTGATACCAAAGCCTGGCAGAGACACAACAAAAAAAGAAAATTTCAGGCCAATATCCCTGATGAACATCGAT
ATGAAAATCCTCAATAAAATACTGGCAAACTGAATCCAGCAGCACATCAAAAAGCTTATCCACCATGATCAAGTCAGCTTCATCCTAGGGATGC
AAGGCTGGTTCAACATATGCAAGTCAATAAATGTAATCCATCACATAAACAGAACCAATGACAAAAACCACACGATTATCTCAACAGATGCAGA
AAAGGCCTTCAATAAAATTGAACACCCCTTCATGCTAAAAACTCTCAATAAACTAGGTATTGATGGAATGTATCTCAAAATAATAAGAGCAATT
TATGACAAACCCACAGCCAATATCATACTGAATGGGCAAAAGCTGGAAGCATTCCCTTTGAAAATCAGCACAAGACAAGGAGGCCCTCTCTCAC
CACTCCTATTCAACATAGTATTGGAAGCTCTGGCCAGGGCAATCATGCAAGAGAAAGAAATAAAGCGTATTCAAATAGGAAGAGAGGAAGTTGA
ATTGTCTCTGTTTGCAGATGACATAATTGTATATTTAGAAAACCCCATCATCTCAGTCCAAAATCTCCTTAAGCTAATAAGCAACTTCAGCAAA
GTCTCAGCATACAAAATCAATGTTCTAAAATCACAAGCATTCCTATACACAAATAATAGACAGAGAGCCAAATCATGAGTAAACTCCCATTCAC
AATTGCTACTAAGAGAATAAAATACCTAGGAATACAACTTACAAGGGATATGAAGGACCTCTTCAAGGAGAACTACAAACCACTGCTCAAGGAA
ATAAGACAGGACACAAACAAATGGAAAAACATTCCATGCTCATGGATAGGAAGAATCAATATTGTGAAAATGGCCATACTGCCCAAAGTAATTT
ATAGATTCAATGCTATCCCCATCAAGCTAACATTGACTTTCTTCACAGAATTAGAAAAACCTGCTATAAATTTCATATGGAAGCAAAAAAGAGC
CTTTATAGCCAAGACAATCCTAAGCCAAAAGAACAAAGCTGGAGGCATCACACTACCTGACTTCAAACTATACTACAAGGCTACAGTAAAAAAA
AAACAGCATGGTACCAGTACCAAAACAGAGATATAGACCAATGGAACAGAACAGAGCCCTCAGAAATAATGCTACACATCTACAACCATCTGAT
CTTTGAGAAACCTGAGAAAAACAAACAATGGGGAAAGGACTCCCTATTTAATAAATGGTGTTGGGAAAACTGGCTAGCCATATGAAGAAAACTG
AAACTGGACCCCTTTCTTATACCTTGTACAAAAATCAACTCGAGATGGATTAAAGGCTTAAACATAAGACCTAAAATCATAAACACCCTAGAGG
AAAACCTAGGCAATAGCATTCAGGACATAGACATGGGCAAAGACTTCATGACTAAAACACCAAAAGCAATGGCAACAAAGCCAAAATTGACAA
ATGGGATCTAACTAAACTAAAGAGCTTCTGCACAGCAAAAGAAAATATCATCAGAGTGAACAGGCAACCTACAGAATGGGAGAAAATGTTTGCA
ATCTACCCATCTGACAAAGGGCTAATATCCAGAATCTACAAAGAACTTAAACAAATTTACAAGAAAAAACAAACAACCCCATCAAAAAGTGGGC
GAAGGATATGAACAGACACTTCTCAAAAGACATTTATGTGGCCAACAAACATATGAAAAAAAGCTCATCATCACTAGTCATTAGAGAAATGCAA
ATCAAAACTACAATGAGATACCATCTCATGCCAGTTAGAATGGCAATCATTAAAAAGTCAGGAAACAACAGATGCTGGAGAGAATGTGGAGAAA
TGGGAACACTTTTACACTGTTGGTGGGAGGGTAAATTAGTTCAACCATTGTGGAAGACAGTGTGGCAACTCCTCAAGGATCTAGAACCAGAAAT
ACCATTTGGCGCAGCAATCCCATTACTGGGTATATACCCAACGGGATTATAAATCATTCTACTATAAAGACACATGCACATGTATGTTTACTGC
AGCACTGTTCACAATAGTAAAGACTTGGAACCAACCCGAATGCCCATCAATGATAGACTGGATAAAGAAAACGTGGCACATATACACCACGGAA
TACTATGCAGCCATAAAAAAGGATGAGTTCATGTCCTTTGCAGGGATATGGATGAAGCTGGAAACCATCATTCTCAGCCAACTAACACAGGAAT
GGAAAACCAAACACCGCATGTTCTCACTCATAAGTGGGAGTTGAACGATGAGAACACATGGATACAGGGAGGGGAACATCACACACTGGGGCCT
GTCTGGGGGTGGGAGCTAGGGGAGGGATAGCATTAGGAGAAATACCTAATGTAGATGACGGGTTGATGGGTGCAGCAAACCACCGTGGCACTTG
TATACCTATATTACAAACCTGCACGTTCTGCACATGTATCCCAGAACTTAAAGTATAATGATTTTTTTAAAAGCACGAATATTATCCTCATTAG
CTACCTTATAAGAATGTTATATTAAATGATGTATTTTGTGAAAAAAAAAAAAAGTTTGTTCTTGAGGTCAGAGGTGCCTCATATAACACCAGGC
AGACTAATCACATGGCCGATGATTAAAAGAGACATAGACAAACTTCTCATTTTTTAGATGTTTGGAAAAGACTTATTGCTCAGGTAGGAGTAGC
CAGAAAACCTCAAAAAAGAGCTCGAGGGGGCCCAGAAGCAGAATCAGATGCAAGTGAAGTGCAGAGTACTCAGAAAGTCCAAGAGAAAAACACT
CGCTGGGCATATGTAGGCCTCTTTCTTTAGAAAACTCAGCAAGACTCATGTATTGAATGAATTAATAACCTTGGTTTCAACCATTTGTATATAT
GTGGACTGTAGGTGTGCAGATGTGTGTAACTGCCTACATGTGCACTTAGTATTATGCATATATGTATATTTACATATAAATATAATGATGCATT
TACATAAAGGCATCCATTTGGCATACATACCTATGCATATGCAGTATAAGGCTGGATTATTCCCCTGCCACACACAAAGATTTTGCTGTCCAAA
GACTCAGTGCAATGAATGGCATGGAAGGGGCTCTATTTTCAAGGGTGAAGCAATAGAGAAATACCGAAGGCCTCGGATAACCTGTGATGGGGAT
CCCACGAAAGCCACCGGGGACAGTGCCAGTAAGCTTATCACTCCTGCCATAGACAGCGGACTTCAAAGAAAAACTGAAACCCTTTCTCCGGAAA
TAATCAGGAAGGATCTTATTTTCTTCTTTGAGGTCAGCACATTTTGCTTTTCAAAATCAAATCCACAGCAGTTCATTAGTAATGTCCCACAGGT
ACTGCCTCAAGTTGGCAGCTGTGGAAGCTAAAGAAGCATAAGACCTGATTCTTGACCTCGGACAATTTACAGTTTAGCTGTGGAGGTAAGACAG
GGACACAGAATATTATGTGGCAATTGAAAGTGTAAATATTATAGATTTAAGTAGGGTAAAGAGCTCATTCTGTAGTAGAGGGGTCAGTGAAAAG
TAATTGTTCACCTGGTAATAAGAGAAGATCTCTGTGAACAAAGTCTAAGACTGCAAACTTAGGACTGTTGGGAGATAGTCAGATAGATTCATAT
ATAGATACAAATCTTTACCATCCTCAGACATCCGCCAACTTGGTTGTTTAGGTTGTAGGGCTTACATGAGGAAGGGTGTATAATAGATAACTCT
AAAAATGTTTGAGCCTTAGACCCAGTGAGTGAGAAAGAGTGTCATCATTTAATATTCTCCTGACATTCACCTGCCCCTTCTGCATCTGTGGCTG
TGACTGAGGACTTGGTTCTTTATATCACCCAGTGTTCATGAGGATTCTCTGGAGAAATTTCTTGCTGGTCTCAGTATCAAGAAAGGGGGATCTT
CTCTTGAGCAATTTTGTTTTTTGGTCTTGCATGTGATAGGAATTGAACTTTAGACAAGGCCTCTCTTTAAACTTGACTGCTAGAAATGCAGGAGA
CAAATTTTGGTCCCACCTGTAGCAAGGGTATTTGACTCTATGAGATGCATTTATTTCAAATGATGTTCATTTTTGGCTCCATCTTGTGTGCCTC
ATTTTTCATTTCACACACTTCTTTTTGTAGGTTATGTGCTCTTGTAAGCTATCTCGAATTCTGTTTTAAGGACAAGGTAGCATATAAATATAAG
GAAATATATAAATGAAACAGAGGAAGGCTTTAAAGTCCAGAACACTATGGCCAGGAAGACAACTATGACTGTGGCTAGAGTTATGGTCTGTGGC
CGTGATAATGAGTGTGTTATTAGGGCAGTCCAGCAGTGATTACAGGGAGTCAGACAGACCTCAGTCCAAGTCAGAGGTCTCTCTGCTGTTTATT
AGTTGTATGATCTAAGGCATAGCATTCTCTAAACCTTCATTTTCTCATCTTTACAACAGTGATCTCTTTGTATCAGGGAGAGTGGATTAAATGA
GGTAATGTATAGAAAGCACTTAGCACAACCGCACTCAATCATTAGCTATTGAGATTATCAGCACTATCACCTGGACAAGCAGCGGATGGGCCGC
CCCTCTTGGCCAGGTCTTCTGTGCGCACTGACGTTGTATGAAAGTTGTCCCCACATCTCCTACACCCACCGACGCCAGGCGGCCGCGTCTGGGC
CAGATATGGATCACGCCTGTGGAGCGCACCTCCACACAGGCAGCCCTCGTCCAAGGTGCAGGGCGCAGGGCACAGGGCACATGTCTACGGCCCA
GTCCTGCAGACGGCTACCTAGAGACCCCAGGGCACAGGTTAAGGCAACTTCACAACTGTCTTTCCGTTCCTTTCCCCTGCCGGACTCCGCGCTC
TGATATATACAGGAGAGGCCCTGGAGGGGAGAAGGCGTCCTCACTGCAGTGCTCCGAGCAGCGGCCGCAGGAAGAGGCGTGGAAGCTGCGGGTC
GGCTGCGGGAAAGGGGGTCCCATGGGAGCCGCTAGCGCAGCCCGTTTCCCGAGCTGAGGTGGAGGTCGAAACGCACAGGTGCCCTGCAAGGCGC

GGGCGTGGTAGCCGGGAGCCCGCTCCTCTCCAACTCCCCTGAGACTTAACCCTTTGGCCAAGAGAGGTCGAAGGCGGGCAGGGGTGAGAGAACC
GCGAGGCGCAGGCCGGGCACCCGCGGAAAGGGGGCAGGTTTCGGGGAAGAGCGGGGCGCCGCACGTTTCCTGCAGCCGCCAGCATCAGCGTGTC
AGGTGGTTGCCAGGCGGGTGTGAGCGCGCGCGCGAGGCAGAGGGGGCGCGCTCGCACAAAGTTTGTGCCTGCGGTGCACCTCGGTCGGGCTCGC
CGGGCTCGAGGGCTGGCGGGCGCCGGGGCTACGAGGCCCGGGGGGGGAGAGAGCCGGCAGGCGGCGGCGGTGGTGGCGGGGGCGATGCGCGCGCC
CGGCCGCGCTAGGTGAGCCGGCACCGGGAGCCGGCCGCGGCCATGGGCACCCTGGGCAAGGCGAGAGAGCTCCGCGGTGAGTAGAGGCGCAGTG
GCCCTCGGGAGCGCCTGTGTCCTTTCTTGGGAAAGAGGCCCCTGCCCGTCGCCCCAACACCCCGAGGGAAGTTGAGGGCGGAGGGGGGCCGGGG
TCGGCCGGAGTCCCGGGACACCAGCGCGACGGGCGGACGTGTCCAGAACGCCCGCGCGCCCGGGGTTTCGGNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN



TGCCCATTTCTATTTAGCTTTTTAAAATTCTAAACCTTAAAAAAATCCCTATTCCAAAGATTTAATTAATAGTCCATTGTCATTTTAATCAGTT
TTACTTAACCCAGTGTATAATTCCATATCATACATTGTCGTGGATGATCAATACAAGCTTGTCAATAAGTTATTGCTGGCAAAAAAGAAGCCTT
CAGTTTTGTTTCTGAGATTGTCATTTCCTTAAAACCACAGCGCTTGGACTGGTCGCTTTGTAACTCAGAGCCTCCGTTTCTCGCTGTGATACCA
TTAAAATGATTTCTGAGACTTAAAGTGTCTGGAAGAAGGTGTAATGGGGTATCTCCATCACGATATTAAACTTGAAGAAAGTCCTTCAGGAATT
TGCATATTTTAAGAATGTGCTTTTGGATATATTTGAAGAGTCAATATTCTTAGGATGGAGTCTTAGAAACCCAACAAATTTTTAACTCAGTCTT
TAAAAATTATTAATTTAGACTGTTTCTTGTTCTTACATAGACTTTGTGGTAAGATATACATAAGATCAACCACTAGCATAGACTTTTAAAATAT
TATTTTAGTAATAGCTAACTTTTGAGCATTTACTATGAATAACACAGTGTTTATGTTAATATTTTACATATGTAGTCTCATTTAGTTCCCACTA
TTTTATAAGTTCTTGTATTTGCAAAGATCTAACTGTCCCTCAGCATTTATACTTACTTTATAAATGTTAATAACTTTTAAAATTATTCATGTTC
ACCATAGAGAACGTAGAAAATACAGACTGGCAAAAAGAAAAAAATTACCGTCACTCATTTTACCATCAAGAGCAAGATAAGCACTATCAACTTT
CATGGGTGTGCCTTTCTTGATTCTCTTCTATGGATATTTACATGTATTATAATCACAGTAACTTTTTGGTGATAAACTCACTATAACTTTTTGC
TTCCCATAATTTATATCTTAAACAATTTTGATCTTGAAATCAATATTATTATTTATAAAGAGGTATGCTAGCACACAAGGTTGCTCTTCTATTT
TAAAATTGATTTTTTAAAAATAATTCTGCTTAGTCCCTTCAAATATAGGACATAAAAGTGAAGGTTGCTTGGCAACTGAAATGATGGTAATGAG
GAATTAAAGACATTACAAGAAAAGAAGAGTACTCAGTTCTTTTCAATGCTACATGCTAATTGCAGTAACTATGGCTGATTACAGTTGTAATAAA
TGAAGGAAACACAAAACTTCCATTAAAAATTCTTGATGTGAACTTTTTTTTATTTTGTATTACAGTGAAAGTGAGATGGGGTTTGCTGAAGAGA
AACTTTACTTTCAGAAACAAGAAAAGATCTTTTGTCTGTATTAACTTTTTTTTCTTTTCTTTTCTTTTTTTTTTTTTTTTTTGGCGACAGAGTCT
CACCCAGGCTGGAGTATGGTGGCATGATCTGGGCTCACTGCAACCTCCACCTCCTGGGTTCAAGTGATTCTCGTGCCTCAGCCACCCGAGTAGC
TGGGTGTGCACCACCAGAGCCAGCTAATTTTTCTATTTTTAGTAGAGATGGGGTTTCACCATGTTGCCCAGGCTGGCCTTGAACTCCTGAGCTC
AAGAGATCCACCTGCCTCGTCCTCTCAAAGTGCTGGGATTACAGGCATGAGCCACTGTGCCCAGCCTATTAACCTTCTAAGGGAATATTAAGTT
AGCAACTGGGTGAGATACGTAGCAGAAGCACAAAGATTTGGTACATCTGTGATTCTTCAGCAGCACAGAAGAGATGGTGGGCAGTGGTGTGAAG
GAAGCCATGTTAACTACTTGTTTTTTTTTCCCCAAAGAGTAGTCAAGGGCCCTGGAGAGATTGCTGAGGTTCTCACTAGAGCCTTCAAGCAGAA
GATGCTTCCTAGGATGGAGATGTACTTAGAAGGACACCAGTGATTCATTGAAATGGACAAAGGGAGTAGAGACTAGAGGGGGAAGAGGGAAGCA
GAGGGAAAGAGGGAAGCAGAGGGGAAGAGGGAAGCAGGGATTGCCGGTTTTGTAACAAAGAATGCAGTCACCAGAAAAGTAAGGCAGTTTGGGA
TGAAGCCATCCAAGAACTTATCAAAGGTATATCTTTGCCAGAAAGTGAGGATTTCTAGTTGGAGGAGCAAATGGAGCTATGTCTGTCTCCTCTT
CACTGATCTATCTGAATCATGGTATAGGACTTGGTTTTGTAATCTTGTGAACAGCCTCATTTTAAGGGGGAACCCACAATATTCAGGAAGCCAA
GAAATGTCCCTGTTAATCATCTATGAGTCTATCTTGCTGGAATGTAGTTATAGACTATGGAACATCCTTAAATCTGATGAGCAATTAATCACTG
GTTAATTTTGGATTCACTTATTAAATGCCAAATGCATAGGGGATTTTTCACACTCTCTGCCCTTCCTCCTTCCCAGTTCATGAGCACCACAATT
GGATTCCATATTTACTTCATCCAAACCTACCTTGGTGGGTTCACCATTTACCTCCAGTCCTGGGGAGTTCAGTCCAGACTGTGAATTACTGCCA
TTTCTGAGGGGCTGCTTCCCAGATGGGAGCCATAGGACCCTCGCCTCTGGCCCTGGACTCAGTCTTCGTTTATTGCCAAGGATGAGCACTTGCT
CTCGGGAATGGATGCTGGGGTCCACCTGACTGTTTGGCTTGCTTTAATCCCTAAAGGAAAAGCTCCCTACATTTATTGTGTCTGTGGTCCCCCC
ACCCTCTCTGTCCCAGTGCCTAAGAGTCTCATTACCTTGTCAGTAACTACCAGTGTCTACCTGAGATGGACTAAGCTTCATTTAACTGAGAAAG
TGCACCCTCAAAATTGCAAGGAGAAATGTTGGAGGAGGACCCTCTGGATTAAAAGAGACTTAAAAGACATTTCAAACAGTCATAGTATGTGAAC
CTTTTTTCTAAAAATTATGTGTGTGTACACATACACACTCATAGGAGTATAGATGGATCCACATCTGCTGTATGCTGATCATTGTTGCAGCTGG
CTGAGTGCATGGAGGTCCCTTACGTTGTTTTGCTCACTATGGTATACATGCTTATAATTTTCCATAATCTTTTTTTGAGACAGGGTCTTGCTGT
GTCACACAGGATGGAACACAGTGATGCCATCTTGGCTCACTGCAGTCTCTGCCTTCCCAGCTCAAGTGATCCTTTCACCTCAGCCTTCTGAGTA
GCTGGGACTATAAGCATGTGCCACCATGTCTGGCTAATTTGTGTGTGTATGCGTATTTTTTTGTAGAGACAGGGTCTCACTGTTGCTCAGGC
TGGCCCCAAACTCCTGGGCTCAAGTGATCTGCTCACCTCAGCCTTCCAAAGTATTGGGATTACAGGCATGAGCCACTGCACCCGACCTCTAACA
ATATATTAAAATTAAAAGTGTCCTCAAACCTAGGACAAATAGATGATTTAGGATTACAAAAATTCAAACGGATTTTAGGAAATTTCTCTAAATT
TTCTTAGGTGGCAAAATAGAGTGGCTGTGTCTGTTTTAAAGAAGGGAGAGGAAAATAAAGAATGAAAATGGTTACTTTGGTTACACATCATGAA
AATAATTCACCCGTGTCATGTACTTGACATCTCGTGTCACAGCGCATTCCCCAATCAGCACTGAGATGCTCAATTCCTGGGTATCCAAAAAGAC
CAAAAAAAAAAAAAAAACCTGGAAACTTGTAATCTTTAATGCTACTGTCAGAGGCGGGAGTTGGAGTTGAGTAAGTAAGAGAATGTAATACTCT
CCTCCACACCCCATCTCACACACACACACGCGCGCGCGCACACACACAGTTTTGAGCAGGGAAATGTCATGACTGTGCCACAGCTGATTT
CAGCAAGCGGTGAAAAGATTATGGAGGCCACGTCACATGGCAGTCTTTGGAATCTGAAGCTGAGTCACTGAGTCTGCCATTTACCACATGTGGG
GCTTGTTTGCCCGTTTTTAAAATGGAGAATAATGGTAAAAAATTTTAAAGGTGGTTTTACTTTGGGTGGAAATTTAACAAGATTGTCTTAGTTT
GAGTTTTCCCAGGAGCAGATCCTGAGACAAGGATTTTTAAGTACAAATAGTTTACTTTGGAAGGTGGTCCTAGGAAAAACTGGTAGGGGAGTAG
GGAAGGCAGCTCTTGGAGGGTGCATTGCCAAGTTACAACTCTGGGAGTCAGAGTGGAAGGCTCTTTTCAGACCTATCTTATCTGAGGGAAAGGA
ACTGGAGCATTGATGTACCAAGTCCCATCGGTCATTGGTTGAGGGCTGCTTTTAGAGGGTGTTAAGTTTGCAGCACATTTGGCCTGCCCTGCAC
ACAGGTGGGGGTGTGAAGGGCTTCCAGAAACCTCTCAGGCTGGTGGAAGTTGAGTTGGCATGCATTACAATGGGAAGGTCTGAGAGTATGTGTG
TGGGAACTTACAGGCTCTGCTACGAAGTCAAAAAGTAAATGTTAGATGGGCAAATATAGGCTACATGAAAATCCACATAAACAGTTTCAAAGCT
AGTTTATAGTCGTACTCAAAGTGTATACATGTAGATATGAGTATTGAAGGATGTCCTTCTGCAGGTGAACCATTTATGAGTGGCTGTGGACATT
TTCATCAGATTTAAACACAATCTGTGTTTTTGGTTAGACACACTGTGGGAAATAGCATAATTAGCAGAATTCAGGATGTGAATAACATAGCACA
AAGAACTTAGACAAACAGGACTTCAATAAAACGTAAAGTCTCGCACTTAAGTTTAAAAATAGTGCTTCCTATATGTTCTGGATGGGGGGAAGCT
GTATTAATTGTAGTTCTTATGACCAATACCAAGAGATTTTAGTAGATTGTAAATTCAACATGAGTCAGTAGTGTCGTGTGTCTTCCCCAGAATA
TTAACTTTCCAAAAGTTAAAATAATTAGAGATTGCCTCAACAGAAATAGCCTTTCCATGTTAAGGGAGTAATGCCTCCATTCTATCCTGAGGTC
CAGTCCTAATGCTGACACATAGTAACTTTATTCCCTTAGCCGGTGTCTTAATGTTTCGGAGACTCAGTTTCTATCAACCTGAAAGTTAGTAGAT
ACTTCCCCTGGATTGTCGTGAAGTAAGCATCTTACCAGAAAGTTAGAATTTATGGCCCAGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTG
GGAGGCCGAGGTGGCAGGCGAATCGTGAGGTCAAGAGATCGAAACCATCCTGGCCAACATGGTGAAACTCCGTCTCTACTAAAAATACAAAAAT
TAGCTGGGTGTGGTGGTGCACACCTGTAGCCCCAGCCGCAACAGAATACTCTGGAGGCTGAGGCAAGAGAATCACTTGAACCCAGGAGGCAGAG
GTTGCAGTGAGCCAAGATTGCGCCACCGCACTCCAGCCTGGTGACAGAGCGGGACTCCATCTCAAAAATAAATAAATAAATAAATAAAGTTATA
ATTTATGTAAAATGTTATTAAAATTCCAATCTGCAGTACATACTCAAAAACAGTAGCAATCATTATTAGTATAGACTTGTTAAGTGTTAGTGTA
TGGCTTTTTCAGGTTAATAATGCAGCTTGCCAGAGGATCCAAAATCACATCATGGAGATACAAGATGGTTATAATGGCTATGCCAAAAAAATTA
CCAGGATGGTGTCATAATAGACACGAACAGCTATGAGACTAGAAGAGAGTGTTATAATTTAAATTTTCCCATGAATTTGAGCTGTATTAATGCA
GTGTTTAGTAAGGAAGACCTGAAAAGTCTCTCATTTTTCAAAATATTAGGACAATGATGGAAATCCAACCAGAACTATCTTTGGGAATTTATTA
GAAATAATATGGAGTATTTCATATATCTAAAACACAGGAAGAGTACAGGATGCCTGCAGGCCTTAGGAGTGCCTGAAATTAGGTACTATAATAC
TTTTAGGAGACTATTGCATATGTTCTGTGTATGTATGTGTCTCTTCTCTGTCTGACTTGCTTCTCTCTGCTTGTCAGCTCATCATTTTCTTTCA
CTGAAGATTTGTTTTCTACATGGCACTAACAGCTGTAAATCATGCATCTCTTACCATTAGAAATTTAATATTTTTTCCCTCAAGTTCAGTGAA
AAAAAAAAAACTGTCAGGGAAGAACTTTGGTTCAGATTTGGCCAGGTGGCTACTGCTTGAATGAATTGACTGTGGCCACAGGGTTGGAGTCATT
TAATAATCCAGCATTTCTCTCTAAAACCACATGACGGAATCTGGGGAAGGAGCGTTTCCTAAAGGAAGGCTATTGTGCTGGGCATATGAAGCAG
TATCTGTCATAACCAAGATCTGACCAAACACTAGAGTGCAGCATGCTATTAGATTCAAGTTTAGTTTCTGGATTTTAAGATGGGAATGGAAAGG
CTAGAGAGAGTGCAGAGGAGATAAATAGTTAAGAAATTATACAGAAATAACATCTGTGAGGATATAAGATGGCAGAACCTGAAAAGAAGACAAA
TAAGTGGGTTTTCCCCTTTGTTTTCTTAATAATGTAAACATGTATGTCTCAATAGTAATAACCATAGAAGAGCTAGTATGAGTTATTTACCTCC
AGTGGGACATATAAAGGGTAAACAAATTTAAATCTACCAAAGAACTGGGACTTCCCATAAAAAAATTAAACATCAAAAGGAGAACTTTCATATC
TGACCATAGTGGAATACTGGATATTAGAATTATTTTCCTGCTACCAACAGCTATAAAACTGGACAAAATATCTGAAGCAACTATTTTTGGGTCT
CAGAAAACAAGACAGACATGTGATTGTGGATAAAATAAAAAGATGTGAGGTTAACTCAAAACTCCTCTTGGCTTTCTGCCTGAGAGCACTTTAC

AAATCATGGTACAGGAAACTGGAGCCCAGTGAGCAGCATCTTGCCTTGCGGAGTATCTTAGTTCGTTTTCTGCTGCTGCAACAGAATACCAGAC
TGGGTAATTTATAAAGAGATTTATTTGGCTTATGATTCTGGAGGCTGGGAAGTGCAAAATGAAGGGACCACATCTTGTTATGTCATAACATGGC
AGAAGGCATCACACAGACAGAGAGAGTGCTTGCAAGACAGAGAAGAAGGGGGCCAAACTCCCAAGATAACTAACCCTTTCCCAAGATATGGAGT
TAATCCATTCATGAGGGTGAACCCCTCGTGACCCAGTCACCTCTTAAAGGCCTCACCTCCTAATACTGTTACAATGACAATATTAAATTTCAAC
AAATTTTGGAGGGACATTCAAACCACAGCACAGAGAGAACAGTTTGTGTTCAGGGATTCTGGGATGGCTGGCATTTGTGGAGTGGCATACAAGA
GAGAAGGTATTTCCAAAGACTAAACTGTGCATGGATATGATGAGACTCTACGACCCCTAATAGTTCCTGGGGGTCTTTGAGTTAAAGGAGGTCT
CATGGTCTGGGAAATAACGCAGTTCCAACCAGCCAAAATGGAGAGACATAACACTTTGGGCATTCAGGTGGGATGAGAAAAAGACTACAATGTA
GGAGTTGGGCTACTTTAGCCCTAGAATATGAGCTAATCTTGACTCACCCTAATGAAGCCTAAATCTGAGCTTCAACAGGATTAATTTAAGGTCC
CATGAATTAAATACCACCATAAAGGAACATATTAATAATTCAAATTATCAATATTGCACTTACAATGCCCAGCATGTAATAAAAATTATAAGAC
AGAAAAAGAAGCAGGAAAATGTGACTCATAACCAGAACAAAAAAGATCAATAGAAATGAACTCAGAGATGACACAAATGTTGGAATTAGTAGAT
AGAGAATTTAAAGCAGCTATTATAAATAAATATGTTGGAGGATTTAAAGTAAGATGAATAGATGTAAGTAAAGTAAGATGACCTTAGCAGATAA
ATTGCAACAATTAAAGGAACCAAATGGAATTCTAGAACTGAAAAATAAAATATACCAAAAAGAAAAATTAACTGGATGGGCTTAATACTATAGT
GGATGCAAAAAAAAAAAAAAGAAAAAAGAAAAAAAGAAAGGTCAGTAAAGTCAATGACAGGTCAATATCTCAGAGAGAAAATGCTGAAAAAAAA
AAAAAAAAAAAAGACTAGAGTTTCAGATGATGTAACCAGAGTTTAAATGGACATGAAAGGACCTGGAATAACCAGAATCTTGAAAAAGAATGAA
GTGGAAAATTTACACTACCTGTTTTCAAGACTTAATATAAAGCTATAGTAATCAAGTCCATGTGATATACATATAAGGATAGACAAATATATCA
GTGGTACAGAATAGCACGTTCTGGAAGAAATCTACATATACGGTCAGTTGATCCTCAGCAAAGGCACCAGGGCAGGTTAACGAAGAAAGGAGTA
TCCTCTCAACAAATGGTGATGGAACAAATGACAGTCATGAAAAAAAATGAACTGTGACCTGTGTCTCACACCATACACAAAAAATGAGATGAAT
CAAATGATGTAACTGTAAATAATGTTAACCTGAATGTAAAGTTAAAACGATAAGTCTTCTAGAAGGAAATTTAGGACAATGTTTTTGCAAACTT
AGAGTATTTTTTAGACAGGACACAAAGGACTAACCATAAATAATATATTTAGCAAATTGGACTTTATAAAAATCAAAAACTTCTCATCAAAAGA
TACCATTAAAGAAATGAAGGAAGAAAAATACTGGGGAATATATATATGTNNNNNNNNNNNNNNNNNNNNTATATATGTATGTGTGTATATATAT
ATATACACACACATATATATACACACATATATATGTGTATATATATACACATATATGTGTATATATACACATATATGTATATATCTGACAAG
AACTTCATTTTATGCTAGTATACAAAGGAAAATTCCCTGTGGCCCAGATGAATTGCCATTATTGGGACCCTCTGGCTCACACCAGATTGATTTC
TGATCATGCTTTTGAAATTAGAATTAACCAAGCCCCATCAAGGAGTCTGTAATATAGGCAGGCACCAAATCAGCTGTGTTAAGTACTTCCCTTG
CATGTTGCCCTGAGAACAGGCGAAAGACTTCACTGCCGATTTCTGAAATTGGAAGAGGTCTTCATGGGGTCATCTAGTATAGCTTGTAGATCTA
CTCCAGGGCAAGGATGAACTCAATGGTCTAAATCAGTCTAATCAAACTTGATCTGATCCCTTGGGAGCTTTTTAAGAATGCAAATTCTCTGCTC
CATCCCTGGATCTCTTGATGGAGTAGGTATTAGGTAAGGCCTTGGAATCTATTTTGAGTTCCGTTGGTGGTTTTTTGTTTGTTGTTTTGTTTAG
GCCAGTCAATGAAGCAGTGAGAGTGGAGAAGAAACAAAGAAACCTGTAACTGGTTGTGATCAATTAGTTGTAAACACCACTTCAGTCAGACCAG
TTTTTGTTCTGCTTTTGTTGTTATTTTTTAGTTTAGTGTGTTGTTTGTTTGAGACAGGGCCTTGCCTCTGTGTCACCCAAGCTGGATTGCAGTG
ACAGTATCAGCTTATTGAAGACTTGAACTCCTGGGTTCAAGTGATCCTCCCATCTCGGCCTCCCAGAGTGCTGGGATTATAGGCACCTAATGGG
TAAGCTGCCACCCCAGGCCCAGCCTTAGTTTTGTTGGTAAGCTAATCAGGAGGTCTTGAAAAGTCTCACCTGCCTCTTAGTCTATCAGAATCTG
ACCCTTCCTTCAAGGTCCATCTCAAATGCTACCATCTTTATGAAGCTTTAGCCATTTCTTCCAGTCAAATCTGACTTTCCCCTTCCTCTGAACT
GCCCGTGTTTACCTCCCTCTAGGCCCTGACTGTACCATGTACTGTAGTATTGCCTGTAGCTTCTTCAGGCTTGGGACAGGGTGCTTATTATATC
TGCAATCCCACAGTACCTATCACAGTGCTCTTTGAGCAAAGAACTCTGGTCTTGTGATGAGAAAAGCCAAGTCTAGGATGCCAGCTCTGCCACT
TGATGGTATTATCCGTGGGTTAGTGATTTATCCAGGGGTGACATTCAGAATATTTATGTGTGTGTGTATATATATATATGAATGAATAAATGAC
AGGGTCTTGCTCTATCACCCAGTCTGGAGTGCAGTGGCACAATCACGGCTCAGTGCAGCCTCCACTTCCCTGGCTCAAATGATCCTCTTACCTC
AGCCTCCCAAATAGCTGGGACCATAGTCATGAGCCACCATGCCAGCTAATATTTTTTTATTCTCAGTAGAGATGAGGTCCTGCTGCGTTGCCCA
GGCTGGTCTCAAACTCCTGAGCTCAGGTGATCCTCCCGCCCCAGACTCCCCAAGTGCTGTGATTACACGTCACCACACCTGGCCTTCAAAATAT
TTAACCAGCATGGCACATGTCCCTTCATTTAGACGCCCGCTGGCCAGGCTGGGGATTAGCCCGTCTTTATGCTTTTATTGTCGGTAAAGTGGA
TACAGTCCCTACCCACCTCAAAAGGTTGTTGTGATGGTCAAATGAGATAATGCATGTGAAAGTACTCTGTAAAGTACAAAGTGCTATACAAATG
TAAGTCAGGGTTGCCTGGTGGTATTTCTAGTGCCCGTGTGTGGGGTTGGTTGCCCAGCCCTCAACATGGTCTCATGGTCTGCTCTGCTCTGCTC
AGAGCAGTCTCCCAGGAGCAAACCAAGGAGTTGTTGAGTAATTGAGCAGGACACTGCAAATCTGAGAAATCCTGGAATCAGCCTGTTAGGTCCT
AAGGAAACTCAGAATATCAGCTCCTTCAAGGATGGCCCCTTTTTAGGCCTGAAAAATATCAATGTTTCAGTACATATATTTTGGAAAAGCTAAA
TAAAACAAAAACCTAAAAAGGCTTTTTGAATTTTAACCTAAGTTTTCCTTATTTGAGGACACCTTGTTCTATTGCACAATGACCTTAAAATTCA
GGATCCTTAAAGATATCTGGGCATCTCAGACTCATCTGATTGTCACCATATGGCAAGGAGCTGCTCTGCCTAGATCTGTAAATGGAGTTAAATG
CCAGAGACATTAACATAGATTAAAGGGACAGTCTAAATCTTAGTCACTGCTTTGTCTTTATAGTTTCTTGCCTCCTCTTTTTACCCTTTTACTT
CCTTAAAAACTGTCTTAATTTCCTCACCATCGCCTTCCCACATGCCCTCAGGTCTGCAGATCCTGGGGATACAAATCCTTAGCCACTTTTCTCT
TCCAAATGCATTTCACTCTTTCCTCATATTCAGTGCCCAGTTACTGTTTTGTGTTTATCATTAGTTGCCAGTCAATGTTAATGTTTGTTCTTAT
ATGCTTTGATTTAAATGAAGGAAATGGCCCCAGTGTAGTGTGTACAGCAGAGAACTAGAGACTGTAGGGAACAGACAGAAAATAGACACAACCC
TTTTACTTACTCTTGAAGGATTCCCATTTAAAAGGCAATGCAGGGATGGCCACAGTGACTCATGCCTATAATCCCAGAACTTTGGCCGGCCGAG
GTGGGAGGATCGCTTGAGCCCAGGAGTTCAAGACCAGCCTGGGCAACACAGCAGGACCTCATCTCTACAAAATATAATAATAATAAAAAGAAT
TAGCCTGGCATGGTGATGTGTGCCTATAGTCCCAGATACTTAGGAGGCTGAGGTGGGAAGGTTACTTGAGCCCAGGAAGTCAAGTGTGCAGTGA
GCCATGATTATACCACTGCACTCCGGCCTGGGCAATAGAGTGAGACCTTGTCTCAAAAAATAAAAATAAAAACAAACGGCAAAGATGAGTTCAT
GTCCTTTGTAGGGACATGGATGAAATTGGAAATCATCATTCTCAGTAAACTATCGCAAGAACAAAAAACCAAACACCGCATATTCTCACTCATA
GGTGGGAATTGAACAATGAGAACACATGGACACAGGAAGGGGAACATCACACTCTGGGGACTGTTGTGGGGTGGGAGGAGCGGGGAGGGATAGC
ATTGGGAGATATACCTAATGCTAGATGACGAGTTAGTGGGTGCGGCACACCAGCATGGCACATGTATACATATGTAACTAACCTGCACATTGTG
CACATGTACCCTAAAACTTAAAGTATAATAATAATAAATAAATAAAAACAAAAAAAAAACGGCAATGCAGGACTGTGGTAGATATTAATA
ACTTTAAAACATAATGATAAAATAACCAGGGTGATAATTTGTAGCCCCTTCTTGCTACTTCCTAGCTGTGGGACATTGACTAGATATTTTTACC
TCTCTTGACTCTGTTTCTTCATGTGTGAAACAGAGAAAACATCGATCATGCAGAATTGTAGTAAATATTGAGAGCATGTCTGTAACATGGCCTA
GTTCACTCCTGGCACATGGTGGATGGTTCAGTATATGGTGGCATTTATTATATTCTCATTTAGCATGCAGGCCAGCTCTGGGAAACCCTCAATA
CCCAGGTAGACTATGTGCTTTTTATCTTTACAGCTGTCAGGGTGAGAGGCAGTGGTATCTGGTGGAAAGGGCAGGGTTTACCTCAGAAGACTGG
AACTCAAGTCACAGCACTGTCACTCATAAGATGGGTGACTTTAGGCAAGTCATACCACCTTACTCTCTGTTTCCTCACCTATAAAATAATGCAA
ATAATACCCATCTCTCAGAGTTGTGAGGCTCAGATGAGGCAACGTGTGAGGAGAGTGGTCATTCATAAAACGCTAATAAATAGAGGTTATTAGT
ACTTCAGCACCAGGGTGAGGGTTTCATGTGCCTACGTGACAACTGTCAGGCACCGTAACTATTTGGGACCCACAAGTTAACCAGACATCCGTGG
TGTGAACTCAGTTCAGAACCTTGTTCTCCTCAAAAGATATTAACACTTTTTTCTTATCTTGAGTGCCATCTCTGGATTATCTCTCTGTTGGAAG
GGGTGGGCGTAAGACATTATGAAGCTCTCATTCTGCAAAGAGCAAATTGAGGCTCAGAAACAATCAGGGCCATCCCAGAGCCAGGCAGCCTGGG
TTTGAATCTCAGGTCTACTACTTACTAGCTGTGTAAACTTGGACAAATTACCTTACTTCCTTGCCTCAGTTTCTTCATCTGTCAGATGGCACCT
GTCTCACAGGGTTAATATACGTAAAGGCTGTCTTGAAACAGTGTCTGGTACACAGGAAGTGCTCCAAGTATGTTAGCAAAAAGAGAAGACGGGG
GTGGCTAAACCTTGAATGTAGTTCATTTCTTCTGGTTAGATGCTGCATTTCTTCCAACAATCTCAAATATTTCTCCTGGTCTCCCCCATCTTCC
AATAAGTAACAACATTGTTAGTTTCAGTGTTGCATTTTGGCTATTTCTGTAGGACAGTGATACAACACATCAATTCATGACTTAGGATGTTCTG
AAGCACATTCTTTTTTGTTTCATTTTGTTTATGGAGACAGAGTCTTGCTCTATCCCCCAGGCTAGAGTGCAGTGGTGCAATCTTGGCTCACTGC
AACCTCCGCCTCCCAGGTTCAAGCTATTCTCATGCCTCAGCCTCCTGAGTAGCTGAGATTACAGGCGCCCACCACCACACCCAGCTAATTTTTG
TATTTTTAGTAGAGACGAGGTTTTGTCATGTTGGCTAGGCTGGTCTTGAACTCCTGACCTCGGGTAATCTGCCTGCCTCAGCCTCCCAAAGTGC
TGGGATTACAGGCATGAGCCACCGTGCCCAGCCCCTTGAAGCACATTCCTATTCAGCTCTTGACTACTGAATAGAGACCAGTTTCTTTCCTTTG

AATAGTAAGAGATTCCTCACTCACCGGTGCAGTTCTCACTTCAGAGTGGCTCTCCAGGTCCTCCTGCTCACTTCTCTCTAGCACCTCTGTAAAC
TCTTGAGGGTTCTGGCGTTGGGGGAGTGCGCTTAAAACCTAGGATTGAAGGGAAGCTTGGAAGGCTACTAATATAGTTGGGATGTTGTTCCTGC
CCAAATCTCATGTTGAAATGTAATGTTGGAGATGGGGCCTGGTGGGAGATGCCTGGATCATGGGGGTAGGTTTCTCATGAATGGTTTAGTACCC
TCCTCTTGGTACTGTCCCCATGATAGTGAGTTCTCATGAGATATATGTCCCTCTGGGAAGCTAGGACAGGGCCCCACTGCTCCTGCTTCCCTTG
CCTGGCTCATGTCTATAGTGCTGCATGGGAATGGTCAATGTCTATGAGCCATGGGGTTGCGTGCATGGCAGCTCATCAAAGAATCAAACTGTAG
CATAACTACCCAGCCAGATGTGTGGCACTTCCTCCCTCTCCCTCTTGCTCCTGCTTTCACCATGTGACGTGCCTGCTTTTTCACCCTCTACCAT
GATTGTAAGCTTCCTGAGGGCTTCCCAGAAGCAAATGCTGCTATGTTTCTTATTCAGCCTGCAGAACCTTGAACCAATTAAAATTTCTTTTCTTT
ATAAATTATATTTTCTTTATAGCAATGCAAGAATGGACTAACACAGCCACCAACTAACTGCCAAGGAGGACCCCATGCTTGAGGGGTCCAGTCT
*CGCTGGC*ACAGTGATGAACTACAGTGGACAGCCACTCCTTGAGTAGTGGTCATAGTTAAGGGACAAAAAAATCATGGTTCCAGTCTGGAATAGC
CAAACAAAGAAAAAAAATAGCCAGAACAAAGGAAAAAAAAACACAAATAGTGCTTAAATCTAGCAAGAGAAATAAGAATAATTCATCACTGTTAT
AGTGCTTCACACTTTTCTAAGCATTTTTATGTATTTAATCAAACATCATCTAATCCTAACCACAACCAAAGAAGGGGTGAGGAAACTTTCAGAA
TAATTTCTATCTGATTTCAAAAGACTCTGTTCAGTTACTTTTTACCCTACATGGTGATGTGATGTTTTTTTGTACGAGACTGTTCATTGCAGAG
AATTATAAGCAATTAAAGAACAGTTTCTGTGGTGAAAAGCATATTTTACAATAAGACTATGGTCAGTGGATTTCTATTTTATGTCAGCATACAC
TGTTTCCCACAATTCCATCATGCACTGGAATGAGGTTATCTATTATCTAGGCTTGTGGGTCTGATGGGACCAAGTCACTCATTGAGAAAAATTG
TCTGAGGAAGGCTGAGGTCATGGCTAACCAGTAATTCTCAGATGGGCCTTATATTATTTTGTTGTGTAAGTATTTGGGAAGTTCTCCAAGTTGC
*TTCTTCGTGCCTATTGGGC*ATGTCTGAAAATATGCAAAAAAGGCCAAGAATTTAATAGATAAGAATGACGTGATACAAATATGCTCCAGTGAGC
AAGGTAAGAGCCTGACCCAGATTTTCTTCCCAGTTTGTTTATTTCTTTTTCTTTGGGTCCACTGGCCCTTTGCCAGCCCTCCTCCCAGCAAGCT
GCTGGCAGCTCTCTGTGTCCTTCTGGGAAGCTAGGACAGGGCCCCGCTGCTCCTTCTTCCCTTGCCTGGCTCATGTCTATAGTGCTGCATGGGA
ATGGTCAATGTCTATGAGCCATGGGGTTGCGTGCATGGCAGCTCATCAAAGAATCAAACTGTAGCATAACTACCCAGCCAGATAATTCAATTGT
TCCTAGAGAGTTTGATGGGACCCAGAAGAAGTAGCCACCAGGTATATTCAGTCGGCACTGACTTCAACAAATGCTCTTAGAGTTTGAAGTCATA
*GCGTTGT*CCCAGAGTCAGCTCACTGGGTCTGCTCGGGACTTGCAGTACCTCTTCCCTGCTCTTCTGTTTATTTCCTAGCCCCAGTCCCCAACC
CCACCCACAGACTTGTGTCCAATTTCCAGAACTGAAGAGGACCAACTTCCCTCCTGACTTCTGAGACTCATGATTCTTCAGACATGACAAGTCC
AGATCGAGACTGCAATCCCCAAGGAAGGCCAGCTGTCTTGCTCAGCAGAGACAATACAGCTAAAAGCTCTTTCTCACTTTAGGCAATTCATGCA
CTTGGTTAGACATTTATAGACTTCAACTGCTCATCCAAAAAATCTAGGTCATTCTTTACATAGAGCTTCACACTTTGGAAGGAAAGCCAGGCCC
AGGGAGGAGCGTTTCTGTTGATGTCTGGTTTGGCTGAGGCAGTAGAGAGTGCTTCTGCTGTGGGAAGAGGGAGAGATGGACCAGCGCAGGCACT
GTGGGCCCTTAGGGGACGTGAATTTTCACCCCCTGGCCACTGACTCACAGAGTCTCTGAGTAAATGGTGCCAATAATAGCTGCCTTGTGTTGAT
GTCATGAAAAGTGGTGGGTTTAAGGATTAGGCTTTCTAAGGACATTTTTAAAGTATGTACCATAATTCCAGTGAGAAGGGCTGGGTGGGTCTGT
*TGGGGGTGTAGGGC*TTCCTGGGGAGGAAGAAAGAATAGAGGTGTGGGTGAGAGGTTTAGCCATGTAACATGGATGGCCAAAATGGTAGAGCTCT
TCCAAGTATATTCCTACCTGCCTCCTAAGCCCCGAGGAGAAGGACATGCCAAAGAAAGAGCCTTGGGCTGGGAGTGAGAGGGCCCTTCTTGTGG
AGGTTCCTCTACTCACCATGGCTGAGGCATGTTGCTTCAGTTTTCTCATTTTTAAATTTCAGCTCATGGTTCTGCTGGTGCATTGAGCTGCTGT
ACAATGCAAATGTTCAACACAAGTGAAGCTGTTTGTTGAACCTAAGTGCCACAAAAACGTAACATATCATTATCAGGTGTTCTCACCCAGAGAG
AATAGTGTGGTTCTTCAGCCACTCGCTTGCTTCAGGGATGGTTTGTGTGGGCATGTGCTCATTTTGTACAGGTCTGTTCCTGTGTACCTAGATG
CTGTGCAACTTGAAAGGCCTGCTCCTCCTTCCTGCTCTACTACTCTGGCCCCAGCAGGACAGTGAATATCAATAGAACAGAGGCAGGAAGCATG
GGTTCTTTTCCTTCAAGTCTTTTCCACGTTGGCTTCTCTGCAACAGGAGTTGAGGGAGGCTTGGTTAGAACAAATCACCTTTGTCTGGGGGTGG
GTTAACCAGATTTTTCCCTCTTCTGTGTCTGTGGCCTTGGTTGTGGCACCAGCTGTCATCACTGCCCCAGCAGTTGGGTGGGAGAGAAGAGATG
AGCCTGGCCAGCCCCTCTCCTGCTTTAGTAAGACTCCGCTTAAAGGCCTGTTGTAAAAGTTTGAAATTGCAGGTCAGGGTTAATTTAAAGCTTG
TGTATTGTCCATGTTATGGTGTCCCCCAGCCATTACAAGTAAATAATTAAAAGCCAATTGTAACCAAGATATTCAGAGCTCCATAAATTCCTGG
ACACCATAATATGACAAGAAATAGACACTAGTCTAACTATATGGCAGGCTGTCCTATGTGGGCCAGGGTATGACATACCAGGTTATCCCAGAAA
GAAGAACAGGACAAGCTTTACAAGGAACTGAGCTTCCCTTCTCCCAAATTCTCACCTTATATTAACATTTTTGTTCTTGGTTTAGAGCACCAAC
CACTTCAAGAAACTGCTGTTGCAATGTGGATTTCTCTGAGAGGATTCACCCTTGAAGTCCTTGTCTCCTGCAGAGGAATTTGTTGATCTGGATT
AACTGTCCAGTCATTGGGCAAGGCCCAGAGGGCATGAGATTAGGAGTGAGATGAGGAGTGGAATGGGTTCAGGAACACCTGGGGAGCAAGGAAA
CCAGACAGGAAGGAATACAAAGGAAGCCCAGCAAGCACCAGCCCTCTTGAGGAGGCTTGCAGCTGCTGTGGGTGCATGCTGGAGGTGGCCCAC
ACCTGTCCTGAGAGCTGACTGCAAGCATCTCTTCCTAGGTGCATGTTCAGTGACTTCATGTTGGTAGCTTGAAACTGGCCATAGTGGAAGTATT
TACACCATGCAAATACGTGAACACTACAAACCAGGGTTCCTCTCACTTCTCTCCCAGGAGAGCTTTACATTAAACTCTTGCAAGCATCCTGCTG
GTGGCAACCATAATGGATTCTCACTTTCCCTGAAAAGCAGGACTTAATCCTTAGCAGATCACTTGCTTTCTCCCGATTGTTCTCCTCCCCTGAG
TCTTGAGGGGCTGGGGACTAACAGAGACCAAAGTGGCCTTGGTGATATGTATGAAGTGGCTCAGGTCATAGACGGTATACAAGTTCAAAGTTTG
TATCACCACATTGTTTCTTCACATGCACTTCCTGCCTAAGTTGCTGCCGTCCGCTCTAAAAAACTAAACAAACAACGACCAGAAAACAAACTCT
ACTGATCTTATTTTCAGCTTGCCAATTTTTATACAGTCTCCAAACAGGATTTAATGAATGTAATAATCTTGCTGACAAATAGGTTTTACTTCTT
TGGAATATTTATCACATAGTTATTTATTTAGAATTCTGTGTGTATACCTACCAGGTTCAACCTAGACCCAGCCTAACCATGTTTCTGGAGATAC
TGACCTCCATTATCAACCTCAGCCTTACCACAGGCTCTGCTCTAACCTTGCCCCTAGGTTTTCTGATCCTAGCTTTCCCATTACCACCCTCTGG
CCTCTGGTTGTGGCACACCTGTTATTTCATGTTAGGCCCTCAATGCTGACAGCTTGCCTATCCTTCATATGCTGATCTGTCTCTGGTACACTCA
AAATACCTTCACACATCAAGAGATTTCCTTGGAAACCAAAACAAAGGAGAAGAAGTGACTGTTCCGGAGTTGCTGCCTGGTGCTGGACGTTTGT
TTTCATGTTTCATGTTCATCTTGCAGCAAGGCATTTCCATCTCATCCCCCAGACAAGCCTTCACTGTAGGAAAGCTGGCCCCCACCTCTTATCA
GCAAGGAGCAGGGTCTGCATCACCACCCTTTGCCAGTTTTCTCTCACGAGACTCTGATCATCAGGGAGCAGGTCTTCTCTCTCAGAGGCAAGGA
GCTTATTTCAGGCAATAACAGCAGTTTTCATATGGTTCTTCAGATCTCCTTTAGTACCTAGGACAGTGCTTTCCATAGGGTAGATTCATTATCA
ATGTTGGTTAGTGGTGTCAAAAATTATTTCTACTTGAAGTAGAATGAACAGTTGCTATATAGAATAGTTA*GGAAGCCATATCCTGT*CATTGGAG
GGGTCCAAGTAGAGGCCAGACAACCACTTACCTGTGATGGTTTAGGAGGGAATAATGCATTTGGATAGAAAGAAGAGGTAGAAGATGGCTAGC
CTTTTCCACCCTGATTGTGATCTCATAAACTATGGGATGCCAGCACTGAGTCTAACGGTGGAAAATAGGCTGTTGGCCCAGAGACAGATGACTC
TCCAGAATCCGCTTAGTTTTTCTGTTTTCTTGAGCAAGTGGTCTGCAGGTTGAGTGAGTCTTTAATTAATATGCTTCTCTAGCAGCTTACATTA
CTCCCCTAGTCAAATGGCAGAGTATGTAAGATCAACATTGTGTACCCCACTGAGGCTTCAACCCTTTAAAGAAGTCTTTTCCTGTAAGTGTAAG
GAGAAGCAGATGGTAATGAAAAAATACGCACATTTTATTATGCGTTGCACATTTTACTTATTAGAATTTTTAGTATGACACCCTGCATTTTAAA
AAGCCTAAAGATGAAAACAAAATGGAATTATTCTTTGAAATATTTAAATCAGCTTGCAGCAATTATCTCAAAATATGAAAATAAAATCTAGCAG
CCTGGAAGGTAGATCTTCCTTGACCACCCACTTTGAAAATCTCGTCTTTCAAAGGGAGGCTCTTCCTCTCAAAAAGGAAGAAGAGCATGCTGTA
CAGAATGAGGGCAGGAAGGGACGTATCCCCGATGAGGTTGTTCAAAAGGAAGAAGAGCATGCTGTACGGAATGAGGGCAGGAAGGGACATATC
CCTGATGAGGTTGTATAGAGCTGGAGCTTATGTGTGGGAGAGCTGGTGGTGGGAATGAGGGCAAGTGACTACACTGAACCATTCTCTCGTTGAA
AAGTAGAACCAGGACTGGAGAGGAGTTACCTCGGAGTTCTGGACTGGGTGTAGAGAGAGAGTGTTTCTGTCTGCTCTTTCCCTAACCACATCTC
TGCCTCCCTTGGCTGAGTGAGTCATCCTCTGCCAGCCTTACCATTTGCCAGCACTCACTCCCACAGAGACCATGTGAGGATTAACAAGCCGTAC
TTTGGGAACGTCACTGAAACTGTGGAAAAGCAGTGCAAGGTAAAGGTGAAGTGTGAATATGATTGTGAATCTTAAGCACAGAACCCTGAGTTCT
TAAAGGCAATTTTTAAGATTAGTATCCATCAACCAAAGTTCACAAGAGTTTTTCAGAAATCACCAGAGTACAAAAGCTATTTCACGAAATGTGC
AGTGGCTGTGACCTTAGTGAGATTTCTTAGACTTGTAGCCATAAGGACTGGAAGAGTTCGTAAAGCTCAGCTCCCACTTTATTCTTGAATTCCT
TATCCTGACGAATGGTGATTCAGCATGCAGCCAGGTATAGTGGAAAGAGAAGGGGCTCTGGAATCAGACAGACCTTGGGCCAGGTCCCAGCTCC
TCCACCCATTGTCCCTTTGACCTAGAACAAATTACCTAATCTCTCTATGCTTTGATTTCCTCAGCTGTGAGTTGTGAACAATGCTTGTTGTTGA
GAGTTAGAACATGGTTAAAGTGTTTAGCACAGCTCCTGGTATTTAGTAGGGCTTCAATAAATGATAGCTGCTATGCTAATTACAATAATGCTTA

TTAAGTGTTGCTCTTCAGGCTCTTTTTTAATATCTCTGTGATGGCAATGCTTCCATCATTAGACAGTGCTGATGGCTAGAATTTTCTGCCACAT
GTTGTGCCCAATCCTATTTCCTATAATTTCTATCCATCTACTCTGGTGCTGCCTTTTGTGGCCCCATAGAACAAGTCTAAACCAACTCCCACAA
AGAACACTTCAGATATTTGAAGACAATTTTAATCTCTTCCCCAAGTTTTCTTCATGGTAAACCCTTTAGTTCCTGGAATCCTTCCATAGGTGAC
TTAGTTTTGATCTCACCCAGGACACGTCTAAGTCCCTTTTCCTCACATATGAGTATCTATGGGAAGATGCTAGCCAGCCATAAAGGGAAAGTTG
AGATGGCAAGTTTTAGATGCCATCCATACTGAATAAGCTGGCTTTTGTCCATGGTTCTTGTGAACATTCTAATGCATACCCTACAAGTATATTT
CACAGTTCCTTCTTTTCACTGTAGTTTCACCAGAGTGTTCAGGAATATGAACACTGCTACCTGTGAGGAAGNNNNNNNNNNNNNNNNNNNNTTG
CAGTTCCTGCCCTTTGACTTTATATTCAGTAGTGTGACTTGCTTTGGCCAACAGAATGAGTCAGAAGAAACAGCACGCCAGCTCCAAACCTAGG
CTTCAGAGGCCCTGGGTATTTCCAGTTACTCTTCAGTGTTCTGCCATCATCATGAGATAACCTACCCCCACTAGCCTACTGGCCCAAGGAAGCA
GGGAGGCATGTAGGCTAGGGCCCCCAGCAGCACCCAGCCTGCACTAGCTGATTGTAACCAACTCACAGAAACTTGAGCAAAAGTAAGTGATTAC
TGTTTTAAGGCACTGAGTTTTGGGGTGGTTGGTTATGCAGAATTTTTGTGGCAAGAAATAATTATTATGGAAATTATGTGGGGCCAGAAAACAT
AAAGTAATACTAACCCTACCTGGACAGAGTACAAGTTTAGAAGAATTAATGAAAGATTTACAAAACTATAACCAAGCTAGATGAACACTTTTTA
AAAATGATTTACCAAATTGTAACTTTGAATTTCTTTTGCAAACTGTGACCAGGAAGAAGATAAATGTGTATATTACATTTCACGAATGAAATAG
GTAATGACGAAAGCAAACTCAATTTCTAAATATCTGTGAAAAGTTAACGTGTTTCCTATTCGATATAGTTCACTCATTTACTCAAGAAATGTTG
AATGAATCATGTGTCAGTACCATTCTAGGCCCTGGAAATATAGTTGTGGAAAAAGTGGACAAGGCCCAGGTCTCATGAAACTTGTATTCTACTG
GAGATTTAGAAAATAAAAAATTAAATAAATAAAGCAGATAACTTCAGATAATGGTAAGTACCATGAGAAAACTCAGGCAGGGTAAGGAATACCT
TAGGTAGTTTAGAAAAGACTTCTCTGAGGATGTGACATTGAAACTAAGACCAAAATGACATCAGTAATTCAAGGGAAGAAAGACTACATTGAAG
AAAATAGCAAATGCAAAGGCCCTGAGGTAGGAATAAGCTGGGAGTGTTTGAGGTACAATTAGAGGTGTGGAGAGGAGCAATGTGGTATGAAATG
AAGTGGATGATATTTAAAGAGGCCAGGACATGTAGTGCTTTTTTGGCCACAGTAAGGAGTCCGTTTTATTCCAAGTGGAATGGAATCCACTGAA
GTGTACTAAGTGCATGACTTGATTTATAGGTTTTAGGAGTTTGTCCTGACTTCTGTATAGGGAATAGATTGTAGGTGGACAAGAGTGGAAGCAA
GGAGGTCGATTAAGTCATTGCATCATGGTGGCTACAACTAGGGTGAGGCCAAGGATGGAGAGAAATGAACAGGTTTGAGATATATATTGGAGGT
AGAATCAAGACTTCCTGATGGATTGGATGTGAAGGAACATGAGAAATAAAGGATAATGGCTAGGTTTTTAGTTGGGGTAACTGAGAGGATGGTT
GGTGGTGCCATTTCTGGAGATGAGGCAGATGCGAGGAACAATGAACTCAGGGGAGGGAGAGATCAGGAGTTTTGTTTGAATGAGTTAAGTCTGA
ACTTAGACGTTGAATTGGATTTGCCAGGTAGGCTGCTGGACATACTAATTGGGTAGCGAAGGCTGAAGATACCAGTTGGGCAGTCATCAGCATA
TAGATGGTATTTTAGCCAAGAGACTAAATGAGTTCATCTAGAAAATAGTAGTGAAAGTGTTTTATTTTTAATTTAAAATTTAAGAAGTTTTAAA
TTTTAAAAACTGTCAAAAAATAAATAAAAGAAAAAGCGGGAGGACTCAACCACAGAGCATGCTGACATTTAAAAGCTTAGCAGAAAAAGAGGAG
ACAGAAGAAGAGCCTGAGAGAGAGGCTGAGAGAGTGTGATGCTATGGAAGCCAAGAGAAGAAAGTGTTCCAGGAAAGAGAGTCATCAACTTGGG
TTGTGTTGGGTTGAATGCTACTGAGTCATAAAGTAAGATAAGGATCAAGGAGTAACTGTTGGATTTGGCAGTGTGGAGCTGATTGGTAACTTTG
AAAATAAAAGATTTAGTGGAATAATGGACACAGAAGTCAAATGGAATGATTGAAAAGTAAATGGGAGAAAAGAAACTGATAACAGTGAGGTTTT
GCTAAAAATGGGAATAGAGAAATAAGTAGCTAGAGAGGATGAGAGTTTAAGGTTTTGTTTTATTTGGTTTTGAATTGGAGATGCAGAGGCATAT
TTCAATGACAATGGAAATAAACCCACAGAGAGAAAAGTTGATATTGTGGGAGAGAAAATGGACAAATGCAGGATCAACGTCCTTGAGAAAGGGG
GAGACCCAGAGCACAGTGAAGTGTTGGCCTTCCATGCTAACAGGAGAGGGCAGGGGATAAGGGCAACAGAGTACCAGTGAAATGGTGGATTTGG
GGATGGGAAGATGAAAGACACTGTCAGTTTACATATACATATATATATACATTTTAATATATACACTTTAATTATTGAGATGGGCTCATGCTCT
GTCACCCAGACAGAGTGCAGTGATGTTATCATAGCTCACTGCAGCCTCAAACTCCTGACCTCAAGCGATCCTCCCACCTTGACCTCCCAAAGCA
CTGGGATTACAAGCATGAGCCACTGTGCCCAGCCACTTATATTTTCTCAATGAGATATGACTTTAGATCGTCGTTTGAGGAGCCAAGACTTCTG
AATCCTGAGCCCAAAAGCACTGTGTCCTTCATTTACCATTTGGTACATTTGAAGCAGAGTGAATATGATAACCCCTTTAATATAACTTTAAAGA
GCAATACAGATGACAAAACAATTCATGTATATTCTTTCATTTGATACTCTTGCCTTGAATAATTGAAGTTCCCAGTCTGGAACAGAATTCAGTT
CGTATAAATGAAGACATTGTAATGAAGGGACTATTTACAGAGATGAGAGTGGAATTAAGAGATGTATCCAGAAACTATCAACACTCAGGAGTCA
TTACCACCCTTGGGGCCAGGGGGCCAAAGGAGATTAATAGTATTAGATCCAACGAGAGCTGGTGCCATGAAGGGAGGACCAACCAGCATGATCA
TTCATTGAAAAGATATGTAGTCACTGTCAGGGGAGTGGTGTCAATGCAGAGAGGGAATGAAAAACAAATATCCTGACTTCCCTCCACTCCCAGT
CTCTTGCTGGTGCTTCCCAATGGCTAAACCCAACTGGAAGCCAGCTGGCAAGTGAGTGGGCTGATATTTTTCATGGTGAAAGAATAGATCTGGC
AGAGAATAACCAGCAGAGCTCCTAACACTTCATGCCATAAATGTTGAAAAGATTTTGAAAACCACTCCAAGGGGAATCTTTTTACCCAATGCCA
GTGTATAAATGCATCTTATTATTTTGTGCCAGCTGGGATTTAGAAAACCTAGCTAACCATGTTCTTTAATACAAATCATCATGAGTACTTGTAA
TCCACTTGCAATCTTAAAATGTAATGTTTGCCCATAGTCTTCTTTTATTTCCATCCAGAGGCATATTAACCATAAAACTGGAGAAGCATATATT
TCAGGGCTCCTCACTTGCATGAGCCCCTTCCAAGGCCATGGGACGGCCCTAGAAATGTATTCATATGGTCATTTGTTTTTGTAAAATTTGTAAA
GGTAAGATATTTTAACTGCAATCTATTAAAAACCAACTTTTCTCACTCTGACCCCAGAGAATTCTCTCCCTGCCCACCCCCCAACCAGTTATAT
GAACTTTAGGCCCCACAAAACCTGGATCTGCTTCTGCTTTCAGTGAGACTCAAGTGTGCTGATGCAGATTTTATCCCCTTTCCCGATTTTACCAC
TGTGGAGAGGAAAAGGGGTAGTTAATGAGCATCAAAATGGACATTCTGCAAGGGAAGAATGTAGCAGGAGGATGAGAAAAACAGAGGGGGGCTG
TGCTAGGGGCAGTGGAAGAAATCACTGTGCCTGAAGGATTGCACCTGAGTCACAGAGGGTTTGCAGGTGTCTACCAGGTGACTAGTTTCCCTC
CAGGGCCTAACTCAGGTGCTGCTCTTTATATTTTCAGATGCAGATGGAAACCTGTGTCGAAGTAACCAACTGTTGCAAGTCATGCTGACCATGC
ACCGAATTGTCATCTCCTCTGCAGAACTGCTCCAAAAAGTTATCACCCTATATCCTTTAACATAGTGACTGGCAATCCCAAAATGGGATCCACC
CAAAAAGTAGCTTGAAATTTGAAGTATGCTTTTATTTTTATTGGTTTGGAATAACCCTGAGTGGCAAATAGGTTCATATGTCCTTTCAGGGGTA
TGGGTGCATGTGTTGGGGGTGTGTTCATGTATCCTCTGTTGGGTGGGGCAATGTTATTGATGCTGATTGCTCTGGGGGGTGGTCAAAGAAATCA
ATATGCAAGCACAATCTTCAGGCTCTTAATAGTAAAAAATATTTTTTCTGTAGAGTGTGCAAAATAGATATTCATCCTGTGCAAATTGACAAAG
GTGCAAGCATGACTCAAGGATAAATTTCTTTCTGGCCTTCCTGTCCAATTCTTCAACTTTCTCCAGGTTCTGAAGAAAGATTCCCAGTGCCACA
GCATCTGGAGAATCTGCTGGTGCCTTATTGCTTCAGGCAGGAGGACTGACTATGTGCCAAGCAAAACCTGCTGGACTTTAACCTTATTACGGGA
TATGAATCAAGTAGGGAGGAGAAAGCTCCTGCTTGCTTTTTCTCACTGATGACACTGTAAGCAGCAGCCCCCACAAAAGAAGAGTTGTAGGCGG
AGTGAGACCGTTTAGCACCCAAGGCGCAGGTCCCTGGTACTGTGTCATGACTTGTAGCTGCTCTAACACTTTTCCACTCTCCTAATTCCCCGCG
TTTCATCTTACAGCACACAGAAAAATAAAAACCATCAGGACTGAATCCCTTCTCTATACCTACTCATGAGTCTTTACCTCTCATCTCAAAGGA
GGTGTTTTCCAGTAGCACACAAAGTGGGGGAGCATTGCGAGAAGTGCACATAAATAAGAGGTGCAGGTAATAAGTGGGTGCCTCTTCTACAGAG
AATTTTAAACCATCATGAAACCAACTCAGTGTCTACTTTTTATTAATTTCATGTACCAGTGATTATAAACAATGTCAGTGATTAAATATTCCTC
CCTAAAAACTTATTTGTTGGCCTAGGGACTAAATTGTTCCTGGGGTGTCTGGGCACAGTAGCTCACATCTGTAATCCCAGCACTTTGGAAGGCC
AAAGTGGGCAGATCACTTAAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATATGAAAATTAGCCGGG
CATGGTGACATATGCCTGTAATTCCAGCTACTCATGAGGCTGAGGCAGGAGAATCACTTGAACCTGGGAAGTGGAGGTTGCAGTGAGCTGAGAT
CACACCACTGCACTCCAGCCTGGGCAATGAAGTGAGACTCTGTCTCAAAAAAAAAAAAAAGAAAGAAAATTGTACCTCGGGGTTCCTGCCCTTA
GTGCACTACTGGCTGCCTACATATTGGGGCAGACCCCCCCTCCCTTTCCCATGGTCCCTCGTACTTCTCACAGAATCTTACTCCACCAGCTATC
ACCCCTCCTATACTTTTAAACTCTACCTCTTCAATGGCACCTGCCCCTCAGCCTAAAACACATTCAAGTCTCCTCATCTAAAAATCAACTCTTA
ACCCTACCTCCCCTTCATTCCATTGTTAGGGTTAAAAATTTGATGTGAAAGCGTCTTAAAATAGTCTACACTCACTATCTCCAATCTCTTTACT
ACTCCTCACTTCGTAACTGTGTTAAGTTGGCCCCCAGTATTCGAACTTTCCTCTGATGTCACCAGTAACCTCCTGATTGCAAAGCCCAATGGCT
TTTTCTCATCCTTGTTTCCATTGACCCCCAGAAGCATTAGGCATGACTGACAACCCCGTTCTCCTCCCAGCTCTCCCTCCAAGGCTCCCGGAAC
GACACCCTCCTGGCTTTCCTACCTCTTGGGTTGGGCCTTCTCCAGCTTTTCATCTAGAGGCTTCTTCGAGCTCTGCTTACATATGGTGTAATGT
CCTGGTTTTCCTCTTACTCAGCTTCCTTTCTGTGGGTGATTTCTCACCAGAATTCCTACCACTGTTTCCACCATTCTTCTGTGCTGATGGTGAC
TTTCAAGTCTGGATTTCTCTAACTTAAACCTTTCCTTTTTTTTTTGGAAATTGGTGCGGGGAGAGGGGTCTCACTATATTGCCTAGTCTGGTCT
CAAACTCCTGGCATCAAGTCATCCTCCCACCTCAGCCTCCCAAAGTACTGGGATTCCAGGCATGAGCCACGGCACCCAGCCATCTAACCTAAAC

CATTTTTCTTAGGTTTATACCAGTTTGTCCTGCTAACACTTAAGACTTTAATATATGCATTAGCCCACTGTCCCCACCCACAGCCACTACCTCA
TTAATTCTGCTTCGACACCAGTACAGCCTTGTTTTGCCTAAGACACATTCTGAGAAATACATCATTGGGCGACTCTGTCATTGTGTGAACACCA
TAGAGTGTACTTACACAAACCTAGATGGCATAGCCTGCTACACTTCTAGGCTAGACGGTACAGCCTGTTGCTCCTAGGCTACAAACCTGTACAG
CAGGTTACTGTACTGAATACTGTAGGTGGTTGTAGCACATGGTAAGTATTTATATACCTAAACATAGAAAAAGTACAGTAAAAATATGGTATAA
AAGATTAAAAAATGATATGTATAGGGGGGCACTTACCATGAATGGAGCTTGCAGGACTGGAAGTTGCTCTGGGTAGTCAGGGGTGAGTGGTGAG
TGAATGTGAAGGCCTAGGACATTACTGTACATAACTGTAGGTTTTATAAACACTATATACTTAGGCTATACTAAATTGATAAAAAATATTTTTC
TTTCTTCAATAATAATTTAGCTTACTGTGACTTTATGTTATAAACTTAATTTTTAAAACTTTGACTCTACACAGTGTACAGCTGTGTAAAAATA
TTTTCTTTATATTCTTCTGTAAGCTTCTTTCTGTTTTAAAAATGTTTAATGTTTATTAACTTTTTAAACTTTGTTGTCAAAATCTAAGACACAA
GTATACACAGTAGCCTAGGCCTATATTGGGTCAGGATTATGAAGACAGGATGAGGCAATAGGAATTTTTCAACTTCATTGTAATCTCATGGGAC
CACTGTCATATATGTGGTCCGTCATGGACCAAAATGTTATGCAGCACATGACTGTATTTTCATAGTCAATTTCAGTTAATAGTGTTAGTATCTA
TTCTTGCCTAAACCAGTAACATCAGAAGCACTCTTGACTTCTCCCCTGCTTTCACCTCCTACAGTCTGTCACCTGATCCTAGGGTTTCTACTTC
AGAAATGACTCTTATCTGGTCTCTGCTCTCCATTCCCATACCATGCCTTAGTTCATGTCTCCGTGGTCTCTCTCCTGAACCACTGTCCCACTCC
AGTCTTTGTATCTACATGGTCCGCCTACCCCGTCTCATGGTAGCTACCCTTGAAATTCTTTCCTACAAAGCAAATTGGGCAGGCCATTGTTTCT
GAGCCTCTGCAGACTACGGAGTTAATGTCAACTCCTTAGCTTGCCAGCAAAAGGGCCTCCTCAGTCTGTTCCCAGCGAGTTTTTCCTGCTTCAT
TCCGTAGCTCTCTGAGAAACCCTTTCCCTTCCTCACTGAACTTCTCAATATACTGGATGTAATGGGGCCTTTTATCATTCCTGTGCCTTGAAAG
CCTTTCTACCCTCTTTGTTTAGAAGCTCTTTCAAGACCCTTCTGGGAAGCTTTTCTAGACTTTTCCAGCCCTTCTCCCCTTTTAAAAATACTTC
TAATGTTTTAAAATAGTATTATTGATTGACAATCTATTTAATTCCTTTGATTTTAGTTTTGTACTGCTTAAGTCAAAGTGCGTTTCTCATATCT
CTGGCCTGGATGTAATCTGCATTGAAAAACTCACAGAAAGTGTGAAGTGTTTTTATTCTGTTAGCTAAATAAATGTATCTACCTAAACTTCAGT
CCGTTTTGCAATGTAGTGCCTATGTACTCTGGTCTTTATAGATGACCGTTTCAAGTAAAGTACAGAACGTTTGTGTCTAGCTGCTGTGATTTCA
ATTTGGTTAATAATATAAAAGATTGCAAGGGTACTGAAAAATTGATTGAATTACAAATTAAGAAAGATATATTTTTGTATTTTAAAAGTATGTA
CACTGTAACTTACCTATTTGTGTGTCGTCTCCCCCGCTAGACTCTGTCTTTCAAGGGCAGGGAGCAAGGCTTATTTATCTTTGTATCTAGAACT
TAGTTTAGTGGCTGTTTCATGGTAGGACACAATAAATGTTGCATTACTATGGGTGCAAACATTGGGATACTTTTTATATTTACAAGAACTTTTA
CCTGTGATATCTGGGCTTTGCTCAGGTGAAGATGTAACCTGGGGTAGGGAAAGGGATTCTGAGAGTATGAAATAATACTCCTGTAATGAAAGCC
AGGTTAAACATTGAAGGCAAAATTATTTTCTTTCTTTACGCTTAGTTTCCCTGTTCTCTGACCTGGAAGTAATAGAATTTTTAGTTAAATAAGC
TCAGATGGTCTCCTGATTACCATTGTGAAAAGAAGAGAGGGATAAATTTGAAAATGTGCTTTGAATAGTTTAGGTGCCTGAAAAGTACAGTCAG
AACTGTACTGGTACTTTATAGCCACAGTACTAGCTATGAAGAAAAGAAAAAGGTATGGGGTCTGAGGGTTCCAGCAAACACTGAAGTTTACCAA
GATCAGCAGATGCCTGAGCCTCTTACTATTTAGCCTGCATGTGCTGGTGTTTGCTTCAGCTCCTGAATGAAGTGAGAAAGAGGGTGCCCTGCTC
CCTGTGGGGGGCAGCCTTTGCCATGGCATAGGGGCTCTAAGGACCTCTGAATGATGCCCAGGCTCAGCACTCACGTGTAGACTGACTGGATTTA
CAACACTGACGCTGCACCACATGCAGCCAACGTGCACTGTCAGAATATACTTTTGAAGGGAAGGATAAGGAGCCACTGGGAGAAGGTGAATGAC
ACGGTAAAAGTCACCATGTCGATTTAATGTATCTACTTAGCTTTAAAACAGAAGTGTGGTTTTTGTGCCTTCCCCTTTAAAATGGAAGAATAAA
AATTTCAACAAGTAGAACAAATGATAAAAATATAGAATCTGAGAGGTATTTATCTATGTGCCTTTTGCCTGAATCTCTTTGCATTGAAGTGATG
CATTTTCTTAGTGATGTGGCATAAAGAAACATAAAGCCATCTCATTCTCACTTCTACTTTTCCACCCAAAGAAAGGCAGGCATAAAAACTTTCT
ACTTCATGAAGTTTGCCAGTTCCCTGCACTTATTTTTATGTCAATTACCTTTGTTGATGTGTAGGGTTTTTTGGGTTTTTGTTTTGTTTTGGTG
CTCTGATCTAAAGGGCAGATTTTATAGGCAGTATATGTATTAAAATTTAATTTTTAAAACTAGAAGTCATTTTATTAAAATTACAAATTTTATA
ACCATAGTTCTTGTTTAGGGTTTCAAGTTTAGCTTGCAAATCTTACTGTTTCCATAAGTCTAGCATGTTTCAGCAAGCATTTTTAAGGGACTTT
GAAAAATGTTTCGTTAATTTGAATAATGTTAATTAAATATTCCCAATGATTTTAAACTACAGTTCTGCATTTTATATCTTAGATAATTTTTAAG
TGCTTCAGATACCTCCCTGAATTCTAAATAGTTTTTTATAACTCTAATAGATTAAATTTATAAACAGTAAAGCTATCATTATCTTAGATGTTCC
AAAGCTATGCATAAACTTAATAAGGTTTCAATTTAAAACCACAAGTGTAAAGCACTTAATTATATATTGCAAATTGAAGTTTCAAGGCTATCAT
TCTAATATGCTTTTAAACATTACAAGCATATACAATTTCAAAATGCACAGATCTCCTTCCTGACAAAAAAGATCAGTACTATGACTTTGACTCT
CTTTTGCTTTTCTTTATTTAACTCTAAATTTTCCAAAGGTTAAAATATATACACCCACAGAAGGAAGACCAGTCCTGTCCCAGTTAATTAAAAT
GTTTGCTGGGTTGTTCACTGGATTCCTCTCATGGGCCCAGCTGGAATTCACTGAACCCTATATTGTAGTCATTATGCACAGCTTTTAGAAGGAA
AACAAGGCATGGCCTTTACGGGCGGGCACAGAGCCCACATAGCCTGATGCCTCAGTCTGTTGATGGGAAATGGCAGGACCTATTCGGGCTCATC
ACTGCATTGGAGTTCTCATCTCTTTGACTCTTAAAATAGATGAATATTTTTTTCCATTTATCTTTAAAGACATGTGAACTTGATGAGATCTTGC
TATTCTTTCATATTCTTGGAATGCTCAGAATGAAAAGGATCCTTAAGGTGACCTCCAGTTTTGTTTTCGATTATTCACACGGTTTATCTGACTT
GCCGTTACAATCTATGAGGTCAGTCTACTGACATCCTCTAGGTGTATATATTGTAACTTTCATATTATTGTTCTTCATTATCATGACATATCTG
AATATTGAATATGTATTTTTTCCTCTTCGAATTCACTGCATACATGTGTATCAGTTAAAAGAAACATTGTAAAAGATAAATGGGGCTGCTGTTT
TTTCTTTTTTTTTCTGCTTCATTTTTCCTTCATAGGGGCTGCTTTTTGAGCACAGGCAAGGAGTCATTTGCCCCTTCTTCACTTTTTATAAGTTA
CCTGTCTCAGGACCTCTTTACATGATTCATTTCTTAGTTCTGCAGTGCTGCTGCTTCCTTCCGTAAGCCAGGTCGACGTGGGCTGGAGAGAAAA
TTACCATCATCGCCTTTCTAGGCAATAATATGCATACAGCTGTACACATCAAGTTGGTTTTTATCCTTTGGCCAGAAAGATAAAGCATCACATT
TTCATTTTTTAGAAAAAATATTTTGGGAGGTAGTTTCAGCAAATACTTCCAAAGATGAAAAGTCGTTTGGTTTCTGTAACAGAGGTCTCCATTT
CCCTTAACCACAGCCCTACCTATAAGGATGCTTTGGCAAAGAATTCACCAGGACTTTGCCTGAAGATCTGTTATTTTGTAAGGTAATGTTTCTT
TATGTATTTCAAGACTTTGTGGAGCAAGGTGAAATGAAAGGTGAAGCAAGGGACTTTCCCTGCCTTTCCTGACCTCTATAGAACACCTTTGGAC
AGATGGAAAAGGGTAGTCCTTCATAACAGTGAATTTTCTCTGGTGTACTTGAGCTTAATTATTTTATACCAACCTTTTTTCAGTCTTTGGTATC
AAATGACATGAAGGAGGGAATACAGAAATAATTAAAGGTCTGTTATTTTCTTTATTTTTGTTCTTAATTATACAAGTAATATAGCTCATTATAG
AACATTTTTAAAAATGTAGAAAAGAATATAACTATAATAATGATCACTCATATCCAGTTACCTATTTTGGTGTATTTCCTTTGTCTTGTTTTCA
TGTCAATTTTTTTGAGATGAAAATATATATACGGTTTTATATCTTATAGTTTTCACTTAGCTTTATAGCATGAGAATCTTCTCTAGTCATTAAA
GACTTTTTGTAAACATTCTTTTTAATAGCCATGTAATATTCGAATATGATAAAGCATAATCTATGAATAGATTGTCTCATTTTGGACATTTGGT
TTATCTATAGTTCTCTCCCTTATAATTATCTCCAACCCACATGATTGTGCCTGAATCTTTGTCATGGCTCCTTTGATTATGCTATGCCTTATCC
TACCACAGCATTTGTGTGGAGGGACAGAAGATTTTCAGTGGATGGGTTTTCTTCCTTCCCTGCTCCCACCCCAGCTCCTTCAATATACTAATAG
ACGAATCAGACTTTGTCTTTTTCTGAGTTCTCTTTGTGGCAGTAAATTCCTTTTGGAACCCAACAAATTGTGAGTCCTTGGTATCAGTTTTGGA
TTGTGTTTTTTAACCCCCTCCTTGTAGGTATTGGATAACAGAATTCTGGGTCATGTTTAAAATGGACGCCAGCTTGACAGACACTATGGAGGAG
TTTCAGGAACTGGTGAAAGCTAAGGGTGAGGAGTTACATTGCCGCCTGATTGACACAACTCAAATGTGAGTGTCAAGGTCTTGACTCATCTTTC
GAAACCACCTCCCTCCTGTAATATAATCCCAGTTGCTTGTTGGGCTTCTGACCCCCAGCGGTGACTGCTGCTCTCTTTCTCCACTCTGAGAAGC
CCCTCAAATACACAGGTTCAAACTGCCTCACCAAAGTGAAGGCTTGGCATTTAACAGAAAAGCAGAGAGGCCTCATGGTGATAAAGCAGTAGGT
GACATATCCAGGAGCAGAAAAAGTAAGTCCCAGTCAAAAAGAAATCAGGTAGCAAGATATTGACTAAAATTAATCCAGATAATGAAAAACTGAA
AGTGCAAATGACTGAACCCACGCTTAATGCCAGGAGGCACACCTGAACTTGTAAATGGGACAGGACTAAAAAATGTATTCAGGAGAAGGCTTAT
AACATATATGGATGTCTATGAAAGACACTTAGACTTCCAGAGCTGGATGGGATTCCAGGAATGTTTTAAATTATTCCTTGGAATTCTTATTTAT
AAGACTGACCCATTCTGGGAAAATGAGTGCCTTTCCTAATTAGGGGGAGGGGAATGTATGCTTTGTATGCCAGGGTTTTCACAGTGTGGCTGCT
TTATTTTGAAATAGTACAAATCCCTAAGAAATAGAATTCTAGAACTGATATATATTCTAGAGATCATTTCATCCAACATCCTGATTTTTCTGAC
TGGGAAATTGAGGCTCAGCAAGAATGTGACTCATCTAGGGTCCAGCTAGTTAAGCTAGTGACAGAGCAGCAGCTAGCCTCTGAGGTCCTGTCCA
TGATGCACTGTAGCCACGTAGAAATGATTTCAAGATTACATTCCAGAGCCCCAAATAAGTCTGTTTATCAGTTTGGATTCTCTGTACTTCTCTG
CTTAAAATTACACAACTTGAAAGATAAGAGATTATTCAAAGTAATAGTTTCTTCATTTTAAAGATGAAATTAGAGCCCAGGGCAATTCTCAACC
CCAGCTCTCCTTGTCCCAGTATTTCCTAGCTGACTTTTCTTGACCAAAATTTTCCACATTATATTCTGTAGGAATTATTAGTCTGTGGGGATAT

TACTTGGCCAGATATAACTGAGGAATAATGAGTTAAACTTTCCTTTTGCAGTGCTTTTCAGAGTGTGTAATATGCTCACTGGCCAAAGAGGCTA
CAGAATTTATAGCACTTCCCAAGCTCATTGACCACAGAACCCTTTTATCAAGAGACAAGGTTCCCAGGAATACCAGTTTGGAAGACAGGCAACC
TGCTGTCTTTCAAAATGGGGCCGCTTCCCTTTGCTTGTTTAGTGAAGGAAACTGAATAAGAAATGCATGGGTTGATTACAAGAAAATAATGGGG
GCAGGGCGCACTCTAGGGTCAGCTAGGCTTCCTTGGTCATTTCAGTAGCTGAGGACATTTGAGGAAAATGACACAACTCTGCCAAGAGTGACCA
TATGTTTCTACGCGTGATTCCCTCCCTTTATGACATCTTGCTGTGGTTCTTTGAGCTCTCTTTCTGGCATGAAAACTGTTTCACTGCCTTGGGA
TTTCCAACCAGATAGAGAGTCCCTATCATTCACACAAGAATGAAGGAACACACAAGCAGAATGGAGGGAGCAGACATACCAGATGATACACAAA
GGAGCCAGGACCAAAGGCAAGGAAACTGACCGATACCTGAGACTCCTTCCTTCCCACTGCCTTAAAGTAAACTCATTTATCCTGTACCCAACTG
CACACTTAAAAGGCTCACTGAAAACCAGCAAGACCTCCTGGAGGCTGCCATGGAAAAAAACTGATTTGGAGAAACTCTGTGAATGCACTGTTTT
GGCATTCACAAGGAAAGTTAGCTAATGGTGTTTTGTATATTCTTGTGAGAAATGTTAATGGATTTACTTGCAAAAAGCGATTTATTCCTTTTCC
CTGTCTTCTCCCTTTCACATTTACCCACAAAAGCAATGCCCGTGACTGGTCCAGGAAACTTACTCAAAGGATAAAATCAAATACCAGCAAGAAA
CGGAAAGTCTCCCTGCTCTTTGACCATCTGGAACCAGAAGAGCTATCCGAGCACCTCACCTACCTTGAGTTCAAGTCTTTCCGGAGGATATCGG
TATGTATGCAAGGGGCAGGAGAAAAATCTTCCCTGGGATATTTCTGAAAATAAGATGATAATTCAACAGCCCATCCGCTTCATAACCTTAGAGG
CCCCCTCAAGTCGTGGCAGGCTTTCCTGCCAGACATCATAGAGTCTGAAAAAATCAGTACCATCTGAATTCCTTTGATTGTGACTCCTGTGCTT
CTCCCATCTCTCTTCTTCCATGCCCCCGCCCCATACCATCCCACCACTCACTCAAGTTACCATACTGTGGGCACACATCACACACACACACACA
CACACACTCTCTCTCTCTCTCTCTCTCTCTCTCTGTCTCTCTCATTCTACCCTCATACCCCTGATAATCCTCATACCCCTGATAATCATTAGGC
TTCAACAACTCTTTTTAAAATCTTCCTCAAAAAAAAAAAGGGGGGGGGGTGCGGGGGCGGGGAGAGGATATGTCCTCTCAGAGTTTGAATTCAT
TCTGGGGTAAGCTTTGAATGGCTCTGGGAAATCCCAAAATAGATTCTACTGCCCTAGCCCAGAACATACCTAAATCCTTGAAGTGGTCCTGGCC
CAGAAGTCACTGTGATTCTAGAGATAAGCTGTGCTGACCCAAAACCTTTCAACTGGGGCAACTAAGCAGAGTCAAAGGGAGAGAGATTTCAGTT
GATCATCAGGTACAGAAAGAGTACAGGTTCATCCTTTCCTCACTGCAATCCATATGTGATCCCAAAGAATATTAGTTCTATGCAAGAGAACTTG
TCAACATGTCAGATGCCAACAGACCCTCACTGGCTAATGTGCTTTCCTGAGAAATGAAACCCTTATTCCACTTAGCCCCTACCCCTACCAACAG
ATACAGTCTTCACCTCCGTGCTAAAAATAGTGACCACCTAGTTGCTGGGTCCATTTATTAAAATGACCAGTATTCTCCTGGTGAGGGGATGGAG
GCCCAGAGGGCTGACTTGAACAAGGTCGACACAGCTGATTACAGTCAAAGCTGGGGCTAGGACTACATGCCTCTCTCAGTCACTCAGCACCAAT
TTGTTGAGCTCAGTTGTGTCTGGAAGGAGACCTGCAAATCAGGTTACAAAGGTTATTTTACATTTTCATTCATAATATTGACAGCCCTTCTGTT
TTCACGCAGCTGTTTGGTCACTCAGCCAGGAAGCTCCCAGCTTCCATTTGGAAATAACTTCTCCAAGCATTAACTCTCCATTTCCTGCACCCCT
CAGTACCCCAGACCCAAATTGAAAAGCTCTGCCTCAGGAGTTCCCATTTGGCAGTGCCTCCCCGTCACAGGGAAGGACAGCAGTCAGAGCTGAG
CCACTGAAAAAAGCCATTTATCACACAGGAAATCTGAGCTCTGCAGGGGTCAAACTGGCAGGCTGCTTGGTCAGGCCTGCAGGATGTCTGCTTG
ATGCCAATGCTCACATCAGTGGAGGCAGAAGTGAAAAATCAGTGCAGAACGAGGAATCCCAGCCAGTGTCCCCAGGGGTTGAACAGTGTTCTAT
TTGCAAGTGAAAACATCAGTTTCAACCTTCATTTCTTTTGAGTGGCTTGGTCCCTTCATAGAAGACTATCTCAGGGTTTTTTTGTTTTTCCTGT
ACAGTGCTAAACAGTTTTACCAAACACAAGTTTTCTCTCCAACATGAGGTTGGAGGGAAATTTATCTGTGCTGTGAATTGAAAGGCATTTGATA
TCTTCTGTTTATTACAAAACTTTAGGGGTAGTGAGGATGTTACTGGGATAATTGTTTTAAAAAAACAAGTGGATTTAAAGTTATATTTATAGTG
GGAGGGGGGTATTAAATGTATTCACTGGAATATATTAATTGAATGAATATATTCAAAATATATGCAATGAGTTGTGGCTACTTTCTTTTAGAAC
CAGTAAGATGTTTGCTTTATATATCTCTCTTAAGGAGCGATTTTGGTCCTACTCATAGGTTTTCCACCCATCAGCAGCCATATAGCACAGTAAA
ATGGGGCTCAGTTAATTTGCAGCTATTTTATTTGGGTTGTGACTTCTCATCTATATATTTACTACTTAGGCAGAACTAAGGTGTACTGTAGTAA
TAACCCCCCACCCACCCACCTCCTGTACAATCTCAGTGGCTTAATTAAGCAAAAGTTTATTTTTCACTCACACTGCATGTCTAACATGGGTCAG
CAGAGGCTGATCAGAGTTCCCCAGGAACCCAGATGATGGAGGCTTCATCTTGCCAGGAATTTCCAAGATCTCTGCAGCAGTAGGAAGGCAACAT
GGCAGACCACTCACTGGCTCTTACATCTTTGCCTCCAAAGTTACATCGCTTCCACTCAACATTCTGCTGGCTGAACCATGTCATATGGTCACAC
CTTCTTTCAAAGGGAAGAGTTGAGAAGGGAAGAGTTGGAAATAATTGGGGAAAAGCACCAAAGACTTCCATAGGAAAGTTGAAGAGAAACAGAC
TGTGATTTGAGCAGAGGGATTCTTTGTGACAGGGACACAATAGCTACAAACATCACTTAGACTAGATCTTCAGGGGACATTTCCAGTTTACAC
ATGTTGTTTCATTGCCAACTGTAGTCAATGCTATTGTCAACTTGGGAAACCATGATCAGCAAACATATAGCTAACCAAATTTTTAAGTACTCCA
TTTGCCTCTGCTCCAGTTGGTGAGTAGAAGGAAATACAAACAGGCTTGTATTAGCATAAGGTTCATAACTACTCCATTAGCGCAACCTTACATA
TATGTAACACTTTAAAAAGTTAAAGCTTTCACACATTATCTTCTTTGATCTTCATAACAATTCTATGTCCTAGATAGGGCAGATTTTATGATCA
CATTTTTAAGGTAAGAAAACAGCTGGGGAGAGAGAGATTTGTTTTTGTCAGGGGAATTACCTTTTATTCCCTTAACCTTAGCAGCAATACTGAT
CTTTATTCTGTACTGTATTCTTTAGAATTTAGAATAGTCAGTAACAATATCTACTGAAATACAGCATTTGGATTAACTAATGTGTCTACACATC
CACTTATTCCTAATAACTTTCGATGTAGAGAAATCATGCTGTGGGTAGAATAAGGAAGATTTCCCTCCCATCATGCTTGTTGGCAAGTGGCCAA
GATGCAGAAGAGCACCAGGAGCTCCTCTGTTCCATGGCAGTTCCCAGCCATCAACTGAGCAGACTGGACTTGTCCCTTAAATCTTCTGGAATAC
CAGAGTACAGTACTGATAGGTTTTTTTTTGTTGTTGTTGTTTCTTTTCCTGCAGTTCTCTGATTATCAGAATTACCTTGTAAATAGCTGTGTGAA
GGAAAACCCCACCATGGAGCGATCTATTGCTCTGTGCAACGGCATCTCCCAGTGGGTACAACTGATGGTTCTCAGCCGCCCCACGCCGCAGCTC
CGAGCAGAAGTCTTCATCAAGTTCATCCAGGTGGCTCAGGTGAATAACTGGTTTAAGACATTTGGCTTGGGCTATAAGGTAAACTTTCTATCCC
CTTTTCCTCCAGCTTAGTCTATTAATTAGAGCTGTTTTTTCCCTCCTGAACCATGGCGAGGGGGTGGAGAGGTTTGTGTGCCTTCAACCAGATC
TAGATATGGTGACTTGTCTCTTCTTCCATACAAGGACAGTGTGGAGGGGAGGGGGCCATACAGGCCATATCAGGGGTCAGGATCCAGTTTTAGA
TCTGTTTAGACCTTTAACATTTTTCAAAAGATGCTTACCAGCCTACATTATTTTCCCGAGTCTGGCCCACATGGCAAAGGAAAGGGCAATTCTA
AGATTTACTGGAGCTGGACCATCCTGGATTGTCTTAGGTCTTTAAGCCCATGCAGTGCTGAATGGCTGCATTTAATGTTTGAGGGGCATTTTAT
AAGAGGAAAACAAGTACTATGAACCCATATTTGAAGTTCCCCAGAGATTCTAGCTTCTCTGTCCCAGTTACTGTCCTATATAGGCACTGGCATT
GCATGGGAAAATAAGACAAAGTCCTTACCCTCAAAAATAAAAGTCTGGTAAATTTGGAATAAATAAAAGATTACACTTAATAATATCTTTCTCC
AACTCTGGATGGTCTAGACCAGTGTTTCTCAAAGTCAACAGCTCTGACTTTGGATCACCTGCTCTGATATTAACTAAAGGTATATTAAAAGTAC
AGATCTCCAAGCCTAACCCCAGATCCAGGCAATCAGAATGTCTGGGTTAGGTCCAGAAACCATTGTGTTAAACAAATACTTGAGGTGATTCTAA
GAAAGCACTGATCTAGAAGGTGGTCCACAGATCAGCAACAACAAAAGGAGAGAGATGTAATGCCTCCCAGATGTGGAATCCACCAGTCTGAATA
AAGCAGAAGGGGAGACATGGACAGGAAATTGCAATGCCTCGTAACTAGTCTTTAACCAGCGTTAAGGGAGACTCACGGCACAGAGACAAGAGGC
AGCCTCTAAGCTCCCCATATAACTGACATGTACAGTGACTCTGCTGTCATCTGTCTTCTGTGTCACAGAAGCTCCACCAACTACAGAACTTCAA
TACACTGATGGCTGTGATAGGTGGGCTGTGTCACAGCTCAATCTCGAGGCTCAAGGAGACAAGTTCGCATGTCCCACATGAAATCAATAAGGTC
AGTGCTACTGTCTTCTCTGGGGCCCTTAGCAGCATTCTCAAGATGTGTGCCAACATTTTCTCCTTGGTGGGCAGCCCAGAGAGCATTTCCAACC
ACACCATCCCTTGTCAACCAGGCTAAGTGGCAGGGAGGCAAACCTTAAGGAAATCCATAGGATGGAGAAGTCACATTTTTTAGAGTAACTGTGA
TTTTGTCTGGCCTCAGACAGTGTCACTGCAAACATTCCTGCTGGACCAGTTGAAACAATGTGTGCCTCTTCCCATGTTCATAGGCCATGGAATA
TTCAGTTACCATCTTTGACACTGATTCCCTCGCTCCAGCTCCTTGCTCTAAAATGTGTTCTCAAAAGGAATTGTGGTTCGGTTGACCATAGGTC
AGTTTGCACATTGAGTGTAGTTATATAGTGATATATTAAAAACTTAGCTATCCAGAACCCTTGAAGAATGACATTCCGGATAGTTGAATTTTAC
CAGATAATTGGATATGAGTTCTTCAGATACCATTTTGTAATACATAATGTTTTATTAATGAATATTTTTCTTAAATGTCCTGTACATTTTCCTA
CATTATTAGATTTTACAGAATATACTTTTATCTTTTATGACATAGGGCTGTTTTGCTTGTTTCTCTTTTTTATAGAAACAGGGTCTTCCTCTGT
CATCAAGGCTGGAGCACAGGCTGGCACGATCATAGCTCACTGCAGTCTCAAACTCCTGGGCTCAAGCAATCCTCCCACCTCAGCCTACCAAGTA
GCTAGGACCATGGGTGCACACCATTATGCCCAGCTATTTTTTAAAATTTTTGTAGAGATAAGGGTCTCCCTATGTTGTCCAGACTGGTCTCCAA
CTCTTGGCCTCAAGCGATCCTCCCATCTCGGCCTCCTAAAGTATTGGAATTACAGGCATGAGCCACTGAGTCCAGCTGGAGCTGTTGTTATAAA
TATAAACCACTGTAATATACCGAGGATATAAATGTATGGCATGGGTTAGATAATGACTGCTCTTTGAGCACTTTCATGTAAGAGGACCTTACTA
TACTCAAGCCCCGATCCTTCCAAACTAGCATGGAGAGGAACTCTCTTTTTAGGGAGAGATACCTAAGCTCATTACCCCATCTGTTTTTCCCAGG
TGTTCAGCTCCCTTTTGGGGAGTCTTTTATTATCTCTGTTATCACAATGCTGGGCCTCTGGGGAGGCCCCCCACTTCCCAGTGGTCTGATCAAA

AGGGCATCATCTTTAGTCACCTCTTCATTCCTTAACGGTTCTGCTGAAACCAGGTGGAACAGTTGAAAAGATTGCCCACATCTCAGAGGTGACA
GAGAGAAATAGTCACAGAGATTAAGAAGCCTTCATGTCATTTAGCTTATAAGAGAGAGCTTGCTCCTCTTCAGCTTGGGGTCCCCCCACAGCAG
TGCTTCCTGTCGGTAGCTACTTGACCCTCAGGGTGGTCTGCATAGTGAATTAGTAAGTCCAGGGTTGAAGCAAAAGTCCCCAAGTTGTTGATTT
CACCTTCGGAGGGGAATAAAAATATCTTTATCATTTTTGCTGTTACACTCTTGTCTTGTGAGCCCCTTCCATGCCTAGGGCTCACCTGCACCAT
TGGTAGAGGTTTATGAAGAAGAAGCTCTCTTGCCATCTCCCAGTGATTTGAAGGGGTCTGACTCCAAGAACTCCAAGTTCTTCATTGTGGAGAA
ATGGTACTTCGTAGGCCACAATTTTATTAAGTTTGGGCACAGTGTCTAAAAGGGTTACAGTAGTCCCCCTTATCTGAGGTTTTGTCTCCTGTAG
TTTCAGTTATCTGAGGTCAACTGCAGTCCAAAAAAAATTTAATGGAAAATCCCAGAAATAATTCATAAATTTTATTATTTATTTATTGATTGAG
ACAGTCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGCTCAGTCTCAGCTCACTGGAATCTCCGCCTCCCAGGTTCAAGTAATCCTCCTGCCTC
AGGCTCCCAAGTAGCTGGGACTACAGGCGTGTGCCACCACGCCGGGTTAATTTTGTATTTTTAGTAGAGACGGGGTTTCACCATGTTAGCCAGG
CTGGTCTTGAACTTTGGACCTCAGGTGATCCGTCCACCTCGGTCTCCCAAAGTGCTGGGATTACAGGCATGAACCACCACGCCTGGCCAATTCA
TAAGTTTTAAAATGCATGCTGTGCTGAGTAGCATGATGAAATCTTAAGCCATCCCATTCCATTCTTTCTGGGACTCCTTCATATCAGTCACTAA
GTAGCCGTCTTGGTCATCAGATTGACTGTCATGGTATTGCAGTGCTTGTGTTCAAGTAACTCTCACTTTGTTTAATAATGGCCTCACAGTGCAA
GAGTAATGATGTTGGCAATTTGGATATGCCAAAGAGCAGCCCTAAAGTGTTTCCTCTAAGTTCTTTACTTAATAAGGAAGGAAAAAAATCATAT
GCTGAGGTTGCTAAGATCTAAGTAAGAAGGAATTTCATCTATGAAATTGTGAAAAAGAAAAGAAGTTCATTCTAGTTTCTCTTTTGTACTTCAT
ACTGCAAAAAGTTATGGCCACAGTGCATGATGGGAATGGCATTACATTTGTGGGTGGGAAACATGAACAGAAATGTGTTCCACTTGACAGCAAT
CGGGTTTGTTACTATGCACAGTTTCAGGCATCAATTAGGCATCTTGGACTGTATCCCCCTAAGGATAAGAGAGGACTCCTTATGTTGTATGATA
ACATGATTGGCAGACAGTCACTTCATGTCTTTGCTTCTGAGAAAGCTGGTTATCACTCATGGGGAATGGATTCTGTGAACTGCTTGCTGACTTG
AATGACAAGTGATTGAAAAGAAAACTAGATCTGGCTGCTCCCTTTCTGTGCTGGTGAGCAGCCGTTCCCACTTCCAGGTTTGAAGCAGGGTGTA
ACCTCTAATGTCCTCTCTCCTGTCCTTTGCTCAGAATTGATCTAGTCTATTCAGTCTTTTTAGTTCAAGGTTTTAGTCTGTGAATGGAATGTCA
CTTGCTTTCTAGTCATAGGCCCATTCTGAGAATCTTGAAAGGCCCATCAAGCACCTCATAGAGAATAACACACAATAGACTACTGAAGCTCCAC
TCTTAAAATACATGCTCTTCCCCATGCCAGCAACATAGTCAGCATTTCCTGACATCACATTTCAACTGTTAATCAATGCAGTGTCTCTGGAAGC
ATTCAGAAGACACCAAGGAAGGGAATCACATGGCTTGGGGACAGGAGTTAGAGGGATAGTGTTCACTATATATTCTTGTACCTTTTTAATTTTT
GTATCAGGTCCTTGTTTTTGAAAAGAAGGAAATTTTAACATAAAAATGATAAAACCCCGATTTATAATGTTTAAGTTATATAACAGATTCAAGC
ATATCTTGTGTTTATAAATATATTCTGTGATATTTGACATAGCTGAGGTTTTAACTGGGGAGTCATAATCTGTACCTTTTACATGAATTACCCC
CTGCTCAACAAATTCTGGATGGGGTGAGATCATGGCACAGGATGCAAACATGCAAGGTCCTCATTACAGACAATGCACACTGCCTAGCGGGTAC
CTGTGATTGGTCTGTTCTGCTTTGTAGGTTCTCGGTGAGATGACTGAGCTGCTGTCCTCCTCCAGAAACTACGACAATTACCGGCGAGCCTATG
GAGAGTGCACCGACTTCAAGATCCCCATTCTGGGTGTGCATCTCAAGGACCTCATCTCCCTGTATGAAGCCATGCCTGACTATCTGGAGGACGG
GAAAGTGAACGTCCATAAGCTACTGGCCCTATACAATCATATCAGTGAATTGGTCCAGCTGCAAGAGGTGGCCCCACCCTTGGAGGCTAACAAG
GACTTGGTACACTTGCTGACGGTGAGGCTCACACTGGAGGACAATTACTAAGCACTTTCTGTGTGCCAGGTGCCATTCTATACCCCTTACCAAA
TATTAGCTGTTAGTCCTCATAAAGGCTCTATGAAGCAGATCCTATTACTATCTCCAACATATAGCTAGGGATACTAAAGCACAAAGATATACCT
TGCCAGGAGACCACACATTATTAAGTAGCAGAGCCTTGATTCAGACCCAGGTGGTGGGACTCTAGAGACTGTGCCCTTCAGACTTCTAGGACTG
TTTCACTACCTCTACAAAAGCAGTCCTAAGCTCTCTGGGAGGAGCTGATGGCAAATCAGGATACAAGTCTTGGTAACAGATGGAGAGAATGAAT
GTGCTCTCATAAAAAGGGCAGGCAGTAATTTAAAAAACAAACAAAAAACACCCAGGGTTATTATTTGGTTCCTGGCTTAGATCTTTGCTCTTGG
AGATATTCAAGTGAAGATGAACACTTGTCAATGGTGTGGGAGACCAGGATTTGCATTTTGCATATGGGGTGAGATCAGATGATGAACTCCCTTC
CAGACCTGCAATTCCGTAGTTTACCAGCTGTGTGACTATGGACATATAACCGTCCAAGATTCCTCTCCTCAAACGAATTAGNNNNNNNNNNNNNN
NNNNNNNCCAGTTCTAAAGTTACACAGTTTTTAACCTGCTGTTTTTGGAGAGTAGAATAATGATCATAACCTCTTTCTGCCTCACAGCAGCATT
TTGATAGAACCCTGGGCTTCACATCAGCTGGTGTGTGATCCTAGCCCTTTCACTTATTAGCCAGGTGACCTTGGCAGGTCTGTGTCTCAGACAT
CATTTGTAAAAACATGGAGTGAATCTTAACATTCTTTGGATTATAAATCTTGTGATGAAAGCTGTGAACCTTCTTCCCAGAAAAATGTACATAA
GCCATTTATTTTTAAATATGCATGTAATTTCAAGTTCTGAAATCCTTGAAGCCTATCCATAGACTCAAGGTTAAGAATAAGATTATTCCTAAGG
ACTTCTCTCCTAAAATTTTATAGTTCTAAGATACATGAAACTCACTATTTTTTTTTTTTTTTTTTTTTTTGGAGACAAGGTCTGGCTCTATGAC
CTAGACTGGAGTGCAGTAGTGCAATCTCAGCTCACTGCAACCTCTATCTTCCAGGTCCAAGCCATCCTCCCACCTCAGCCTCCTGAGTAGCTGG
GACCACGGGCACACGCCACCACGCCCGGTTAACTTTTGTATTTTTTGTAGAGACAGGGTTTTGCTATGTTGCCCAGGCTGGTCTCAAACTCCTG
AGCTCAAGCAATCAACCTGCCCTGGCCTCCCAAAATGCTGGGAATACAGGCATGAGCCACCATGCACCCAGACTCATTAACTCTTAATAGCAAT
TAATATGTCTTACCATTTAAACTGGATTTTATTGCTGGACTCAAATTTAATAGTCTCAGACTATACACACCATCCTTTCAGATCATCTGTCTGC
TTTGAGAGAGAACAAGTGATGTATTAGTCATCTGTCCAGACAAGGCCTTTGGCCTAAGCTCTATATAGAGGCTTAGATTTAAATCATAGTTAAA
AAGAGGGCATCCTGAGATATGTCCAAAATTAAAAACATTTCAATGAGAATTAATGCTTGCCCTATTGCAATAGTAGGTGTTATACCTGTTTTGT
GACTTTTGAAAACAAACTGTTTAGAACCTAAAAGAGTAAACTACTGGCAAGGAAAATCCAAGAAAGAACCATCAGCTGTGGGAGAGGCAAACAG
CATCTTAGCAATGAACCCTGTTCTGCTTTGATCTGCAGTTATCCCTGGATCTTTACTACACTGAGGATGAAATCTATGAGCTTTCCTATGCCCG
GGAACCAAGGAACCACAGAGCTCCAGTGAGTTTTTCATATTAAGACTCCACATGTAACAGGTGCTTTACAAGCTTCTCCTCGAGTTCATTCATC
CTCAGGAACAGACTTTCAGTTCAGTTTAATACATGTACTGTTTTTCTTAGTGCTCAACCTTATGCTAGGAACAGAGAAAGCTTTTCAACATATG
TCTGAGGAATAGTTCCTGTCCATTAAAAAGCTGTGATATAGTTGAAGGGATAAGCCTAATGTGTGACCAGTGAATAACTAGTGAACAGTAAATA
ACTATATCATCAGAATGCCAGGTGTGGTGGAATCAGTCAGTGGTTTACAAAGTAGAGAAGGAAGATACTATTGTGCACCAGAGTGACATCCCCC
CCGCATTAAGAAGAGTCCCCACATAAATTTCTTTTCTATGATTCATTGATGATAATGAGAGTAATATGCGTACTAATCAGAAGCTAAATTTCTG
AAGATTTCCAGGTTGGTAGATAGAAAAGCCCCATTTTCCTGTAATGTTCTGGGTGAAAAGAACAGTCTGCTGAGTCTTTTGACCTCCTATGCTG
AGAAGTCCTCAAAATAGTACACAGTCCTGGCACTGCCTGCAGTAGGAACTTCACAGGTTATCTGCCCTACCCTCCCACAGGCAAGTAAAATCAC
TTCAGTCTCCTGGGACGTTTCCAAACCCCAAAACAAGTGATACTCAAGGGAAGAGAGTTGCCCACACTTAAGAAATCCAGCTCATCTATTGGGG
TGGCTAAATTGCACTCCTCCACACAGAAAGATCAAGTTCTAGCTTTCTATTGTAATGAAAGATTCCACTGAAAATATTTGGTAGATTCCATTTT
CAGGTTAGAGGCATTTCAATGGAAAGGGTACATTCTGTTTTTTCAGAGAGATTTTAATTTGGGCTGAGTTTCAAATACAGTCATGCACCACATA
ATGACATTTTGGTCAGTGATAGACCTCATATACCACAGTGGTCCCTTAAGATTATAATGGAGCAGAAAAATTACTACTGCCTAGTGACAGAACA
ATTGTAACATTGTAGCACAACACATTACTCACTATGTCTGTGATTATACTGGTGTAAACAAACCTACTGAGCTGTAAAAAGTCTAGGTTATACA
CTTACGTACAGTACATAATACTTGATAGTAAGTATTACCGGTTTATGCACTTACTATACAATACTTTTTATCATTATTTTAGAGTGCATTCCTT
CTACTTAGAAAAATTAACTGTAAAACAGCCTCAGGCAAGTCCTCCAGAAGGTGACAGCTCCATGCATGTTATTGCCCCTAAAGACCTTCCAATA
GGACAAGATGTGGAGTGGAAGACAGTGATATTGATGATCTTGACTCTATATAGACATAGGCCAATGAGTGTAATTGTACCTTAGTTTATAACAA
AGATTTAAAAAATTAAACATTTTTAAAATAGAAAAAAGTTTATAGAATATGGCTATAAAGGAAATAACTGGTACAGCTATAAGCTATACAATGT
GTGCTTTAAGCTAAGTGTCATAACAAAAGAGTAAAAGTTAAAAAAATTAAAAGCTTTTACAGTAAAATAAGGTAATTTATCATTGAAGAAAAAA
TTTAAGAAACTTAGTGTAGTCTAAGTGTACAGTATTTATAAAGTATATAGGAGTATACAGTAATGTTAGGCCTCCACATTCACTCACCACTCAC
GACTTGCCACAGTAATTTCTAATCTTGAAAGCTCTATTCATGGTTAAGTGCCCTATACAGGTGTAACATTAAAAAAAAATTTCTATACCATATT
TTTACCTTTTCTATGTTTAGATATGTTAAGATACACAAATACCATCATTACAATTGCCTACAGTACTGAGTATAATAACCTGCTGTTATAGGTA
TGTAGCCTAGGAGCAGTAGGCTATACCAAATAGCCTAGGTGTGTAGCAGGCTATACCATCTAGGTTTGTGTAAGTACACACTGTGGTGCTCATA
CAATGACAAAATCACCTCATGACACATTTCTCAGAACATATGCCCAGTCATTAAGTGATGCATGACTGTATTTAGAAAAGAGCTTGTCCAGGCT
TCCGATGATTTTTCTTGTGCCTTCCTGCCTTTTAGCTAAGCTTTTCCTTATTCACATTTCTACTGCAAAATGTGACTGGAGAATAGAGAGGAAA
CATAAATGATCCACTTTACTCTTTGTTGATAGCTCTGACAAAGGGTTTAATGGAGAGGGAATTGCAACTCAGGCAGATTGAGAATTTCAAATTA
TCTGTAGCTGCAGATAATGTATGTGAAGAGCACTCTGGAAACCGTAAGCACAATGCCTTGTTAGCCAAAATTATTAGTAGAGATTTCAATTGCC

TGTGGGTTCTCTGCTCCTTGCCACTGAACATAATTGAAGATTGTCCATAAATGTAACCGTCAGGTAGTGGGAAAAGAAAGAGCTATAGGTTATA
ATATTGCATTGTAGTCATGAGGATTTCTCTAAATATTTCATTTTAGCCACTAACACCTTCAAAGCCACCAGTAGTAGTGGACTGGGCTTCTGGA
GTGTCTCCCAAACCTGATCCAAAAACCATTAGCAAACACGTCCAGAGGATGGTGGATGTAAGTACAGCTGTGTTCAGCACACAAAAACTAGGCA
TTGCCTGGCTCAGTTTTGTATGTGGGGTAAAGGGAGAGGAAAGCACAATGGTGGAAATGTAAAGGCACGAAACTTGAACCACTTACTTCTCTTA
CTGTGGCTTTAGAACAATTCAAAAGTTACATTTTGACAACACACACTGGACTCATATGAAGGCAGTTGTGCCTCCTCTTCAAGACCTAGCAAAA
GAGCATATGCTTAAAGGTTGTCAGTTGATTTAGGAGTACAGAAGTATTGGGATGCATTTGAGTATAGTAAGGGGTAATCAGGTAAACCTAAAAC
TGAAAACCTTTGTACTGCTTAATTCAATTCTCTGTGCTAATTGCTGAGGAAGGGGTATATATTCTCATACTTATGCATGTATCCTCGTGGACAA
CTCACATGTAACAATGGAAAACTAAGAGCGTAACGGTGAGAAACAAGAGGATTAACAGTGGGGACAGAGCACTTCCAACTGGGCTGTTTGTAGA
AGCTTCTCAAAGAAGGTACAACTGGAGCTGAGTGATGAAAAAAAGGGTAGAGTGAAAGGAGAACATCCCTCTGCGCAGTGAACTAGGAGTAGCC
AGCGTGATAGTATAATTGACGTGCTAATGATTCAAAGTACATGGCCACCCCCCACATGCTGCTACCAGCAAAGGCCTGAGATGTGACCTGCCAC
ATCTTTGCCACAGCTAAAGGAGCAGGTTTCCCTGTTCCTCTCGTTCAGGTTGTTAAAAGGCTTTTATCCAACTGCCCCAGCTCTTTGTCATTTG
ACTAAAGGGAGAGAAGACCGGTTTCTCTTTAGTAATCACCAAAAAAACTCCTTTTTCACAGTCTGTCTTCAAGAACTATGATCACGACCAGGAT
GGATACATTTCTCAGGAAGAATTTGAAAAGATTGCTGCGAGTTTTCCATTTTCCTTCTGTGTGATGGACAAAGACAGGTGAGGGTTTGTACTTA
GGAATATGTGGTTATGAGCCCATTGGTGAGAATAGGTTTATAGGTATGTCACTAGAAGAATTTGAAAACTCAGATATGTTGCTGCTGTGATCAC
TTAAAGAACAGACCATGAAATATGCATTCTTTTAAAAATATTCTGGGCCTGGGCACAGTGGCTCACGCCTGTAATCCCAACACTTTGGGAGGCC
GAGGTGGGCAGATCACCTGAGCTCAGGAGTTCGAGACCAACCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAGCCAGG
TGTGGTGGTGGGCACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAGTTGTTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCCGAGAT
CATGCCACTGCACTCCAGCCTGGGCCACAAGAGCAAAAACCTGTCTCAAAAAAAAAAAAAACAAAAACTGAATTGAACATTCCATAAATCTGCC
ACTTTATAAATAGTCAACTATAAATAAGAAAAAGTTTAGTCTTCCTTCTTGCTTTGTCATTACAGATTTTGGGAAACAACTAATACTTATTCAT
ACTTTGCATTTTTACTTTTCTCAAGGTTAAATAAATTCTATCTTGGTTCTCTATAGGAAACTAATCATATGGTTAGTGGGTTCCAGTTAGGTAC
TGTCTAAAGTCAGAAACTGTAGCATAAGACATTTCCCTCCCTATACACATGTACATGTTACATTGTTTCTTTTTCAAGTCTTATAGATAGTGGT
CAAGTTAGTTAGGGAAACCTAGTTTGGCCAAAGAACACCTCTGTGGAAATGAGTAATGCTGCCTTACCTACTTACCACATGTCATCTTGTATCC
TTGTTAAGAGTAGGGCCCATGGAAGTAATCATGAGGTAGCACATACCATATTACCACTGAGGATAAAAAGAAAGGTGAGTTTCTAAGGCTAGAA
GCCCCCCCTTGCTACCTGCCTCCATGCCCCTTATACTCACATCCTTGCCTTGGTCATCTGCCGGCAGGGAAGGCCTCATCAGCAGGGATGAGAT
CACAGCCTACTTCATGAGAGCCAGCTCAATCTATTCCAAGCTGGGCCTGGGCTTTCCTCACAACTTCCAAGAGACCACCTACCTGAAGCCCACT
TTTTGTGACAACTGTGCTGGATTTGTAAGTTGTTCTTAGGGTGCTCCAGGGCTGAATTTGGGGAAGAGTGTGGGATACTTTAAGACAGGCACAG
ACCTCACAATCCTTATGAACCCATCCCAGCTTGGAGCCCAGACAGACACCTAGAATAACCTAGAGCTCAAGCGTGTGGTTTTTACCTGCACTCA
TCATCTCTCGCTTCTTCCTGTTTTTTCTTTTCTATTGCAATGAGGCCTTAGATAAATGGTACCAGAAATGCTGAATTAGGATATACTTTTAAAG
TATAATATTCATGTGCTGTTTCAAGTGTTATAACAAAGACATATGAGATACCTTCTGTCTTTAGGAGATAACCTTGGCTATGCCCCTCTTCCGT
TCCACTCCTGACCAATCGTTTCCCCCTAAACTCGGGTCCTGATGCAAGGCTCTATATCCTTCTCAGTTTGGAGTCCTGAGGAACCTGTTTGCCC
GATGATTCATCCATTTCTCGAGAATGTCTGGGTCATAAGGCTGCTAGTGAGAGCCAGGTGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGG
AGGCCAAGGCAGGCAGATCACTTGAGGCCCCGAGTTCGAGACCAGCCCACCTAACATGGTGAAAACCCGTCTCTACTAAAAATACAAAAAAATT
TAGCCAGGTGTGGTGGAACATGCCTGGTAGTCCCAGCTACTTGGGAAACTGAGACAGGAGAATTGCTTGAACCCAGGAGGTGGAGGTTGCAGTG
AGCCGAGATCGCACCACTGCACTCCAGCCTGGGCAACTGGGCAAGACTGTCTCAAAAAAAACAAAAAAAAAAAAACCTGCTTCTTGAGAAACTT
TGATCAGCATAAACTCTTCTCATGGATTTAAGGTCAGAAGGGACAAGACATGAGAGATAAATGAGGTTTCCTTCCCACTTGAGCTAGAGAGTAA
AATGAAGGAAAATAAAGGAATGTCACCTTGTAGCCTCACACCAGATGGATGAATGACATGTGGTGCATTCTGTCTCTTGTTTCATAGCTCTGGG
GAGTGATCAAACAAGGATATCGATGTAAAGGTAAGACTCAATATTGTTGACATATTCCTGGTGTATCAGTCCATTCTCACGCTGCTATAGAGAA
CTGCCTGAGACTGGGTAATTTATAAAGGCAAGAGGTTAATTGACTCACAGTTCCACAGGGCTGGTGAGGCCTAAGGAAACTCACAATCATGGC
AGAAGGGGAAGCAAACACATCCTTCTTCACATGCTGGCAGGAAGGAGAAGTGCTGAGCAAAAGGGGGAAAAGCCCTTATGAAGCCAACAGATCT
CATGAGCAGTCACTCACTATCATGAGAACAACATGAGGGTAACCGCCCCCAGGATTCATTTACCTCCCATTGGGTCCCTCCCATGACACATGGG
GATTATGGGCACTACAAGGTGAGGTTTGGATGGGGACACAGAGCTAAACCATATCAGCTGGTCTTAGAGTCCCACCTCTAAAACATTTTTTACC
CATAGTAGTTGTCCATTTAGTCCACAACTTCTCAGCAGAGTTCAGAGTCTCATCCCCAAAGTGGTTTCCCTCGGACACCCCCGGTGAATGACCG
CCACACCGAAGAGAGAAATGCCTGGTTGCACAGATAGGCATTTTCTCTGTATAAAATCCTCTTTCTGTCGTGGCTGGCCTAGAACAGGGATAGC
AGGTAGGAGATGGTGCTCTCATATAGTCATGGAAGGGTGGGTCCCCAGTGAAAAAGATAGAATCTCTTCTGCAACAGAAGATAAATGATTACTA
AAGGCCCTTGTCAGCTTTCCTTTATCACTCAGGACATAACTGTCCTTCCTTGTGACTAGGAGAATTCAGGAGTGAAAGAGAGGAAACCTTTTAC
TGCAAGAAAGAAAATAAGACCTAACAGCTGAGTGTTTCCGGAGGGTCTCCCTAGAGTAGGCAGAATGTATGGGATACCAGGACACCATCTCTTC
CCTCCAAGATATCAGGATACTGCTTCTGATGCTGAGATTCACTGATAAGGGCTACATCAAGAGTGTGAGCTCTGGGCTTCACCAAGTGAGAAGA
ATGCTAGCTTCATTAGGAATGTTAAGTGTCTTAGCTCCAGAAGATAGAACAGACATGTGTGACAAGAAAGCACTGCATGAATTTGGTTGTGAGA
CACACTGGGGAAGAGAGAAAAGTGAAAGACTTCTTGACCCAGGATGTCTTGTCCACAGACTGCGGGATGAACTGTCACAAACAATGCAAAGATC
TGGTTGTGTTTGAGTGTAAGAAGCGAGCCAAGAACCCAGTAGCTCCCACAGAGAACAACACTTGCTGTGGGGCCAGTGTCCAACCTTTGCTCAT
TGGGAGCCAAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
TCTACTAGCTGAGTGACTGTCTATGATAGCCCCAATTTTTCTCCAGGAGAGGAACCCCAAGCCATTAATTTAAGACCAGGTCCTAGTCTGAGGA
ACCCTGAGGGGCCAGGTAGCAGGTAATTGTCAAAATTCTAGAAACAGAAGGCTAAATGTAGAAAGGAAGGGCGGGGGGCAAACTCCCACTCAAG
TGGAGCTTGCAGATTAAAATTCCAAATCATACAAGGAAAATCCTAGGACTGAGACAAAACATTCAACATTCAAGAAATAAACTAGCAAATTCAC
TTACATTAAAATGCAAACAACAGTACAATAAGGAAATGACTTTGAGTATGTTTGAGATGCCCCAGATCTAAAGTGCAAAGAAGCAGAATAGACT
GTCTCTGTCTTCATGGAGTAGTTCTAGTTAGGGGGAAGATAATATACAAATATAGAGCAGTTTAGAAACAATGCAAGAGTATATGCTAAGAGCC
AAATAGGTTGCAGTGACAGCAAATGACAGGAGGACATAGCAGAGAGATCGCTGTACTGGGGCTGTTGGGACTTTATGGAGAAGGTGGAATTTCA
GCTAAGTCTTGAAGGAAGGGTAGAATTAAGTTATGGGAGGAGGACAGAGCACATTCCAGATAGGATGTACAGTAGGAGCAAAAGGCCAAGGGCA
GAACAGCTTTAGTACTATTGGGATAGTGGGAAAAAAAAAAAGGTGTTAAGGCGATTTAGGTAAGAGATGAAGTAGAAAAATGAGACAGTCTAGA
GAGTCTTAAATGACAGGTGCCTGTCTGTATGATAAAATGAGGAGCTATTTAAAAAAGGGTAACATGAAGGGCTTGTTGGGGACGGTTGGGGCAC
AAGGCTTCATAGTGCTATACTAGGCCCTGATCTCTGGGCTGGCTGGTTAGCCAGCATGTCAAAACACTGATCACCTTGACTAACTAAAGAACAT
ATAGGTCTTCAGCAAAAATCCAGTGCTTATTAGGTTAGTGCCAGTTTAATATAAGAAGCTGTGTGACTTCTAAGTAGAACCAAAAAGGGAAATA
AGAAATGAGTTTATTTATATAAAGCACTTAAAATCGGGCTTAACACGTATGTACCATATGTTAATATCATTACTCTTTTGAAATAAGCTCCCTA
AAGTGGTAAGGCCACTATCGTTACAACAGATGCCTAGAGAAAAAGTCCATATAGTATACATTCTGCATTTAAAGCACTTCTAATGTTCAGTGGT
AAATATCCACATGCATTTATTGATCAATTAGATCAAAGCTTAAGTGCTTCACTTCCATGTAAGAAATGCACATTCCTTTTTATCACATCAGCCA
AGTAAAAATTTTCTGTCTTCCTAAATCTTTCCCCTTACTATCTATCTAAACACAGGCTGACTTCAAACTTTGGGGTGTTTTGTTCTTAGGGGG
AAAAAATCCTCTTAGGGTCTTTTCTAAGAAAGAATATGCTAATCAACTAAGAATTTGATGTTCAACTTTTAATAGAAATCACAAACACCATTGT
GAAAAATAGGCCTGTACCCTGTATTTCATTCATGCACTCTGTATTTTCAGAGTTACACATAACCTTAGGGCACCACAATTCTGTCACATAAAAT
GCAGATTTTCAAGTGGAAAAGACAGCAGAGAACAGCCTGAATCTGAGGCCTCAAAAAGGAATCCCTGAAGGGGCAGTTGTTAGAGATTTCTCCT
CTCCAGGCCATCTCTCCCCTTTTCCAAACCCTGCCCCACAGTGGTAAGATAAGTACTTGTCAGGAAGTAGACCAATAGGTAGGATAAACATACA

TGTATCATGGGCAACAAAATGAAAATTACTATATTATTATAAAGTTGCTAAAAGTCAAGGTCTATTTATAATGGCAAAAATGACTATTGGATAT
CATCCATTCTTAGTTATTTCTATCTCATTATTATCGGGGATGGTTTCTGCTTATCAAATCAAAATTTCCAGTGATTTCTTTTAGCCCATTACTA
TCTTTCTCAATCTCATCAACTTTCACTTTCTTGAAACTTGTACCTCTCCTAATTTCTGTTAACACTGTCATCTCTCAGGACTCTTCCTGCAATT
TTAAGGGCTTTCTGTTGCTTTTTGTTCTTACTGCTTTCTTCCTTTTGCTCCTCAAAGTGTATAGTGCCTGAATTTCTGTCCCAAGCTCCCTGTA
TGTCTAGGAATTCAACCTAAATAATGGAGGGGATTATATTCATAATTTGACAATCTAGGTTGGTAAAAAGAATGTATAACTGTATTACAGAAAA
GTTGGAAAATGGAGATATAAAAAATAATCACCCATAATACTCCTCCAAAAAAAAAATGTAATTATTTTAGGGTGACCATAACAATTTAAATATT
TGAGCACTTAAATAACTATGTAATTACAATTTTGAGCTTTATTGGATAAATATTAAATGTTAATTTAAATTATGTTCTCTTTGGCAAGAATTAA
ACTAAGATCTTTGTAAGATTTCTAGTTTTACAACTGGTTGATTCTGGTCAAATACTAATTAGAAAACTTTTTTGTTGTTTTTTAAAGCCATCTT
GACTATACTAATCCAATGTCTTCAAAGTCAGACTATCCAATGTTTTAATCACTGCTGAGTCTTTCCAAAAAGTAAACTGAGATGATCTTCAGTT
TATCTTAAAGCCTATCTATCGCCCACCTCAAATACATCTGCTCTTACTTTACTTTTCCAGGAAATTACTCCTTATGGCTAACATTACTAGGCTG
GATCCTGGGTAGTGGGTCTTAGTTAAAGAAAACCAGAGTAACTTACCTTTTTCCTCTCAGTATCAAACAGGGGCAATACATTTTAAGGTACATT
TCCACAAAGCTAAAACTTCTTTCTCATGGTTAAGCTGTGCCCACTGTACAAACGGGTTCCCAGAGAGTACTTACCTGCTAGAGGGTGTCTGTAT
CAGGACTGAGACATGAATGTGGAGAGCTCCCAAATTCCAGGGTCCAAAAAAGTATTTATGGAGCATTTCTGTCTAGATATTGTTCTTGTTCTCT
TTATTTTATGAAACTCTGTGGCACTGAGGCAGGGGCTTCAACTTACCTCCAAAAACAGAAACCCTCTAAGCAACCTTTGTGCAAACAGAAGATG
CTCTTTCTCAGGGTGGATGTAGCTTGACACCAGTGGCCATGTCTTGGCCAAAGCCCCTGGATTTAGCCCTCACCCCCTAAACTGGGTGCCTGAA
AATGGGTCCTCTTTGAACATATGGAACTCCAGTAACAATAAGAAAGGTCTCATTGAAACTAATGTCTCAGTCTTGAGTCTCTGCTTTCCTGAGC
TAGAGTACTAGCATGTCCTGTATCTTCCTACAGCACCTGAGGAAGGACCTTTTACATTCCCTAATGGGGAGGCTGTGGAACATGGTGAGGAGAG
TAAGGATCGGACCATCATGCTGATGGGAGTGTCCTCACAGAAGATTTCTCTTCGGCTGAAGAGGGCTGTTGCCCACAAGGCCACCCAGACTGAA
TCACAGCCTTGGATTGGCAGTGAGGGCCCTTCAGGTCCCTTTGTGCTGTCTTCCCCAAGGAAGACAGCCCAGGATACTCTATATGTGCTTCCCA
GTCCCACCTCTCCATGTCCTAGCCCAGTCTTGGTCAGAAAGCGGGCTTTTGTCAAGTGGGAGAATAAAGACTCCCTCATAAAATCAAAGGAGGA
GCTCCGTCACCTCAGACTGCCTACCTACCAAGAACTGGAACAGGTACCTTCCTTTTCATTTTCCTTTTTTTCAGACTATCTTAGAGAAGTGGGG
CCAAACCAGGAAAGAGCATGTGGACTGAAGATTCAGATCAGGCTGATTACAAGCAGTCTAAAACAAAAAAGGAGGAGGGGAGAAACAGGGAGGG
AGAAACAGGGAGGAAGAGAGGGAGGGAAGGAAGAAAGGATGATTGATTCCAGCTTTCTCACAACCCACTGGGGGCCTTGGTTCACATTACACAA
GTAGCACAGGCTATACAGGGCTCCCTATCACCACACACGGTGGTGGCATTTCAGAGTGCTGGTGCCAGTGCCCAAAGCCCTGTTTAGTAGGCTCA
CAGAGAAAAACCACAGTATCTACTGGTTAGCTTTACTGTGCTGATACCACTCCTTTTCTAGATGGAACTAAAATGAACTTGCCTAAATCCTCCT
TCCCTAGAGGTCTCTTTAACATGTTCATCAGGGTTATGGTTTAGGATCATCATGGTTACCTAAGCATCTTCCTAAGAGAAGTTAGTGATCTTAG
TCCTATAGCAACAACAACAAGAGAAAGGTGAGTGTATTGTGGCTCACCATAGAAAACGCCTCCCTCCTAAATATAAACGAAGAGAATCTTTTCT
AACACATCAGGGAATATGCTGATCTTTTACACATATTAGAATAGTGAAAGCAACAGTAGCAGGCAAACACACAGTGGAATATAATATAGAGCAA
TATAATCTATAAAATGTTAACAATCATGACAAGAGGAGCTGCTTTTCAATGTTAGGCTCACAATGTCCTAATTATCAGGTACCTAACAGAGACA
ATGGAAAAGACAAAATAAGTTTACCAAGGAAAGGAGACCAAGAGTTTGGAAACATGGTGCCAAGGTTTGAGAGAAGGGAATAATGACATTAAA
AACAGGAAAATAGGGCTGGGCGTGGTGGCTCATGCCCCCAGCACTTTGGGAGGCAGAGGTGGGTGGATCACTTGAGGTCAGGAGTTCGAGAGCA
GCCTGGCCAACGTGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCTGGGCATGATGGCAGGTGCCTGTAATCCCAGCTACTCAGGAGG
CTGAGGCAGGAGAATCACTTGAACCCGGGAGGTGGAGGTTGCAGTGAGCTGAGACCAAGCCACGGCACTCTAGCCTAGGCAACAGACTCCATCT
TAAAAAAAAAAAAAAAAAAAAAAAGGCCCGGCGTGGTGGCTCACGCCTGTTATCCCTAGCACTTTGGGAGGCCAAGGTGGGCGGATCACGAGGTCA
CGAGATCAAGACCATCCTGGCTAACACGGTGAAACCCCATCTCTACTAAAAATATAAAAAATTAGCCAGGCGTGGTAATGGGCGCCTGTAGTCC
CAGCTACTTGGGAGGCTGAGGCAGGAGGATGGCATGAACCTGGGAGGCGGAGCTTGCAGTGAGCCGAAATGGCACCACTGCACTCCAGCCTGGG
CGACTGAGTGAGACTCCAACTCAAAAAAAAAAAAAGCGGGTGGGGAGGAGTAGGAGACGGGAACAGCAGAAGGAAAAAGAGCCAACAGCCAACT
GTCAAGATACTCAATTCTGAAGGTTCAATCATTACTATACTTCTTTTTGTTTCGAGTACAGTACACAACTCACAGGGCTGGCTCAAGAGGTTAC
CTATAATTGGTAAGAACCTACAAATGGTAAGAAACTACTGTCCCATGGCATAGTAGTTTCTTAATTATAGATAACTAAGCCATTTTAGAGACAG
GGAAGCAAGGATACGTTAATATCAACACTACTATTCACTTTATTACAGGAGGAGGAATGCCTTTCTGGCTTTTCCCAAAAACATCAAGGTTTGC
ACTGTGTTTTTTGGAGACCTGTCAGTGCAAACACAAAACCAATATCCAGCTAGTAGAATTCCTTATATAATTCTACATTCTACAGACTGAAAAAC
TGTCCACGAGGGCTTCAGGATTCCCTGCATTGTCCTCAATGCTCTACCTTCCCTGTCAGACCCCCAGAAACTGAATTAGAGAAACATCTGAAGA
AACAAGTTAGATAACGTATGTGGAACTCTTGATTTGGTGCTTGGTACAAAGAACATAATATTAAGAGAAACATACGAAAAAAGAACAACAGATT
TTCTGGATGAATGGTACTCTCTTGCTCAGAGTTATTGTTAAGATGTGCTGTAAAAACCAAGTCAATGAGAAGGTGGCAAAACGTGGGTTAGACA
AACCCCTTCCTCTTTAGGGATAGAAACTGCCAAATGCAACTTCTAAAAATGATGAAAGAAACCTCGAAAAATGAACTCGGTAGAATAGAAAGAA
CTTTGGTCTTGGAGGCAAAGATTTGTGTTTTCAGTCCCAGACATTTCTTACACCAGCTGTTAAACTCTACAGCCTATTTGGTCCTTGTGAAATA
CAGGGCTGGGATTCCATGTTCTGAAAGGTTTGCCTCAAATCTTGACATTTTACATGCCGATGAAAAGGAAAAATGTGGTTGGCAACAATGCTTT
AAGAAGTGGCTCGCAGAAAGATTAGAATTCCTACTCAGCAACATCAGAGCCAGTAAACCCTCTCACCATTTTGACCACCGCCTCTCTTTACTTT
TTAGGCTTGTCAGATAGACCTAAGGTCCAGAATTCACTGTGTGTATTTTAGAGGAACAATTATGTGTCCCACTTTCCCATTAAGTATAATCCTT
ACAATGACTAGTCTATGTGTAATTCAACAGTCCTATCCATAATAACTAGTCAAATTAAATCAGTATTTACAATATATAACGTATATTAATAAGA
ATAAATATTATGTATTATTTTAAGTATAATGTACCACTGAACCAGCATGGGACAAAAGAATAAGCAAATAAAAGCTTTTATGTTTAGATATACC
AAGGCTCAACTCTGCAGTTTTATACTATATGGCAAACATTTGCCTTTATAAGATTGAGGTATACAACCTATTTTCAGGGTGTTTGTGTAGGTTAA
GGCAGTCCATTATGTCACACAGCGCAGGCACATAGCAAGTGCTCACTATTATATGGCAGCTGAGACAGCTATGTAGATAATTCAGATTGAGAAA
CAACCCCAGTGTATCCCAAATTACCCAGACACTGGCTATATATAATATTCTCTTGGAGTAATCAGTATAGGATAACATANNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTGGCTCTATAATGATACCACTACAAATTAGACCACTAA
ATCTCAACTTAGGGGTGGGGTGAAATTCTTAACATCATCAAAAAGTTAAATTTGTTTTCAATAATTTGTGGGGGGGAAACTTAGATAAAATTAA
CTAACACCTTGCATTACAGAATTCTCAGTCATGCTTTCATGGCTCAGACCTGACCAGAGACTGTTTCTGCCAAGTTGAGATCTCCCGCGAGAAA
ACATCCAAAAGTTTTGTCATTATCTACCTATTGCTCGGAAATGGTTTATTCTGCCTGCTAACCACTCACAAACTTTGATATGATAACAAAGACT
AACTGCTGCTTACAAATGCTCGTTTGATATTTAACTTGCTATTTTCTATTCAGGGCAAAATAACTATCTTGAAAATGGTTGTTAATTCTCAGCC
ACAGTGAATAGGAAATGCCAATCAAAAGTAGCTCTCAATTTGTAATTCATTTGCTATTCATTGCTGCTTTATTAACATACCTCATTCTCCTTTC
CCTTTAGGAAATAAATACTCTGAAAGCAGATAATGATGCCCTAAAGATCCAACTGAAATATGCACAGAAGAAAATAGAATCCCTCCAGCTTGAA
AAAAGCAATCATGTCTTAGCTCAAATGGAGCAGGGTGACTGTTCTTAGCCCAGAAACTAAGTAGCACAATCTGTAGATGAGTATAGTGATCTCA
TTTCCTAAACTGTAATGCACAGACCTGAGGAACTTTACACTGACCAGCTTTAAAACAGTACTTTAAAAGGAAAAGCCTGTTACTGTTTATTTAC
CTAAAAGATTCCTAATGTGCAGCACTGTTTTCTCTTTCAGTTAGTTGACTCAAAGGGGGAAAACTAAAGAATGCAAAACTTTTGCTATTCATAC
CACTGATGTTCATCAAAAGTATGCGATCTAAAACATGACTATCATTTCCTGACAATGGGGCATCTCGGTGGCCTGCCTGGCTGATTCTTCCTTA
AAACTAAAATCTCTGGAAAATGGATTTGCTTCTTACCCTGTGTTTTCTGCAAACTGACTTACTTTGTTCCAGCCAAAGCTTGCTAATAATAGAA
AACTACCCATATTCCAAAAGTAGATTTCCTCTGTATCCCAGCATACTTTGTGAACCTGGCTCCTTCTTCACTACCTCAGATCTAATCAATTAGT
CCATGTACCCTCCTTCCTCACTACAGTCATAACACATGAGCATATCTACCTAGAAGCCAATTTCTACTGATGTAGCCACAACTTTTTAGAGGCC
TATTAAACATGACGTTATCCAATTGCAGGTCAACTTATAGTTGTAGCCTTACAACTTACAGGCATCAGAAAATAAGTAATCAAATTAGGTACCT
GGAAACATAGCTATTACCATCTCATATTACTGTCTAATTAAAATAAACATAACGCAAACATGTTTGTCCTTATATATTCTACAGTGGATAGAAT
TAGGAATTGATGGCTTAAAAAAAAAAAGTCTATGAAGAGTCTGTTTAACTCTTCATGTTCCATCTTTCTCTTCTGAAGTAAACTATTTTGAAAG
TTCTCTTTTTGAAATGAATTTGTGCTTAACTGTCTTCACTATTAATACTATTTAGAAATAAGCTAATTGGATCAGTGGCTTAAATAATAGCTGA
CTGTGTGTACATATGTATATAATATGTATATACAATATCAGGCATGCATGTGGCTTGGAATTTTGTTTCCTCCATAAAATGTGGAAGTGAATTA

AACAAGTTTTAGTCATTTATACAAAGTCACAAATATAAAGTTCAGTTTGTCACAAGATTAAATTGCTCACAAGGTAAAATTGTATTGTTTGGCA
AAATCACAAGTAACAATCCTGTGAGTTTTCTATTATGAAGGTTAATAATAAATGGGCTCATTTAGTTGCCTGGGCACCTATTCACAAATTCATT
TGTCAGCCTCTTTTTAGTTCTCTTAAAAAAAAAAAAAATCATATGATCATTTTCCTTTTTGGGGGTACTTAGCTTCCATGCCTATAAAGTCTGGT
ACCAGACTGACTTGAAATTCATAAACAAGTTGTCCAATTGCCAAGAATATGTTAACAATTAAAAGTTCCAAACTAAAGCCAGTAGCACCAAGTC
TTCATAAGAATACAAAGTATACATACAGTATTGCTTACCTGGAGGATTCAGATCATTTAGGAATTCTCTTTGATGAAAGATCAGTTCCCATTTG
AGTTCCTCCTTGCACTGAGTTTTAGTGATATAGAACTAGCTTGTAGTTAGTGTTTCATTACATTATAAAGAATAGTTTTACACACGTATTTACC
GTTTTCCAAATTTAAACTCAGAAATACCCAAAGCAGGCCTGCTTAAGCCCACTACCTGGCATATAAACTTATAGTAACACTTTGTTACTTTCTT
TTTAATAGGACAAGCATGAGTTAGGACAAACTCTAAAAATTCATATTCTTCACTATTCTTGTTTTCCTTTGATTGATATAGACCAAAGATGGTG
TACTCTAATTTTTTAAAACAGTAATGGAACACAATTTTTTTCATTCTTCCTCCTCTCCATTCGAAGTAAAGATCCCCAGTTAGTTTTTATATAA
ATAATCTATAGGGATTCAAAAGGTGTCACAGTCCACTTAATTAGTCAAATTAGCAATGGCTAAACAGTATCAAGTACTGCAGAATTTATCACTG
AAATGGATAAGAGGAAATAGTTTAGTCACAGGTTTTTACAGTCCAGCAAGGGCCAAAGAGGTATAGTATACAAGTTAATAGTATTTGTGTTGAG
CAACATGGGGCTAGTGGGATCACAGAAATCTGGAAAAAAAAAAAAAAAGGCTTTGGCTTATCAAGCCTAGTGTAAATTTCTGCATCTCACACGAC
TTTAGTTTGGCCAGGTATTTATCTGCCAAAACAAGGACAAATCTTGTTGTATTAACAGCAGGGTCACTTCTCATTTTCTTTGCTGACTTACCTT
TTTACTGACCGTTGTGAATTTCTGTCTCAAAATGTATAATATAGAAATGCAAGAAAAAAACAAATGTACAGATTGTAAAGTTTTTTGATACCTA
ATGTAAGTTTTCTTTGTGTAATATTTATATGATAAAAGACATTAGGATCCCTACAACACAAATGTCTTGTGTTTCTTCTGCTTCGTGACCCCGT
AAACACTTTACCTGAATTTTTCCTATATTCCACAGCTAAGACCACTGCCCTATTCTATTAATCAAATTGAGTTTTCCTGGAAGGAAAGGCAAAG
CAGCTATTCAGTTTAAAATTTTCTACATCTTTTTACAACACGAAGAAGTAACACTACAGAAATATTCAATCTCTTTCCATCTTATTCATAACTT
ACAGTGGTCCCCAAATATTAAGTCTATAAATACTTAACATTAAAGGAGACAGACTTGAGGTTGTCCCTTCTCTGTGGCTTTTAATTCCACAGTT
TCATCTAAGCAAACTAGCATGTAAAGAAGAAATCCTTTGAAGCTATGGATAAAATTGGTAACGACAGCTCAATCCAGGTTACAGACCTACTCAG
GGCAATTTATTTGTGGTCATGATTATTTAGAATGATCAGACATAGCCACAATTTTCCCTTAATCCCCAGCTAATTTTTGTTTAACCACACCAAT
GAAGAAAGAGGAAAAATTTCAGTCACTCAAATTCCTCTGTGGAATGCATTCTGGAACGTTTAGATGGGGGTGTATTTATCATTTGGGCAATTCA
TAATACTTCATACAAAGTAATAAAGTCACACTGACAGCCTGATCCTGAAGGCAAGATTAAACTGCCTGCTCACCTCCCCCAATTTTCATCCCCA
CATTTCTCTAACCTGTGCTCCTTCCAAGGTATAGATAGTATCACTGCTCAGGACATTTTTCTGGTCACAAATTTTTTTTAGGTTGTCATGCCTC
CTCTTGTCACAGATACAGGTAATAAGATGTTTTTTTATTTAAAATGTTTTCCTTTTTCTGTTTAATGAGGCAAGGTTTCCCTGATCTGCAAAACA
AAAGTAAGTTCAAAGAAAACCCTTGTTTCCCTTTTGATGTGTGCTTATGAGTAATAGTGTGGTGATTATGTTATAGACAGAATACATGCTCTTT
ATACGGTCGAGAGGAAAGATGACTACTTTAGGCAGAAACTCCCAGTAAGATCATGTCTATATTTGCTATTAGGTACCAGGCTGGACAAAAAGAG
AAGAAAAAAGGGGAAGGACAATGAGGTAATTAAAAAATGAAATTGAGAACCAGGCAAAAAAGAATGAAAAGGAGGTATCAAAAAAAGTGTTGGA
TTTTAGGAAGCAGTGGAGTGCCATTCATCATACTCCATGTCGTATTGCACTCAATTTATAAAACATTTTCACACTATGGCCTTTCCCATTAAGG
CCCCAAATTTCCTTCCTGCTATTCCAGATACTGCTCAGCAAACTGTTCTACAAAAGAAATTTTTACTGAACAAAGATTATCAGGAAAATCCCAC
CTTACAGGAAAGAGTAAAATATTAAGAGTCTACCTGATTCAGCTTTTCATTCAATTAAGGTTTATAGGAATGTGTACATAGGAGTGGTTTCAGC
TCCAACACGATTCCAGGAGCAAGTGCTAAACTTTGATAGGAAATAAGTGATTGTAGTGAATAACCCAAGCAGCACTCCTATAAAGGTACAAAGA
AATCTTATGGAAAATCTAATGAAACTGATAAACTATTGTTTCTGCCATATTTACCATAAACCTTTAGTGGTAAAAAAGTTGAAAGTAGTTGTAA
ATCTCCTTCATCAGCAACTAATGCTACCAAAAAAGAAGTGAGGCAGAAATGTAAAGGTTTTAAAGAAGATTTTTAAACAACTCTTGAAATATTT
TACTCAAGTAGTTTTTTTCTTAAAAGTTTTTAAAAATTATTTTTCAGAGTTCATAGCTACTGATAAAGGTATTTTCTTAATTATGGAAAGCCTT
TTTTTCAGCTATCACAAATGAAATTACATCTTTTCATTAAATATAAACACACAAAAAATAAATTTACAAATAACCAAAAAATTTTATATTTTCC
TACCTTGAACACATTTCTTCAAAGGGTTAGCTTGAAAAATACATGTCTAAGATTACAGAATATTCAATAGTTACTTTTAGGGTTTTAACATTAT
TTTAGATTTTACCACAGAGTTTACCAAAAAAATAACAACAAAAAAACCTGCTAAACATCAAATACCACTTGTCCACTGGGAACAATTCAGCTTT
CTATCAGTTGAGTTGGTTAGATCACATTAAGTTGTTATGTATAGGTATTGACCAGAAGCCTACAATGAGATACAGATTTTACACTAAGATTGAA
AAAATTTATGGTACCAGCTCTTTTTCTCTTAACTTTCTACACTAAGAGAAAAATACATTACTTGGCCTACATCTTAAAGCATTCAAAATAGGCC
CTCTGTAAGTTTTTAACAAATTGTATTTGTATTTAGGTCTTTAAGAAACAACCTGAGATGATGGTAAGTGTCTCATTCCTCATTTGACAAATGA
GGACAAATCACTCCTTGAGAACTAAGGTCATTTCAATCCATAGCACCCCTGACCTAGTGCCATGATTCAAATTCACAACTCTTGATAGCTAAGA
CTTTGACTGCTCCAACTAGCAAATCACATATAGCCATTCCCTAACTTTGTGTTTCCCAAATCTAGCTGTGAATCAGAATTACCACAGGATGCCT
TAGCCCTACCCTTGATCTACTGAAGCAGAAAATTACTGCCTTAATTCTGTGTGATACAGGTCAGCCTGCCTTTTAATATTTGGATATCTAAAGT
GAGAGCATAAATGATGAAGAGACCAGTTTATAGGACTATTTCTCACACCGTCATGTAAAGTTGGTATGTGTCTTTGCTCCATTAAAGTATTTCT
GACCTCAATCTTAAACTTTGCTTTGTCAAACAAAATCATGCTGATTTCAAATCCAATTAGAAAATAAGTATGTACAGTAAAAAGTAAACTTGGG
CTTCAATTAATGAAACTTTAACAGAAACATGGCTAGAGAGGAATCTCCTCCTATAAGAGAAAAAAATGATTCACAACAACTGCCTACTAAATAC
AACTGGAAGTGCCTTTCCCTATTTTGTAAAATCGAATGAAAAACCCACAAAACACATCCACAGCAATACAGGTGAGGCAAGGGTCTATATTCCT
TTCTATTACAGGTGGGGTCTTTTATATGTCTCAAACCTGAACAAAATACAGGTAACAATCTAAATTCAATCATGACAATAAAATACTTTCCATT
TTCCAAGTCTGATGGTAATAAATATTTACATTTTAAAAAATAATTTTTGTTCTTTTTTTTGTTTTTAAAAAGACACAACATGCTCAAGGGTAC
ACAGAATATGGAAAAAGTCATCACTTCATTTGAGAGATCAACTGGTAATAAAAAACAATGTTCTTACATATTAACCAATTCAAGAGTGGTATCA
CCAGGGAGTCTAACATGGTGTTTACTTCAAAGATGATATTCAAGTATGTTATTTGGAACACTATTTCTAATGTATCTATAAAGAAGCAAGCACT
GCTATCTAATTTTTATAGTTTTTAGTATCTTCTATATTCCACCTCCTCCACCACCACCACCACCACCACCACCTCCTCCATATGGATCTCC
ATAGCCTCTTCCACCATAGCCCCCTCTTCCACCATAACCCCCTCTTCCACCATAATCTCCCCTGCCTTGGAAACCTCCTCTACCANNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNCCCCAACCACCCCCTTCCACCGCCGCCTTCTTGTCTCTTTTGCCAAGGGGGCATTTCTGGAGGTGGT
GGTTCAATTTCATTCGGCCGGCCTCCCCTGTCAGGCACCCTTCCCATCAGCACCTGTGTGAAGAAACATTTTCTTTTAGTTCCTAATATTTCAA
AAAAGTTTACATAAAAGTTTCAAGTGATGTTGTTTCTAATAAACAGAAGCCAATATTTAAGGACATGAAAGTACCAGACATGGCAGAACAAATT
AATATTAAAAATATTAAGTGTGGAAGGATAAGGAGAAATCTGTTAAAGGATACAAAATCACGGCTAGACAGAAGTAATAAATTCTAGTGTTCTA
TACCATTGTATGATGACTGTAGTTAATATATAGTTTCAAATAGCTACAAGGAGGATATTGAATGTTTCCAACACAAAGAGATGATAAATGTTG
AGAGGGATATGCCAATCACCCCGTCTGATCACTATACATTGTATGTATCAAAACATCACTATGTACCTCATACATATGTACAATTATGGTGTTT
CAATTTAAAAAATAATTTTTTTACTTCCTGTTTACCAAGTCTGAAGAAAAAAGAAAAAAATGAATGGTTTTAAAAAGGAAATATGAAAAAATAT
AAAATGTGTGATACATGACAAATTCCTTAGTGTATATATATATTTTTTTTTTTTTTTTTTTTTTGAGATGGAGTCTTGCTCTGTTGCC
CAGGCTGGAGTGCAGTGGCATGATCTCAGCTCACTGCAAGCTCTGCCTCCTGGGTTCACGCCATTCTCCTGCCTCAGCCCCCCGAGTAGTTGGG
ACTACAGGCACCCGCCACCACGCCCAGCTAATTTTTTGTATTTTTAGTGGAGACAGGGTTTCAACGTGTTAGCCAGGATGGTCTTGATCTCCTG
ACCTCGTGATCCGCCTGCCTCGGCCTCCCAGAGTGCTGGGATTACAGGCATGAGCCACCACACCCAGCCTAGAATATATTATTTTTAAACAATC
TGAGAGAGTATTTCTGAAACTTAAAGGCTTAATTTTTTTCTCACTTAAATTTGTTTAGCAAATTCTGTAACAAATGTAGTACCCATTTCACTAA
GAAGTTCTTTTAGGAAAACATTTTTTATATATATAACGACATACCTTACATTCATTAACTTAATATCCATTTATACAATAACAACTCTGGACTT
TCCATTGCCATTGATTTGGTAATTGATTATCCAATAAAAGATTATATTCCTAAGCACATTTCATTTCAAAAATGTATGAAGTACATATAACATG
GGACCTTAATGAGGTCAGAGATTGATATAAAAACTATAATTCCAGGTATCACTGCAAAGAGAGAGAAGGATTCTCAATGAACTGCTTCTTTTAA
GAAACTTAAGCTCACTTACTTTCAGTGATGATACTAGTACCATATTATTAAAAGGAAAACACAGTTAATATAATTCCTTTACTATGCTTTATAA
TCCTTTCAAAAATAAACTAGGGAAGAGTTTAAGTATCCAACCTTCTATAAAAAGTAGCAGCTTTATATGCCATGAGCAGAGGAAAGATAGCAAT
AAGAAGGGTGTCATCTGCTCACCACAGACAAGGGGAAGCCAATAGCTTCCTGCTACTGCCTTTCAGGAAAGAAAGTAAAAAAGCAACTGCCTCA
ACCAAAATGACCAATTAATTATACACTTCCATTGATCCTCCAATCAAAACCAAGTTTAGGATTTATGTCACAAATGAAATATAAAAAGTGCAAT

ATCCTCAAAGTGAGACAAGGTTCTAAGTATGCAACATTCTTTTAAAGATGGCAATGATGTCCTAACTACCAAATCCAAAAAACAGCCTTTCTTG
GTTATTATTCTCACTGGTCTCTCTACCAAACATGGTATGTTGGTGGGCATATGGAGATGCCAGAACTGATCATAAGACTACCCTCAAATAATGA
GACCATAAATTATAAACTCAGAAGAGATGGCCAATGTTACTTACAGAAATAGAACTCTTGATCCAGCAAGACTAAATTATCACCCAATGCAAGA
TGTTAGGTAATATATTTAAAGAGAGAACACTTTCAGAACATAGGATTGAGCCACAGTGGAAGCACAGAGGCAAACACTGGTGATGCCTAACTTA
GCAATAGTTAGCAAAATGACTTTAAAAACAACCATCCCTCTGAAAAGGTATTTTATCTCAAGTTACACTGAGTGAGAAGCGATGCTTTAAAATT
ATCCAAATCCCTTATTTCTGATTTTTTGCTCTTTTGTAATAAAGTTTGCCATGGAGTGCTCTACCTAAATGAAGAGGACATGCCAGTTAAGCTG
ACATAAACATACTAAATTACTTTATTGTTATTGCTGTTGTAAAGTGAAAAATTCAGACTCCTTGAGCTTGTTTAAATAGACTACTGTCAGAGAA
ATGGATGTATACTCCAAATCAGGAAACAGAAGCTCAAAGAAGTTCAGTAGCTTGCTCAGGGTCATTTCTGTAAGTAAATGACAGAGCCAGGATG
GGAACCCAGATTGGTCTGACTCTAAAGCACAAACTCTTCTTCCCTTTACACCAAGGATATAACGAATCTGTCAGTACTTGAAACAATTCCGAAA
GATTCTTACTGACAAAAAATGATTACTTTTTAGAAAGATGGAACATAATTCTTGCTAAAGCTTTGACAAAAACAATTCATAATTCCTCTAATTC
AGAAAATACTTTGATTTATGAATACACAAATTCAAGTGAACATACACACATACACAAAAATAACATAACTAAGCCTAGACTGAACCCCCCTGCC
ACTCTTTTTTCTAAACATTTACCAGGACATGAAAGAAAAATAGACTAAAATCTGTAAAAACATTAAGTAAGATATCATCAATTCATTTTCCACT
GTACTGAAAGAAACACCAACCTTATTAATGGCACATGCGGTCTTCTCCCGGCTGGTGCCACTACTTGTCCTAATGATCTTGGATAGATCTTCAC
GAGCAGCAAGTAGATGTGCCATTGTAATCGTTGTCTTGGGTGACAAAGCATAACGCTTAGGCTGATAAATTCTTGCTATATCATCTGTTTTTAC
CTAAATGACAAGAGTTAAGGAAAAAAGGAACAAAAGTACATTTTAATGAAAGAGCAAAAACAATCATAATCTTTAGAAATAAAGAAAAGGAGAT
AATGCATAAGCAAGGAGTTAGAAAAGAGCAAAAACACCCAAATATCTGAGAATTTATGAATAATTTAGAACAAATAAAATAGACCAACAGGTGT
TAAAAATATGTAACTACCAGCAACAACTCGCTAAAAAATAATAACAAAAAAATTTCTATACATATTAACAAAAAATACCTAAAAAATAGTTTTA
CCAAAACCACATACAGGACATTTAAAAGGGAAACATCAGTAAATCTTGCAAAAACAAAAGGAAACTTGTATAAATGGTAAGAAATACCAAGTT
TCTGTATGGGAACATTAAGTATTATTGTCAGTTTTCCCCCAAATTAACTTATAATCCTATATAAATAGTTTTTGAGAGAATGAAAAAAAAATCT
AAAGTTAAATCCAGAAACTCAATATGTAAGAATAACTAAAAGCATTTTGAAATATAATCCTACCAAATACTAATATGCTATAATACAAAATTAT
CATCATCTTATCAGTTAACATTTAATGAGAACTTATTAAATGTGCCAGGATGCTGTTCACTTAGTAAGGCATTATTTCTTTAATCCTCAAAATA
TCCTTTTAGAGTGGTTGGTTTTTATTATCCCCTTTTGCAGATGGAAAAAAAAAATGAGGCATAGAAAGCTTAAGTTAGTTTCCCCAAAATATAG
AGAGAATCCTAGCTCTGCCCACTTAGCAACAAAGGTCTACCTGACCCCCAAGCACAGGTCTAGTATAGATAACAGTTTGCTATCCTACCTCCAT
CTAATTAACTAGAACTTGGGAGAAAAAAACATAGATTGATGAAATAGTATATTGAGACTCAGAGCCTCATAAATCTATGAATGCAATAAATGAT
AAAGGAGACATCACAGATCAACGAGAAAAGGAAAGGATTATCTTTTAAATGGTGCTGGAATGACCTGGTGGCTATCTGTAATAATAACAATAAT
ACAGCACACCATATAACAAAGGGAATTCCAAAGAGAACAAAAAGTTAACTGTTTGAGGTTTAATTTTCAATTTAAAAACAACTACATTATAAAA
ATTAAAATTTCTGTACTTTAAAAGATATAAAACAACATCTAATGACAACTGGGGAAAATATTTTCAACAAATAATTCAACCAGCAAACTTCCTT
TCTATATAAAAACCTCAAACACAAAAAGAAAACAGAATTCTACAGGAAAAAAAAAATGACAAGACATAAATAGAAGTTAAAAAGAGGAAATTCAA
ATGACTAATAAGCTTATGAAAACAGTTCAACTTTGTCAATAATAAGAACAGACAAAACAAGTTAGTCTTTTTAACATCAAGTTAGCAATAAAGA
GGCTAAAGTGACACAACATTTCATTTACCTTACTGGAAGGAGTTTAAATTCATATAAA

HUMAN SEQUENCE - mRNA
CCCGGGGGGGAGAGAGCCGGCAGGCGGCGGCGGTGGTGGCGGGGGCGATGCGCCGCGCCCGGCCGCGCTAGGTGAGCCGGCACCGGGAGCGCGG
GCCGCGGCCATGGGCACCCTGGGCAAGGCGAGAGAGGCTCCGCGGAAACCTTCCCATGGCTGCAGAGCTGCCTCTAAAGCAAGACTAGAGGCAA
AGCCAGCCAACAGCCCCTTCCCCTCCCATCCCAGCTTGGCCCACATCACCCAGTTCCGAATGATGGTGTCTCTGGGACATTTAGCCAAAGGAGC
CAGCCTGGACGATCTCATTGACAGCTGCATTCAATCTTTTGATGCAGATGGAAACCTGTGTCGAAGTAACCAACTGTTGCAAGTCATGCTGACC
ATGCACCGAATTGTCATCTCCTCTGCAGAACTGCTCCAAAAAGTTATCACCCTCTATAAGGATGCTTTGGCAAAGAATTCACCAGGACTTTGCC
TGAAGATCTGTTATTTTGTAAGGTATTGGATAACAGAATTCTGGGTCATGTTTAAAATGGACGCCAGCTTGACAGACACTATGGAGGAGTTTCA
GGAACTGGTGAAAGCTAAGGGTGAGGAGTTACATTGCCGCCTGATTGACACAACTCAAATCAATGCCCGTGACTGGTCCAGGAAACTTACTCAA
AGGATAAAATCAAATACCAGCAAGAAACGGAAAGTCTCCCTGCTCTTTGACCATCTGGAACCAGAAGAGCTATCCGAGCACCTCACCTACCTTG
AGTTCAAGTCTTTCCGGAGGATATCGTTCTCTGATTATCAGAATTACCTTGTAAATAGCTGTGTGAAGGAAAACCCCACCATGGAGCGATCTAT
TGCTCTGTGCAACGGCATCTCCCAGTGGGTACAACTGATGGTTCTCAGCCGCCCCACGCCGCAGCTCCGAGCAGAAGTCTTCATCAAGTTCATC
CAGGTGGCTCAGAAGCTCCACCAACTACAGAACTTCAATACACTGATGGCTGTGATAGGTGGGCTGTGTCACAGCTCAATCTCGAGGCTCAAGG
AGACAAGTTCGCATGTCCCACATGAAATCAATAAGGTTCTCGGTGAGATGACTGAGCTGCTGTCCTCCTCCAGAAACTACGACAATTACCGGCG
AGCCTATGGAGAGTGCACCGACTTCAAGATCCCCATTCTGGGTGTGCATCTCAAGGACCTCATCTCCCTGTATGAAGCCATGCCTGACTATCTG
GGGGACGGGAAAGTGAACGTCCATAAGCTACTGGCCCTATACAATCATATCAGTGAATTGGTCCAGCTGCAAGAGGTGGCCCCACCCTTGGAGG
CTAACAAGGACTTGGTACACTTGCTGACGTTATCCCTGGATCTTTACTACACTGAGGATGAAATCTATGAGCTTTCCTATGCCCGGGAACCAAG
GAACCACAGAGCTCCACCACTAACACCTTCAAAGCCACCAGTAGTAGTGGACTGGGCTTCTGGAGTGTCTCCCAAACCTGATCCAAAAACCATT
AGCAAACACGTCCAGAGGATGGTGGATTCTGTCTTCAAGAACTATGATCACGACCAGGATGGATACATTTCTCAGGAAGAATTTGAAAAGATTG
CTGCGAGTTTTCCATTTTCCTTCTGTGTGATGGACAAAGACAGGGAAGGCCTCATCAGCAGGGATGAGATCACAGCCTACTTCATGAGAGCCAG
CTCAATCTATTCCAAGCTGGGCCTGGGCTTTCCTCACAACTTCCAAGAGACCACCTACCTGAAGCCCACTTTTTGTGACAACTGTGCTGGATTT
CTCTGGGGAGTGATCAAACAAGGATATCGATGTAAAGACTGCGGGATGAACTGTCACAAACAATGCAAAGATCTGGTTGTGTTTGAGTGTAAGA
AGCGAGCCAAGAACCCAGTAGCTCCCACAGAGAACAACACTTCTGTGGGGCCAGTGTCCAACCTTTGCTCATTGGGAGCCAAAGATCTGCTCCA
TGCACCTGAGGAAGGACCTTTTACATTCCCTAATGGGGAGGCTGTGGAACATGGTGAGGAGAGTAAGGATCGGACCATCATGCTGATGGGAGTG
TCCTCACAGAAGATTTCTCTTCGGCTGAAGAGGGCTGTTGCCCACAAGGCCACCCAGACTGAATCACAGCCTTGGATTGGCAGTGAGGGCCCTT
CAGGTCCCTTTGTGCTGTCTTCCCCAAGGAAGACAGCCCAGGATACTCTATATGTGCTTCCCAGTCCCACCTCTCCATGTCCTAGCCCAGTCTT
GGTCAGAAAGCGGGCTTTTGTCAAGTGGGAGAATAAAGACTCCCTCATAAAATCAAAGGAGGAGCTCCGTCACCTCAGACTGCCTACCTACCAA
GAACTGGAACAGGAAATAAATACTCTGAAAGCAGATAATGATGCCCTAAAGATCCAACTGAAATATGCACAGAAGAAAATAGAATCCCTCCAGC
TTGAAAAAAGCAATCATGTCTTAGCTCAAATGGAGCAGGGTGACTGTTCTTAGCCCAGAAACTAAGTAGCACAATCTGTAGATGAGTATAGTGA
TCTCATTTCCTAAACTGTAATGCACAGACCTGAGGAACTTTACACTGACCAGCTTTAAAACAGTACTTTAAAAGGAAAAGCCTGTTACTGTTTA
TTTACCTAAAAGATTCCTAATGTGCAGCACTGTTTTCTCTTTCAGTTAGTTGACTCAAAGGGGGAAAACTAAAGAATGCAAAACTTTTGCTATT
CATACCACTGATGTTCATCAAAAGTATGCGATCTAAAACATGACTATCATTTCCTGACAATGGGGCATCTCGGTGGCCTGCCTGGCTGATTCTT
CCTTAAAACTAAAATCTCTGGAAAATGGATTTGCTTCTTACCCTGTGTTTTCTGCAAACTGACTTACTTTGTTCCAGCCAAAGCTTGCTAATAA
TAGAAAACTACCCATATTCCAAAAGTAGATTTCCTCTGTATCCCAGCATACTTTGTGAACCTGGCTCCTTCTTCACTACCTCAGATCTAATCAA
TTAGTCCATGTACCCTCCTTCCTCACTACAGTCATAACACATGAGCATATCTACCTAGAAGCCAATTTCTACTGATGTAGCCACAACTTTTTAG
AGGCCTATTAAACATGACGTTATCCAATTGCAGGTCAACTTATAGTTGTAGCCTTACAACTTACAGGCATCAGAAAATAAGTAATCAAATTAGG
TACCTGGAAACATAGCTATTACCATCTCATATTACTGTCTAATTAAAATAAACATAACGCAAACATGTTTGTCCTTATATATTCTACAGTGGAT
AGAATTAGGAATTGATGGCTTAAAAAAAAAAGTCTATGAAGAGTCTGTTTAACTCTTCATGTTCCATCTTTCTCTTCTGAAGTAAACTATTTTG
AAAGTTCTCTTTTTGAAATGAATTTGTGCTTAACTGTCTTCACTATTAATACTATTTAGAAATAAGCTAATTGGATCAGTGGCTTAAATAATAG
CTGACTGTGTGTACATATGTATATAATATGTATATACAATATCAGGCATGCATGTGGCTTGGAATTTTGTTTCCTCCATAAAATGTGGAAGTGA
ATTAAACAAGTTTTAGTCATTTATACAAAGTCACAAATATAAAGTTCAGTTTGTCACAAGATTAAATTGCTCACAAGGTAAAATTGTATTGTTT
GGCAAAATCACAAGTAACAATCCTGTGAGTTTTCTATTATGAAGGTTAATAATAAATGGGCTCATTTAGTTGCCTGGGCACCTATTCACAAATT
CATTTGTCAGCCTCTTTTTAGTTCTCTTAAAAAAAAAAAAATCATATGATCATTTTCCTTTTTTGGGGGTACTTAGCTTCCATGCCTATAAAGTC

TGGTACCAGACTGACTTGAAATTCATAAACAAGTTGTCCAATTGCCAAGAATATGTTAACAATTAAAAGTTCCAAACTAAAGCCAATAGCACCA
AGTCTTCATAAGAATACAAAGTATACATACAGTATTGCTTACCTGGAGGATTCAGATCATTTAGGAATTCTCTTTGATGAAAGATCAGTTCCCA
TTTGAGTTCCTCCTTGCACTGAGTTTTAGTGATATAGAACTAGCTTGTAGTTAGTGTTTCATTACATTATAAAGAATAGTTTTACACACGTATT
TACCGTTTTCCAAATTTAAACTCAGAAATACCCAAAGCAGGCCTGCTTAAGCCCACTACCTGGCATATAAACTTATAGTAACACTTTGTTACTT
TCTTTTTAATAGGACAAGCATGAGTTAGGACAAACTCTAAAAATTCATATTCTTCACTATTCTTGTTTTCCTTTGATTGATATAGACCAAAGAT
GGTGTACTCTAATTTTTTAAAACAGTAATGGAACACAATTTTTTTCATTCTTCCTCCTCTCCATTCGAAGTAAAGATCCCCAGTTAGTTTTTAT
ATAAATAATCTATAGGGATTCAAAAGGTGTCACAGTCCACTTAATTAGTCAAATTAGCAATGGCTAAACAGTATCAAGTACTGCAGAATTTATC
ACTGAAATGGATAAGAGGAAATAGTTTAGTCACAGGTTTTTACAGTCCAGCAAGGGCCAAAGAGGTATAGTATACAAGTTAATAGTATTTGTGT
TGAGCAACATGGGGCTAGTGGGATCACAGAAATCTGGAAAAAAAAAAAAAAAAGGCTTTGGCTTATCAAGCCTAGTGTAAATTTCTGCATCTCAC
ACGACTTTAGTTTGGCCAGGTATTTATCTGCCAAAACAAGGACAAATCTTGTTGTATTAACAGCAGGGTCACTTCTCATTTTCTTTGCTGACTT
ACCTTTTTACTGACCGTTGTGAATTTCTGTCTCAAAATGTATAATATAGAAATGCAAGAAAAAAACAAATGTACAGATTGTAAAGTTTTTTGAT
ACCTAATGTAAGTTTTCTTTGTGTAATATTTATATGATAAAAGACATTAGGATCCCTACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

HUMAN SEQUENCE - CODING
ATGGGCACCCTGGGCAAGGCGAGAGAGGCTCCGCGGAAACCTTCCCATGGCTGCAGAGCTGCCTCTAAAGCAAGACTAGAGGCAAAGCCAGCCA
ACAGCCCCTTCCCCTCCCATCCCAGCTTGGCCCACATCACCCAGTTCCGAATGATGGTGTCTCTGGGACATTTAGCCAAAGGAGCCAGCCTGGA
CGATCTCATTGACAGCTGCATTCAATCTTTTGATGCAGATGGAAACCTGTGTCGAAGTAACCAACTGTTGCAAGTCATGCTGACCATGCACCGA
ATTGTCATCTCCTCTGCAGAACTGCTCCAAAAAGTTATCACCCTCTATAAGGATGCTTTGGCAAAGAATTCACCAGGACTTTGCCTGAAGATCT
GTTATTTTGTAAGGTATTGGATAACAGAATTCTGGGTCATGTTTAAAATGGACGCCAGCTTGACAGACACTATGGAGGAGTTTCAGGAACTGGT
GAAAGCTAAGGGTGAGGAGTTACATTGCCGCCTGATTGACACAACTCAAATCAATGCCCGTGACTGGTCCAGGAAACTTACTCAAAGGATAAAA
TCAAATACCAGCAAGAAACGGAAAGTCTCCCTGCTCTTTGACCATCTGGAACCAGAAGAGCTATCCGAGCACCTCACCTACCTTGAGTTCAAGT
CTTTCCGGAGGATATCGTTCTCTGATTATCAGAATTACCTTGTAAATAGCTGTGTGAAGGAAAACCCCACCATGGAGCGATCTATTGCTCTGTG
CAACGGCATCTCCCAGTGGGTACAACTGATGGTTCTCAGCCGCCCCACGCCGCAGCTCCGAGCAGAAGTCTTCATCAAGTTCATCCAGGTGGCT
CAGAAGCTCCACCAACTACAGAACTTCAATACACTGATGGCTGTGATAGGTGGGCTGTGTCACAGCTCAATCTCGAGGCTCAAGGAGACAAGTT
CGCATGTCCCACATGAAATCAATAAGGTTCTCGGTGAGATGACTGAGCTGCTGTCCTCCTCCAGAAACTACGACAATTACCGGCGAGCCTATGG
AGAGTGCACCGACTTCAAGATCCCCATTCTGGGTGTGCATCTCAAGGACCTCATCTCCCTGTATGAAGCCATGCCTGACTATCTGGGGGACGGG
AAAGTGAACGTCCATAAGCTACTGGCCCTATACAATCATATCAGTGAATTGGTCCAGCTGCAAGAGGTGGCCCCACCCTTGGAGGCTAACAAGG
ACTTGGTACACTTGCTGACGTTATCCCTGGATCTTTACTACACTGAGGATGAAATCTATGAGCTTTCCTATGCCCGGGAACCAAGGAACCACAG
AGCTCCACCACTAACACCTTCAAAGCCACCAGTAGTAGTGGACTGGGCTTCTGGAGTGTCTCCCAAACCTGATCCAAAAACCATTAGCAAACAC
GTCCAGAGGATGGTGGATTCTGTCTTCAAGAACTATGATCACGACCAGGATGGATACATTTCTCAGGAAGAATTTGAAAAGATTGCTGCGAGTT
TTCCATTTTCCTTCTGTGTGATGGACAAAGACAGGGAAGGCCTCATCAGCAGGGATGAGATCACAGCCTACTTCATGAGAGCCAGCTCAATCTA
TTCCAAGCTGGGCCTGGGCTTTCCTCACAACTTCCAAGAGACCACCTACCTGAAGCCCACTTTTTGTGACAACTGTGCTGGATTTCTCTGGGGA
GTGATCAAACAAGGATATCGATGTAAAGACTGCGGGATGAACTGTCACAAACAATGCAAAGATCTGGTTGTGTTTGAGTGTAAGAAGCGAGCCA
AGAACCCAGTAGCTCCCACAGAGAACAACACTTCTGTGGGGCCAGTGTCCAACCTTTGCTCATTGGGAGCCAAAGATCTGCTCCATGCACCTGA
GGAAGGACCTTTTACATTCCCTAATGGGGAGGCTGTGGAACATGGTGAGGAGAGTAAGGATCGGACCATCATGCTGATGGGAGTGTCCTCACAG
AAGATTTCTCTTCGGCTGAAGAGGGCTGTTGCCCACAAGGCCACCCAGACTGAATCACAGCCTTGGATTGGCAGTGAGGGCCCTTCAGGTCCCT
TTGTGCTGTCTTCCCCAAGGAAGACAGCCCAGGATACTCTATATGTGCTTCCCAGTCCCACCTCTCCATGTCCTAGCCCAGTCTTGGTCAGAAA
GCGGGCTTTTGTCAAGTGGGAGAATAAAGACTCCCTCATAAAATCAAAGGAGGAGCTCCGTCACCTCAGACTGCCTACCTACCAAGAACTGGAA
CAGGAAATAAATACTCTGAAAGCAGATAATGATGCCCTAAAGATCCAACTGAAATATGCACAGAAGAAAATAGAATCCCTCCAGCTTGAAAAAA
GCAATCATGTCTTAGCTCAAATGGAGCAGGGTGACTGTTCTTAG

TABLE 5

MOUSE NOMENCLATURE
ICSGNM Nmycl
Celera mCG19753

HUMAN NOMENCLATURE
HGNC MYCN
Celera hCG1783900

MOUSE SEQUENCE - GENOMIC
TAATGAAATTCTGAAGCCTACAGACTCTTCCTAGGGGAGAGAGGAAGTATTCAACTTGGTAGAAAATAAATGATGGGTGAGGGAACAGGAGGAT
GAAAGGGCCTGATGAACAGGTGAGCGCCTATGACTCCGTGGGGTGGAGGTGATGTTCTGGATTATCTAACCCAATCTCCCTCATAATGTTGTTC
CGGGACAATCGAATTCATCCAGAAGGATCTTGCCCAAGGTAGGTAAAGGGGATTCAGAGAAAACTTTTCTATGCTTTGGTGCTATGAGATAGGA
GAGCAAAGAAAAATCACGAAGACTTTGGTCAGCAAGCCAAATGCCACATTTGAGGGTGTCTTGTCCTCAACCCAATTCTAAAGGGACCCTTGTG
TTACTGTGCCCAAGAAGTTGGAATTTCCCCCAGGAGTTTCACTTTAGGGGAAGAAAAAGCCTTGAGTCCTGGTTCCAGCCAGAGAGGGAGCTTG
CCTTCAGGGAAGTGATTGTCCAGATCTCACAGAGTTCTTGCAAATTGATATTACAGCACCTTGCAAGAGAAAATGGAGCTGAGACAATGCTGCC
TCAAAGGTGGGTGGGAAAGACCAGGACTCTTGTGTCACAAATACCTGTTTCCTTTCATTTAGTCCTATACCTGTCTGGACATCGAAGATGAACT
GAGGGCCTGGGATGGGGAAGGGGGTGGGGGGTCATTGAACCCCTTTATATTTGTTTCTCTCTCTGATGTGATCACATTGAATGCACCTCTGTTT
TCCACCATTGATTGCTAGGCTGCATCATTGGTCTATTGAGGACGAGTAGTCAACTCTTGCTTGTTAACGGCTGCCTTACAACTATGATTAGAAC
GAGCATTTAAAATGGTGTTACGGGGCTGGAGAGATGGCTCAGAGTTAAGAGTACTGACTGCTCTTCCAGGGGTCCTGAGTTGCTCTCCCAGAAA
CCACATGGTGGCTCACAACCATCTGTAATGGGATCTGTCTGGTGTGTCTGAAGACAGCTACAGTGTACTCATATAAATAAAAAAAAAAAGAAAT
TAAAAAGAAAAAACTTTAAAAATACACATTAAAAAAAAAAAAGATAAAATGGTGTTACCACCCTTTCCCAGTGCCCTTTTCCGATGATGGCGCT
GCATGGTGAAAAGCTTGAGTTAGTACTTGTAGCTATGCTGTCCAAGGATCCGCTGCAATCCGTGCAGGTCTTCGGACACAAGAAGACAGTCACT
GCTGTGGCCCACTGCAAATGAGGAAACGGGCTCATCAACGTGAATGGATGAAGCCTCTAAGAAGGAGATCAAAGATAGCCTCATTCAGTATGAT
CGGACCATTCTTGTAGCTGACCTCCAGTCGCTGCGAATCCAAAAAGGTTGGAGGTCCTGGTGCCCGTGCTTGATACCAAAAATCCTACCAATAA
GCCCATCCCAAGGACCAGGGTTTGTTTACCTCTGTAATGCACATCCTAGGATTTTTTTTTTAAATGACATTACCGATACAACCCCTCAGCCACA
CACTCACCCTTGGCTAAACTCTCTCGGTGCTAGCTTTGAAATTTCCTCCAGCCTCCAATGGCAAAATACATGCACCTAGTTTGGTGGGGCACCT
CAAATATTATAAACTTCATTCGGCTGTGGTGGTCAGCTTGTGATTCAAATTCAACTACCACCTAATTTGTCTCATCTCAGCCTCTCTGAACCCT
TCAGAGAGTTCAGTGGCAGGTAGTCAGGAAGAGTAACAGCAAATCTGGGTAGGAAAACATAGACTTAAGGGTAGTTTAGGCCGGGCGTGGTGGC
GCACACCTTTAATCCCAGCACTTGGGAGGCAGAGGCAGGTGGATTTCTGAGTTCGAGGCCAGCCTGGTCTACAGAGCGAGTTCCAGGACAGCCA
GGGCTATACAGAGAAATCCTGTCCCGAAAAACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAAGAGAAGAGAAGA
GAAGAGAGTCACCACCACCACCCAATCCCGAATGTTATTCTAATCAAAACAAACAAAACAGAACAAGCAACTTTGGGGGAGAATGGGTTTATTT
TAGCTCACAAGCGCACGTTACAGTTCACTCTACGGCAGGGAAGTCAAGGCAGCAAGAAGTTCAAAGGGCTGGTCCATCCACAGTCAGGAGCAGA
GGGCGAATGAAGTATACTCGACATTCCGTTCACTGTTTCCACTCGAATACAGCTCAGAACCCAATCCCAGAGAACGGTACCACCCACAGTGGTC
GAGGTCTTCCCACATCAATTGAGGCAGTCACTCACAGACATACCCACAGGCCAACGTGACCTAGACAATCTCTCATCAAGACTCTCTGCCCAGA
TGATTCTAGGTTGTGTCTAGTTGATAATTAATCTCACCATCATAGGTATTAGAGATAGATGTAAATANNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NN

TTCGGACTCCCTGCCTCAGCCTCACGAGGGCTGGAGTACAGTACCACAAGGGACTGTGCCTTTATTTGGGCAGGAGAAATTTGGACTCAGTAAA
ATAGTCCCAGAAGAAACCCAAAAGCTGGATGAGGTTGTTGGTCTACTAACCATGATGGATTAAATCCTCCTGGGTTTGTGTACCTGTGAGCTGT
CTTTATTTATTTCATTTGGTAAAGAAAGANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTAA
CCAGGTCACCTTCTCTCTGTCCCCTCTTTTCTGAAACATCTTATCTTTTAGCAGAGTGAAGAGCACAGGTGTGGAGAGAGAACTTTATCCATAA
CTAACCAGGCCATCTTAGCCGACTTTCCCAGTCCCCTGCTGCTTGAGGGAGTTCTAGTAGGCTGGTCAAAGTGTCCTTTACGTGTCCGCTGCTG
AAGTTCTGAGGAAGATTCTAGAAGCCAGATGTGGTGGCACAGACCTGTAGTCCCAGAGTTTGGGTAATGGCAAGAGGATCAATTCAAGGTCATC
CTCCTCAATAAAAATAGAGTTCAAGGTCATCTTGGACTATATGAGACCTCGGCTCAAAAAACAAACAGAAACACCTCTCCTTCCCCTCCCCCCC
CCCCCAAAGCAACAACAAAAAGAGAAGGTTCTGGGAGCCACACCTATCTCTCCCCCACTGTGCCACTAATAAACAAAACTAACCTGCCAGATCT
GGCTGTCTAAAAGGGTTCCTTTCAATGGAGCCTACCTCCAGCAGCATCCAGGAACACTTACCATACAGCCCCTGCTGTGTATGTATAATTACAA
TCCGAGGCAAAGTTTTCAGAGAGCCAGCATCTTGAGGGAGAATTCAGCGGGAGGTCTCGGTTTGGAAGAGGCCAGGGGTGTGAAAATGAGGGTG
TTAAAGGCTTTTGCAAAGGTAATGGGTTTTACATATGTGAGCCCAATAAGAAAGGCCTTGGAAGGGTGGCTCACCCTCATTCACGGCTACTTCC
TAGAACCTGCCGCAGTCCCCAGAATTATGTAGGCATTCGGGGACAGATGGGAAGACTTTCACACATGCTAATACACATTTTGACCTTGACTCTC
TAGGCATTCTCTTCTTCCTCGCTGGAGGTGAATGAGGGGTGTCATTTTCAATTTAGAGGGAAATGGAGACGCTTCCCCACAAACAAGCTTAAGG
GTTTAAGGATAAATCCCACCCTACTGAGAATGTGTGTTGAAAAAGGGCTTCACCCAGGGACCCAGGTTACTCCTGGAAAGTTTTGTGGGGCAAG
AGCATTTATTTTTAGCCCCACATTTAGGAAACAGACCTTTTAGCATGCTTGCCTAGACAGAAGTGAGACGCTGTGGGATGGGGAGGGAGGGAAA
TGTGCCCACGGCTGTGAGGAAAGAATACACGCACCCTGCTCTAGTCTAAATAAGATGTCGCGCTCTCTCTGTTCACGCCACCTCGTAAGTGAGG
CAAATGGGACACAAAGAGGCCAAATTAATGATGGCTTTCCTTGATGTCACCATCCGTAGGAACTCGAGGTATACAGAGCAGTCAGTGATTTGGG
CAAGGAAAGCAGCGGTCCGTAATTCAACCCTGGCTTCGGAAAGGCTTTTGTTGGGAACGGTGGGCGCGACTTTAGGGGACGTCCCTCCACGCGT
TTCACAATCCCTTCCGCGGTAGCAAGGATTCGCTAATTGTCTCGCGGGGGTGGCCCCACTCGGGCTCCGAGGCTGGGCGGTGCGGCTCCGCTTT
CTGCTTGGTCTCCGCGAGGTGTCGCCTTCGGCCGAAGAAAGCGGTAAGGCGCCACCCTCGTAGCCCGCACTTATTTATTTTCAAACAAGGGGGG
CGCCCCTTCCTTTCAATTTGAAACTAGAAACCTCCTGCGGTCTCGTTTCTACGTGGGCGCGTCCTCGGCCTCCCATTTTGCACTCCTGTGTCGC
CTTCCTTCGAGATCACACACGAACAGCCCCTCGACCAGGCCTTGTTCCACTTTAGCCTGGAGCTCATCTTTCACACAAACACACACTCGCGCGC
AGTCCACGCAGGGACTGGGCTAGAAACCTCTTTTCCCATTCCCAGAACACACCCAGCGACCTTTAAAAAAAAAAAAAACACGGAGTGCAGCGGGT
GCAAGCCAGGGGGTCCAAAAGGGAGGGGGAAGCACTCCTCGGGTTTCCCAGCTTTGCTGCTTGCAGTCTGAAAAACGAGAGGGGGGAGGGGGAG
AGAGAGGAGGGGAGGAGGGGGAGAGGAGAAGAGGGGAGGAGGGAAGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGTCGGAA
AAAAAAGAGAAAAGCAAATGGCTTTTGGCGCGAAAGGCTTTGGCGCCTCCCCTGATTTTTATGGAAATCAAGAGGCGGGGAAAAGCCTCTTGC
CTCTGCCTTTCTCCCTCCCCCTCGTCTGCGCCACAGCCCCCTTCTCTCCCCGCCCCCCGGGTGTGTCAGATTTTTTCAGTTAATAATATCCCCC
GAGCTTCAAAGCGCAGCCAGTGACAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCCCGCCGCCGCTCCCTCAGC
CCACCCGGAGACCCCAGCCCCGAGTCGCCTCCGGATCCCCGGCAGTCTGCGGGAGGTAAGAAGCGGTACTTGCGAAGCTTCGAGCGCCCGGGGA
ACGGCGGAGCGCTGCGGCTAGGCAAGCCCCTGGACGCGGCTCCGCACCCTGCACCCAAATATGCCGGGCTTTTCTGGGGGAGGGGGTAAGGGGG
CAACACACCGCGTCTGCTTCCGAAACAAAACCATCTGGGTTTTTTGTTTTTTTTTTTTTCCTGAAAAGCCTATTCAGCACCCGAAGGCACCCTG
GCTGGAAGAGACCCGCCCTAATCCCTTTTACAGCCCTGGCCCAGGCAGAGAAATAGCTTTAGCGAAAAGAAATTCGCCCGGCTCCACAAGATTT
GTCTGAGTGTGAGGTGACTGGGAACCGGTGCGTCCCCACCCCAAGCTGGGGTTCTCCAAAAGGTGCCGCGGGGAAAGAAGGAAAAGGGGTTAGG
CGAAGCTAGGTGCCTGAGTGATAATGTAGGTCACGGCTGCTCCGGCTTAGGAGACCGCGATTCTCGCCGGCGACCCTGCACCATTCCTAGGGATG
GGGTTCAGCCTTTCCCCCCGCCTGTTGAAGAGGTTGAGGTCTCTGAAGGAAGGGGAATGGAAAGGGTATAGGTATAGGCAGCGATGAGTACCAA
GGGTATCTGCCAAGATTGAGGCTCTAGGTCTAGGTGGAGAGGGTTGTATGTAATTGCCTGTTGTTGGTCTGACTGGAGAAAGGCCCTTAATAAT
TAATAAAGTTTCCTGAACCCCGTTAGCGTTTGCGCTCCCGTGATCGCATTTCTGCAAAAGGGGAATGAAAGGTACTTCAATCCCATGCCTGGTA
GCTGGGCTAGAGAGCAAGGACTTCCTTTAAGCAACTAGTGCAAGTGGGGTAGTCGCGCTATGAAGAGCTGAGATCTGCAGCTTGAACAGCCCCC
CTCCCCCAGGCAGTGCCTTGTGTGAATGAAACGGCAGTTTCCCAAAGTTGCAGAGAGCCACACCACCCCCTGNNNNNNNNNNNNNNNNNNNNN
*NNNNNNNNNNNNNNNNNNNN

GAGGAAATCGATGTGGTCACCGTAGAGAAGAGACGTTCCTCCTCTAACAACAAGGCGGTAACCACTTTCACGATCACTGTGCGTCCCAAGACCT
CCGCTCTGGGTCTGGGGCGAGCACAGCCTGGCGAGCTGATCCTCAAGCGCTGTGTTCCCATCCATCAGCAGCACAACTATGCTGCACCCTCACC
CTACGTGGAGAGCGAGGACGCGCCCCCGCAGAAAAAGATCAAGAGCGAGGCTTCTCCACGCCCCCTCAAAAGTGTTGTTCCAGCAAAAGCGAAG
AGCCTGAGCCCCCGAAACTCAGACTCGGAGGACAGCGAGCGCCGCCGCAACCACAACATCCTGGAGCGTCAGCGCCGGAACGACCTGCGCTCCA
GCTTCCTGACGCTCAGGGACCATGTGCCTGAGCTGGTGAAGAACGAGAAGGCCGCCAAGGTGGTCATCTTGAAAAAGGCCACCGAGTACGTGCA
CGCCCTACAGGCCAACGAGCACCAGCTCCTGCTGGAAAAGGAGAAACTGCAGGCGAGGCAGCAGCAGTTGCTAAAGAAGATCGAACACGCTCGG
ACTTGCTAAACGTTTCCCACACGGACAGTCACTGCCACTTTGCACATTTTGATTTTTTTTTTTTTTAAACAAACATTGTGTTGACATTAAGAAT
GTTGGTTTACTTTCAAATTGGTCCCCTGTCGAGTCTGGATCTGGGTAGGGGGCAGGACACGGGGTTCTGCCATGACCTTGGAAAAAAAACTGAC
TTATGGGATGCTGGGTGGCTTGTTTTCCTCCTCCATATCACCTGGTGACAGCCGTGGAAGTTCGGGACACTAAGGAGCTTCAGGAGGCTGTGAA
GTCACCTTGTTCCGGTCCAAGATTCCAAACAGAGTCATTCCTTCTTTTTACAATGGTGCTTAAGTTCCAGCAAATGCCACAGAAGGGGGGGGTT
GCCATTTGATGCCCCTGGGAACACTTGTGTAAATACCATTGATACACCCGCCTTTTGTATACGTCCTGGGTAATGAGAGGTGGCTCTTGCGGCC
AGTATTAGACTGGAAGTTCACACCTAAGTACTGTAAGAATACCTCAATGTTTGAGGGGCATGTTTTGTATACAAATATATTGTTAATCTGTTAT
GTACTGTACTAATTCCTACACGGCCTGTATACTTTAGTATGACGCTGATACATAACTAAATTTGATACTTATATTTTCGTATGAAAATGAGTTG
TGGAAGTTTTGAGTAGATATTACTTTATCACTTTTTGAACTAAGAAACTTTTGTAAAGAAATTTTACTATATATATATTCCTTTTTTTCCTA
GCCTGTTTCTTCCTTGTTTACTGTATTTGTTCATGTTTGGTGCATAGAACTGGGTAAAATGGCAAAGTTCTGTGTTTAATTTCTTCAAAATGTA
TATATTTAGTGCTGCACCTTAGAGCACTTTGAAATACCTCATGTTTATGAAAATAAATAGCAATTAAATGATGCAAGGCGATGTTTTCCTTCCT
AGCTTGGCTGCAGTCTCTGCACACAGTCCATTCCTTACCCGGACTTTTAACATTGTGGAATCCTGGTTAGGGAGGGTACTTGTAGAGGGATAAA
TGGGTTTGTGAATTCCACAGATTAGAACCAACTACTTTCAATAGGCAATCAATGGGTGTTAAAGCTCTTTCAAATATTTTGTTTTGGGTGTGAG
TGTGCCCACAATGTCACATCCCCTGCAACTGGAGTTCAAGTCTAGGAACAAGGCAGAGGCCCTGCGCAACAGTAACAAGTGACTCACCCCTGAG
CCATCTGTCACCCCTTCATTTTTGAGGCCTCTTTGGGTCTCTAGCTGGGATTATAGGTGTGTGCCCCCCATATCTAGTTACCAAAACACTTTCA
CATACTCGAACTCTCAAAGCATTTTAGATAGTGTAGATACCAGCCCAAAGTTTGGAATAAGCAGTAAAATTGGCAAGTTGTGCCGAAATTTACA
TAAACACTTGTCCTAGTTGTTTGGAAGGACTTGTTCCTGAAGATTCCCCCAGGAAGAGCTAGGTGTGGAAGCATATCTGATGCCTGCAGAGGTG
ACAAGAAAAATGTCACCTAGCCCTCTTAGCACAGCAAGCTTCTATATTGCAAGCCCAAGGCCGCAGAGTAACACTTAGTCCAAAAGAAATCTAG
GACCAGTATAATATTCTGGACTGAGCACTAGTGAAATAAGAGGATGGAGTCACTGTTCATCATTGATCTCGGTCACCAGCCTCAGCTCCAGTTC
CCAGAGTACTGAAGACCAAGAAGGGGAAGGAGAGCTGTCATTGGGTGGACTGTGGGGGTGCCTCAAGGAAGAATGAGCTACAGACCTTGGAGAA
GGCCAGAACTAAACATGAAGGAGGCTTCCCTCTATCTACTCAGGGAAAATTTTCTGGAAGTCTGAAGACCATCTACCTTACTTAAGAACAGGAC
TTCTATTTTTCTTTGGGGTAACAGACTACACACAGCATTTCCCTATGGTTTCATTCACTGCAGGTTTTTAACTTCAAGTTGAAAAAAAAAATGT
CTTCATGGAAAAATGCAGCCCAAGGGTCCAGACAGCTTTGCTTGTGTGGCTGTACTGTCAGGGACAGAGATCAGGCTGCGCAGGTGGTTGGCCA
GACAGGTAGAAGGTGAGCCATGGAGGTCCTTATTTGGGGTGACAGCTACAGATGCTGTCTTAACAGTTGCTGTTGGGTTGGTGGTACTGCCTGC
ATTCTCTGGTGATTTGACAAAGGTTGGAAAGTGGGCAAAATGCCCTTTACAAAATCCTATAACTCCCCAGTCCCAAACTAGCAAATAATAAGCC
ACTCTGAAGGTCCCATTCAAAAGAACTCATCTGTTGCATCTTGCAAGTCCTACGTAACAAGCCCATCACTGTATCAGTACATCTAGAAACCAAA
TGGAACTTAAAGATCTCAGGTTAATTGAGCACCTAAGAGTGTTGAAGCCTGCCGCAGTCAACTGAATTGCTCTGTTTCTCTTCTCCCAAAGGGG
ACCTGAAGTGTGACAGATGAGCTAGAATTCTACTGTGTAAGAAGAAATAGAACAGAGACCACTGAACTGAAATTTCTACCACATTCTTATTTTG
GTGACTACGGGGAAACTTGTAGATAATGCTCTCTTACATCTCCAGGACCCACTTCTGCCTCGAAAGCTCTGTTACTCTCTTGACATCAATCACA
TAACAACAACAAACTCTCTGCATTCGGTGGATCATAAATAAAAGAACATATATTGCTCTTCCAGTGGATCTGAGTTCAATTCCCAGCACCCAAG
TTAGGTGGCTAAGCTGCTTGTAACTAAGGCACCAGGGATTTGACATCTCTAGACTCCTGTGACTTACACTCGCATAGATACACACACACAATTT
AAATAAATACATTTAAAATAAATAAAAACACACTAAAAACTGTTAACACTTAGGTTAAGACACACTTTTGTTTCCTCATCTAGCTGGAGGAAAG
TGTTCCTACTGTAACTCTGCAGTTCTCTGTACAATAATTGGAAAAGAGAAGAATCCAAGCAGTTGTCTGAAAAACACAAGACTGAGATACTCAC
AGAAAGAAACTCTTTCTTAAAAGAGTAAACTGGCACTTCTGTGGAGTGTTCCACCATCTCTCAATCACTTCCTCTCACAGAATGCAGGTGGGGT
GTCCCTGGACTAACTTGGGGCACAGGACTGACATTGAGGCCTCGTGATCAGCCTGGTGGTATCTCGCAGGACTCCTGTAACCTATAGGCTGGCC
TCCACCTCAATATGTAGCTGAGGATGGTCTGAGCTCCTGGTCCTCCGACCTCCACATTCTGGATACTGGCTAACAAAGTGAGCCAATATACCTA
TGCATGTATTATGTAAGTGCTGGGGATAGAATCCAGGGTTTTGTGCATGATAAGCAAGCACTTCCTGAGCTATGTCACGTACCCTTGCTGATGG
AATTCCCTGGCTCTTTCCTCTCAACCAATGTTATTAACATAGGAACTAACATTTGTCAGGTGTTTCTGGTGCTTGGGAGAAATCAATGAAGAAC
AGCAACAACAACAAAAAAAAAACAAAATTGCCAACTGCACCCAATTCTTGTCTCCTTGTGGTTTATAATCTAGGAGACAATGGGAGTAAGAATA
TAAATAAGCAAAGCAAGCCAACAAATAGCACCAATGAGGTAGTGAGTAATTTATAAAAGAAGTGGACTGGTATAGAGGAATTCAAGATTGCCAC
CAGAGGGGATGGGGAGCCAGGCCAGTGCAGATGCACCTGGTCCTTGGACCTGTGGAGGAAAACGCAAGGTGACTGACAGGGCTGCTCAGCCACC
AGAGCAAGCTGCTCAGGTTCTCCATTTAGTCCGTCTCCCCTCCTCACACCCTGGACATGCGTGTTCCCTACTATGTCCTTTGCCTATCTGCTGA
AAGCGAAGCATCAAACTATGATGCAGCTGCAGTCTGATTCCCTGGGACTGAGTCCCACAGTTAACACAGTTCCTCATATTGTGGTGACCCCCAG
CCATAAAAGCATTTTTGTTGCTACTTCATAACTATGATTTTGCTACTGTTATGAATCGTAGTGTAAATATCTGATATGCAAGATATCTGATATG
AAACCCCAGTGAAAGGGCTGTTCAACCCCACAACTGTTTCCACCCACAGACTGAGAGTCTCTGCTACAGAGAAAGGTGTGTGTGTGTGGGGGGG
GGGGGGTTATTTGGTATCGACAGAATTGTTCCTTTGTTTCCTCTGTATTTTTCTAGGAAAAAAGGACTATTTAGAAAAATGAGCAGTAAAGCAA
ATATATAAGCCTGACCTCAATGAGAACTCTGCAGACTTTTGTTACCCCCAAAAGGCTTTATAAAACCTAAAAAACGGGCGCTTTGGAAAAGAGT
AAAGGTAAGCTCTGAAGCCTATTTTAAGACAGAGACAGATCCTAGGAACCTGAGTTCCACGGACCATCTATGCTTTCTACAATGGTTTATTAGT
TCTCCTTACTTGTAAAGGAAATCCCTTCATAGGCGACTGACCAAGGCCACCTGATCTCTCTTGATACTGACAGGTCATACTACAAGACATCCAT
CCTGAAACCTTTGACCAGAAGTAACAGAGCCTTGTTTATAGTGGAAGCATGGCGACTGGCTGGGACAGTGCATATTTGGGGAACACACACACAC
ACACACAGCCTAGGCTGCTTAGATGTGAAACGTAGGTGATTGGCGGGAGCATGTGTGCACTGAGCGGCAGCGTCCAGTGGACTTTCCTCTGCTA
TCTAGCAGGCCAGAGATTTTTTTCAGGCCTTAAGGGCTAACAGATCTTTTTTTAAGGATTATTTTTATTTTTATTCCTGTGTGTGTCTGTGTAC
CCAAATGTACCTTCAGATGCCAGAAGAAGGTATCAGATCTCCAGCAACTGAGTTAGAGGTAGTTGTGAGCCACTCAGTGTGGGGGTTGGGAATC
AAATCCAGGTCCCCAGGAAGAGCAACAAAGGCTCTTAACTGTTGAGCCCTCCATTTATGCCATAATCTTTTTAAGTTATTCATTCATTTATTCA
TTCGTCACTCAGTGGGGGGGGGGGGGGTGCATGCCACAGTGCATGTAGGTATAGAGGTCAGAGGGACAACCTGAGGGAGTCAGCTCTTTATTTC
CAGACCAGCTGGGCCTTAGGAGAGATCTTTGGCCATCAGGCTCAAGGGCAAGAGCCTGTTTTTTTTTTTTTTCGATGAGCCAACCATGTCAATG
GCCCCTGTTAGAGAATCTTTGAGAGGCAGGAAAGCAAGTAGAGGTCTTCTCTAAAGTTTTTCTGAAGTGAGAAAGAGAGTCAGAGATAGACACA
CACACACACACACACACACACACACGGAGAGACAGAGAGACAGAGATTCAATACTGAGAGTTGAACCCAGACTTTCACACATGCTG
GACAAGTGTTGACTACCACTTAGCTACACCCCAAGCTCTCCTTTTGCCTTGTATTTTGAGACAGGGTCTTACCAAGTTGTCAGGCTGGGCTTGC
ACTCCCTCTGTAGCTCAGATAGTCCTTGACCATGTTGTCCCCCTGTCTCAGGCCCTGTATAGCTGGGGTTGCAGACCTGACCCACCAGGTCTGT
GTATTTCGTGTGTCTTTGTTTTGTGTCTTAGGCTCCCTTTCATGAGATGATAGGACGAGGTGACACTGAGCGTTGCCTGGGAGACAGACTTTGT
GGGCCAGCAACCAGCCTTGANNNNNNNNNNNNNNNNNNNNNACCTCCCTGTTGGCTGTGAATATGTTTCCACTGACACCTTTGGGAGGTGATTTC
TCCAGGAGTGCGACCTCACTTGGTAATTCGCCTGGGTAACAAAGGTACCAGGCCTGTCTGTCACTGTTGCCCAACTTCCCACTGACCCTCCGGA
GTGGAGGCTGCTGCTGCCCTGTACCCTCACCACCCCACCGTCAGGTGCATAGCTGCTGATTCTGGTTGAGCAACCCCAGAGTATTGTTTCTTGG
GTATTGTGATGAATCACAAAGCAAAACAAGGCTGGGGAAAGGAAGTAGTACTTAGTCCAAGTTCAAAGTAAGCTGCTTTCATTGGAGGCAGTGA
CTACAGAGAGCAGGCTAACTGAGGTAGAAAACACCAGACAGCGCTTGGATGACTTAACAGTTAAGAGCACAGACTGCTCTTGTAGAGGAGCCAA
GTATGGCTCCCAGCACACACACTCAAGGGGATGGCTCACGACTGCCTAAAACTTCAGTTCCAGGGGGCTGACGCCCTCTTCTGGCTTTCATAGG
CATCTACATTCAAGTGCACACACACACACACACTTAAAAATAAAATAGAACTCTTAAGCCAGGGCTACACAGAGAAACCCTGTCTCGAAAAACA

AAACAAAACAAAACAAAACAAAACAAATCTCTTTTACTGGTGTTCTTTTTCCTTCTATTATCCAGGGTGACTGACCAACCCATCTTGGCTTTCA
AACTAAAGGACCTGGATCCTAGGGAACATTGAGGTCCCCTTACTCTGCCCTGCCACTCCTCCCCCCCCCCCCCCCGACAGTGTTTGCTTCTTC
ATTGTGCATCATAAATTGTACAGCCACCTTCTGCAGGTCAACCAACTCTGCCTTCTTTGAGGGTCAGCCAAATGATAGGGAAAGGAGTGATTGG
CCCACGCCAGGCCAGACTGGGAGGAACATGGACTTGGGGTTGGATAGCCCATAGATAAGAGATCTGGAAACCTTCCAAGGGTAATAAAAGGAGA
GAAATCTATTTTCCTTTTCAGAGACATTGAATGTGAAGCTGGTGGGTCTCACATAAATGTCAGGGACCAATTTAANNNNNNNNNNNNNNNNNNN
NTTAGGCTCCCTTTCATGAGATGATAGGACGAGGTGACACTGAGCGTTGCCTGGGAGACAGACTTTGTGGGCCAGCAACCAGCCTTGACTCCTC
TCGCTTGCTCACCTTCTTACTCTCCGGCCAGGAAAGTTTGTATCAGTTCCCCATCTGTGAGCAGAACAGGCTGGAGCTGGTGAGCTCAGAGACA
GGTGCAGCTTGCAGTCACTCATCCTGAGGAAGGGCTGCAGCCTTCAGCATCCCCACAAGATGCCAAGCACGGTGACACACGCTTTTAATCCCAG
CACTGAGAAGGGAAAGCCTAGCCTGGTCTACATAGCAAGTTTCAGGATAGCTAGGGCTACATATAGAGAACCTGTCTTAAAAATAAAAGATGAC
TAAAAGAGCTAGGGATGTAGATCAAGTGGTAATTTGTCTGGAGTGCAGCAAATATAAACGCCATATTGTGGTGCACTCAGGAAATCCTACATGT
AGGCAGAGGATCAGGCGTTCAAGGCCATCCTTGCCTACACAGCAAAATGAAGTCAGCCTGGACTATATATTTCAAAACAAAAACAAACAAAAAC
CAACTCAGATGTCGTCAGTGCTGGTAAACAGTGGCACTGTGGTTGGAAACTTGGGAACCTATCAGCTCTCTGCTGGTCACCTTCTCCAGAACTG
TCGTCATTCAGTGCATCCATCCCTCTGATGCACGCTGTCTTCCAGCCTAAAAGCGGGAGCTGGGGATGTTTTTCATCTGTGGAGTGTGGAAGCT
AGCTTGCAGGAGGGCCTGGGTTCAATCCCCAGTGTTGCAAATGTAAAATAAGAATCACAGCTGCAAGGTTCTTGCAAGGATCAAGTCATAAACC
ACTGGAGGGATGTGACAAACTTTGGAAACATGAGCGCCATCCATGAGGTCTTACTGCTGCCCGGACTCAGACCACACTTGAGCAGCCTCCCTCC
AGTCTACAGACTGCCATCTAGATTCGACCCTCAGGGTGTTTCCCCAGGCAACAAACTCCTTTCCTTGTGTAGCAGGCTTCCTCTGGTTGATCCC
TTGTACCTAGAATAGGGCTTTGCTTGGCAGTCTAGATGTTATTTTCATAGGGAAAACCTGGCTATTTTCTTCAAGCCAGCTAGAGCCATGATTC
CTGCAAACGAACTGGGTACTCTGGCTGGTCTCTGCTGAAACTAGAGAGAAGTATGATTAATCCATTGTTGAAATTGGTTACTCAAATGAAAACA
GAACATGGTAACAGACATTTCATACCTTGAGTCTTTGCTTGGGTTATGCTAGTCACTTCTTTTTGGCACAAAACAAGAAAGAACAAGGGCTTTA
AACCAAGAGTAGATACAAGTTTGCTCTTTTCTTTTTTTCCAGAGCAACTGAGCTATAGTAAAGAAAAAGAAACCCCCCAAAGAGTGGGAAAGCAC
GAAGGAAAGAACACCCCAGGTTTAACTGCATGGGTTGAAAAAAAATTCTTTATCACCTGGCATGGTGGTGCATCTCTACATTCCCAGCACTCGG
AAGAAGCAGAGGATTGTTCAGACTGACTGGTCCAGGTACGGTCTAGGCCAGGTGGGGCTACTATATACTGAGACTTTGTCTCCAACAAAACAAA
ATAAGAAAGGAAATCTTTCCCACCCTGTGGTGGGTCCTACTTCTGAATTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTCTT
TCTTGCTTGCTTGCTTGCTTGCTTGCTTGCTTTCTTGCTTCCATCCTTCCATCCTTCCTTCCTTCCTGTCTNNNNNNNNNNNNNNNNNNNN
*NNNNNNNNNNNNNNNNNNNN

TTCTCTCTTGGTTTGCCTATTGGTTGTAGAGTTGGAGGTTGGCGCGACTCTGCTGCTCTCCACGGGGAGGAAGCACTCCCCCATATTAAAAAGA
GCGGAGATATTAAAAAGAGAGGCGAACCCATGCCCAGCTGCACCGCGTCCACCATGCCGGGGATGATCTGCAAGAACCCAGACCTCGAGTTTGA
CTCACTGCAGCCCTGCCTCCACCCGGACGAAGATGACTTCCACTTCGGCGGTCCCGACTCGACCCCACCGGGGGAGGACATCTGGAAGAAGTTT
GAGCTGCTGCCCACGCCCCCGTTGTCGCCCAGCCGCGCCTTCCCAGAGCACAGCCCGGAGCCTTCGAATTGGGCTACGGAGATGCTGCTGCCGG
AGGCCGACCTGTGGGGCAACCCGGCCGAGGAGGATGCGTTCGGTCTCGGGGGCCTGGGTGGCCTCACTCCTAATCCGGTCATCCTTCAGGACTG
CATGTGGAGCGGCTTCTCTGCCCGCGAGAAGCTAGAGCGCGCAGTGAACGAAAAACTACAGCACGGCCACGGGCCCCCGGGCGTCAGCTCAGCC
TGCTCGGCTCCCGGAGTGGGTGCCAGCAGCCCCGGGGGCCGTGCCCTTGGTGGGTCGTCGAGTGCTAGCCACACCGGGGCCACCCTGCCTACCG
ACCTCTCCCACCCGGCTGCCGAATGTGTGGACCCCGCCGTGGTCTTCCCCTTCCCGGTGAACAAGCGAGAGTCGGCGTCGGTGCCCGCTGCCCC
CACTAGCGCCCCGGCGACCAGCGCTGCGGTCACTAGTGTGTCTGTTCCAGCTACTGCCCCGGTGGCTGCTCCTGCTCGTGCAGGCGGCCGTCCT
GCCAGCAGTGGGGGGACCAAGGCCCTCAGCACCTCCGGAGAGGATACCTTGAGCGACTCAGGTAAAGCCTAGAGTAGAGTTCTTGCTAGCTCCT
TACGGACTGGGAAGGTGGGGGTGCTGCGTTCCCTTTGTTATCATAGATTTGTGCGGGTGATTCTCTTCAGTTCACCAGCCTCCCGGGACAGAAG
AGGCTGGAAACACCAGCTACACCTTCTCTTAAATTTGCCATCCCCTTTTTCGCGAATCCTTGCGGTAGGCATGCCCTCACTGTGGCAAAAGTTG
GTGGCCAGCTCAGTCAGTCTGTGGAGTCCAAAAAACTACCTGTACGGAAATCTGTTAGTCCGTTGGAAAGGAACCTTTAAGCCANGTCAAGGAA
GGGAAAAGACTCCCTGCAAGCGAGGGCTGCAGAATCCCACTTGCAAAAGTTAAGAGAATGCCTTGCAATTCCTCCCTCCCCTCCCCTTGGTTCA
GCAGCTGTCAGCAAGTGCATTAGTGGTTGTGTACGTTTTCAGAGAGCCTCTTTCCGGTTTTGATTGAGTACTAGTCCCGTTGTGTTTCCTAGCT
GGAATTTCTGACCTAATTGAGCTGAGTTGTGTTCCATAACCCATTGCCCTTGAAGGTCGAGGGCGGGTCCCTACCACTGCCGCTCCTAAGGAAT
GCACGCACCCTTAGGATTCATTGGTTCTATTGTAAGCCTTTATCTGCGCTGTCCTCGGAAGAAAGGGTTAAAAAGAAGAAGAAGAAAGCTTTTT
TTTTCCATGGCCATGGGGCTGTGAAAGTGCCTACCACACTTTACCCAAATCCAGTCTGCCCTTGTCCTTCGAGCTGTAGGTCCAGCCCCCCTAT
TAGACCTTGGAAGCCAGTGTTTTCAAAATGCCAAAGAATAAAAAGTCTAAATTTCCTCCTGGACTGTGGAGGGATCGCTCAAGGCTCCTNGGAG
GAAACTTGGTGATAAGCCTGCACTTTGAAAGGGCTCTGTCCCTTTAATGTCTGTGCCTTGACAGCTTTCTGTTAGGAAGCAGTTCCTTCCGGCA
GCTGTCTTCTTGGCTGAAAACCAAAACACTGGCTTAAAGGGACCTACCGGCTGGAGCAGCCTAACATTTCATTCAGCCTTAGAAGAAGAAACCT
CACAATTGTTCCGCTTTCCGGTCCTCCCTAGATTAAGCAGACGATGTGTTTTGGTTTTGCTGCTTGCTTTTATTTTCTTCTTTTAAGCCATAAT
TTTCTCTCCTAGCCTAGCAGTAAACGAAGTCAGAATGAATACACATAGGACGATACAGGCTTTTTTTTTTTTTTTCTCGTGCACCGCCCCCTT
TGGGACTCTGAGCTACTGTGGATTAGAGCTTTGTGGTTGAGATCTGGTCTCTGCCTAGATGAAAACTGCTTACTCCGTACAACGCATGTTCGCA
CGAGGAAAGGTTGTTGTCGTAGTGAATGAGATTGTCCTAGAGTTTTAAGGATGGCAGAATCAAACCCAGCCATGGGTTTTACCAAAGGAGGACC
TCCGGTCTGAAGGGCGGCTGTGGAAGTGTGTATAAGTAAATCCATGGGGCAGACTGGCTGGTGATTATGCTAAAAGCCCCTATTACCGAGCATC
TGTCGCCAAGTCTACATAGTGTCTGCCAAACTCAAACACTGTGGTTATTACCCCCATTTAATAGCTGAGGACACTGAAGAGTTTTTCCAGGATC
ATCCGACAACGGCTCGTTCTGACTCCAGTTGGGTTCCTCGATCGAGTTTCTGCCACATCCTCAAGTTTGTCACCAGGGGTTGAATCCTGGGCCC
TTCCACATCAGACAAGTGCCCTGCTGGCCCCACACCACCCAGGGAAGGAAAGGGGTGGGGCGTACCTCTTGTCCGCGTTGTGATCAGCAAACCT
AGCTGACTTAAATAACAAGTGTATGTTAATCGCACAATTAACCAGAAACTATTTTTCCCCTCAGATGATGAGGATGACGAGGAGGAAGATGAAG
AGGAGGAAATCGATGTGGTCACCGTAGAGAAGAGACGTTCCTCCTCTAACAACAAGGCTGTAACCACTTTCACGATCACTGTGCGTCCCAAGAC
CTCCGCTCTGGGTCTGGGGCGAGCACAGCTTGGCGAGCTGATCCTCAAGCGCTGTGTTCCCATCCATCAGCAGCACAACTATGCTGCACCCTCA
CCCTACGTGGAGAGCGAGGACGCGCCCCCGCAGAAAAAGATCAAGAGCGAGGCTTCTCCACGCCCCCTCAAAAGTGTTGTTCCAGCAAAAGCGA
AGAGCCTGAGCCCCCGAAACTCAGACTCGGAGGACAGCGAGCGCCGCCGCAACCACAACATCCTGGAGCGTCAGCGCCGGAACGACCTGCGCTC
CAGCTTCCTGACGCTCAGGGACCATGTGCCTGAGCTGGTGAAGAACGAGAAGGCCGCCAAGGTGGTCATCTTGAAAAGGCCACCGAGTACGTG
CACGCCCTACAGGCCAACGAGCACCAGCTCCTGCTGGAAAAGGAGAAACTGCAGGCGAGGCAGCAGCAGTTGCTAAAGAAGATCGAACACGCTC
GGACTTGCTAAACGTTTCCCACACGGACAGTCACTGCCACTTTGCACATTTTGATTTTTTTTTTTTTAAACAAACATTGTGTTGACATTAAGAA
TGTTGGTTTACTTTCAAATTGGTCCCCTGTCGAGTCTGGATCTGGGTAGGGGGCAGGACACGGGGTTCTGCCATGACCTTGGAAAAAAAACTGA
CTCACGGGATGCTGGGTGGCTTGTTTTCCTCCTCCATATCACCTGGTGACAGCCGTGGAAGTTCGGGACACTAAGGAGCTTCAGGAGGCTGTGA
AGTCACCTTGTTCCGGTCCAAGATTCCAAACAGAGTCATTCCTTCTTTTTACAATGGTGCTTAAGTTCCAGCAAATGCCACAGAAGGGGGGGTT
GCCATTTGATGCCCTTGGGAACACTTGTGAAATACCATTGATACACCCGCCTTTGTATACGTCTGGGGTAATGAGAGGTGGCTCTTGCGGCCAG
TATTAGACTGGAGTTCACACCTAAGTACTGTAAGAATACCTCAATGTTTGAGGGGGATGTTTTGTATACAAAATATATTGTTAATCTGTTATGT
ACTGTACTAATTCCTCACGGCCTGTATACTTTTGTATGCGCTGATACATAACTAAATTTGATACTTATATTTTCGTATGAAATTGAGTTGTGGA
AGTTTTGAGGTAGATATTACTTTACACTTTTTAACTATAAACTTTTGTAATAAATTTTACTATATATATATATTCCTTTTTTTCCTAGCCTGTT
TCTTCCTTGTTTACTGTATTTGTTCATGTTTGGTGACATTAACTGTGTAAAATGTCAAAGTTCTGTGTTTAATTTCTTCAAAATGTATATATTT
AGTGCTGCACCTTATGAGCACTTTGAATACCTCATGTTTATAAAATAAATAGCAATTAAATAATGCAAGGTTGATGTTTTCCTTCCTAGTTTGG
CTGCAGTCTCTGCACACAGTCCATTCCTTACCCGGACTTTTAACATTGTGGAATCCTAGTTGGTGAGGGTACTTGTGGAAGGATAGATGGGTTT
GTGAATTC

MOUSE SEQUENCE - CODING

ATGCCCAGCTGCACCGCGTCCACCATGCCGGGGATGATCTGCAAGAACCCAGACCTCGAGTTTGACTCACTGCAGCCCTGCTTCTACCCGGACG
AAGATGACTTCTACTTCGGCGGTCCCGACTCGACCCCACCGGGGGAGGACATCTGGAAGAAGTTTGAGCTGCTGCCCACGCCCCCGTTGTCGCC
CAGCCGCGCCTTCCCAGAGCACAGCCCGGAGCCTTCGAATTGGGCTACGGAGATGCTGCTGCCGGAGGCCGACCTGTGGGGCAACCCGGCCGAG
GAGGATGCGTTCGGTCTCGGGGGCCTGGGTGGCCTCACTCCTAATCCGGTCATCCTTCAGGACTGCATGTGGAGCGGCTTCTCTGCCCGTGAGA
AGCTAGAGCGCGCAGTGAACGAAAAACTACAGCACGGCCACGGGCCCCCGGGCGTCAGCTCAGCCTGCTCGGCTCCCGGAGTGGGTGCCAGCAG
CCCCGGGGGCCGTGCCCTTGGTGGGTCGTCGAGTGCTAGCCACACCGGGGCCACCCTGCCTACCGACCTCTCCCACCCGGCTGCCGAATGTGTG
GACCCCGCCGTGGTCTTCCCCTTCCCGGTGAACAAGCGAGAGTCGGCGTCGGTGCCCGCTGCCCCCACTAGCGCCCCGGCGACCAGCGCTGCGG
TCACTAGTGTGTCTGTTCCAGCTACTGCCCCGGTGGCTGCTCCTGCTCGTGCAGGCGGCCGTCCTGCCAGCAGTGGGGAGGCCAAGGCCCTCAG
CACCTCCGGAGAGGATACCTTGAGCGACTCAGATGATGAGGATGACGAGGAGGAAGATCGATGTGGTCACCGTAGAGAAG
AGACGTTCCTCCTCTAACAACAAGGCGGTAACCACTTTCACGATCACTGTGCGTCCCAAGACCTCCGCTCTGGGTCTGGGGCGAGCACAGCCTG
GCGAGCTGATCCTCAAGCGCTGTGTTCCCATCCATCAGCAGCACAACTATGCTGCACCCTCACCCTACGTGGAGAGCGAGGACGCGCCCCCGCA
GAAAAAGATCAAGAGCGAGGCTTCTCCACGCCCCCTCAAAAGTGTTGTTCCAGCAAAAGCGAAGAGCCTGAGCCCCCGAAACTCAGACTCGGAG
GACAGCGAGCGCCGCCGCAACCACAACATCCTGGAGCGTGAGCGCCGGAACGACCTGCGCTCCAGCTTCCTGACGCTCAGGGACCATGTGCCTG
AGCTGGTGAAGAACGAGAAGGCCGCCAAGGTGGTCATCTTGAAAAAGGCCACCGAGTACGTGCACGCCCTACAGGCCAACGAGCACCAGCTCCT
GCTGGAAAAGGAGAAACTGCAGGCGAGGCAGCAGCAGTTGCTAAAGAAGATCGAACACGCTCGGACTTGCTAA

HUMAN SEQUENCE - GENOMIC

TACAGATATCTTTCCCTTATGGAATAAAAGCAGGGATAGGGCTCATTATTCCGATATTATGAACCAGGAGAAGTTAATGGACCGATCTAAAATT
CCTCAAGAAGTAAGACACAATTCTAAGCTTGAAGAACTCCAGTCCTCTCCCCGGGTGACCCTGTGTTCTTACTAGGACTACCTTATACTACCTT
GACTCTGCAGTACCTTCTTTCAAGCCTAAAGTTACTTGATTACGGACAAGCCATGAAGAGTAAAGGGGTGTGGCCCAGAGAGATTTCCAGTTGA
AGAAAGAATGATTCAACAGTCCCATTAAAACAAAGAGACATTTTCTGCAGGCTCCCCCAGGACACACATGCTATGGTCTATTGCTGCGGGGTAC
ATGGAGCCCCTGCAGGAGGGCTGGGACTAGAAGGAAGGGAGGGAACGTTTACTGGACATCCATTATAAGCCAGATGGCTACTTTGTGTAATCCT
CACATGATACTAAAAGAAAGATGAAAAAATGGCCGGGTGTGGTGGCTCATGCCTGTCATCTCAGCACTTTGGGAGGCCGAGGCGGATGGATCAC

TTGAGGCCAGGAGTTTGAGACCAGCCAAGCCAACATGGTGAAGCCCCTTTTCTACTAAAAATACAAAAAAAAAAATTAGCTGGGCACGGTGGCT
CGAGCCTGTAATCCCAGCTACTTACGATGCTAAGGCACAAGAATCGCTTGAACCCGGTAGGCGGGGGTTGCAGTGAGCCGAGATGGTGCCACTG
CACTCCAGCCTGGGCAACAGAGTGAGATTCTCTCAAAAAAAAGAAAAAAAAGAAAGAAAGCAAGAAAGATGGAGAAATAAAGCCTCAGAAAAGT
TGGACTATCCAACATAGCAGAACTCGCTGTCATGTCTGGTGTCAGAGCTGTTCTTTCCAGCATTCGCTGCACCAGATGCTGTAGAAGATGGAAA
GGCAACATGGGAAAGGGTGCTGCACTCAGGAACTGCTCATCCTGTTAGGGGAGTCGCACACACACACAGGAATCTGATAAAGAACCCCCATGGC
CGGGCACGGTGACTCACACCTGTAATCCCAGCTCTTTGAGAGGCCGAGGCGTGAGGTCGCCTGAGGTCAGGAGTTCGAGACAAGCCTGTCCAAC
ATGGAGAAAGCTAAAAATACAAAAATTAGCCGGGCGTGGTGGCACGCACCTGTATTCCCAGCTACTCAGGAGGCTGAGGCACGAGAATCGCTTG
AACCTGGGAGGAGGAGGTTGCAGTGAGCAGAGACTGCACCACTGCACTGCAGCCTGGGAGACAAGAGTTAAAAATAATAATAAAAATTAAAAAA
GAACCCCCTTGTTGGCGGCAAGCAGTATAAGATTAATGGAGATTTGGGGCAGAGAATGGGTAGGGTTAGGGGAAGGGAGGACGAGATTCCTTCC
AGGACAGTCTCCAGCTGAACTTTGAGGAAAGAATTTGAATAAGCAGAAATGAAAGGAAAAGCCTTTCTAGGCCAGAAGTAGCAGCTTCTGGAAA
TGAGCAGATAGAATCACTGATATTTATCAGTGATTGTTATCTGAGTCCAAGGAAACTGAAAGGGCCAGCAGGCAGATTCTAGCAATTCCACTCA
GATATTGAGGTAGCTCGGGCCGTCCATGGGGCTACAGGAATGTATCCAGCATTATAGGAAAATGAAATTAGCAAGAATCAGTGGGTGAGATCAG
CCATCTACTAAGTAATCACCTGAGGAGAAGATCTGAAAACTTCAGCACAGCGCGAGGTGATCTGGACACATCCAAAGCACGTCATTGTGTCTGG
AAAGTAATCCCAGAAAAAGGAGACCCCTGTCCTTCGTAGAGAGCCTGCCTGTTTCAAGGGGCAGCGCCAAATGGACTCAAAGGCCAGATCTGGC
ATCAGAATTCCTTGTAGCCCTTACAGATTCCTACTAAGATGAGGATCCCCTAATTGTGAGCCATTCCAGTGCACTGACAAATTCAAGTTTGAGG
CCCACAAGGGGAAACCTATTTCTCCCCAAACCCCATACCTGTGGAGCCTGGCCCTGAGCAGCTGCCTCCAGGGACATCTTTCCCATTTTGACTT
TTAGCATAAGGAAACTAAGGGAAATGAGAATTCCAACTCCACAGCAGCAGTATCACCGTCCATTCCCCGTAGCTCTTCATGGTTTGCAGTGCAT
TTTGACTCACTCCATCTTAGCCCTCTCTCAAGTCTACGTAATGCATGAAGCTGGAGGGAAGTCTTCACAGTGGAAGGGGTCTTTGAGCTGCCTC
CAAGGATGCAAAACTAGTCTCTGAGGGCAGTCCAGGGTCTGCTGGACACTTCGATTTTCTAAATCAGTAATCAAATTACTGGCATTAAATGAAG
ATAATTTTTGTTTTAAACCTAATTATGCTATTACAAATAAAACTTCCCACCTCCAAAACTCTCTCAGTGGTGGATCTCAAACTCTCCTCCAGCC
TCAGATGTCAAAAAACTATGCATTTTGCCTTGGGCACATCCAACATCATATACGTTGAATGGCTTTGATGGGCATGATTCTAATCTTAATTAAA
GCAGTGCCCGTTTTGGTCCATCTTGGTCTCTTTGAACCCACTCTCAGCTGACTCAGTTCAATAGCAGTTTGGTGGGAAAAATGCCAACTGGCCT
GGGAAACAAAGGAGAAATTTGGGGGTGACTTTAGGCTTCACAAAAGGGTCCCTTACATCACTTGAAATGATTAACTTTACTGAAAAGTAACAAA
ATTATTTTTGAAAAATAACAAAAACAAAGAAATTAAATTTGTTCATAACCCCATTGCTTTAAAAAAAAAAAAAAAGTTATAGGCCAGGCACAGT
GGCTCACGCCTGTAATCCTAGCACTTTGGGAGGCGGAGGTGGGTGGATCACTTGAGGTCAGGGGCTCGAAACCAGCCTGGCCAACACGGTGAAA
CCCTGTCTCTACTAAAAATACAAAAGTTAGCCTGGTGTGGTGGCATGTGCCTGTAATTCCAGCTACCAGGGAGGCTGAGGCAGGAGAATCACTT
GAACCAGGGAGGTGGAGGCTGCAGTGAGCCGAGACCGTGCCATTGCACTCCAGCCCGGGCAATAAGGCGAGACCCCATCTCAAAAAAAAAAAAA
AAAATTAATTAGGCATAGTGGCGGGTGCCTATAATCTCAGCTACTGGGGAGGCTGAGGCACAAGAATCACTTGAACCCGGGAGGCAGAGGTTGC
AGTGAGCCGGGATCACGCCACTGCACTCCAGCCTGGATGACAGAGCGAAACTGTCTCAAAAAAAATAAAATAAATAAATAAAAGTTATATCAAG
AAGAAAGTTTCTCCCTCCACCTGACTGATTGTCTTCTTCAAAGTAAACCCCTGTTAGCAACTTGGTGCACATTCTTCTCAATTTGTTACTGGGG
GGTTGATGCAGATATATCTAAGTACATATATATCCAAAATGCCAGACAGATTGACCTATACCTTGCTTATTTTCCTTCATGTTCAGGAACATTT
CCCGTCTGTAACTATAGACCTAACACATTATTTTTAGTGGGTGTATGTAATTCCACTGCATGGATGTATTACATACCATTCTCCTGTTTAATTT
GTTTTAGTTATGGATATTTAGATTGCTTATAGTATTTTTGTTATTGAGAATGATGCAGCCACACACATTCTTGTTTATATGCTTTTATGTGTTT
GTCTTATTATTTCTCGTAGGATGGATCATGAAGAGTGGAATTGCTTTTCCTCTTGGGGCAGGCACACCAACAGTGTATGTGAGGCCCCTGCTCC
CACTCCCCAGGCTGGCCAGTACTTTGGGCCAATCTGCTAGACCCAAAAATGTTAATCTCACTGAGATTTAATTTGCATTCCCCTGACTACCGGT
GAAGTTGAGCATCTTTTCATATGTTTATTGACAATTTGCATTTCTTATTCAGTAAATTACCTGCTCGTATCCTAGAGTCATATTTCTGTCTGCC
CCTTTTTTTCTATTCAATTTGTGGGAGCTCTTTGTATACCTGGGATCTAATCTTTGACTCATATATATGGCAAGTATTTTCTATTACTGTTGTC
AACTTTTTATCATAGTAAAATTCTTACATCCAGCACCCCACCCCTCCCCTGCCCTTTTTTTTTTTTGCATTTGGGTTAGGCAGAGGTTGC
AGCTTTACTGTTTTCCAAATGAAGTCAATCGATCCCAAGGATTTTAAATTATTTAATCAGTAAAAATGTACACATTTTGAGGGAGGTGTGAAG
ATCCTAGGAGAAACTGTGCTCTTGTCCCTGAAGACAGACTCAGTAGATCTTTTTTTTTTTTCTTTTGAGACAAGGTCTCACTCTGTCATCCAGG
CTGGAGTGCAGTGGTGTGATGATGGCACACTGCAGCCTTGATCTCCCTGGGCTCAGGTGATCTTCCTGCCTCAGCCTCCCAAGTAGCTGGGACC
ACAGGCACGCACCCACCACGCCCAGCTAATTTTTATATTTTTTGTAGAGACAGGGTTTCACCATGTTGCCCAGGCCGGTCTCAAAATCCTGGGC
TCAAGCCATCTGCCCTCCTCAGACTCTTGAAGTGCCAGGATTACAGGCGTGAGCCACCATGCCTGGCCAACCCAGCAGATCTTTAATTCACAAT
CTGGAAAAACCATCTAGAGGCTGTTGCTCTCCTAGCCAGTCATGATTTGGGCCCTTCTCAACATGTGTATGTGTGTGTTGTTTCTTTGTGTGTG
TGTGTCTTAGTAAAGAGGAGATTTGTAAACTAAAATATTCTCCTCTCTCAAAAATCACCTTAATTATAAACCAAATGCTGTGTATAACTCTATC
CTAGCAGTTGGTGATTAGATTGAGGCATCCATTTCAGATGTGGGTCTCCTTCCCTGGTCCACAGTGAGCTCCTTGCGGCTGTACCTTAACTTAC
CTCTGTTCCAAACCCACCCAGGGGCTCAGACACAGTAATAGATGGGTACTTGTCTCAGTTCATTTTGTGTTGCTATAACCTAATAGCACAGACT
GGGTAACTTATAAAGAAAAGAAATGTATTTCTCATGTTTCTGGAGGCTGAGAAGTCCAATATCAAGGTGCCAGCAATTGCTGAGGGCCTTCATG
GTGTACCATCCCCTGGCAGGAAAAAGGAAGAGAGGGCAAGAGATCAAACTCCTAGCCTCAAGCCCTTTTATAATTAGCATTAATCCATTCACAA
GAGTGGAGCCCTCATGACCTAAACACCTCACATTAGGTCCTGAGACAGGAATAATATAAGGTGGCTGCAGAATAATAGAAGATTTTGGGCAGCA
ATTTCACATGACTAGCAAAAGGAAACTGTTGAAATGGCTGCAGAGGCCATGGGCTAAGACCGTGAAAAACAGAGTGTAGACCAAGCTGGCTAAG
ACCCACTGAACCCAGCATGGCACTGGATTTGACCTAGGTTTCTCCTAGGACCTCATTATACGCTCATTAACATACTAAATCACACACCCCACTA
GCATCATGACACTTCCGAGAACACCCATATTTGGTTTAAAAATAGGTGGTGTCACAGTTCTGAGAAATCTCCTCCTTTTTCTAGGAATGATCAT
GAATATTCCGCCTCTTGGTTAAAGAAACCCGTAAAGGTAGCAACCCCAAACCCCCTTTCGTGTGAGTCTCTCGAGTACACCCATATTCCCTTTT
CTTGAGTGTGTACTTTTCCCTTTGCAATAAATCGTACTTTCACTATTTTCCAACTGGTCTTTGAATTCATTCTCTTGATGGTGTCAAGAGCCTG
GACACTGGCTGGGGTCTAGGTCCCACTGGCATTTGGGGACCTCCCCTCCAACACTGTTGCACTGGGGGTTAAACTTCCAACGTGTTTTTTTTTG
GAGGACACATTCAAACCATGGCAGTACTGAACAAAACCTTGGCTTTGAAACCATATGAAGATTTGTTTTGTGTGTGTTCACATAGTTGAAGTAT
TTCAACATTTTTAAGAGGGATTTTCAGGCTTCTCTATAAGCAGACTAAGAATCAGCATTAGCATGTTTTCTCCATGTACAAAGTCTTTTATCTT
TCTACTTACAAATGAAGGTAACCAATAAATATTTGTTGAATTTTATCATTCTGTTAACCTTCAGATTCAGACTTGTCAGTAATTACTGGCTTGC
ATTAAAAGCAGGAGATTAGAGATTGAGGTCCAGGAAGTATAAATGATTTGCTCAAAGGCATGTAGAGTAACCAGGTCTCCTGTCCCTCTGTCCC
CCTTTTCTGCTACACCTTGTCCCTCGACAAAGGGTGAATGACCTAGTGATGGTCATTCATCTGAGGAGAAAGGACAAAGGTAGGACTTTGAATC
GGAGCAACTGAACCCATCCTGGCCTATTTTCACAGTCTTGCCACAGAAGATCTGGCCACCTTAGAAGGACTCATTCAGTGATCTTGGTCTTGAA
TAATACCATGAGTACTTACTATATACAGGTACACTGCTGTGCCGTAAGGATTCCCTCTGGAGCAAAACTGACCCAGGTCACAGGTTAGTGAGGG
AGACTGAGCCTGTCTTCCACAGTGTCACGGAAGTGAGCACTAAACAAATACTCCCAGGCATGGATCATTACAAATGGAGGTGAGTGCTGGACAG
GAAAGGACAGGATGCTAGGCGAGAATTCAGCAGGAGGGCTTGGTGGCGATTAGGGGGCTAGGGAAAAGCAGAAGTGGGGCTGTAAAAGGCTTTT
GCAAAGATGAAGGCTTTTACATTTGTGAGGGAAATAACAATAATAAAGGTGCTTGGAAGGGCTGCTCATCCGCATTCATGGGCCTCTTCCTAGA
ACTCTGGGAATCTTTCTCCCTAGAGCTCTGTAGGCGTCCAGGGTCAGGGCTGGAAAGGCCTTCACAAATGCTAATCTGTGAGCATTTTATGGGT
TGCCCCCTGACCCTCAGCATCCTCCTCCTTAACTAGATCCAATGGTGAGGTGAAGAGGTGGGGGCGATGGAGAATGGCATTTCCAGTTTGGAGA
AAAAAGTAGGGAGAGGCGGGGAAGCCTTCCCACCCCAATCCCAGGGCCAGGTTCCCCTCTCTCCAAACAAGCCTAAGGAATGTTTTTCAAGGCA
AAATCCCACCTCACTGTGTATTTGGTTGTGAAGGGGGCTGTCCAGGAGATCAGGGTTGTTTTTGGAGAGGTTGGAGGGCAGGGGCAATAATGTC
TGACCCCCTGCAAACAAATACACCTGTAAGAAAAGCTAGACCAGAGTGAAGTAAAGCCAGGATTTGATGGTGGCGGGAAGGGAAGGGGCCAATG
CTGCTGCTGGACAGAGGGGTGTTATTTTCCCCAGAAGAATAGCATGTCGTGGTCATCATCATAATAATAGCTGACACAACTATTATGGGCTGGG
GACTTATAAGAGCTTTCATAACTCTCAGGTAGGAGGCACTACGAACTCCATTTCACAATTGAGGAAACTGAGGCACAAAGAAACGAAGTAGTGA

CAGCAGCTTTCCTTTTTCCCTTCAACAGTTTGGAATCAAGCTGTTTGAGCCGAGGCTGGGTCTCAGGAGGTGTGGACAGCACTTCCATCTCGGT
AAATCAGATTCGCCTGCCCATAATTGGGGAGAATGGTGGCTTTGAAAAGGTTAACTTGGGAGCCCTGGGGACGGCTGCAGGGAACGTACGCCCA
TTCCCCCTAGGAAGCAGAGCCAGGCCGCCTCCTCCTCCGCAGTGGTGAGGACGCGTGGACAGTCCCGCGGGGGCGGCGGGAGACCTGCGGAGTG
GCCGCACTCCAGGTCCGCGCCAAGGCCGGGCAGCTCCGCTTTCTGCTCAGTCTCCGCGAGGTGTCGCCTTCGGCCGAAGAAACCACCGCGGCGC
CACCCTCGTAGCTCGCACTTATTTATTTATTTATTTTCAAACAAGGGGGGCGCCCCTCTTCTTTCAATTTGAAACTGGAAACATCCAGAGGTCT
TGTTCCTAAGGGGGCGCGTCCTCTCCCTGCTATTTTGCACCTTCGGACTAGCCTTCTTTTCGTAATTACACAGGAGCAACCTCCCTGCAAGGCCT
TGCTCAACGTTGGCCTCGCGCTCAGCTGCACAACACGCAGTCAAAGCGGGGGCTGGGTTAGAAGCATCGGTCTCCCCTCCCCAACACACACCC
CGGAGCCCTCCGTAATTTTTTTTTCTTTTAATGACAAGCAATTGCCAGGCTCGCAGGGTGGGTGCTGCATTGCACCGCTCCGCGCGCAGCTGGT
TCTCAGAGTGCAGCCGGTGCAAGCCCGGGGGTCCAAAAGGGCGGGAGGAGCACACCCTGGGCTTCCCAGCTTTGCAGCCTTCTCTCTGCAAAGA
AAAGCAAGTGGCTTTTGGCGCGAAAGCCTTGGCGCCTCCCCTGATTTTTATGGAAATCAGGAGGGCGGGGTAAAGCCGCTTTCCTCTCCTTTCT
CCCTCCCCCTTGTCTGCGCCACAGCCCCCTTCTCTCCCCGCCCCCCGGGTGTGTCAGATTTTTCAGTTAATAATATCCCCCGAGCTTCAAAGCG
CAGGCTGTGACAGTCATCTGTCTGGACGCGCTGGGTGGATGCGGGGGGCTCCTGGGAACTGTGTTGGAGCCGAGCAAGCGCTAGCCAGGCGCAA
GCGCGCACAGACTGTAGCCATCCGAGGACACCCCCGCCCCCCCGGCCCACCCGGAGACACCCGCGCAGAATCGCCTCCGGATCCCCTGCAGTCG
GCGGGAGGTAAGGAGCAGGGCTTGCAAACCGCCCGGCGCCCAGGGAAGCGACGAGCGCCGGGGCAAGGCAAGCCCTGGACGGGATTGCGACGTG
CGCACCGGGCGCCCTAATATGCCCGGGGGACTGTTTCTGCTTCCGAAACAAAACCATCTCTGGGTTTTCCCAGAAAAGCCAGTTCCAGCCCCGA
AGGCATCCTGGCTAGAGGAGACCCGCCCTAATCCTTTTGCAGCCCTTACCGGGGGGAGTAATGGCTTCTGCGAAAAGAAATTCCCTCGGCTCTA
GAAGATCTGTCTGTGTTTGAGCTGTCGGAGAGCCGGTGCGTCCCCACCCCAGGCTGGGGTTCTTCTCCAAAGGGTGCCCCTGGAGGAAGAAGAG
GGGGGGATTAGGCAGGGCGAGGCCGCCGCGGTCGCAATCTGGGTCACGGCTGCTCCAGCTTGGAGGAGAGGCGGCTCTCCCGGCGACCCTCCTC
GCGCGGGCGCCCCTGCCATTCCCGGGAACAGGGGCTCAGCCTCTCCCTCCCTGGAAGAGGACGTTGTCGTGGGTTTGGAAGAGCAGGGGTGGGC
TTAGAGAGCTTCCAATTAAGCTATTGGCAGGAGTATCCCTGCAGCGGGTGAATGCCGAGGGGCGTTTGCTCAAATTTGGGGAGGGGAAGGATTT
GTGGATATGGGTGTCTGTTGTTGGTCTCTGTCTAGAGAAAGGCTTTTTTTTATTTGCAAAGTTTTCTAAATCCCCTGCTATCATTTGCACTCCT
GAGGTTGCATTTTTACAAAGGGGGTAGAAGGTACTCCAAATACCATTCCCGGTAGCTGGGTCGGAGAGCCTGGGGCTTCCCCTGAGCAGCCGGC
CCCACACCGCTGCGAGTGCGGTTGTCTGCGTGCTCGTGAGAGCTAGAATTCTGCAGCCAGGAACAGCCCCCTCCCCCAGGCAGTGCCTTGTGTG
AATGAAATGGCAGTTTCCAAAGTTGCGGAGCCTCGCCACCACACCCCCTGCATCTGCATGCCCCCTCCCACCCCCTGTCGTAGACAGCTTGTACAC
AAAAGGAGGGCGGGAGGGAGGGAGCGAGAGGCACAACTTCCTCCACCTTCGGGAGCAGTGGGCAGAGTGGGGGGCTTGGAGGGAAGATTGGGGA
ACCTGGTTAGAGGGGGCGCCCATTGCCTATCCCCTCGGTCTGCCCCGTTTGCCCACCCTCTCCGGTGTGTCTGTCGGTTGCAGTGTTGGAGGTC
GGCGCCGGCCCCCGCCTTCCGCGCCCCCCACGGGAAGGAAGCACCCCCGGTATTAAAACGAACGGGGCGGAAAGAAGCCCTCAGTCGCCGGCCG
GGAGGCGAGCCGATGCCGAGCTGCTCCACGTCCACCATGCCGGGCATGATCTGCAAGAACCCAGACCTCGAGTTTGACTCGCTACAGCCCTGCT
TCTACCCGGACGAAGATGACTTCTACTTCGGCGGCCCCGACTCGACCCCCCCGGGGGAGGACATCTGGAAGAAGTTTGAGCTGCTGCCCACGCC
CCCGCTGTCGCCCAGCCGTGGCTTCGCGGAGCACAGCTCCGAGCCCCCGAGCTGGGTCACGGAGATGCTGCTTGAGAACGAGCTGTGGGGCAGC
CCGGCCGAGGAGGACGCGTTCGGCCTGGGGGGACTGGGTGGCCTCACCCCCAACCCGGTCATCCTCCAGGACTGCATGTGGAGCGGCTTCTCCG
CCCGCGAGAAGCTGGAGCGCGCCGTGAGCGAGAAGCTGCAGCACGGCCGCGGGCCGCCAACCGCCGGTTCCACCGCCCAGTCCCCGGGAGCCGG
CGCCGCCAGCCCTGCGGGTCGCGGGCACGGCGGGGCTGCGGGAGCCGGCCGCGCCGGGGCCGCCCTGCCCGCCGAGCTCGCCCACCCGGCCGCC
GAGTGCGTGGATCCCGCCGTGGTCTTCCCCTTTCCCGTGAACAAGCGCGAGCCAGCGCCCGTGCCCGCAGCCCCGGCCAGTGCCCCGGCGGCGG
GCCCTGCGGTCGCCTCGGGGGCGGGTATTGCCGCCCCAGCCGGGGCCCCGGGGGTCGCCCCTCCGCGCCCAGGCGGCCGCCAGACCAGCGGCGG
CGACCACAAGGCCCTCAGTACCTCCGGAGAGGACACCCTGAGCGATTCAGGTAAAGACCGAACTCGGGTCCGGCTGCCTCCCTGGGGCACTGGA
CCCCGGGTCGCGTCCCCTTTGTTAGTGCTCGTATGTCTTGGCCTGGGGAGCATTTTGGAGGCAGTGCTAGGGGCAGAGAGGTCCTGTTTCCCCC
AAGTCTCTCCTCGGGGTAAAGAGAAGGGGCTGAGAGAATGCCGTTGCAAAAGGGGTGCTCTCCAATTCTCGCCTTCACTAAAGTTCCTTCCACC
CTCTCCTGGGGAGCCCTCCTCTAGGCCATCACGGGCCCTCACCCGGTCCCCCACCTCTCTTTTGCAGCGCAGTCTGAGGAATAAAATTGGAGAA
AGTTGGTGGCTAAACCGGGTGGGGGTTTAGGGGGTTGCTGGGTGCACTGCCTGGACAGAAACCTGTTAGCGCAGGGGTGAAAGGGACTCTCTGG
CCCAGGTCAGGGGAGGGAAAGACATCCCGAGAAGATTCAAGGGCTGTGCAAAGCCCTGTTTAAGGCGCAGGAACTTATAGGAGGGTTGCACAGA
TGGCTAGAGCCGATTTTCTATTCTTTTTCTTTTTCTTTTTTTTTTTTTTCAAATGTCGGTACCTTTCCCTTCCCCATCCTCGGTGGGTGGTG
GGCTATTTGCTCCTGGTGCGTGGCCAGCAGGCGGCGATATGCGAGGCCAGCAGGCGGGCCCGGGATCTGAAAGGCTGGGGGTGGTGGGGGCACC
CTCCCTCCCTCCATTCAGCAGCTGGCTGCAAGTGCAACAGCAGTTGTGTACATTCTCAGGGGGCCTCCTCTTTCCAGTGTGCAGTGGAAACTGG
CTGTAGTTTTGTCTTCCAGCCTGAATTCCAGGCCTAATTTGAGATGTGAGTTGTATCTGTAACCCAGTGCCCTTGAAGGTGAGGGCAGGCACTC
AGCAGCCTCTCCAGGAAGGCTCACATCCTGGGAGGACTCACTGATTAGTTCTATTGTGTTCATTTGTCTGTGTCTTAAGCTGAAGGGAAGAGTT
AAAACCAAGCCTTTCCCTGGGGGTCTGGATGAACAGAACTCAACCCAAAGAGTGGCATTGCCTTGTCCTTGGAGCAGGGAGCTGGGACCCCCCT
TGGACTTTGAAAACCAGTGTTTTCAGAATGCAGGTGGATAACAAGCCTAAATTTACTTCTGGGCTGAGGAGAGATCTTTGAGGCTCCTGGAAGG
AAACTTGGTGATAAGCCTCCAGTTTGAAACGGCTCTGTCCCTTTAATGTCTGTGCCTTGACAGCTTTTGGTGAGGAAGCACTTCCTTCCAACAG
CTGTCTTCTTGGCAGAAAACCAAAACATTGGCTTAAAGGGACCCACAGACTGGAACAGCCTCACATTTCGGCTTTAGAACAAATCCCACAATTG
TTCAGCTTTCCGGTCCCCTTCAGATCAAGCAGAAGATATGTTTTGATTTTCATGCTTGTATTTTAAACAATAATTTTCTACCCCAGCGTGGTAG
TCAATGAGGAGAGAGGGGAAGAATGCGCACATGATGCTACAACGTTTCTGTTGTTGCTGTTATTATTGGTGGCTTTGAGGAGAGCTGCTCCCATT
TGGGGGTTTATACCAACTGTGGATTATGGCTTTGTCATTAAGATTTGATCTTTGTTAAATGAAAAACTGTTTATTGTATAAAACTCAGGTTTGT
GGACGAAAAGTTGTTTTTTTTCTTCAGTTAATTAAATTGTTCCTCAAGTTTGTTTAAGGACTTAAAATCAAACACAACCATGTGTAAACTGCTA
AATGAGGCTCCTAAAATGAGAGGCCTCAACTCTTTAAGTGTGGAGCTAGAAATGTAAATAAGTCCACAGGGCAGACTGGTGATTATGATAAAAG
CTACCATTTACTGAGCATCTGTCTACTAGGCTCAGCTCTATGCTAAGTCTACATGTTATCTGTCAAAGTGGTATCATCCCCATTTAATAGCTGA
GGAAACAGAGGCTTAGAAAGGCTGGGTAACTTGACCAGGGTCATGCAACTAGTCTGCGGTGGAGCCAGGATTCTGTCTGACCCTAAAGGCCAAG
TTCTTTATATTTATTTCTACCACCTGCTAAAGTCTTGAATGGAGGCTGAAAGCACAGTTGGGGTATGGGGAAGAAAAATATATATACATACATA
TATGTATATGTATGTATGTATGTATGGGGGGTTGTTTTGTTTTTGTTTTTGATAAGGAGTTTTGCTCTTGTTGCCCAGGCTGGAGTGCAGTGGT
ATGATCTGGGCTCACTGCAACCTCCGCCTCCCGGGTTCAAGTCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACCGGAGCATGCCACC
ACACCCAGCAAAGTTTTGTATTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGATCTTGAACTCCTCATCTCAGGTGATCTGCCCGC
CTCCGCTTCCCAAAGTGCTGGGATTACAGGTGTGAGTCACCGCGTCCGGCCTACAGATATATTTAATTTAAAGAGATCTAAAACAAATACAAAA
CTGTCCACATCTATGTTGATGGACCCATAAAAATAGCAGTCTGCCAGGGTCTGCCGGAAGAGACAGATAAGCATACATATTAACATGGATATAT
ATGTGAATTTCATTCAAATGGTTCTCACATGAGAGTAACTAGCATCTTTCTCTCAGATGATGAAGATGATGAAGAGGAAGATGAAGAGGAAGAA
ATCGACGTGGTCACTGTGGAGAAGCGGCGTTCCTCCTCCAACACCAAGGCTGTCACCACATTCACCATCACTGTGCGTCCCAAGAACGCAGCCC
TGGGTCCCGGGAGGGCTCAGTCCAGCGAGCTGATCCTCAAACGATGCCTTCCCATCCACCAGCAGCACAACTATGCCGCCCCCTCTCCCTACGT
GGAGAGTGAGGATGCACCCCCACAGAAGAAGATAAAGAGCGAGGCGTCCCCACGTCCGCTCAAGAGTGTCATCCCCCCAAAGGCTAAGAGCTTG
AGCCCCCGAAACTCTGACTCGGAGGACAGTGAGCGTCGCAGAAACCACAACATCCTGGAGCGCCAGCGCCGCAACGACCTTCGGTCCAGCTTTC
TCACGCTCAGGGACCACGTGCCGGAGTTGGTAAAGAATGAGAAGGCCGCCAAGGTGGTCATTTTGAAAAAGGCCACTGAGTATGTCCACTCCCT
CCAGGCCGAGGAGCACCAGCTTTTGCTGGAAAAGGAAAAATTGCAGGCAAGACAGCAGCAGTTGCTAAAGAAAATTGAACACGCTCGGACTTGC
TAGACGCTTCTCAAAACTGGACAGTCACTGCCACTTTGCACATTTTGATTTTTTTTTTAAACAAACATTGTGTTGACATTAAGAATGTTGGTTT
ACTTTCAAATCGGTCCCCTGTCGAGTTCGGCTCTGGGTGGGCAGTAGGACCACCAGTGTGGGGTTCTGCTGGGACCTTGGAGAGCCTGCATCCC
AGGATGCTGGGTGGCCCTGCAGCCTCCTCCACCTCACCTCCATGACAGCGCTAAACGTTGGTGACGGTTGGGAGCCTCTGGGGCTGTTGAAGTC

ACCTTGTGTGTTCCAAGTTTCCAAACAACAGAAAGTCATTCCTTCTTTTTAAAATGGTGCTTAAGTTCCAGCAGATGCCACATAAGGGGTTTGC
CATTTGATACCCCTGGGGAACATTTCTGTAAATACCATTGACACATCCGCCTTTTGTATACATCCTGGGTAATGAGAGGTGGCTTTTGCGGCCA
GTATTAGACTGGAAGTTCATACCTAAGTACTGTAATAATACCTCAATGTTTGAGGAGCATGTTTTGTATACAAATATATTGTTAATCTCTGTTA
TGTACTGTACTAATTCTTACACTGCCTGTATACTTTAGTATGACGCTGATACATAACTAAATTTGATACTTATATTTTCGTATGAAAATGAGTT
GTGAAAGTTTTGAGTAGATATTACTTTATCACTTTTTGAACTAAGAAACTTTTGTAAAGAAATTTACTATATATATATGCCTTTTTCCTAGCCT
GTTTCTTCCTGTTAATGTATTTGTTCATGTTTGGTGCATAGAACTGGGTAAATGCAAAGTTCTGTGTTTAATTTCTTCAAAATGTATATATTTA
GTGCTGCATCTTATAGCACTTTGAAATACCTCATGTTTATGAAAATAAATAGCTTAAAATTAAATGATGCAACTCAACCTTTTCCTTAATGGCA
TTACACTCTGTCCCTTAAGGAGCAACCATAAATAATCCATAACCTATAGAGGGAATTTGGTTTCCGTAAATAGCCCTTTTTGCACCTGTACAAT
CCTGGTTGGGGGGCATGAGTCATTGTCCCCACTTAAGGTGGAGGGAACTGAGTTTGGGGAAATTAAGGCAGTTCTCCAAGATTATGCAGAATAG
AGATGTTATTAGCGACTATTGTGTGCATTGTAGCAATGGCATTTGATAATTTACAGAGCACTTCTGTATACTGTGGCTCCTTAGTGGAATTAAG
CTGAGACCTCAGATCAGTCCCTTTAAAAGAAAAGTAAAAATAGCCACAGGGTTGTTTAACTCGCTTGTATTGGGCTTTGGTAGTATTCGTCCCA
TTGGCAGACAGTCTTCTATTTTAAGGTAGAGCATAGTTTGTCTCCAAGAATTCATTGTTAAAAACATTCACTAGGATCTGTGGAGGTTCTAGGC
TAAGCAGAGTAAGCAGAATAAACAGATGGAAATGGGTTCCTCCCTTCAATGAACTCAACCTGATTCACCAAAGTGTAATTCACGAGTGACAGTT
ACGTAGTCCAGAGCAAGTACCAGGTGCAGGAGAGACCCTGGGGTCACAATGGAGACCCCATATGGGTGGCATGGCTCTCTACTTGCCATTCCTA
TTACACAGCAGTGTCTTGGCTACTTGGGCTGCCCTTTGGAAATGGGATCAATCTTGCAGGCTCCAGAAGACAGAGCCAAGACTTGTGTGTTAAG
GAGATAGTTTACCTGTTGGGACATAAGAGCCTTGCTTGTAAGCAGCTTCTCAGAACTAAAAGTGTACAAATAACCTATTTCTCTTTTGAGTGTC
AGGTTGTACTCGGTTATTTCTCTAGGGTTTTGTTCATCTCAGATTTTTAACTGTGAGCCGAAAAAAAAGAAAAAGGCCTTTTGCTTCACTGAGA
AGAAAGCAGGTCCAGAGATGAGACAGCTTTGCTTGCCTGGACACACAGTTTGTCAGGGGCAGAGATGGGAGACACCAAGCCATGTGTCCTTGTC
TGCTTTGGTCATTTTTATTTGTTTCTTTTGAGATGGAGTCTCACTCTGGTGCCCAGGCTAGAGTGCAGTGGTGCAATCTCGGCTCACTGCAACT
TCCGCCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGTGTGTGCCACCATGCCCGGCTAATTTTTTGCAG
TTTTAGTAGAGACCAAGTTTCACCATGTTAGCCAGGATGGTCTCGATCTCCTGACCTTGTGATCCACCTACCTCGACCTCCCAAAGTTCTGGAA
TTGCAGGCGTGAACCACCATGCCCAGCCGCTTTGGTCATTTTATAAAGGCAAGTAGGAGTTTAGAACTCAGTCCTCCTTATCCTGCTTATCGCA
CACCCTTGAGATACGAGGTTGGTGATACTACCATGGACATCTTTCTGATGGTCTCGCCATGTAGAAAATAAGATAAAATGCCCTTTAATTCTCC
TAGTCCCCATCCCCAGACTAAAAAATAATGCACCCTTTCTTTTTGAATTGTCATTCAAAAAACTTCCGTTCGTTTGCATTTTACAGGCCCCAAA
TCACTCACGGCCTCTGCCCCTGTGTGTGTGCAAGAGCCAAAAGAAAGTTAAGCAACCTCACATTAATTGTGTACCTAAGATTCTTGAAGCCCAG
CTCAGTCATCCCAGTTTCTCTATTTGTGATTACCATAAGGAACCTACCTGAGTGTGTCCAATGAAATGGAATGCTTAACCGTGAAGAAAGAAAA
CTGTTCATATGAATGAGGCCACTAAACTACAATTCCTACTATGCTCTCTTTTTGCTCGGGCTGCTGGGAAGCTCAGAGCCAAATTCCACCCCCT
CTAACATCTCCAGTGGTCATTCTCTTCTAAATGTTTACGGTTTCTTGTTTTCCATTGTTAGGTTAGTCATCTTTTTAATGTATATAATGTAGTA
TATAACATGAAACGTTTTTGCATTAGGTGGACCACAAATATGCACCTAAAGGATTAAAACTAAAGTGAAAAAATCCCATATTTGCCTTTTCTGA
CCTAGCTGAGGGAATGTCACCAAATTTAGCTCTGCAATTATCTATAAAGTAATTGCTGTAGTCACAGAAGAATTGAACTAGTTGTTTCAATAAC
ATGAGAAACCATCTCTGCATTCCAAGAGCAGTTTTGAGACTGGGAAAGAGCTCTACATCATTTAGTTCAATAAACGATAGAGCTGAGACGAAGC
ACAGAGATCATCTCATTGAAATTCATTTCTCAGAATGAGGGTGCGGGATCCCACCTGGAATTAATGGCTTAACCCAGGGAGACTAGAGCCGGTG
TCTCCTATGACCCGCCCAGTGCCCTTCCCCATAACATTCACTTTCTCATTGCCCACACTGTAGCCTCCCCACCTCCTGGCCTGCCCGTCCACCT
ACATCATGCTTCCATATTAACCCTTCTAAACCACCTACTCTTTATGCAAACTTCCAACAGTTCCCTACTATTTACAGAATCGAGTCCCGACTCT
CCAGCCCAGCACAGAGGCACTTCTACCCAGTCCCACCAGCTCCATTGCCCATGGCCCTCCATGTGCTGGACTCTGGCTGTTTCTCATCCGTGAC
TTGTTTCACCACATCCCTCCTTCTAGGTTACCCAGATTCCATTAATTGAAATCCTTCTCAATCTTGCACCCCCAGGTAGGCCTTTCCCAGCCCT
TGGCCTCTGTGCACTTATCTTCTAGCTGCCTTATGCACCTCCTGGACCCCCTAAACTGTGGGCTCCCTTAAGGCAGATAGGGCTCTCATTTGCC
TCTGATTCTGAGCATCTGCCCTGTGACTGACAGGTGACAGAGCCTTAGCAGATGCCAGCAGTATAGACGGTAACAGAGGAAGGAGCGAGGAGAG
GATTTCCATTATGGGTGGGTCTCCCACCAACTCCAGTTCACAAGCTCTCAGGCTAATTCAGATGGGAAAAGACATCCCTTAGACATCAATGAGT
GTCTGGTACTGACTATGCTGGCAGTTCTGAAGAAGTGAAGATAAAATGCTCATAGAGGACTGTCTACAAGGAGCCCACAGTCTGCAAGAGAGTT
AAAGCCCTGGGGGTTGTATAGAAGGCAAGAAGAGAAACCAAGAGGCACTGGGTTGAGGGGCTGATGAATGAAATGCATATGAGGGGCCTAGTGGC
TGAGTTTGGGGCTATCTGAAGGAGGAAGCTGGTCCTCTGCCTGGGTTCACTGAGTCTACGCCTGGCCTGGCTTGTGGCAGCTCAGACACTTGCC
TCAGGCCACAGATGGTCTACACTCGTAGTGAAAAAGGTTGCAATGCCTCCCACCCCTGTGTAGCACTGCAGAGCTTCCCAAGTTTTTGTATGCA
TGAGTCTCAAAAATCCTTGAGGATTTTTGACCAGTTTATCACATTCCCACATTATAAGTGAGGGAATCTGGTCTTCTGAGTTTTAGTTTCATTA
ATCCCTATGGTGGCTATGTTTTGAAATTCTGATGTGAGTTGTTTTCGAAATCAGAGGTTGTTTGATTTGGAAGAGGCATAGAAGCCAACTAGTT
TACTCTCCCATTTCAGGGGAGGCACCTACAGTCTGCTTGTGAGAATTTTATTTTTCCTTTATTTTATTTTTCTTTTTTTTTGCAACAGGGTCTTG
CCGTGTTGCCTAGCCTGGCGTGGAGTGGCTAATCTCAGGCACAGTGCCACTGCTGATCAGCACAGGAGTTTTGACCTGCTCCATTTCTGACCTG
GGCCAGCCAGTTCATACTTCCTTAGGAAACCTGGTGGTCCCCTACTCCCAGGAGTTGCCATATTGATGCTAAACTTAGTGTGGACATCCAGTAG
GCATAGGGTGCTACAGCTCAGAACTTCTGGACTCAAGTGATCCTCCTGCATCAGCTTCCTGAGTAACTCGGACAACAGGTGCACACACACTGCC
GTGCCTGGAAGCGTTCTTTTTTCTTTTTTTCTTTCCCTCTTTCCCATTCTTTCTCTCAACAAATATTTATTTAACAGTTACCATGTATCAAGCA
CTGTTCTAAGTGCTTGGGAGACATCAATGAACAAAAAAGACAAAACTCTCCCAAATCTTCTCTGCTTTCTTGAAGTTTATAGTGTAACAGAGAG
TGACAGCTGTACAAATAAACATAATAAGCAAATAAATTAAACAGCATCTAATATGGTGGCAAATGCCGTAAAAAATAAGTAGAAAGGCTAGAGG
AATTCAGGGATGCCAACAGCAGAGGTAGGAGGCTCAGGGAAGGCGCATCTGGTCCTGGGAGCTGAGGGGCAGGGCCTGTGGGGAGAGTGTCCTG
CCCTGGGCACTCTTGTGCTTGCTCAGAAACCAGATCTCAGGCCTCAAGCTTCTCGGTTCAGTGCTTAACTTCCCTTATCTCTGGCTGGGCGTGG
TGGCTCACGCCTGTAATCCCAGCACTTTGGGAAGCCAAGGCAAGTGGATCGCAAGGTCAGGGGTTTGAGATCAGCCTGACCAACATGGTGAAAC
CCCATCTCTACTAAAAATACAAAAATTAGCTGGGCATGGTGGCTGGTGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTGCTTG
AACCTGGGAGACGGAGGTTGTAGTGAGCCGAGATCACACCACTGCACTCCAGCCTGGGTGATAGAGCGAGACTCCGTCTCAAAAAATAATAATA
AAAAATAAAAAATCTTCCCTTATCTCCCTCTGGACATTGGTAAATGTACCCCACCAATTTCCATTCATTGTCTCGAGGAGAAACCATTGAGCAT
AGTAGTTAAGAGTATGAATCTGGGCTGGGCATGGTGGCTCATGCCTGTAATCCCAGTACTTTGGGAGGCCAAGGCAGGTGGATCACCTGAGGTC
AGGAGTTCAAGACCAGCCTGACCAACATGATGAAACCCCATCTCTACTAAAAATACAAAAAAATTAGCCAGGTGTGGTTGCGGGCACCTGTAAT
CCCAGCTACTCGGGAGGCTAAGGCAGGAGAATTGCTTAAACCCAGGAGGCGGAGGTTGCAGTAGGCCAAGAGCGCGCCATTGCACTGCACCCTG
GGTGACAGAGCAAAACTCCGTCTCAAAACAAAGAGTATGAATCTGAAGTTAAGACTCCCTGGGTTTGGCCGGGTGCGGTGGCTCACGCCTGTAA
TCTCAGCACTTTGGGAGGCCGAGGCAGGGAGATCACCTGAGGTTGGGAGTTCAAGACCAGCCTGACCAACATGGAGAAACCCCGTCTCTACTAA
AAATACAAAATTAGCCAGGTGTGGTGGCTCATGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTGCTTGAACCCGGAAGGCAGA
AGTTGCGGTGAGCCAAGATCATGCCATTGCACGCCAGCCTGGGCAACAAGAGTAAAACTCCATCTCAAAGAAAAAAAAAAAAAGTTAAAGACTC
CCTGGGCTTGAATTTGATTCCCAAACTCACAGGCTCTGGGTTGTGCAGCTCCCCAACTGGTACAACGAGGGGATAACACTGGGATTATTAGCGG
GTTGGCATCATTATTATTAATATGTTTTAAAATGGTCTCACTCTGATTGCCCAGATTGGAGTGCAGTGGCCTGATCTCGGCTCACTGCAGCCTC
GACCTCCTGGGCTCAGGCGTTTCTCCCACATCAGCCTCCCAAGTAGCTGAGACTACAGGCGCATACTACCATACCCAACAAATTTTTTCCATTT
TTAGTGGAATGGGGTTTTACTGTGTTGCCCAGGCTGGTCTCGAACTCCTGACTTCAAGTGATCCTCCTACCTTTGCCTCCCAAAGTGCTGGGAT
GACAGACACAAGCCACTGCACCCCGCCTTCAATTGATTTATATACAGCACATAGAATAGTGTCTGGCATGTGACAGGTGTGGTTTAAGCCTGCT
CAATAATATGATTTGATGTTGATGGGGTCTTTCCTCTCTCTATTTCCTCAGTATGTTACCAGGGCAAAGAACCTTTAGAAAAAAACATTTACCG
GTAGAACAAATTCACAAGCCTGAGTTTAACAAGAACTTTGCAGACTTTTGTTCCTCAAAAGAGGCCTTACAAAACCTGAAAACGGGTACCTTGG
AAACAAATGAATGTGAGCTTTGAAGCCTATTTTAAGACGGAGCCTAGGAATTTGAGTGCCGCAGAACATCTACGCCTTCTACAATGGTTTATTA

GTTTTCCTTACTTGTAAAGGAAATCTCTTCATAGGCCACTGACCAGGGTTACCTGATCTCTTTTGATATTGGTGTATCAAGCTACAAGACATTC
ATCCTGAAACCTTTGACCAGGAGAGGTAACAGAGCCTTTTTATGGTCGAAGCACACAGACCTATTGGTACAATGCACGTTTGGAGAGCACACAC
AGCACAAACTCCTCTGATAGCTACAGACAATTTGCAATGGGATTTGCTCGGAAGAGGCAACACAAAATCAACTTTTCTCTGCATTCCAGTGGGC
CTGAGATTCTCAGCAGACCTTTGAGGTAGGGTGGGGGAAACAGGCCCACTCTTTCACAAAGCTTGACATCAGTTGAATTTTGTGTGTTCTTGTT
TTGTGGCTCAGGCTATCTTCAGCCATCTTCCTGAGAGAGGACAAAAGAGCAGTCCCTCCACTGGAAAAATGTTGTTCCAGGTTCACTGGGAGGC
AATCCTGAGTCACAGAAACACTTAGTTTGGAAGAAGCCCCTGGATTGGGTCTTAGATCAGTTATTGACTATTTTCAACCTTGAAATAGGAAAGT
AACTTCTTGTTGCTCAGTTTCCTTGTCTATAAGTAGAATGGGCTGAAGTCAGTGATCTCTGGGGCTCCCTGTCAACTTTGAGGATCCAGAGTCA
TTGGTCCTTTGCAATGGCTGCAGCTTTAAAGGTGGCTGCAAGACTGCAGTGTCTGTCAACACCCTCTGGTTGGAAGATGTGCCCTGTCAAGTTC
ATATGATGGAAATTTAATCCCCAATGCAATAGTGTTGGGAGGTGGGTACTAATAAGAGATGATCAGATCATGAGGGCTCCGCCCTCTCAAATGG
ATTAATGTGCTTACTGGGGGAGTGGATTAGTGACCTTGAAACCGCCATTACAAAATTGTAACTGAGACAGTGAAAGAGCTGACCTAACCAACTC
CATCTTGTTTCTAACCTCCAAGCTGTCCTTGTTCTTTGCTGGGCGTAGGCTGAACTAACTTTGGGAGGAACTTAGTTTGTAGATTAGCCCTTTC
CCAAAACAAACCTCCTTCTTGCCTGGGGACTAGACTGCCTTTGTGGGACTAACACCAGCCACAAGATTAGAAATTATGGTTTAGGAGCCATGCA
GCTGGAGGCTACAAGATTCCGACCCTCCCTAAACTGCTCCTAAGATCAGTGCTTGAGATATTCTGCAGACCCTGCACTTGATGATCAGCTGGCA
CCACCCAGATTGATAAACTGGCTCATCTGATCCTGTGGCCCCCACCTAGGAACTGACTCAGCACAAGATGATAGCTTCGACTCCCTATGATTTC
ATCTCTGACCAATTAGCACTCCTGGCTCACTGAATTCCCCACACTCACCAAGTTGTCCTTAAAAACTCTGATCCCCAAATGCTTGAGGAGACTG
ATTTGAGTAATAAGAAAGCTCTGGTCTCCCGCACAGCTGGCTCTGCATGAATTACTCTTTCTCTATTGCAATTTCCCTGTCTTTATAAATTGGC
TGTGTCTAAACAGCAGACAAGGTGAACCCACTGGGTGGTTACAACCTCAGGAGTGAGTGGGCTTATTATGAAAGCGAGTTAAGCAGCCTTTCTC
TCTCTCTCTCTCTTGCATCCTCTTCCTCTTCCACCTCAAGCTATGGAGTGACACAGTAAGAAGGCCCTTGCCAGGTGCAGGTCTCCCGACCTTG
GATTTCTCAGTCTCCAGAACTGTAAGAAATAAATTTCTTGGCCGGGCGCGGTGGCTCACGCCTGTAATCCTACCACTTTGGGAGGCTGAGACAG
GTGGATCACCTGTGGTCGGGAATTCATGACCAGCCTGACCAACATGGAGAAACCCCGTCTCTACTAAAACTACAAAATTAGCTGGGAGTGATGG
TGCATGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAAACCGGGAGGCGGAGGTTGCGGCGAGCTGAGATCGCGCCAT
TGCACTCCAGCCTAGGCAACAAGAGCGAAACTCCGTCCCAAAAAAAGAAATAAAAATAAAAATAAAAATAAAAATAAATAAATTTCTTTCCTT
TATAAATTACCCAGTCCGTGTCATTCTATTACAACAGCAGGGAAGAGACTCAGATAGGAGCCCTGGGGCATCTGGCTCTGCAATTCACCAA
CTCCATGGCTGAGGGTCAGTCACTTCCCTCTGAATCTCACTGTCTCTCTCTAAAACAACAAGAATAATCACCACCTCACCAGGTTCTCATAAGG
ACCAAATGACGTATAGGAGGGAGGTGCTAGCACTTGAAGATGGGGCAATCTTTTAAGAACCCTCATTGCCCTCGATATTGACACATTCAGCCCT
TGTCCAGCACGGCCCACCCATTCCACTGTTTTGCTTTCTGGATTCATCTCTAAGTGGGTTTCCCCAGGTGGGAAACTCCTTTAAAGACAATTAG
CATACCTCTGGGTGCTCCCCTCTACCTAGAACACGGCTATGCTCATAATAGCTGCTTCATAATGTTTGTTAAATAATGACAACCAATGAAAAGA
CTTGACTGATTGTTCAAAGCCAGATAGAGAGACTCAATGTGTGCAGACAAACTGGTTACACAGGCTTGTCTCATCTGGAACTATGGAAAACTAT
GATTAATCTGGTTTTTAATTTGGTTACTTGAATGAAATAGAATATGGCAACAGACATGTAACACCCTGAGTTTTTGCTTGGGTTGGTTTAGCCA
CTTTTCTTTGGCATAAAGCCAGGAAGAACAAGGAATTTAAACTAGAGATTTGAAACCAAGGAAGCTTTAGTTAGATGCATCTTTGTTGGTAAAG
AGGGCAGAATTGAGACCTGAGTTTATTATTATAAATAGC

HUMAN SEQUENCE - mRNA

CTCCGGTGTGTCTGTCGGTTGCAGTGTTGGAGGTCGGCGCCGGCCCCCGCCTTCCGCGCCCCCCACGGGAAGGAAGCACCCCCGGTATTAAAAC
GAACGGGGCGGAAAGAAGCCCTCAGTCGCCGGCCGGGAGGCGAGCCGATGCCGAGCTGCTCCACGTCCACCATGCCGGGCATGATCTGCAAGAA
CCCAGACCTCGAGTTTGACTCGCTACAGCCCTGCTTCTACCCGGACGAAGATGACTTCTACTTCGGCGGCCCCGACTCGACCCCCCCGGGGGAG
GACATCTGGAAGAAGTTTGAGCTGCTGCCCACGCCCCCGCTGTCGCCCAGCCGTGGCTTCGCGGAGCACAGCTCCGAGCCCCCGAGCTGGGTCA
CGGAGATGCTGCTTGAGAACGAGCTGTGGGGCAGCCCGGCCGAGGAGGACGCGTTCGGCCTGGGGGGACTGGGTGGCCTCACCCCCAACCCGGT
CATCCTCCAGGACTGCATGTGGAGCGGCTTCTCCGCCCGCGAGAAGCTGGAGCGCGCCGTGAGCGAGAAGCTGCAGCACGGCCGCGGGCCGCCA
ACCGCCGGTTCCACCGCCCAGTCCCCGGGAGCCGGCGCCGCCAGCCCTGCGGGTCGCGGGCACGGCGGGGCTGCGGGAGCCGGCCGCGCCGGGG
CCGCCCTGCCCGCCGAGCTCGCCCACCCGGCCGCCGAGTGCGTGGATCCCGCCGTGGTCTTCCCCTTTCCCGTGAACAAGCGCGAGCCAGCGCC
CGTGCCCGCAGCCCCGGCCAGTGCCCCGGCGGCGGGCCCTGCGGTCGCCTCGGGGGCGGGTATTGCCGCCCCAGCCGGGGCCCCGGGGGTCGCC
CCTCCGCGCCCAGGCGGCCGCCAGACCAGCGGCGGCGACCACAAGGCCCTCAGTACCTCCGGAGAGGACACCCTGAGCGATTCAGATGATGAAG
ATGATGAAGAGGAAGATGAAGAGGAAGAAATCGACGTGGTCACTGTGGAGAAGCGGCGTTCCTCCTCCAACACCAAGGCTGTCACCACATTCAC
CATCACTGTGCGTCCCAAGAACGCAGCCCTGGGTCCCGGGAGGGCTCAGTCCAGCGAGCTGATCCTCAAACGATGCCTTCCCATCCACCAGCAG
CACAACTATGCCGCCCCCTCTCCCTACGTGGAGAGTGAGGATGCACCCCCACAGAAGAAGATAAAGAGCGAGGCGTCCCCACGTCCGCTCAAGA
GTGTCATCCCCCCAAAGGCTAAGAGCTTGAGCCCCCGAAACTCTGACTCGGAGGACAGTGAGCGTCGCAGAAACCACAACATCCTGGAGCGCCA
GCGCCGCAACGACCTTCGGTCCAGCTTTCTCACGCTCAGGGACCACGTGCCGGAGTTGGTAAAGAATGAGAAGGCCGCCAAGGTGGTCATTTTG
AAAAAGGCCACTGAGTATGTCCACTCCCTCCAGGCCGAGGAGCACCAGCTTTTGCTGGAAAAGGAAAAATTGCAGGCAAGACAGCAGCAGTTGC
TAAAGAAAATTGAACACGCTCGGACTTGCTAGACGCTTCTCAAAACTGGACAGTCACTGCCACTTTGCACATTTTGATTTTTTTTTTAAACAAA
CATTGTGTTGACATTAAGAATGTTGGTTTACTTTCAAATCGGTCCCCTGTCGAGTTCGGCTCTGGGTGGGCAGTAGGACCACCAGTGTGGGGTT
CTGCTGGGACCTTGGAGAGCCTGCATCCCAGGATGCTGGGTGGCCCTGCAGCCTCCTCCACCTCACCTCCATGACAGCGCTAAACGTTGGTGAC
GGTTGGGAGCCTCTGGGGCTGTTGAAGTCACCTTGTGTGTTCCAAGTTTCCAAACAACAGAAAGTCATTCCTTCTTTTTAAAATGGTGCTTAAG
TTCCAGCAGATGCCACATAAGGGGTTTGCCATTTGATACCCCTGGGGAACATTTCTGTAAATACCATTGACACATCCGCCTTTTGTATACATCC
TGGGTAATGAGAGGTGGCTTTTGCGGCCAGTATTAGACTGGAAGTTCATACCTAAGTACTGTAATAATACCTCAATGTTTGAGGAGCATGTTTT
GTATACAAATATATTGTTAATCTCTGTTATGTACTGTACTAATTCTTACACTGCCTGTATACTTTAGTATGACGCTGATACATAACTAAATTTG
ATACTTATATTTTCGTATGAAAATGAGTTGTGAAAGTTTTGAGTAGATATTACTTTATCACTTTTTGAACTAAGAAACTTTTGTAAAGAAATTT
ACTATATATATATGCCTTTTTCCTAGCCTGTTTCTTCCTGTTAATGTATTTGTTCATGTTTGGTGCATAGAACTGGGTAAATGCAAAGTTCTGT
GTTTAATTTCTTCAAAATGTATATATTTAGTGCTGCATCTTATAGCACTTTGAAATACCTCATGTTTATGAAAATAAATAGCTTAAAATT

HUMAN SEQUENCE - CODING

ATGCCGGGCATGATCTGCAAGAACCCAGACCTCGAGTTTGACTCGCTACAGCCCTGCTTCTACCCGGACGAAGATGACTTCTACTTCGGCGGCC
CCGACTCGACCCCCCCGGGGGGAGGACATCTGGAAGAAGTTTGAGCTGCTGCCCACGCCCCCGCTGTCGCCCAGCCGTGGCTTCGCGGAGCACAG
CTCCGAGCCCCCGAGCTGGGTCACGGAGATGCTGCTTGAGAACGAGCTGTGGGGCAGCCCGGCCGAGGAGGACGCGTTCGGCCTGGGGGGACTG
GGTGGCCTCACCCCCAACCCGGTCATCCTCCAGGACTGCATGTGGAGCGGCTTCTCCGCCCGCGAGAAGCTGGAGCGCGCCGTGAGCGAGAAGC
TGCAGCACGGCCGCGGGCCGCCAACCGCCGGTTCCACCGCCCAGTCCCCGGGAGCCGGCGCCGCCAGCCCTGCGGGTCGCGGGCACGGCGGGGC
TGCGGGAGCCGGCCGCGCCGGGGCCGCCCTGCCCGCCGAGCTCGCCCACCCGGCCGCCGAGTGCGTGGATCCCGCCGTGGTCTTCCCCTTTCCC
GTGAACAAGCGCGAGCCAGCGCCCGTGCCCGCAGCCCCGCCAGTGCCCCGGCGGCGGGCCCTGCGGTCGCCTCGGGGGCGGGTATTGCCGCCC
CAGCCGGGGCCCCGGGGGTCGCCCCTCCGCGCCCAGGCGGCCGCCAGACCAGCGGCGGCGACCACAAGGCCCTCAGTACCTCCGGAGAGGACAC
CCTGAGCGATTCAGATGATGAAGATGATGAAGAGGAAGATGAAGAGGAAGAAATCGACGTGGTCACTGTGGAGAAGCGGCGTTCCTCCTCCAAC
ACCAAGGCTGTCACCACATTCACCATCACTGTGCGTCCCAAGAACGCAGCCCTGGGTCCCGGGAGGGCTCAGTCCAGCGAGCTGATCCTCAAAC
GATGCCTTCCCATCCACCAGCAGCACAACTATGCCGCCCCCTCTCCCTACGTGGAGAGTGAGGATGCACCCCCACAGAAGAAGATAAAGAGCGA
GGCGTCCCCACGTCCGCTCAAGAGTGTCGTCCCCCCAAAGGCTAAGAGCTTGAGCCCCCGAAACTCTGACTCGGAGGACAGTGAGCGTCGCAGA

SAGRES DISCOVERY 02-05

AACCACAACATCCTGGAGCGCCAGCGCCGCAACGACCTTCGGTCCAGCTTTCTCACGCTCAGGGACCACGTGCCGGAGTTGGTAAAGAATGAGA
AGGCCGCCAAGGTGGTCATTTTGAAAAAGGCCACTGAGTATGTCCACTCCCTCCAGGCCGAGGAGCACCAGCTTTTGCTGGAAAAGGAAAAATT
GCAGGCAAGACAGCAGCAGTTGCTAAAGAAAATTGAACACGCTCGGACTTGCTAG

SAGRES DISCOVERY 02-06

TABLE 6

MOUSE NOMENCLATURE
ICSGNM Myb
Celera mCG2825

HUMAN NOMENCLATURE
HGNC MYB
Celera hCG32380

MOUSE SEQUENCE - GENOMIC

NNNN

AGAAAAGGCTGTTTTGAAAACAGTCTTTTTTTTTTTTTAACCTGTAGATTTCATCTGGGGGAACCCCTTGGTTTTTAATTAGATACATTGTAAG
GTATTTTAGACTCCATGCACTCAGAGACAGAGAAAACAAGAGTAAGTAGGAGTCTGAATAGCCAGTGCCCTGGCCATGTGCTTAGTTACTCAGG
AGACAGCACTGTAAACACAAGCACAGCTTAGGTAGAGTAGACACGGGCGGGCAGCGTTTGAATGATTTGCAATTTATGTTAATCACAAAACAGT
TTGAGGGATGTCTCCTTTACCAGGTCTTGAAAATCTTCCTGATTTTTTTTTCCCCTAGTGCCATGGTCTTTAAGAGGTGATCACAACTATACTT
TGGAATGTATTCTGTCTTGGTTTTTTTATTTTATCAGACTACCAGTACTCTTGAGACACACTTGATTGGTCTGTTGTGTTCAGAAACTATTTAA
ATGATTTGCTATTTGCTATATGCCAGAGTTGGAGTGTGTATTTATAGCAAGGACATGGGCTCTTGTTCTTCTCATTGTCCTTAACATTGACTTT
TAAACTCAAGCATCAATTGGTTGGGAGTTTGCCAGATGTGTAACTTGTCACTGATCTAACAGTAACAGGTTCAAACATGCAGAGCAATAGAAAA
ATGCCAGGGCTCTTGGTGTCTCTGTGGATACTAGTAACAGCAAAACCAGTTTACAAACACTACAGCACCAGAATGCAGAAAACCTCATTGCGCA
ACTGTGCAAGGTTTTGTTTCTGTAGACTTTTAACAAGCTTGCTGAAGCGTTTCTGTCTGAGTTTCATAATCCAATAGTTTAGATCCTCTGCCTT
TGGCCCATGTGTGTCCATTCTTATTTCTGCAGCATCTACAGTAGCGATGAAGATGATGAAGACATTGAGATGTGTGACCATGACTACGATGGGC
TGCTGCCCAAATCTGGAAAGCGTCACTTGGGGAAAACTAGGTGGACAAGGGAAGAGGTAACTAGTCATTTTATCAAAACGTAGGGAAACTCTGT
AGAGTCTGTGATTGGTGAAAACTGAAATCTCGGCTAAGCTACATGTGCCCTTCTGAAGACTCTTGAAGAGGTTATCTTGGCATGCTGTACAGAA
TGCTCGTGTTCTTCTCTCCCAGTGTTTATTCTGCTTTCTGTTCCCAACCTGTTTATTGTTCCTTAAATGCTTTCTCCTTTTTCCTTTCCACTTT
GCCTGTCTGGTTCTCATTCTGGAACCTCACCATTCCCTACACATTGCCTTTTCTGTGAAACTGTTACTGGCCACCATCTTTAAGGCTGGATGCA
CCCTCCCGTGGTCCCAACCCCCCTGGGCACATGCTTGGCTTTATTGGTGTTGTTACATATTTGTCTTTCCCAACACACTGCCAATTCCTTGAGG
GTTAGGACTAAAGTATCTCTTCATCTTTGTGTTCCTCAAACTCAAAATTACTTGCTAAAATGTAGGATAGTAATGAATGTTCTCTGGCTAAAGT
GATGCTTTGCTATTTTCTAAGCTAAAGTAGCCGTAGAATTTATTGTGTTGTAATATGCTCAGTGAACATTCGTTACACATGATAGTCACATGAC
CTATGTATGTGAAAGATTATTCTGAAGAGATCCAGTAATAGGAGAAGATATGCCCACTTCTTTCTAGAGCAAAAATCATCAAAGTATGAAGAAA
GGTTTCTTCCTTCTCTACTGAACTGTGACCTTGATTGCATGCTAAAATCAAAGCTCCTGAGAACAGGTGGAAGCACTCCCAGGGAGGCACTTAG
GGAATGCACGTTCTGTCTGTCCTGCTCAGGCCCGTGGATGCTCCCTTGGAGTGTGAACTTCTGTTGTTAACCATGGATTCCCAGACTCTG
TCTGTTTTGTCATTATGTGTGAATGCAGAAACCTATGAAGACTGTGTTTACAAAGGTGTGCATGAGCTAGCATGTAGATGAGCGTATGTGCTGA
TGGAGCCAGCTTGGGAATGTCTAGCTAGTGTCTTCTGTGTTCTCATCCATAAACTCTGAACATATTGATGCAGATCCTTAATGGCTTTACTGCA
TGAAGTACACCTTCAAGTCAAATGTGTCAAATATCTTCTTCTTTGCATATGGAGAAGGTTGAACCAATGGGAAGCTGTCTCATCCATGGTCTTA
TCTTTCTCAGGGTTGAACGGTGACTAAGTTTAACGTTGGAATTCATTTTCCCCCATTTAGTAAGAGTGTTAACAGTTACCATCTATTAAACACT
AACACATGCCCGGCTTCACTGCTTTACACATAATGGTATTGTGTAATCTCCAGATAACAATGTTGATACTACCATTCCTATCTTATAGATGACAAT
AGAAATCTGTTTATATAACTACTCAACAGCTGTGTCAAAGTAAAAGCTTTAGTGTGCCTGTGAGTAAATGTATGCCCAGACCAGTATATTACAT
TAATATTGGCTTTATTTGAGTGGTTTTGAAAGCTCCCCCCCACACCCCGATCATGAGGTTGGTTCCTTTTTTCATTAAACTTAGACAGAGCTGTT
CAGTAAACAAGTGATGCCTAGGATTGTCTTTACACACCTTAGGATGAGAAGCTGAAGAAGCTGGTGGANNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTCTTTCGAATGGAAAAATCTCATCTGGATTT
AAGAAATTATTGGATAGTTTACTAAAATACTATGTATTTGCTCATATAGAGTTAAGAGGAAGAGAGCCATCCGTAATTTTTATATCTGACTACA
CAACATATAATTGAGGTTTCTAGAGTTACTATCCAGAGATTTTGATTTTTTTTTTTCAACAATTGCTTCTTGTTTTGTTTTAAAATACCCTGATA
GTGTAAGTTAACATTCTGATGGGTTGTTCCAGGATAAAATTTTAAACTTGGTATTCCCTCCAAGTTAGCTTCTAAATTCTCCTATTCTCATCAA
CAGCCACATTTTTGGTGTGTGGGTTTAAAAATCTAGAGCGTCTTTTGTCTTATAGCCTCCCAGGTCCATCTCAATGATGAGTCGGGAGCGCAGA
ATTTCTTTACAGTCCTTCTCTTCCACTTCTTTCCTATGGTCTGGTCACAGGGCAGCTGCCCTGCCCTCTCTATCATAGTGGCTTCCTTCTTGGC
TTCACCATCTTGGCTTCACCACGTGTATTCTTTGAGCTTACCACCAGTTCCAAACACTGCTAGCTGAGGGAGCCTCCTAAACGGCAACTACTCC
TAACTACTCTGCTTGCCTAGGGTGTCTGAGTCCCTAGGTTTGGTCTCCTGCACCAATAAAATCAACAAATAAGCAAACAAACCCCCAGCAGTGG
TGACATAGGTTCTCACATGGCAAGTGGGCTACCTTGACCTGGCATCCAGTTTCTCTCCTATCTGGTCTCAACTTACAGTCCCACTGCCCTCTCC
CTCCTCTACCCGCTCTGTTTCCTGCTTCCTCCCCACAAGCAGGTTTGGCTGTGTTCATTTCTGCTTTTTCTCCTCTGGGCTTTTCTTCCTGCTG
ATTTCACCCCCACCCCCCACCCCCAGCATGTTCTCTCTTGCTTCTCCAGTTAAAAGTACTGAGCACCCTCCAAAGGCCGGATCATGAGCTCTCG
AATGCCTCTGAAGGAAGCAGAACCTCTTCTTTAAGAGTCCTTTTCTCCTCACCCCAACAGCACGTGGCTTAGGTCTCATCTTACAGATAAAGTC
AGCCTTTGGTGTAATCAGTTACATGTCCATCTTTCTTCTTCTTCTAAGATTATGTCTAAGAAAGTGAGAAAGTTTTATTGTTTTCTTCATTCAGTCTAAT
ACAAGTGTCTGTGGTCCTGAACACACAGAGAGGTTGAATGGGAGGCACTTCAGTTCCTTAGGATGGATTTTTATTGAGGCGTGGCCATGTGGGA
TCACTAATGCATCTTCAGCCACAGAGGTACAAACCACAGACTGAGGTTAACGATAAGTCACGTTGGCATCTATGTGTGTACTGTGATGTTCCTT
CTATGCACATGGCAGACCATTACCTTCAGGCTCCAATCTTAGATGCAACTTGGATACATTCTCTAGTCCGTGAGCAGTGTGGGATGGATAGGTG
GGCTCTCTGTACAGGCTTCTAAATGTTCTTAGATGTTTTCACTATGTATCATCCACATGTGATCCCTATTGAACAAAGCCTTCATGTGTTCTTC
ACGCCTTATCATCCCAACGCTGTGTACTTTGTCTAGAACCGGACAGATGTGCAGTGCCAACACCGGTGGCAGAAAGTGCTGAACCCTGAACTCA
TCAAAGGTCCCTGGACCAAAGAAGAAGATCAGAGAGTAAGTTCTGTCCCCATAGATGTGTGACTTGCAGTTAAGAATATTGCTAAAACAGGTTT
CTCACCCCAAGGAAGCAATTTAAATCTTCAAACAGGAAGTAAAGGGCTGGCTCCTGCATGTCCAGTGGATGAAAGCAGATTATTTCAAGATCTG
AAGATCTTGTAACATTGAGGCTTGATGACGCTGACTCTTTCCGTAACATTAAAACACAGATTATTTTTCTGTTCATCTGAAGGTCATAGAGCTT
GTCCAGAAATATGGTCCGAAGCGTTGGTCTGTTATTGCCAAGCACTTAAAAGGGAGAATTGGAAAGCAGTGTCGGGAGAGGTGGCACAACCATT
TGAATCCAGAAGTTAAGAAAACCTCCTGGACAGAAGAGGAGGACAGAATCATTTACCAGGCACACAAGCGTCTGGGGAACAGATGGGCAGAGAT
CGCAAAGCTGCTGCCCGGACGGTAAGACTTGGGCAACAAATATATTGATTGGGAAGAACCAAGGGATGGTCGCTAAACATTCTCTGTGTGTGAA
TGAATTACATTCGAGCAATTATAAGCATTTTGTCAGATAAACCAGAAACACCAACTTTTAGGAGCGGGCAAGAGCTTGGAGTTTGTTCCGTTGG
ACAAGGCTAGTGACACCTGGGTGGTGAGCCCCAGCCAAACCTTTCGGCTTTCCTCCACTGTTGCTCCTCCATTTGTGAAATAGCTGATTTCCAT
GAGTTAACGTTAGGATCAAGTGAAATGAATGTCAGGTATTCTGTAAGCTAAAGCACCTACCTGCCTAAGAAGGGAGTGCAGACACAGATTGCTC
TCGGGCTGAGGCCATCCAGCCAGTTCAGCCATTACTGGTCACTCCTCCACTTTAGCAATTTCCGTTTTCCTAACACCTGCATTCACCTCATTTC
CCATTTGATTACTGGGTGTTTTTTTGGTTTTGTTTTTCTGAGACTAAAAAAAGCCTGTATGTCTAGAGTTGTCACGACAACTTCAGGTTTTTTA
ACTAATCTCAGTGTTATGTCTTATTTTTACCAAACAAGGAGGGGAAATGACGCCTTTGTATAGGATAATTATGGAAACTCACCTTTGACCCACT
GTCTACACATATATACATTGATTTTTTTTTTTAGCTATTTTGAGAAATACTTTCACTGTAAATTTTAAAATAAACAATATTAAAAGTATTCTT
ATTCTTGAGCTTTTTGACCCCAAAGTGGGGAAAGGATTGTTTCAGGATGGCTTATCTAGTATTTCCTAGTCTTGCATCAATGGGGTAGCTCCCT
CATGCCTTGAGAACTTTAAGAAGCCATGGATCTGGTCAAAGGAGGCCTTTCCTCCCATGTGGCCTCAGAGGATATACTGTTGACTTTTCTAAAG
ACTAAAGGGGCAACTGAACTTCCTCTTTTTTAAAAACACACATTTCCCCACCCCCATGGAAATAGTAAAAATGTTTTTACTTAATTTTTCTTTC
TTTTCCTTTTCTTTTTCTTTTTTATTTTTTTAGCTAAGAAACTTCCTGAAAATGGGAAGAGTTTAGTAAAAGCACCTTGCAGTTTGAAACTATA
CTAGGGGGTTGAATGTGGTAGCACATGCCTGTAATCCCAGCANNNNNNNNNNNNNNNNNNNN

GAAGAACAATCATTTGATGGGGTTTGGGCATGCCTCACCTCCATCTCAGCTCTCTCCAAGTGGCCAGTCCTCCGTCAACAGCGAATATCCCTAT
TACCACATCGCCGAAGCACAAAACGTAAGCCACTCCCGAGAATGTAGAGGGAGAAGAGAGGTGGTTATATCACCTGGGGTCATAAAAATACTTT
ACAGTTGTGTGCTTTGCATAGATGTTGTACAAGCATGGTCACAGATGGAGATGTGTCGATGGCCCTCAGCTAGACCCACTGTGTGAGGTAGGAG
ATGGCCCTCAGCTAGACCCACTGTGTGAGGTAGGAGATGGCCCTCAGCTAGACCCACTGTGTGAGGTAGGAGATGGCCCTCAGCTAGACCCACT
GTGTGAGGTAGGAGATGGCCCTCAGCTAGACCCACTGTGTGAGGTAGGAGATGGCCCTCAGCTAGACCCACTGTGTGAGGTAGGAGATGGCCCT
CAGCTAGACCCACTGTGTGAGGTAGGAGAAGATACACTTGGCTTCCGTTTCTGGAAACAAGAATGAAAAGGAATTTGTCCATCACATTGAAGTA
GTGCTGAATAGAACCAAAGTCGTCTGATTCTAGTTTTCTGCTCCAAACCTGATTTAAAGATCGTGTTTTAATGTAAATGTACTTGTATATTGCT
AAATCTTAAGAGTAGGTGAACATAGATAGATGCATAGTCTGTTAGCTTTCTTTTCCAAAATGAAAAATTGATGTAATATTACATTTAAGGTCAT
AAAGAGGAGATAGCTAACCTCTGAAACATGAAAGGAGATTATAAGTTCAATTCTGGCAATGATCTGAAGAAAATGAATTGATTTATATATCCAG
GAAATGTTTACTTTCTTACTCAGAGTCAAGGGCTGTACTGTGATATTAATTTGGTGATGTGCTCCTTCATCCTCGCTTGGGTTGGTATCATTTC
TTCCTCATTTCTAGACATTCATATCTAGCGAAAGAAATCGCTTACAGTACATGGGAACAAAGTCTAAAGAGGAGAAATATCAAGAAATGCTTATC
ATCGAGCTGATGCTAAAAAATGACAAAACTCACCCAAGAATCACAAAGACCATATGCAAATGTTATGTAAAACATATGCATGTGTAGTTCTCAC
GTGGCTCTATCTGTTTCTTAGATTTGACTACAGAATTTCCAGAAAGGTCTCCAGTGAATGAATTATCATAAAAGTTTCTGTGCTTTTTATTAAA
AGGAACATTATTCTAAGAAAAGTACCCCTAGTGTACTTTTTTCACGCATCCCACGAACACTTTCCCGTTGTTCCTCTCTCCAACTGAGGGATGT
TTTCTGTTGGGATAGGCAGACTCTTTGGGCCTCTCTCCCTGTTTCTTGAACTAGTTAGCCATTTTTAAGTATCTGGCTAACTTTCAAGTTAGAG
AAGTTTTTGTTTTTGTTTTATTTTAATCATTCCATGAATTTTATCAACCAAGTACTTTCTCCCTTGGTCACAGAGCAAAATTTTAGAGAGCTGA
ATCCTCCTGGCGCACTTGTTAAGTAGGAATGACTTAGTGTTTGTTTTCTTTTCCTGGTCTAGATCTCCAGTCACGTTCCCTATCCTGTCGCATT
GCATGTTAATATAGTCAACGTCCCTCAGCCGGCTGCGGCAGCCATCCAGGTGAGATCATCTGACGGGCAAACTCCTTAGCTGAGCAAGGCACTG
CTTTTAAAGAATACTTTCTTTCTACACACACACATACCATGTAATAGAAAAGCTAACAGCATTGCCAACCTACTTTGGGCTAGCCTTTATTTAC
CCTTGGTGGCTTCTGGAATTTTCTGATGCATCCATGAGCAGGTGCTCTAGCCTCTGCCTTACCCCTTGTTGCCTTAAGTCCCGTATCACTTTGA
GCAGATAGTGGTGAATTCTGTGGGGTGATTCCACATGGAAGTTCTCTGGGCTGTGTAAGGTACCTCTCCCTCAGACCTTGTCTCTCCCTGCTTC
ACTTGAAACTCTAGAGACACTATAACGACGAAGACCCTGAGAAGGAAAAGCGAATAAAGGAGCTGGAGTTGCTCCTGATGTCAACAGAGAACGA
GCTGAAGGGACAGCAGGCATTACCAGTAAGACTGTGACCTTGGGATGGGTGGCTTCGCTCAGTGCTCTTCTCTCTCCTCCTCTGTCTCCTTTTC
TAAAGACTGTCTCATCCAAGTTCTGTGTGTCCGCTAACAATGCTCAAACAACAGAAACTGCTACTGATGACTGATAAAAGTCTGTTAGTCTCAG
AATGTGCATTGAGTGACTGGAAGTCACTGTTTTAGAATAGGACCACAGTACCCACTTGTGACTGTCAGGATCTCCATTGTAACAAAGCACAAAG
CTTTGCCTGCTTGTTTGATTCTTTTACTGTTATCCTTTTAACCTGGATTTACATTTCTTACAATCTCAAATTCCATTTGAAGTGTATTTATTAT
ATACATGTTTTTTAAAAGGGATCTATACATAAGCCACTCTTTAAATGTTTGCTATCTTTTATTTGCATGTATGAAAGCTCTCTGATCAGTAGTG
ATAAGGTGTTTGTGTAAACACATATATGTTCCCATAGATATGTGTATATATGCGTGCAGATTTCTGTGCATACATGTGTCCAGGCCAGAGGTTG
ACACCAAGTGTCTTTTTTGATAGGTTTCCACATTAAAAAATGTAGTTGTATGACTACCACTCATAAGGTACTATAAGATATATGTTGAAATAAA
CTCTTTCCTCTCAAAGAAAAAAAAAACACTAGTTGTAATTGTGTATGCATGTGTACATGTGCTTGTGTGCACTCTTGGAGGTAAGAGGACACCG
TTCCAGAATCAGTTCTTTCCTTCTACCGTGGGCTCTGGGGATCAAACTCCTTTTTAACTGCCTAGTCATCTTGCTGGCCATCCAGCTTATATTT
TGAAATAGGGTCTCATGAAAGCTGGAGTTTGCCCATTNNNNNNNNNNNNNNNNNNNCCAGTGAGCTCGAGGGTGTACCTGTCTCTCCCTCTCC
AGTGCTGGGGTTACACAATGGAGCTGCTGTGGGTGCGTGGAGATCAAATCCAGGTTCTTACGATTGCATGGCAGTCTCCCTTCAGAGTGAGACA
ACCCCCTCCCCTTTTTTTTTGTGCTGACAATTGAGCCTAGAGTCTCAGACATGCTACATTGCACACACACACACACACACACACACACACACAC
ACAGGATCCAGCTCTAGCTCTTGTATAGACCGTTTCTGAATCCTTGAATGGGCAGCTCACGGAAAAAGCAAACTTTGGAGTTTTGGTAGTTTAG
CCAAGAAGTGAGTATGTGAAAGGTGATACCCACTAGCGATTCTTCAGGTGAAATGTTCTTTGTTGTTGTTATTAAATAATAAAATAATGTACTT
GTGCTAGTTCAACCACTTTTGAACTTTAGTTACTATTTTGCAATTTCTTCTCTTGCATGGACATGCTGTAAGGGGACTTCTGTTAACTTGATCT
ACTTTCCCAACCACATATACTCTGCAGCTCTAGCTTGCATCAGTGCAACCTATAGCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAAAA
GAATAGAAGCAACAGGATATGTACAGATAGAAGCAATTCTAACCCTTGAATGCTTTCAAGGGCTTAACATGCAAATAGGACCATTCTTAAGTCA
TAGCAATGGGGAACTGTTTTTAAATTAAACTCCAATGGAATTCTAAGACATCTAAGACTTGTATTTTGTAGCAGTCCCAAGGTTTAACATTTGA
CTAAAATCTTAGCAACTGAAGCAATCCTCTAGGTATAAATTGGAGAGCTATTGCAAAGCTGTCAAAAAGGAAACATCTTGACAACTGTCTGGCA
GGCTTGAGTTTTGGATGAAGCAACCACTTTTTATCTTGCCTCCAACAGCATCTGATACCTTGTGCAACATAGTTGCTAAGTTTCTTCTTCCTTT
CTTCTCTCCATCCTTATTTCTACACACCCCCTTCCCCAGACACAGAACCACACTTGCAGCTACCCCGGGTGGCACAGCACCTCCATTGTGGACC
AGACCAGACCTCATGGGGATAGTGCACCTGTTTCCTGTTTGGGAGAACACCATGCCACCCCATCTCTGCCTGCAGATCCCGGCTCCCTACCTGA
AGAAAGTGCCTCACCAGCAAGGTGCATGATCGTCCACCAGGGCACCATTCTGGACAATGTTAAGAACCTCTTAGAATTTGCAGAAACACTCCAG
TTTATAGATTCTGTAAGTAGAATTGCTAAGGCACGTTGATGTTTCTGGAAGAGGAATTGAGAATTGGTATAGCATAAATCATTGCCATTTTCTA
TAGCAAATACGGTTTGGTCCTACATTCATGTAAAGTGAAAGACTTAGCTTTTACGATTCCACTTCTCTCAGTGGTCTTGATTTTGTAGGCTACC
CACCCAAAATTGTTTGCCTTCCAGGTGTGAATTAATGAAGTTCTGACTTACCACAAAGGGCTCAGAATGAGAGCTGTGTCTGAACTATTTTAAC
AAATTTCTTATATATTTTGCTTACTTCTTTGTGATTCTCTAGAAAATTTCTTTGTTGTTTTGGTTTTGCTTGCTTTTTGTTTTGTTTTGTCTGT
TTTGGGACAGCACATTTGGACTTACGTTTCCTCGTAACCTTAAGCTTTCAGTTCAAGGGTGGGGCATATAGATCTCTCTACAGCATACTGTAAA
TTGATTGACAATCATAGTAACACCAAAATAAACCATCTTGAACCATCTTGAGTGAAACAAATTTGAGTTCAGCAGTCACTCAGTTCATTTTCTT
GGTCTCCTAATTGGTTAAAAAGCACTTATTCCCTTCACACGGGACAGGGCCAGCTATTGCCATAATGTATCATCTAGAAATGTTTTCTGTTTGC
TTTAAATTGCATGCAAAAGAGAGTGCCTGAGCTCTCCACAGCAGATGTGCAAGACAACCCATGCACCGCTGTAATCCCTGAGCTAGAAAGCAGG
CAGGCAGGCAGGCAGGCCCAGCGTTTTCGTCCATTGCTCTTTCAGTGCTGTGTTTGGGTGATGGTGGCGCTGTCACTTGCATACCATCTCAGAA
GCTCTGTGCCTCCCACGTTGTTTCAGGATTCTTCGTGGTGTGATCTCAGCAGTTTTGAATTCTCTGAAGAAGCGGCAGCTTTTTCACCTAGCCA
GCAGCCCACAGGCAAAGCCTTCCAGCTTCAGCAAAGAGAGGGCCATGGGACTAGATCTGCAGGAGAGCCTAGCCTGAGGGTGACCAGGCGAGTG
CTGAGCGAGGCATCCCTCGGCCCAGACTCACCCCAAGCGAGGCACAGCAAGGTTCCGCTGGTCGTCCTACGAAAAAGGCGGGGCCAGGCCAGCC
CCCTAGCCGCTGGAGAGCCTAGCCCCTCCCTCTTTGCTGACGTCATCAGCTCAACTCTCAAGCGTTCCCCTGTCAAAAGCCTACCCTTCTCTCC
CTCGCAGGTAGAGCACAATTTCTGCACAGCTGTTACTAATTTTCAGCATACACCCGAGCCTTAATAATTAGAAACTAATCTAAATTTGAACAAA
TGACTAATGACTGCCGTCCTGGCAGATTTAATTCCGCGTTCAATCTCACTGGGGTAGAGGTGGCTAGCTTCCTGGCATTTGGGCTGACACACTG
GTGATTTTGTCGCATCTCTTTCTCTCGAAGTCTTGGTGTTTTGGAAAATGGACAGAAAGTTGCATGGGATGTGTTTCCATTTCCCTTTTCACTA
CATTTCCCTTTTTCCGTCCCTCCCCTCTTCTCCCTTGTCATCCTTGCCTCTTCACATTTTAACACGATGTCTGCCTCTTTGTTCATTGACTACT
AAGTGATTTACTGACCCTGGGGAGGAGGGAACCAAATTATGATTACATAACATTTGGATTACAACTAGAAATGAACCACTATGCCCCTTTTCT
AAGTGAGGATGTTTACTGAGATGATGAAAAAGAGATGCTTCTGCAAAATAATTTAACATTTTCAACACTGGGTCTTTTAAATTCTGCTATGGGA
TTTTGCTAAGGTACCGTTTTCCAAAGAATACCCTTACTTCATATAGTGTTCTTAAGGTATATAACACTATAATGCTTAGCAGAGCCACGTGCTT
TCCAAATTATAATTAAGAGACAATTTGGCTCCTTAAATTTTTTTCCCAATTATATCCGTTGAAGATTTGGTACTTTGTTTTACTTTACTTCATT
TTAGTAGTAGTAGTAATAGTAGTAGTAGTAGTAGTAGTATTGTGGTTCTTAGAATCTAACCTGGAGCCTCATGTGTGCTAGG
GAAGTGCCCTACCACTGAGCTATACATATTTCTGGACTTGTTTTTAAAAGAACTTTAAGTATAGACAAATGATCCCCCCATTCCCCAAAACAAT
TGGTCTCCACCCCCCACCCACCCCCATATTTTCCTAAACCGTGTTTTGTGAAATCATTTCTGCAAGATAGATGTCTCAGGGAAAATGATCTAGG
TAGACATAAACGTTTGGGAAATGCTAACTCGGGCTTTAAACGGCTTCTTTACCAGAGGGTCCTTCAGGCTTGGCGTTTGTTTGGATTTTTTATT
CTTTAATTTTTCAGAATGCAGACAGTCTTTTATTCTGCTCAGCTTGCCTTATGCTCCTGAGTTCAAGAGGCGCCCTGGCTTCTGAGTGACTGAC
TGCAGGCAGCAGCCACTGCTCCTGGCTTCCCTGAGAGCGTTGAGTGTGCTCATCAGTCTACCCAAGAGATAAGATCCATTGCCTTTCCCAAACC
TGTGTTACCCTGGGAGCGTCAGGATGCTGAGAGACAAACCTTCTTACTGGATAATTTCCCACATCACGCAAACCTTACACAACAACAGTCTGAG

TTATTAGACCATTAAACCGAGAAAACCAAATATGAAAGAAAAAGAAGATAACCTTTTTAATGTTGATCAAGAGCACATATCATTCTCTTAAGTG
ACAAATGTCATTTACAGAGAAGATTTTCTTTGAATTTTGCAAGGTTTGAAGCTTTGACCCTTTAGATGTTCTTTCTTATAAATCTCTGAACCTT
GCCTAATCAGGTGGAATAAATCAATATCCTTGCCAACACTGAAAGATTGTTAACGTTGTCGTAGTTGGGGTTGTGAGTCAGTAGAGGACACTTG
CCTGCCATCTGGGTTTGGCTTCAAACTGCATGATCACAGACTCATTATTTAATCAGTTTTTCTTTCTTTCTTTCTCTCTCTCTCTCTCTCTCTC
TCTCTCTCTCTCTCTCTCTCTCCCTTCCTTCCTCCCTCTCTCCCCCCTCCCTCCCTCCTTCCCTCCCTTCCTTTCTTCTCTCCCTTCCTTTC
TTTCTTCCATGTTTAGTTCTTGAACACTTCCAGCAACCATGAAAGCTCGGGCTTAGATGCACCTACCTTACCCTCCACTCCTCTCATTGGTCAC
AAACTGACACCATGTCGAGACCAGACTGTGAAAACCCAGAAGGAAAATTCCATGTAAGTCTTAGTTCAATAAGAAAAATGTTTATTTTATTTAT
TTATATTAATTAAAATGTCTGACCCCCCCTTGTATGTATATAATGCATTCACTGTATGTATCCTATGCATTCTCATAATGGATACATCCCAAGT
AAGTTACAACCAACCAGGGAAGAAAGTAGAGAATAATTACCTTCTGTAGTACATTCTGATGTCTTATGTGCATGCACAGGGAGTTTCTGTACCA
TTCCCCACCCCCCACCGGCCAGGTTTTTCTTTCCACTGTTTTTCAATATCCTTACTAAAAACAAACAAAAGAGACTGAAGCATTCAGAATAAAA
TTGAGAATGGTTCATAGTTTATATTTTTTAATCTTATTTTTTCTTTTTGTAACAAATACATTAGGATCTTTTTGCATACTCACAGGAATGAAAA
TGTATGTATGTATGCATGTATGTATGTATATATGTATTTCAAAAGCCAGGGGTGATTAAGTAATTGAAAAGAAATACATTCTTATTACTTCCAA
ATAAAAACAAAGTTTTAGACATAGCGTGTTTTGGCCCCGTTTGAGGGAGCAGGTGAGACTGGTTTACAAATGATCCCAGATATCACGGTGCTAG
TCACCATTATACAGATCCAAGGCCATTACCTATGCCTCAGGCTCATTCTCAAAAGGTGGGAACTACTTCAGAGCTCTTAGTCTCAGGGCACGAT
AGTTTGAAGTATTTGTAGATCTGCAATCTGGTTTAATTCAGATCTACAATCCCTCAATGAATGCATTTGGCTAATCAGCATTGCCCTTCCTTGT
CCGTTGCAGCCTCTTAGTGTCCACGCTGACGGCGTCATACGGGATACATGTCTTTTTATTCTCTGCTTCTTCTCTTCTTTAGCTTTAGAACTCC
AGCTATCAAAAGGTCAATCCTCGAAAGCTCTCCTCGAACTCCCACACCATTCAAACATGCCCTTGCAGCTCAAGAAATTAAATACGGTCCCCTG
AAGATGCTAGTAAGTTCAAGAAAGGTCCTTAGATTTAGTGGGCTTAGGAGTGTAGACAAGTTTCCTCTGATCTGGAAATATCCACTCTTCCCTT
AGCCTCAGACCCCCTCCCATGCAGTGGAGGACCTACAAGATGTGATTAAGCGGGAATCGGATGAATCTGGAATTGTTGCTGAGTTTCAAGAGAG
TGGACCACCGTTACTGAAAAAAATCAAGCAGGAGGTAGGTCGCCCTCGCTGCTTTGTGCACTTTGAACTGTTTGACATCACTGCTAAGGAACAG
TAACACTTGTCATGCAAGACTTTTGTGCAAGCAAGTTGAAAGGCACTGTCATAATGAGGACTTCAACCTTCCATTTGGAAAGTGACTTCCATCA
ACTTCTTTAGGCAGAAAAGATGCTAGAGAGGGGTAAAGGGAAGAGGGGGCAGCGGGCTTATACTCTTCTTTCAAAATTTATTGACAACATAGTA
TTAATCGCACATATGCAAAGAGAAAGACTCCCAACCCAAATCATGACCACATTAATTAGAGCAAGCTTTTTTGTGTGCACAGGCTACTTCTCTG
TAAGTCAAGAGATTAGCATTGGACATGGGGAAAATAAGGGTTTTGTAGTTCAGGAGTAGAGGGTTTCCAAATGGGGGTTTTGGTAGGCAAAAA
GCCAGGGCTACAGGAGCCAAACATAAGCATCACAAATTGTTCGGAACAACCTCGTAGAACAAAAGCATAGTTAACAGGTGGTCATGACAAGGTG
ATCATAACAACCTTTGAAACACAGACATCATTGCCATGTCCTGGAACAGGCAGTACAGAGCCATTTGTAATTGAGGTTTCAGATGGGGCATAGC
CCAATGCTTGAGAAACAGAGGTTTAATCATAAACAGGAATGGATCTAATTGGTCTTTACTTTAAGATGGCTTTCAAGCCTAAGATGGAGGCAGG
TGAATGGGCAAGAGGATGGATAGACAAGCAGTCAACAGAGAAACAGATTCCAGATTCATTCCTGTTGTCTTTCTAAGGACTAAGAAATAGTTTA
TTATAAGAGTGACCATGCCCAGAGAATGTAGATTCAAGTTACCCTGAGTGGTATGACCCGTTAGAGAACAGGAGTTTGCAAGCACAAGAGAATG
AAATTTTAGCCATCAAGAATCAGTGTTAACTCACTAGGGAGAGGCACTTGCAAGGAGGGTGAACTTCCTTTCATGACGACTTTATTTTTGCAAG
AATAGGTAGCAATTTACACCTGAGAGTAAAGGTCTCCAGAAAGTCTTTCTTCCATACACAGCACTTCCTGTTTGCTTTTAGGTGGAGTCGCCAA
CTGAGAAATCGGGAAACTTCTTTCTGCTCAAACCACTGGGCAGAGAACAGCCTGAGCACCCAGCTGTTCTCGCAGGCGTCTCCTGTGGCAGATGC
CCCAGTAAGTATCAGGCGGATCTCGGACTCTTCTGTGATCACGTGGCCACAGCGTCCCGCGTGTGGCATGTGGGACCCCATGCCTTCAGCACTC
ACTCTTAGAGCACCTGCTTCCTAAGTATTCACAGCCACATGATTCTTTTTGCATTTGCATTATTTGTCTTCTAAGTGCTGTGTTTCCTCCTAGT
TAAGCAGTATGTTGTGTGGTTCCATGTGGTATCTAGCATAGAGTCAATCATGGTGTGTACCAAATATTTGGCATGCTAGGAGCCTAGTCAAGGG
GTCCTTATGGAGCCACAGGAGAATGGCCCACAGGCCAGATTCTCACGTTCCACAATTATAATGGCATGGTATTTGCATATAACTCATTGGGTCC
TCCTGTATACTTTACATTAGCTTTAGATTAACTCAACTCTCACATTGTATAAATGTTGTGTTAACAGCACTTCACCGTCTTAGTGTTTTGACCG
TGAATCCGGATGCAAAGTGGAAACTCTGTCACCTTGCTCTGGTTGTCACAGTCTGTGGATAGCGTCTCCTACATCTTATGGAAAAC
CAGAGCTAGTGAAAATTGTGAATACTTACTCAGTGTGTTAACTGTTAATTATCATTTCAGGGACTTTAGATGAATTAATTCCTGTAGTCCTCAA
AATAACATTGTAACATTTTCACTTTCATTAAAGCAACTGCAAGTTGGGTAACTTAGTGATTTGGTTGCTCAATATTATATACTTAACTTAGTGC
TGCTGCATTAGAACTTTGAAAGTCAGCTCATAAATACCACGCTTTCACCATTTGTAGTTGATGTTGCCGTAGATTTGTAGACGTCAAACACTTC
TGTGCCGATATATACAACATAAGATGACTCATTAGCACATCTCTTAGTTAGAAGAATGGATTGGTAAATTCATTTAGTAGATAGCTAGGACATG
CCACATGCTTAGAATTAAGCGGTGCCCTACAGTGTTTTCACCATTTTGGTGATGTTTGCAGCAGAGAGATGAGAGGCCTGTGTAGAGTTGGCTC
CTTTCAGCTCCCAGAGAAGGTTAATTTCTGGTGGATACTTGCTAATGTGTGGCATTTCACAGTAATCTCTCTAGAGTTAGGTCTGTATTCGCTC
TTGTATTATCCTGCCTCACTTAAATGATTCCTTTCCCTTTAGAATATTCTTACAAGCTCTGTTTTAATGACACCTGTATCAGAAGATGAAGACA
ATGTCCTCAAAGCCTTTACCGTACCTAAGAACAGGCCCCTGGTGGGTCCCTTGCAGGTAATGACTGTTCTAACATTTGGTGTCTTAAAATTTTT
TAACTGAAAGTCCGTTACTTTGCGTTGTTTTTAATGTTTTATACATAAAGGAATGATACTTTAAGACAATGTCTTGATGTCTAGAAGTGAGCCT
ATGGTGTTTTGTTACTAATCATGTGAGACACTGGAAATTCTTGTTCAGTCGGGGGCCCCCAAACATGATGAAGTGAAACATTTTTTTAACTGTA
ACTGAGACTGAGATCATGTGTTGCCCTAGGCTGTGACAGTATCTCCTTCTGCTTTTAAACAATCTTTAAAATATGTATCTGTGTAGTTTTTTTT
CAGAATGTAATTATGTATGCTTTATCATTAAGCAACCAAGGCCTCAGAGACTAAATTTCTAATAAAATGGGAAATTAGCTAGAAAATAATTGCA
ATGCCTTTGACTCTCAGAACAAAAGGGCAGCCCTCAGTGTTGGTGGACCATCTGCCGTCAAGTTTTAATATCAAAAGAGATTTCCCTTGCAACT
CTGAGGTAGATGTGTATTGATGAAATACAACAAATTCCAAATTAATCCTGAGCCAAGTGTAAATAAGAATGCAAATTTGTTCCCTCAAATTAGT
TGAAGCAGTTCCCAACATTAAATAGCGTAGCACCTGGCCAGCTGCACTTCTCTTCCCTCTGTTCCCCCATTGTTACTCAGGGGGGAAACTCTAC
CAAGCAGAGAATAGCCTGGCTAGAAGTAAAAAGTACTATTTGATGCTGTATGCTTAAAGGCAATGTAAAAGATAGTAGCCTTTGAGAGCTGGCC
TCTCTGTTTATAGGGCCGTCTTGCCACTGATATTCTGTCTACCCCAAGTTGTGAGAATCTTAAAGTCTAACCTTGTATTATTTGCTATCATTTA
AAATGTCTTTGTTAATTCTTTGAGGATTTCATGCATTGTGTTTTGATGACATTCATCTCCAAGTCCTTTCCTTAACTCTTCGGACACCCCTGGT
CTCCTACTTCTTGTCTTCTTCGTCGTTGTTTTGTTCAATAACCTACTGACCTAATTTGTGCTACCCATAATACTCGAAGCAACTCACTGTAGTA
AGCTCAGCCTGCCAGGAGTCTCACACTCTTAAAGAAAACTGACTCACCCTCCCCCAGAAGCCACCAACTGTCCATAGGTCTGCAGTTGAGGGTA
AGGGTTTATAAACCCCTCCCACATCATCGTTGATTGGTCTTGTGTAGGCTCTGTGAGTTTGCAATGCCGTGGTCCTGTCATGCCCAGAAGACA
CTGATTTTCTTCATACTTCCGCAGTCTCTGACCCTTAGAACCTTCTATCCCTCTTCTAAGTGTTGGAGAGAGCTGTGATATGGATATTACATGG
TGGCTGAGGACTTCTCAGTCACGTGTTCTCTATGTTTAATAACCTATTGACTACAGCAGTGAGTTTCTGCTTTAGCCATCATCCAGTAAACCGA
GAAGAGTATCTGATGAGGTCTAAGAGCTTCACTAATATACAGGTGAAGAGATAGGAATTTAGAAGATAGATTAGTATTGTTCCCATTTAGCAAA
GTAACAGTAGTAGATTTACATATGGGGCCTATGAACTGCCTAGCCATGGGTTCTTGGCCAAATTTGCAGGCATATGCTAACTCCTATGAAGCAA
GTCTTAAGTTTAAGAAGAAAACGGTTGGTTGCCTCTCTGACGTTTGTGCCACCGTTGCTGCCATGGGCATATCTTGTCACGGGGGTCATTATTG
AGGTTCACAGTGTTCACAACTGGGTAAAACTGATTGGAGCTCTCTGCCCTGTCAGCAGCCTTGCATGATGTCTTCTGGTATTGTGAAAACTAGC
AAGGATGGAGGACTCTTCCTGGTCAGTATGAATCCAGAGAGGCAAACATACCATGTAGATTTTATTGCTGAATCTTTGTATTTGTGTGTTTAAT
TTGGATGGTCGGTATAATCGAGGAATCTGGAAAGGGTTCATTGGTGGGGAAAGGGAAGAAAAGATCTTAAGGAGGGGAATGGTTAAACAAAGAG
GAGAAAATGGGGAATAATGGAAGGGAGGCTTAAGTGTGGGGGATGAGAGGATAGACTAGAGGATGGGTTAGGAGACAGACAACTAACACTGAGA
ATATTTGGAAAAGCCACTTGGAATCCCACTATTTTATAAACTGTATAATAATGTATCCTTTAATTCATCCTACAAAGGGGAGTATGCTTATTTT
AGAAGCTATAGAATAAAAAGCCCAGTGCTAGGTTCAGGGTACCTCTCCACTAGTTGTTGGTCAGAGGTGTCCTAGGAACCCTGAAACAATACAG
GCTACTGCCATTGCTCATGGTATTAAGACTCTGTTGCTGAAGACACCACATGCTTCAGTCACAAGACATGGAGAAGTCAACTTGGTATTTGCTG
TCACCTTTTAGGACAACTGGATGAACTGTAGGCATGGTTATTTCTTAACTCAGTTGGATTGGGTCCCTGTAGCTTTCCTCAGGTACATGAACTG
CTCTGATGAAAGGTGGGTGGGCAGGAGTACGGAAGAGGAAGACCAATACACCAAGTCAGCTCTTAGGGCAGTCAGCCTTCTCTTGCCCTATGTA

GAGAGAACTCAGAATACCTCAAAGATATGGAAGGTAAAGAAGAAAGCACACTTCACCCAGGTCTAGTGGGATACAGGAAGGGGATTCAAAGGAT
GTCAGAGCAAAGGTAGCTATTTAATACAGTACTGATCCTTGGTGGAGAGGAAACACCTTGCTTTTTAATTGGCCCTTTGGTTTCCAAAGCATAG
AATTTGACTAATGCTGTTTGTATGTTAAGCTACATAAGTTTCATGCATATTTTATAACCTAGCCCGATATTCAGCCTATGTTTATTGAAGTATA
AAGTGTAGCCTGACATGAGGTTGCATGTCTTTAATCTCAGCATTTTGGAAGCAGAGGCAGGCAGATTTCTGGGTTTGAGGCCAGCCTGGTGTAC
ATAGAGTTCTATATACCAGCACAGGTACATAGTGAGAACATGTCTTTAAAAATAAGACGAGAAAGGAAGGAAGAGAGGTAAAGAAGAAAGAAAG
AACATTCAGAACGTCAGAGTAAGCGTGTGAGTGTATTTGGTGGCAGTAATCATTTCATATATTGAAAACTCATGACTGTGCACCTAAAATGGAA
TCCTATCAGTTTCCAGCTTTACCATGCAGTGGTTTAGGCCTAACTATTCAGAGCTGAACATGGGCTAGCACTATTTTGCTATATTCTTCCTTAC
CTGTGAGGGTATAGTTTTTTTCCCCTCCCCACAGTGGTACCTGAATTGTGGCTGATATCAAACATTACATATATGATGCTTTTACATATCTATC
ATAAAGTCTAATCTATAGACTAGGCAGTAATGAGATACAGAAGTATGATAATAAACTGTAATATAAAGCATCCTAATCCTATGAGTTGTTTATT
TCTGCATCTTCTGACTGCATTTGCCCCAGGTAACTGCACTACAAAATGCTGAGACTGGTGCACAGGGAGATCCACTGTTTTTTCCTGTACTGGG
AGCTTTGTTTGTTGAAGCATAATGCCATTTCTAGTGTTTCCACCAATACTTCAATTGGATCTGATTAGGCAGATCTTCCATATGTGGTATTGGT
GAGCATACTGTTCATTTATTAAATAGTCTAACTTGGATACTTTCTTTCCCTTTTACTATGAAATAAATATCTGACAAAAGCAAATTAAGGAAGG
AAGGGCTTGTGTTGGCTTGTACGTCGTTGGAGGGTGCCAGCCATCATGGCGGCAGGAGCTTGAGGCAGGCAGCGGTCACATCTCCCCCAGGCAG
GAAGCACAGAGCAATCGACACTACTGTTCAGTTTGCTTCCCCCTTTTTATGCAATCCAGGACCCCAGTGCAGAGAACAGCACTGCGGTGTTTAG
AGTATGTAGTCCCAGTTCAATTAACTAGTCACGATAATCCCTTACACATACTCCCAAAGGCTTGCCCCTGGAAGTGACTCTATTTTGTCAAGTT
GCCGGTCACTATCAGCCTTCTCACTGAATAAAGAACATTTCATAGAATCTAAAACTTTTCTCATTTGTACTTTTAAGATAAATTAAATTTTCAA
TGGATCTTTAGCCAAACCATTTGGATATTCTTGACACTGCATAGTTTTTCGTTATTTTGGTTTTATTTTCTTGAAATGAGCTCTTACTATATTG
TGTAGCCCAAGCTATCCCCAAATTTGGGACAATCCTTCTGCCTTGGCCTTCTGAGCTTTGGGATTGCAAATTGAAATTCACTGTGCCTAGCTTT
TACCTAAAACAACAAAGCACTATTCCCCAAATATTTTACAAGTTGACTGTTTTATAAAATACAAAATATTTGCCACTTTTCTAGTGTAATAAAT
TGCAAATGTAATTAAAACCAGTTTTAATANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

TAAATATCTAGTCCTGGAGGAAAGACAAAATATCACTCCAGGGATGATCAACCTGGAGATTTATCAAAGTCACAATTCTTTTCAAATTGATAAG
TTGATATGATTCTCTGAACAGGCATGGACAGTTAAGAGTCATCTAACATACCATACAGCAAAGGACGGCTCAGTGTGTGGCCATCAGCAGGAGC
AAACATAACTTATATTGTGGTGGAAGCTTAAGAAACTTAATTTGCATACAGGAATTTTATTCTGTATTAAATCAGGCCAAGTAGAAAATTTCTT
TTTTTTAGTAGGAAAAGCTCTTAGAAAAAAATAGAAATAAGCCTTTTTTGTTTCAATATGTTTTTTCCTTCATTCTTCCTCCTCCATTCTTTTG
AAGATACATGTTTTTGGTAATACACATACATATATATATGTGTGTGTGTGTGTGTGTGTATGTATATATATATATACATATATGTGTATATA
TATGGTGTAATTTTAAATCTACATGCACAGTATCATTAGGTTAAGTTATACAGTAGCCTCCTCACTTAGTCAGTGTTTCTAAGCACTACATATG
CTTCTCTGTAGAGGATACACCATTTGATTTGTTGTCTCGTTTTTTTGTTTGGTTTGGTTTTTTTGAGACAGGGTTTCTCTGTGCAGCCCT
GGCTGTCCTGGAACTCACTCTGAAGACCAGGCTGGCCTCGAACTCAGAAATCCGCCTGCCTCTGCCTCCCGAGTGCTGGGATTAAAGGCGTGCA
CCACTACTGCCCGGCTCTGATTTGTTGTCTCTTAACTGCTCATTATTATATGTCATATTTTGCTGCAAGGATTACAGGCCCTAACTCAGTAATT
AAATTGTATTAGTTTAGGTGATATAGTGTGTCTGTTTGATTTCTGTGCTGCACTGGAAAACCTTCGCTCCTGCAAGTTAGCAGGCAGTAACACT
CAAGCAGAGGCGCTGGGCGGACTGAAACCCTGCGCAGAGCCATGTGTGTTCGGTCTGTGCATTTGGATCCAGGGAAATACTCATTTTACAGCAC
TTCTCAGTCTTCCTAATCTGCAACCGTTTAATACTACTACTGTTTTGAATTGTAAAGTATGAATCTGTGTTTTCCCATAGTCTTAGGTGACTCC
CTCAACCCTCCCCCACACCCTCAAAGGAGTTGCAATCCACAAGTTGAGAACAGCTGGTTTAGAACCATTTCAAAGGATGTTGTAACTAAGCTTA
TTGTTAGGAAAAATATCAAATGTGACTTTGTGTTCAGAAGTCAACCTGGGATGGCTGCCATCTTGGTTGCAGCCTGTCTGTGACATGCTGTCCC
TTGGAATGCTGTAGGACGATTCAGTGGCTATGGAGTATGTCAAGCTGCACCTGATTGTTTCGAGCACACTTGTGCACTTGGCTGTGACTGAGAG
GCAGCCAGGCAAGCTAAGAGGCTGTGACTCAGGGAAGTCAGAACACAGCGCGCTGCAAACTGAAAGTCACTGGAACTTTAGTGTAGTCACTGAG
GGGGGTGGCGGGGAGATCAGGACCTCAGCACCATGTCCAGCAGTGTTCCTTCAAGGTTGCCATAGTTACTCACCAACAAGCATGCCTCTTCTCA
CTCCACCCCCACCCCCACCCCCATGGTTCTGTCTGTACTGGAAGGTCCTGGTGATAAACCCCTGAATTTCCTATGCACATCCCTGCTACGTTCC
TCATAAGAGGTCTTAGAGGTATGGGCTGCTGAATCCCACCTCATTCAGATTACTGTCCCCTCGTTCCTTAGTGATCTAGTCTTGAGTGTGTTGC
TCATGTGCTGTCTTCTATGTTAACTTCCTGCTGTGTGACCTATGTGGGGTGCTACAGAGGTGGCCACACCATGGGTGTTCTGTGTGAGAGTTTA
AGTGTGACAGGATCACAGCAGTGCAGTGTAAGGGCCGTTCCATGATGCCTTGCAACCACTACATCCTTTGTTTCTCCATAGTCTTTCTCACCAA
CACTGTTCAAACCGAAACTCCCCACCCTCACTATCCTTTCCCTCCGGCCGTTCTTAAACAGCGTTCTCAGCGTCCTGTGTCCTGTTCTCTTGCA
TGTGGCACTGCAAACCGCCACGCGCCGGGGTTTTTTTTTTGCAGGGTATAAAAGCACATGTGTGTTTTATCTCTCAAAAGACGCTTGAGGTTCT
GGAGAGCAAAAGCTTCAATGTTGGAGACAAAGCTATGTAGCCCATGTTGGCCTTCAATTCACTAAGTCTCAACATTCCCTTCCTAGTGTTCTTG
CTTTTTGTTCTTTAAAAAATAATTTATTTATCTACTTTATGTGCATTGGTGTTTTTGCTTGCATGTATTTTCTGTGTGAAGGTGTCAGATCTCCT
GGAACTGGAGTTACAGACAGTTTTGAGTTGCCATGTGGGTGCTGGGAATTGAACATGGGTCCTCTGGAAGAGCAGCCAATCAGCGCTCTTAAGC
ACTGAGCCATCTCTCCAGTCCTACTTCTCTACTTTAGAACCACTGTTGTATTTGTGCTATGAACGCTGTAAACCATCCTGAGAATTAAGTGGGA
CATAAACTGTACATATTCCAGTTTGAGTAGACATGGAGAAACAGCAGGAACCAGGAGATACAGTGGGCAGAACACCGTTCAAGCTATTGTGTGT
ACACCATAGCCTCACTTGGGCAAGTTCTCTCTAAACCTCACCCCTTCATTTACCTGTCCAGCTACGGTGTGTCTGAACCTTTCCTCGTGGTGTG
TCTGCACTATGTACATGTGACTATGTGCATAAGACCCAGTACTGTCCTGGGTATCTGTATGTTGCTCTTCATTACTTTTATCTTGTGATTTCCA
ATGTATCCCTTAAAACTACGCTAACGTGGGGCTGGAGACATAGCTCAGTCCGCAGACTTCTTCTCTGCCATACATTAAACCCTGACCCAGCACT
TGGGGAGTTGAGGCAGCACTTGGGGAGTTGAGGCAGGGGAGTCGAAGTCAGCTCAACTACACAGTGAGTTCAAGACCAGTCTGAGATACATAAG
GCTCTGTCTAAAAGGAGAGGAAAAGGTTAAGCTAATCTAGGAGTTTGGGTTGTAGTTTAATGGTAGAGCATTTGCCTAGAAAGTGTGTGAGGCT
CTGGGTTTAACCTTCAACGCCGCAAAAAGAAGCTGTGCTGATAGACATACTAATAAAGATAACTTTGAAATGTACATGTGTGCAAATAGATGTA
TGTGTTTTAGATATTTGTATGAATTGTGTGGGTTTTATCAGGTAGTGGTACATTACAGAAATTACGCTGCTTGGCTCAAGGGCTCGTCAAGTCC
ATGGAGTGAGTAAAGGCCTAGGATCTATCTGCCTCAGGTATCTGTAGAGTGATGCCCAGATTCTGTCTCCAACCTTGGAAAACTGCCTGCGAGG
CAGAAGGCATTCCAAGAACAAGATGTTACATCTTACGAAAGTTCTGAGAGACAAAGGCTTGCTAGCATGGACTGCTTCCCGCCTGGCTGCCCTG
CTAGGGTGGGGAAGCCTGGGCCTCCTGGCCTGACCCTAATGTCTCCTTCTCCCTCATTAGCCATGCAGTGGTGCCTGGGAGCCAGCATCCT
GTGGGAAGACAGAGGACCAGATGACGGCCTCCGGTCCGGCTCGGAAATACGTGAACGCGTTCTCAGCTCGAACTCTGGTCATGTGAGACATTTC
CAGAAAAGCATTATGGTTTTCAGAACACTTAAAAGTTGACTTTCGACACATGGCTCCTCAGCGTGGAGCGCTCCATGGCTGAGAGAAGAGCCTG
ATTTTGTTGTGGTACAACAGTTGAGAGCAGCACCAAGTGCATTTTTAGTTGCTTGAGATCTCACTTGATTTCACACAACTAAAAAGGATTTTTT
TTTTAAAAATAATAATAATGAATAACAGTCTTACCTAAATTATTAGGTAATGAATTGTGACCATTTGTTAATATCATAATCAGATTTTTTAAAA
AAAATAAAATGATTTATTTGTATTTTAGAGGATACAACAGATCAGTATTTTTGACTGTGGTGAATTTAAAAAAAAAATTTACACAAAGAAATAT
CCCAGTATTCCATGTATCTCAGTCACTAAACATACACAGAGAGATTTTTAAAAACCAGGAGAAGCATTATTTTGAATGTTAGCTAAATCCCAAG
TAATACTTAATGCAACCCTCTAGGAGCTCATTTGTGGCTAATAATCTTGGAAATATCTTTATTATACTAAACCATTTCATGAGGAGAATTTTGT
TGTCAGCTTGCTTGAAAAGTTATTACTGTATGAAATAGTTTTATTGAAAAAATTATATTTTTATTCAGTAATTTAATTTTGTAAATGCCAAATG
GAGAAATGTGTTCGCTGCTATGGTTTTAGCCTGTAGTCATGCTGCTAGCTAGTGTCAGGGGGCAATAGAGCTTAGATGGAAAAAAGAGAAAGAG
ACTCGGTGTTAGATAACGGACTATGCACTAGTATTCCAGACTTTTTTATTTTTATATATATGTACCTTTTCCTTTTGTAATTGGAAAACTTATT
TGGGAGAATTTTGCATTTGTTGTACATTTTTGTTTTTTAGGATTTTTTTTTTTGTTGTTATTGTCGGTTTATAAAAGCATTGCACTTCTTTTTC
TTTTTTTGGGAGATTTGTGTTGTTTATGTCATATGTTTTGTTTTGAGTTCAGCCTGAATGTTCATCCGTTTGGGCGTTTTTCTGACTTGGAAGA
ACATTCTCTGTAGGTTTCTAAGTGTACAGAGCCGGAACTGCCTCGTGGTTCCTGGGCTTCAGGGAAGACAAATATGGAAGTCAACAGCCAGTTT
CTGCCTTGAGAGCATTTGCAAGAATGCTGGCCTTGAATTCTGAAATTCTGATAAGTACAGTGTATCTACTGCCTTGTAGCAAAATAAAGCTATCCTCTTATTT
TACATACTTCCTGATGTCTCTCGATTCTGTGATTTGGGGTGGTGGTTACATATTCGAGGAGATGAGACAAACTCAAAATAATCTTCACTTTAAA
AAAAAAATGTGCTTGCCATCTAACTTTTTACATGGAGAGTCATCGCCACTTCAGGGAACGAAAAGACAAACCAAGGTAAGTCCACAGAACCGTC
ACAACGACCGTTGGAGGGCTCTTCCAGCCTGTGTCAAACAAGGGCACTGAAGCTCTTTAATTGAAACAATGCACTCTAGAAGTAAATGCTGGTA
TCTGAGTTAGGGAGATGGCTCAGTCTGGAATGTTCTTCTGTCAAGAATATAACCTGAGCCGGGCGTGGTGGCACACGCCTTTAATCCCAGCACT
CGGGAGGCAGAGGCAGGTGGATTTCTGAGTTCGAGGCCAGCCTGGTCTACAGAGTGAGTTCCAGGACAGCCAGGGTTACACAGAGAAACCCTGT
CTCGAAAAAACAAACAACAAAAAAGAATATAAACCTGAGTCCCCATCTCCAGAAGCCCCACAAAGCCAGACAAGGCATCCATGTCTATAGTCCC
ACCAGACAAGGCGTCCACGTCTATAGTCCCAGTATTCCTGTGGCAAAAAAACGGGAGTTGAAGATTCTCGGATGCTGGCATGCACCCA
GCAAACCCACACAAGAAATGGCAGAGAGCTAAGAGATGCTGTCTCAAGACAAGGTTTGAGGGGAGAACTGATAGCCAAGGTTGTTCTCCATAGA
GGACATGTGGCATGCATATGCCCCGCCTCCACCATGCACACAGAGGCTCGAGAATTTAATCGCATATAGGTAGGCTGTGAGAACTGAAAGGTCA
TGCTCATGGAAATTAGGAGACTCTGAGAGATGCGATGAGCCCTGGTGATGCAAAGGCTTTCTCTTTCTGCTTCCCAGCCACTCTGATGCAAACT
GCTCCACTTTCCCATCGTAATGGGCTGACATCTCTGAATCTGTCTTTCCACAAGCTGCTTCTATATTTTATCACAGTGAAAAAAAGTAACAAAC
ACAGGTGTTCCAATGTGGTCTATTCAGTGTTCAGTATCCCTTGCACAAATACTGATTGATTCTCACAACTCAAATCCAAACTCCAATTTTGAGT
TTTCATAAGCATAACATAGTTGGTGTTCATCAAGCCAAGGATATGATAGATCTAATGACTAATCTTCAGAGCTATTTTATAATCCTTGATCCTG
GTGAGCAATACATTTTCTGAGTGTTGAGTAGTATAACTGATGAGTAGCTTTTGTCAGAAAATGGAGCCTTGATGACCAGTTAGCTATCTCAGTG
AGTCAAAGTATTAGAGATGATGAATGTGACTAGCAACGAGGAGCCTAAGTGTGTGGTTCAGTGGCAGGGCAAGAGCTGAGCATGTGAATCCCTC
TTATAGAGGCTTCGACCCTCTATAAACTCTTACCTATATGTAAATCATAGTTATATGGCAGGCAACTGGGAATGGCTGTTTTACTACCCAGATT
TTTCTAGTGACTTTCAGGAAGGCAGTGGTCATAGGTTTATAACACAATGCTTTAAAGTATATTGTTCTCTAGTTCTGGGTGCTAGAAAGTCCAA
GTTCAGTAGGTGGATTTAAAGTCTGGCGAGAGCATACTTCCTGTTTCGTAGAAGATACGATTTTGTTGTGTTTTCTGTTTTCACATGACAGAAG
GCCCTGGTTTATTTTGTTGATTGGGTGGGTAGGTAAAGTGGGTGGGTGGTTTGGTGGGTGGGTGGGTGGTTAATTGGGTGGGTGGGTGAATGGT
TGTTTGGTTGGTTGTTTGGGTGGGTGGGTGAATAGCTGGTTAATTGGTTGGTTGGGTGGGCGGATGGTGGTTATTTGGTTGGGTGGGTGGTTGG
GTGGGTGGTTATTTGGTTAGGTGGTTGGGTGGTTGATTGGTTGGTTTGGTTATTTGAAACAGGGTCACCTGTAACCCAGGCTGGCCTTGAAGTT

GTTATGTAGCTTTGAATGGTCTTGAATCCCTGAACTTCTTACTTCCAATTTCCAGGCGCTGGGATTATAGGCATGGGCCAGTATACCCAACTCT
TGCTAGTTTACTTTGGTTGTTGGTTTTGTTTCATGTTTTAGTGACCCTACTCTCTGTGACACATGTACAAATGCATGGATGTACTATATTTACT
ACCTAAATGAGAAGCTATTCCAATGTCACTATAAAGTGGCATGTGAGGAACAGGAGAGACACTGAGAGGACCAATACTGTCCACTGACCTCATA
TAGGACTGGTAGATGCGAGTGTTGTCANNNNNNNNNNNNNNNNNNNNTTCTGCATCACCAGGGTCCTGTGTTAGGGCCCCCTGCATTGCCTCAT
CTGATCTGAAGTCTGACAAAATTTGGTTGTAATTCAGACTTTACCATCGTTGTTGACTTCACACAAGTTTGATGTCATCTCTCTAAGTTCATTT
TACTTATATTGGATATCAAATATAGGTATTATGAAGATGTTGTGAAACAGGAAATCCATTCATGGGTCTCTCTTAAGATTCTGTGGCACCTGTC
CGTAAGATGCTTTGCTAGTTCATCTGTGCAAACAAGAACTGTGTGTGCCATTCGGTGATGAGGAATGAAAGATTTCTGAGGCTCATGTCCCTGC
TTGCAAGTTACATGTACTCAAATATAAATATTCCTTCCTAATATTCTCAGTTATTCTACAGTAGATAAATTCTTCTTATGTAACATATATGCAA
ATGACAGCACAGCTTCCCTTCAACCTCTTGGTTTCTAGTGCAGTGTATCTTACACACACTCGTTCTCATCCATTGCCGTTCTCATCCATTGCCG
GGGGGTGATATCAGCAGGGATGCAGGGTGGCTAAGTGCTTACTGCATCTACTGTCAAGGAGGGAGGTGACCTGGTTCCCAGCAGTGAGAAGTGA
GAGGCGAGGGGCAAGATAGGAGGCTGTGAACTGAGGTTTGGACTTTGTCCTTTGCGATATGGGGGGTTATTAAAGGCTTTTAGGTAGAGAAATA
AAATGATTAATTTATATCTGATGTATAGAAATCCTGTTCAAACTCTTTATTCACATATAGTATAAAATTAATCCTCAGATTAGTAGGGAGAGAT
GATCAGAGTCCAAATTCCATGCCAGTTAACTTATTTTTCATAGCATGTTTCCTGCTGCCTAATTTCAGAAGCATGCATTTTAATCCTAGAAAAT
CTAACTCGGGGGGGAAAAAAAAACCAACTCAACTTTGATCTGTGCTTCATGAAACATCATTTCAAGTGTTATAATCCATAAAGTAGAAATTGAC
TCAGGAAGAAACGATTGCCCAGAACACTTTTCTCCTTTAGAAGTGGGACTTTTCCAACCATTACTTTCTCAGACCTTCTCTGCTAAACCTCCCA
CTGAATCATTATGTGGTCTAATCCTTGGTTCTTTATGGATATTTTGATGGATTTTTGTATTCACTGATTAAGGAATCTTTCCAGCATTTGTTCC
TGAAGAAATTTCAATGTAGTGTTATATTGTAGTCTACCCTTCACACTAGAACACCAATGATCAGTGGGTCTTGGGTTTTATTGGACACAGAGGC
TAAGAACACTGGTAGATTGAAGTTAAGTCAGGAATGCGTCCTGTGTAAACTCTGCATCCCATGTTTGACAGCCACCAAGTGACTCCAACACAGG
AGGACTGAGGGAATTGAACTACAAAGACCCGGTTTTGTGAACAAATTTGCAACCTGAGCTTTCTATCTGACCATTCCGCAAGCCTTACCCGTTT
CTATTGAAAATGTCCATTGGTCTGCAACAGAACCTTAGAAAACATAACCCACAGCTACAGGGTTTTCTTAACTCTAAGGATTTAATTTGTTACT
AGTGTTGGTAATTAGGTCTTTTGTCTGGTGTTTACAATTGCAGGAAGCATAATTTCATTCACAATACACTTGGGTCTCTCTTATCATATGGCTC
TGTTGTCCGCGTCCCATCAAAAGGGAATATACATCGATGAATTCAACATTAAAGCAAAGCAAAGCTGTTGTTCAGAGAGATTCTTATTTCGAAA
CCAGGCTGCAATGAACTTGCTGATCTCCTTTGTTTGCCTAAACCTCTGAGCTTTAGGTTTCCGTTCAAATGGAGGAAGTATTTAATCCTGTATA
TAGTTACAAAGCATACAGAATTTCTCAGATCAGAGATAAACAAAACTCAAAGAATGCTTCAGTAGTCCAAAGCCATTGGAACACACAGTGTGGG
CTGCGAGATTTTTAGGTCAAGAACACCCTCCAAGATGAACCTACTATGCTTGGAGAATATGTAAGGACAGAGTCACGGGTTGTTTTCATTTGAC
TGATCTCTTTAAAAACATAAGTGTTTTCCCACTTTCTAATAGTACTAAATATATCTGACCATGGATGGAGCAACTCATCCAGCTAGTAGGGTTA
GAACCTACCACTCATTTTTTTCCAAAAATTCTTTTTTTATTGAGCACTTCCAATGCAAGGCCGAGTTCAGCTGAGTATATACAGCTCACAAACA
TAATAAGTACACACAAGTATAGTGTGTACAACATTCACAATTATAGGCAGGATCATTTTCTTGGATACCCTCGAACATATGAAGGAAAAAAATA
GGCTTATACTTTGGTAACTATGTTTCTTTAAGTCATACCTGTCACTGTTTAGGTAACCAAGAACCAGAGGTTAGATGGACCAGAGACCTACAGT
AAGAAAGCATAAAAGATAGTGATAAAACGACCCCTAATGATATTCTGCTATAGTCATAGATCAGTGGCTCTGTTCAGCCATCAGAGAAGCTTCC
TCCCACAGCAGATGGAAAGAAATACAGAGACCCACAGCCAGACATTACACACAGAAAGACCTTAGAACACTCAGCTCCAAGTGGGATGTCTCCA
TCCATCAAATCTCTCCCCTCAGAGCTCAGGGACCCCCCCCACACACACACACACACAGAAGAGGAAGGAGGGTAAGAGACAGAGGAGGTG
GGCCACCAGGAAAACAAGGACCTTTAAGTTTACATGAACAAAGCACATATGAACTCACAGAGACTTAGCAGCAAGCACAGTGCCTATACACGCC
TGCACCACGTCCTCTGTGTGTATATAACGGCTTTCAGTTTTGTACTTTTATGGGACTCCTGTCTGTGTTTAAAAATGGGTCGCTGATTCTTGTGC
CTTCCCTTGGGGCTCTTTTCCTTCTGTTATTTTATCTTGTCCAACATCAATGCGATGGTGTTCTTTCTTATTGTGTTTTATTTTGTCATATTAT
TATTATCATCATCACTTAGAAGCCTATTCTTTTCTCCTGAGAGACAGGAGGGGAGTGGATGCAGACGGGAGCCGAGGGACAGAGGGCCTGAGCA
GGATGGGGGATGGGAAATGATCATCACTCTATTCTGTATGAGAGAAGAATCTACTTTCAATTAAAGTGAGGAAAATCTAAGATGTCTCTTTTAA
NNNNNNNNNNNNNNNNNNNN

GCCAAGACCGCCAGGCAGGAGAACCCGAACTCCAGCTGCTCGGCCTGATTCTGATGGAAACCCTGACTTCCGGCCAGCTCACTGCCTTTCGGGT
GCTGTAGGATCCCTGCCCTCCCCCAGCATCAGCTTCCGCAGAAGACAAGTGTGCTCGGGGCTCCTCTTCACACCCTTGAGCCCACACTCCCACG
GGCG

MOUSE SEQUENCE - mRNA
GGGAGTGTCCAAACCTCTTTGTTTGATGGCATCTGTTTACAGAGTTACACTTTAATATCAACCTGTTTCCTCCTCCTCCTTCTCCTCCTTCTCC
TCCTCCTCCTCGGTGACCTCCTTCTCCTCCCCTTTCTCCGGAGAAACTTGCCCCCGGCGGTGCGGAGCGCCGTGCGCAGCCGGGGGAGGACGCA
GGCAAGGCGGAGGGCAGCGGGAGGCGGCAACCGGTGCGGTCCCCGGGGCTCTTGGCGGAGCCCGGCCCGCCTCGCCATGGCCCGGAGACCCCGA
CACAGCATCTACAGTAGCGATGAAGATGATGAAGACATTGAGATGTGTGACCATGACTACGATGGGCTGCTGCCCAAATCTGGAAAGCGTCACT
TGGGGAAAACTAGGTGGACAAGGGAAGAGGATGAGAAGCTGAAGAAGCTGGTGGAACAGAACGGAACAGACGACTGGAAAGTCATTGCCAATTA
TCTGCCCAACCGGACAGATGTGCAGTGCCAACACCGGTGGCAGAAAGTGCTGAACCCTGAACTCATCAAAGGTCCCTGGACCAAAGAAGAAGAT
CAGAGAGTCATAGAGCTTGTCCAGAAATATGGTCCGAAGCGTTGGTCTGTTATTGCCAAGCACTTAAAAGGGAGAATTGGAAAGCAGTGTCGGG
AGAGGTGGCACAACCATTTGAATCCAGAAGTTAAGAAAACCTCCTGGACAGAAGAGGAGGACAGAATCATTTACCAGGCACACAAGCGTCTGGG
GAACAGATGGGCAGAGATCGCAAAGCTGCTGCCCGGACGGACTGATAATGCTATCAAGAACCACTGGAATTCCACCATGCGTCGCAAGGTGGAA
CAGGAAGGCTACCTGCAGGAGCCTTCCAAAGCCAGCCAGACGCCAGTGGCCACGAGCTTCCAGAAGAACAATCATTTGATGGGGTTTGGGCATG
CCTCACCTCCATCTCAGCTCTCTCCAAGTGGCCAGTCCTCCGTCAACAGCGAATATCCCTATTACCACATCGCCGAAGCACAAAACATCTCCAG
TCACGTTCCCTATCCTGTCGCATTGCATGCTAATATAGTCAACGTCCCTCAGCCGGCTGCGGCAGCCATCCAGAGACACTATAACGACGAAGAC
CCTGAGAAGGAAAAGCGAATAAAGGAGCTGGAGTTGCTCCTGATGTCAACAGAGAACGAGCTGAAGGGACAGCAGGCATTACCAACACAGAACC
ACACTTGCAGCTACCCCGGGTGGCACAGCACCTCCATTGTGGACCAGACCAGACCTCATGGGGATAGTGCACCTGTTTCCTGTTTGGGAGAACA
CCATGCCACCCCATCTCTGCCTGCAGATCCCGGCTCCCTACCTGAAGAAAGTGCCTCACCAGCAAGGTGCATGATCGTCCACCAGGGCACCATT
CTGGACAATGTTAAGAACCTCTTAGAATTTGCAGAAACACTCCAGTTTATAGATTCTTTCTTGAACACTTCCAGCAACCATGAAAGCTCGGGCT
TAGATGCACCTACCTTACCCTCCACTCCTCTCATTGGTCACAAACTGACACCATGTCGAGACCAGACTGTGAAAACCCAGAAGGAAAATTCCAT
CTTTAGAACTCCAGCTATCAAAAGGTCAATCCTCGAAAGCTCTCCTCGAACTCCCACACCATTCAAACATGCCCTTGCAGCTCAAGAAATTAAA
TACGGTCCCCTGAAGATGCTACCTCAGACCCCCTCCCATGCAGTGGAGGACCTACAAGATGTGATTAAGCAGGAATCGGATGAATCTGGAATTG
TGGCTGAGTTTCAAGAGAGTGGACCACCGTTACTGAAAAAAATCAAGCAGGAGGTGGAGTCGCCAACTGAGAAATCGGGAAACTTCTTCTGCTC
AAACCACTGGGCAGAGAACAGCCTGAGCACCCAGCTGTTCTCGCAGGCGTCTCCTGTGGCAGATGCCCCAAATATTCTTACAAGCTCTGTTTTA
ATGACACCTGTATCAGAAGATGAAGACAATGTCCTCAAAGCCTTTACCGTACCTAAGAACAGGCCCCTGGTGGGTCCCTTGCAGCCATGCAGTG
GTGCCTGGGAGCCAGCATCCTGTGGGAAGACAGAGGACCAGATGACGGCCTCCGGTCCGGCTCGGAAATACGTGAACGCGTTCTCAGCTCGAAC
TCTGGTCATGTGAGACATTTCCAGAAAAGCATTATGGTTTTCAGAACACTTAAAAGTTGACTTTCGACACATGGCTCCTCAGCGTGGAGCGCTC
CATGGCTGAGAGAAGAGCCTGATTTTGTTGTGGTACAACAGTTGAGAGCAGCACCAAGTGCATTTTTAGTTGCTTGAGATCTCACTTGATTTCA
CACAACTAAAAAGGATTTTTTTTTTTTTAAAATAATAATAATGAATAACAGTCTTACCTAAATTATTAGGTAATGAATTGTGACCATTTGTTAAT
ATCATAATCAGATTTTTTAAAAAAAATAAAATGATTTATTTGTATTTTAGAGGATACAACAGATCAGTATTTTTGACTGTGGTGAATTTAAAAA
AAAAATTTACACAAAGAAATATCCCAGTATTCCATGTATCTCAGTCACTAAACATACACAGAGAGATTTTTAAAAACCAGGAGAAGCATTATTT
TGAATGTTAGCTAAATCCCAAGTAATACTTAATGCAACCCTCTAGGAGCTCATTTGTGGCTAATAATCTTGGAAATATCTTTATTATACTAAAC
CATTTCATGAGGAGAATTTTGTTGTCAGCTTGCTTGAAAAGTTATTACTGTATGAAATAGTTTTATTGAAAAAATTATATTTTTATTCAGTAAT
TTAATTTTGTAAATGCCAAATGGAGAAATGTGTTCGCTGCTATGGTTTTAGCCTGTAGTCATGCTGCTAGCTTGTGTCAGGGGGCAATAGAGCT
TAGATGGAAAAAAGAGAAAGAGACTCGGTGTTAGATAACGGACTATGCACTAGTATTCCAGACTTTTTTATTTTTATATATATGTACCTTTTCC
TTTTGTAATTGGAAAACTTATTTGGGAGAATTTTGCATTTGTTGTACATTTTTGTTTTTTTAGGATTTTTTTTTTTTTTGTTGTTATTGTCGATTT
ATAAAAGCATTGCACTTCTTTTTCTTTTTTTTGGGAGATTTGTGTTGTTTATGTCATATGTTTTGTTTTGAGTTCAGCCTGAATGTTCATCCGTT
TGGGCGTTTTTCTGACTTGGAAGAACATTCTCTGTAGGTTTCTAAGTGTACAGAGCCGGAACTGCCTCGTGGTTCCTGGGCTTCAGGGAAGACA
AATATGGAAGTCAACAGCCAGTTTCTGCCTTGAGAGCATTTGCAAGAATGCTGGCCTTGAATTCTGAAATGACAGTGTATCTACTGCCTTGTAG
CAAAATAAAGCTATCCTCTTATTTTACAT

MOUSE SEQUENCE - CODING
encoding71kdmybprotein,completecdsATGGCCCGGAGACCCCGACACAGCATCTACAGTAGCGATGAAGATGATGAAGACATTGAG
ATGTGTGACCATGACTACGATGGGCTGCTGCCCAAATCTGGAAAGCGTCACTTGGGGAAAACTAGGTGGACAAGGGAAGAGGATGAGAAGCTGA
AGAAGCTGGTGGAACAGAACGGAACAGACGACTGGAAAGTCATTGCCAATTATCTGCCCAACCGGACAGATGTGCAGTGCCAACACCGGTGGCA
GAAAGTGCTGAACCCTGAACTCATCAAAGGTCCCTGGACCAAAGAAGAAGATCAGAGAGTCATAGAGCTTGTCCAGAAATATGGTCCGAAGCGT
TGGTCTGTTATTGCCAAGCACTTAAAAGGGAGAATTGGAAAGCAGTGTCGGGAGAGGTGGCACAACCATTTGAATCCAGAAGTTAAGAAAACCT
CCTGGACAGAAGAGGAGGACAGAATCATTTACCAGGCACACAAGCGTCTGGGGAACAGATGGGCAGAGATCGCAAAGCTGCTGCCCGGACGGAC
TGATAATGCTATCAAGAACCACTGGAATTCCACCATGCGTCGCAAGGTGGAACAGGAAGGCTACCTGCAGGAGCCTTCCAAAGCCAGCCAGACG
CCAGTGGCCACGAGCTTCCAGAAGAACAATCATTTGATGGGGTTTGGGCATGCCTCACCTCCATCTCAGCTCTCTCCAAGTGGCCAGTCCTCCG
TCAACAGCGAATATCCCTATTACCACATCGCCGAAGCACAAAACATCTCCAGTCACGTTCCCTATCCTGTCGCATTGCATGCTAATATAGTCAA
CGTCCCTCAGCCGGCTGCGGCAGCCATCCAGAGACACTATAACGACGAAGACCCTGAGAAGGAAAAGCGAATAAAGGAGCTGGAGTTGCTCCTG
ATGTCAACAGAGAACGAGCTGAAGGGACAGCAGGCATTACCAACACAGAACCACACTTGCAGCTACCCCGGGTGGCACAGCACCTCCATTGTGG
ACCAGACCAGACCTCATGGGGATAGTGCACCTGTTTCCTGTTTGGGAGAACACCATGCCACCCCATCTCTGCCTGCAGATCCCGGCTCCCTACC
TGAAGAAAGTGCCTCACCAGCAAGGTGCATGATCGTCCACCAGGGCACCATTCTGGACAATGTTAAGAACCTCTTAGAATTTGCAGAAACACTC
CAGTTTATAGATTCTTTCTTGAACACTTCCAGCAACCATGAAAGCTCGGGCTTAGATGCACCTACCTTACCCTCCACTCCTCTCATTGGTCACA
AACTGACACCATGTCGAGACCAGACTGTGAAAACCCAGAAGGAAAATTCCATCTTTAGAACTCCAGCTATCAAAAGGTCAATCCTCGAAAGCTC
TCCTCGAACTCCCACACCATTCAAACATGCCCTTGCAGCTCAAGAAATTAAATACGGTCCCCTGAAGATGCTACCTCAGACCCCCTCCCATGCA
GTGGAGGACCTACAAGATGTGATTAAGCAGGAATCGGATGAATCTGGAATTGTGGCTGAGTTTCAAGAGAGTGGACCACCGTTACTGAAAAAAA
TCAAGCAGGAGGTGGAGTCGCCAACTGAGAAATCGGGAAACTTCTTCTGCTCAAACCACTGGGCAGAGAACAGCCTGAGCACCCAGCTGTTCTC
GCAGGCGTCTCCTGTGGCAGATGCCCCAAATATTCTTACAAGCTCTGTTTTAATGACACCTGTATCAGAAGATGAAGACAATGTCCTCAAAGCC
TTTACCGTACCTAAGAACAGGCCCCTGGTGGGTCCCTTGCAGCCATGCAGTGGTGCCTGGGAGCCAGCATCCTGTGGGAAGACAGAGGACCAGA
TGACGGCCTCCGGTCCGGCTCGGAAATACGTGAACGCGTTCTCAGCTCGAACTCTGGTCATGTGA

HUMAN SEQUENCE - GENOMIC
TTGAGAAAAACATGTAACAGTGTGAAGGTAAAAGGTATCTTCTTTTAAAAAGTATTTTGCATAGATATTGTTCTTTAAATGTTCCATGAGGATA
TCCTTAACTACCAGTTATTTAGAAGAAAGAAAGAAGCAGCAAAAGAGTTTTCAAAGAAAAAAAAGTATATGCAATCTAAAAGCCAGCTAAGGTG
CTATGCACACCCTCTAAGTCCCAGCTGCTTGGGAGGCTGAGGCAGGAGGATCACTTGAGCCCAGGAATTCAAAACCAGCTTGGGCAACATAGCA
ACATCTCATCTCAAAAAAAAAGAGAAAAAGTTATCAAAACTCCATGTAACCTAGATTAAAACATAATTAGAAATTTTATACATATATCAAAATG
TCATATTGTTCCCCATAAATATATACACTTATAATTTATCAATTATTGATAAAGAAATAAGAGCTTTTATATCACGATTTTGGTGTACCTGACA
TTTTTCAAACAAATTCCGCCTTTTGGGGCCAAAGTGCTCTCTGTCAAGCTCCATACTAAAGGATCAAATGAGCCTCCCCAAGCTCCCAGCAGAA

CTAGCACTTTGGAACTTTGTCAAAATTTTAAGACAAAGGATTATAAACACTTTGATATAGTTTCCTTAGAGGCTGAATGTTTTGCTTAACACAA
ATATTTAAACCAAATTAAGATAACTCAAGAACTGATATGTTTCATAAACTGATTGTTTTTATTTTTCTCAGAACCGTTACCTTAACTGAAGAGT
AAATTGGAATAAGCAATTTCTATAGATGTCAAAACTTTGTAAAATTGATTTTTTACATCATCCACAAACTTTGTATTTCTAGCAACAAATGTAA
AAGAAAGAGTAGAGTTATGGTACACTTCATCCTAACAGGGTTCACATTTAAAATCATGTAGTCCACTTCTGTGAAGGGCCCAAGAAAAATAACT
CCCTTAAATCCGTTCCTTTCTTCTTGTTCTGTTCGAGTTAAAAACTTTATTTTCTTAGACTTTGGTTAAAAAAAAAAAAAAAAAAAAAAAAAG
AAAGACATAGTGGTGATTAAAAAACATGCCATTTCTTACCAAATGGTTTTCACAAAGCCTAAAAAAACCTACAGTTGCTGGAATTAAGCACTCA
TTCACTTATTGATTTTATGACTAATTTTAAAATGGATGGCCCATTGAGGTAAATTCAATATTATATAAAGATGTAGTAAAGTCAACAATCAGAT
AAATATACAATGATAAAGTAGGAGAGACAGAAATAAGATTCAGAAAAATAATATGTGAAACATCATGCTTTAAAAGAAAAACAGTTCCAAAGTC
ATATTGCCAAACAGACAGAAATCTATCCAAATCATAGAAATAAAGCACTACAAGTAAGCTTAAAATTATGATTTTGCTATCATTTGTAAGGTTA
TCAACCTTTATCTGAGGACAGAATTGAATCCCTTTGAAGGACTCACAATACAGGAAGAATTACAAGAACATAAAGGCATAGGAGTTAAAAGTTG
AAGGCTGCCAGAGAGTAGCGGAAAGAACTTTGGATTTGGAACAAAAAAACCTTCATTTAAACAGTCCCAGCTCTGGTAAATGTTATCTGTGTGA
CCTTGTGCAAATTACTTCACCTGTTTCAATTTCAGTTACTTGACCTGGAATTGAGGAAAATAATACCTGCGGGGGGAGACATAGGCAGAAAGGCA
TGAACTGCTGTGAGGATTAAATGATATAATATATGGCACAGCCTGTTGTAATCTCTAAAGCCAAATATAACGTGCTAATAAGTATATTAAATAA
AAAATAAATAAAACAGCTCCAACTAGTTCTCATCAGTTGTCATCAGCACAACAAAGATTTATGTACGTACTTATGTTCAAGACCCCGTTCTAGG
AACTGAGTAGGTAGAAAGGTAAAAGATACTGTCTCTCCTCTCTGACCTATAATGAAGGCTCCAGATGAAATAAGACACATTTATAAATAGATAG
ATAGATGATGCTTAGATAGATAGATAGGTAATAGATGACAGATAGATAGATAGATAGATAGATAGATAGATACATAGATAGATAGATACATAGA
TAGATACATAGATAGATAGATGATAGCAAAGAAAGGTAACATAGGCCATACACTCAACAAGAGTCAGGGAAGGTAGGTATTAACACAACTCACA
GGTGGGAGAAATGACTGTGGATTAGCAAGGTCCAAGAAGGCTTCAGAAGGAAGATTTGGACTTCAGCAGGGCCTGAAGAATGGGTAGCACTTAC
ATAAGCAGAGAGGAGAAAGGAAGGCATTGCAGGCAGGAGGCATGCTTGTAACCAAAGGCCTGAGATTGCCAATGGTTTTTTGGGGGAGGAAACA
GAGTGAACAGAGTATGATAAGAGATAAGGCTGAAAGGTAGGTTGTGTTCTAAGGCAAAATGGCATGCAGTCAGTGTGCCCGTCAAGCCCTGCAG
GTTGTCTATAGCCAGGCCCACTCTGATTGGCCAATACATGAGCCACTTCAGGTATTAAATACTATCACCCCTGGGGGTAAGGTTGTCTGGGCAC
AGAGGCCAGAGCAAGCTCAGTATAGGGAATGCCAAGTTAAGGAGTTCAGATCTCTATCTTGTCAACATTAGGGAGCCAGTTAAGGGTATTTAAA
CAGATGACTAACATGCTAAAAGTGAGTATAATGAGATTATTGAGCAGTGGGATGCAGAATGCATGGGGGAAAAGTGGCCACAGGGTGGAAAATT
AATTAGGGGGCTGTTATGGTAGTTCAGGGTGAAGTAATAATAGCCTAGAAGAAGGTGGTGACAATAGAAAGAGAAAACAGGCCCTGAATGTGCA
GGAATCATCTAGTAAAAGTTCCACTTCTTTCTTTCTGCAGGCCCAAGCCTTGCACAGTGCCCAACACTAAGTAAACACATGTGTTTATCAACTA
TAAGGAACTATGGAAACATTGTCAGGGATACAAAGGTAAATTGAGAGACCTGAGTATTTAAGAAAGAAACAGAATATTAAAGACTGGAAACATT
TTTAAAGATCTCTACTGCAGCCTCCATGGATTGAAGGTTTGAAATATGAGGCTCAGAGAAACTGTGTGCTGCTCATACATTTGATGAACCTGCC
TTAAACACCCTGTTATTTGTTATTCCAATAAGCCCCTAAATGTTATTAATCTTTTGTTGTTGTTGTTTCTATTAGCATTTCTACTAATAAAAGC
TTACTGTTTTGTTGACTAACTTTGAAAGCTGCTATTTTACATTTATAACATATGTGGGAAAGTATAGAGAAGGAGGGGAATTGACTAAGAACAG
TTGTGAGAAGAGATAAGAGAGAAATTACATCTGTAGGCCGGGTGCAGTGTCTCACGCCTGTAATCACAACACTTTGGGAGGCCCAGGCAGGCGG
ATCACGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACACAGTGAAACCCCGTCTGTACTAAAAATACAAAAATTAACTGGGCGTGGTGGCAGGC
GCATGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAACCAGGAAGTCAGAGGTTGCAGTGAGCCGAGATCGTGCCATTGCAC
TCCAGCCCAGGTGACAGAGCTAGACTCCGTCAAAAAAAAAAAAAAAAGAAAGAAAGAAAGAAAGAAATTACATCTGTAAACTGGTCTTGAA
GAATTTCCCCGAAAGCTTTAAAAAGATAGGACTGTCACTTGGAGAAAAGTTAACGATTCCATAAAACAGATATTCTAAAGCAGAAAGAGGTAAG
ACCTTCATCCTCTACAGCAATGTTTTTCAAACTGCGATTCACTACCTATAAACAGAGCACGAAAACAACTTTGGGATCCTGACCAGAATGAAGA
GAAGAGAAGAGAAGAGGTCTCAGATTGCATGCTTGGTAGTAAGGGGTAAGTATTGTTTTGTGAAACTTTTAAAAATTATTATTTAATAGGGACA
AGGTCTCACTATGTTGCCCAGGCTGGTCTCAAACTCCTGGTCTCAAGCAATCCTCCCACCTCGGCATACCAAAAAGTGCTGGGATTACAGGTG
TGAGCCACCACACATGGCCAGAACTTTTCTTAGCTCTGTGTGTGTGTGTGTGTGCGTGTGCGTTGAGATAGGATGTAAGATGTGCTTCTTATCG
TGTCACATATAAAAATATTTGAGGCCGGGTGCAGTGGCTCACGCCTGTAATCCCAACACTTTGGGAGGCTGAGGCGGGTGGACCACCTGAGGTC
AGGAGTTCGAGACCAGCCTGGCCAACATTGTGAAACCCCGTCTCTACTAAAAATACAAAATATTAGCTGGGCGTGGTGGAAGGTGCCTGTAATC
CCAGCTACTCGGGAGGCTGTGGCAGGAGAATCGCTTGAACTCGGGAAGCGGAGGTTGTCGTGAGCCAAGATCGCACCATTGCACTCCAGCCTGA
GCAATAAGAGCGAGACTCTGTCTCAAAACATATATGTATATACGTATGTGTGTGTGTATTTGAAAGCCACCTTTTCCTCAAATAAATCAAAGCC
TTTCAAAATCAGTTGAAAAAATACAGAATTTTATTAAAAGAAGAAAACATTTGTGTGTGTGTGTATATATATATATAACTTTCTTTATTCCCCA
ACAGGTCTCTCCACCCAGCCTCTACCTCTCAGTCTCAGCCCTGTCTTTTAACCTCTTAAATATTATCCAAAGACTTTCCCTTGGTCAGATCTCT
ACATTAGCAACTCTATGAAATAGCACAGTTGTTGCCTTCATGTAAATAAACTCTTAAATAAAGCATTTATTTGATGTGCTACTGGTGAATGTTT
AACAATCAGTTTTCCAATAAGAAAAAGCCCTTATTTGTAGCACTTGCCATTTCCTGTGGTGTAAATACTCCAACTAGAGCCAATTTCAAGTTAC
TAACATTACATCACTACATATGAAATTGGAAAGAGATGCACAACAGCACATATTACATTGTGTGATAGACATAAATAACCTCAAGTATGTAGAT
AATAGGAAAATGTCATAAAATAGGAAGTGATGAGTTTTGAATATTTATTGTCTTTTAAAATAAAATATATTTAACTGTAAGTTTATATAATTTA
CTTTTTAATAATGGCTGTGTCTAACAATTAACTCACAAAATTTAGCTCCCGTGTATTCCTGACCCAGCTTGACTTCGCCAGCAGGCTCTGATCC
CACACTCTCTACCACCTGCTGAACAACTCTACCCGGATGTCTTCCATAAGAAACCACAAATTTAACATACCGAAATCTAAACATGCTTTCCTCT
TTGAATCTCCCAGTGCATACTTCTCTTCGCCTCTTGACTTCCCTATTTCTATTAATGGTGCCTCTAATATCCTTAGCAACCCAATCAGTTGCTA
AGTCTTGAAGGCTCTGCCTATGTTCTTCTGATCTGCCTCCTCCTTTTCATTCCACTTACGGTTACTGTCCTACCCCAGACAATTACCTAGCCTC
TTCCCCTTGTCTCTTCTCACTCCAATCTATCTGACAATACTGATAGATTAATCTTCCACACACACAGCTCTGATAATATAGCTTTGCTATTCAA
CGCACATACATGAATCCGGCCTTCAAAGCTCTCCTTGCTTCAGGCAATCTGGCTAGCTCCTTTCCTGTGCTGGGAACATGCCTTGTGGATT
CTGATTGTGTGATTTTGCTCTCACTTTTGACTTTCTCTGGACTGTCCTTCCCTCTTTATGGAAAGACTCATAACTTTTATACAAGACAGCTCAA
ACAACAATAAAAATATGTGGGTTGGTTGTCATAGGAATATGTAAGTTGATGAGAATCTGGAGAGCGGAAACAAACAAGAAGTGCCAAATCCAGG
AATCATTTTAAAATAAAAATTTATTTGGTCACTATCTGTTATGGAGGTTCTATGAAACATACTACACTGTTATGGAGGTTCTATGAAACATGCT
ACACTGAGGTAGCACTTAGTCCACTGTCATTACTAAAAGATTTTCTGGGGGAGTCAACATGAGATTTATCTCAAAACTATGGATTTCAATTATA
CATGCCACAGCTTTTCTTCATTAACTGAAATAATTAAGAATTGTCTGCATTTTAACCATTTACTGTAACTATTTCCCTCTTAATGCCCTGAGCC
AAACTGGGTTGAGTGGGTGAGGAAAGGTGGGTGGTAGAGACATGGAGCCCCTAATCTGGTCTGTTTTCACCATTGATGAGCCTGATTCATCTTT
GGGATGTGGATCACGAGGATTAAAGATCCACCACGTGCCCAGGATTTCCCAGCAATTAGAAGCAAAGAAACTAGATTTGTATCTTTTATATAT
ATTTTGTCCTTCAGCCCTTCTCCAGTGCTTAGAGTAAAATAAAATCCCTTAAGTGCTTGCTTTTTTCAGCAGGAGAATCCTAATGATGAGCAGC
ATGTGATCAAGCGATTCCTTTTCCTTCAAGCTGAGGTTGAAGTTCAGTAGCGAAGGAAGAAGGAACAGGCAGCTACAGCCCTCTGGTCAGCAGC
ACCAACTTTCTCACGGAGTTAAATTAGTTTGGGTTATGGAGAGCCTGAATCTTTAGCCCAGGAGAGGTGAAAGTGAATGAGGGAGAGGAAGGCG
GTGAGAGACAAATGGCAAAGGTAAAAGTGGGCTGGGTGCAGTGGCTCACAACTGTAATCCCAGCACTTTGGGAGGCTGAGGCAGGAGGATCAAG
CGCTTGAGCCTAGGAGTTTGAGACCAGCTTGGGCAATATGGTGAGACCTCTTCTCAACAAAATATTTAAAAATTAACTGGGCATGGAGGTGCAT
GCCTGTAGTTCTAGCTACTTGGGAGGCTGAGATGGAAAAATCACTTAAGCCTGGGAGGTGGAGACTACAATGAACTGTGATGGTGCCACTGGAC
TCCAGCCTGAGCAATAGAGGGAGACCCTGTCTCAAAAATATACATATTTTTTATTTTTAAAAAAGGTAAAAGTGTATCAAAGCAGTCTGCTTT
CACTCTGATACTGAGATTATCAACCAGTGCTCTGCAGACCTTCCATGAAAACTACTGTTAAAGATGCAGATTGTTAGGCCTCATCTCAAACCTA
CTGAATCATGGTCTCTAGGGGGACAGCCTGGGACTGTGCATCTTTCATGGGTACACCCAGCAATTCTGATACACTCGAAAGCAAGTTTGTCTAA
CCTGTGACCCGCAGGCTGCATATAGCCAAGGACAGCTTTGAATGCAGCCCAACGCAAATTTGTGAACTTTCTTAAAACATTATGAGTTTTTTTG
TGGTATTTCTTTAAGCTCATCAGCTATCGTTAGTGTTAGTATATTTCATGTGTGGCCCTTCTTCCAATGTGGCCCAGGGAAGCCAAAAGATTGG
ACACTTGGGCTCTAAAGATTGAGGATCACTGCTCTAGTGTTGGCCAACTACTCTAGTGTTGGCCTGCAGACTCAATACAGCCTTTGAGCTAAAA

ACGGTTTTTACATTTTTAAAGGGTTGTAAAAAAAGACAAAAAGAAAGACAGACAAGGAAAGACACAGAAGAATATACAACATAGCCTACAAAGC
ATTTACTATCTGGTCTTTTACAAAAGAGTTTTCTGACCCCTTTCTAGTGCACTGCAAATGAAAGGCTGTACCCAAATTTAGCTCCAGTGCAGCC
CTGCCACAGCTGAAATAACTGATGTAGCAAGCAGATCTTAAAAAAAAAAGTGATGAAATGTGTAAAGTTGTCATCTAAAAATACTTTTGTAATA
ATTATAAATGGAGAGAGAAAATGTATAAATACAAACATTCTGTAATGAGTTTAAAAATATAGTTTCATCCATACAAGAATTTTGATAACTCCAT
TTGATTCTGTTTTTCCATAAGCTTATCAGATAGCAATATATCCAACATTAGCCTAATAAAATTACTGCATGTGAATTCTTTATTGGACTATGCA
TATTCCCAAACATATTATTGTCATACAACTGAGGGAAAAATGTAAAACTATATCTGGGAAATGAAAAATTATAAATTCTCAAAATGATACATAG
GAAAATGATTTACAAAGAAAAAAAGGAAAACTGAACTTAGTATCTTTCTACTTTAAAGGGGTTCAAGAACTTAGGAGTAGTTACACACCTCCTA
AAATCTTGAAAAAGAGGCTATGAACTCACTTCACAAAGGGTTCAGATACTCACATTGTGTCCAAGAGACTCAGCAATTGGGAATCTTGCCAGTT
AGATTCATAAAGCAATCCGAAAGCCAGAATGCAATTTCTTTAGGGGTGGTTTCTAGATGTTTATTCTAGATATTTTTAAAAGATTTTGTTTATT
TTTGATGTGAAGAAAGAAAATTATTATAGAATCTAGAAATAAATATTGGCTTTAAAAGTATTAATTTGCCTTGTCCTTTGTAATTGTGATCCGA
AATATCTCACAATAATTTTGTTTCAGTGTTATTTTCTTCTCAGGAGGAAAGGAATGTTAAAACCTTACTAGCAACTAACACTTGATAAAGATTT
AAACTATATAACAATTTTAAAGAAAGTCTAAAACACCAGATAGTCTTGAAACCTCGCATGCTTCACCGTTTAATAAAATTATGACTCATTTTAG
TAAGAACATGCTTTTTTAGTAAGAAAAAATGCTTTCTGAGCTAAGTTTGAACTGCTGGGGCACATGGGACACCCACAAACCCAGTCAGCAGAAG
TCTCAAACTCCTAAAAGATTAAAGGAAAAATACATTAGTGTGTACAGAGAATGAAAAAAAAATCCCCAATGGTTCTAATCTATAAACGGAAGTA
AAACTAAAACTCCCCTAAAATCCCCCCAGTCATCAATCCTTATAAATTCAGCACTTATCTTCTTCCTTTACTTCTGGAGACCCTCATTAAACAA
CACGAAAGCCTTTGCTGACTTTTATCTCGTAAAATAGAGCCCTCAAATGACACTAAGCAGGGATACCGACCTCCAAAATCACAAACTGTTTTAC
TTCTAAAACCATGCATGCAAACGTGGGGTTTCCTGAGTTCTGCTAGGGGCGGGCTGTCTGGACCCCCGTGTATTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTGCAGGTGTGCAATCCAGGGTGCGCGCTCTGTGCAGGGAGGGGAGCAGAGGTGTGCGGTGGGCACCGCCTGGGCCGGGCGGGGC
GGGGTGGGTGGGGCCCGGGTGTGTGCTGGGGTGAGAGTGAAGGACATGTGACAATACGACGGTGGCGGCTGCAGGATCCGGGAGGGGAGTGAAA
GCTCCGCTGGGGCGCTCCATTAGTGAGCGGTGATGGTTGCCGCCCACTTGTATTGAAGCGTCCTTTGTCACTAACAAGTTAAATTAGAGATGTT
ATTTATTTAAGAAGAAGGAAAAAAAACCCTAGCCAAACAGCCTATGAATACATATGCTCACATCCCCTACTCCTCCAACTCCTAATTTCCCCGT
CTCCAGAGGGCACAGTTGTAAACCTTGACGAAAATCCAATCTTCTGTGCGGGAATTTCCCCCCACCGCTTGCCGCCCCCGCGACAGTGAGTGGG
AGCTGGAGGAGCTCTGGTCCCGCTGCCCGGGAGCACGCGGAGCCGGGCGACCGCGGTGCGGCAGCCAGGGAGGAGGGGAGGCGGCGGGACTGGG
CGCGGGCGGGCCGCCGCCGCGACCCGGGAGCGGGGTTTGCTCAGGAAAAGGCGCCGTCGCGGCCCCCGGCCACCCCTCCCTGGCCCCGGGCTCC
CTGCCCGCGCGCCTCCCGGGCCTCGCGGCGCGCTAGGCGCACCGCGGCGGCGCGAGCGCCGAATGGGAGCGGCGACCCGGCCAGCCCGGCAGCC
CCGCGGGCGGCAGCCAGGGCGACCGCGGAGGCGGCGGGCAGGGCGCGTGCGCACTGCAGGGGCGCCAGATTTGGCGGGAGGGGGAGTGTCCAAA
GCTCTTTGTTTGATGGCATCTCTGTTTACAGAGTTTACACTTTAATATCAACCTGTTTCCTCCTCCTTCTCCTCCTCCTCCGTGACCTCCT
CCTCCTCTTTCTCCTGAGAAACTTCGCCCCAGCGGTGCGGAGCGCCCTGCGCAGCCGGGGAGGGACGCAGGCAGGCGGCGGGCAGCGGGAGGCG
GCAGCCCGGTCGGTCCCCGCGGCTCTCGGCGGAGCCCCGCCGCCCGCCGCGCCATGGCCCGAAGACCCCGGCACAGGTAACGGGGAGCCGGGCG
GGCGGCCGAGGGCGGGGGCGGGGGCGCGCGGGGCGCCAGGCTCCCGGGAGCAGGTGGGAATTCGTTCCGGGATCATCTGAGGGGCTGTCAGACC
CTCCGAGGACCTGGAGCCCCTGCCTCGGCAGCAGAAGCCGCTCCAGAGACTGATGAATGGAAGAGTCTTTGCGGGAAATGTATCCGGACGTTGG
GAAGCACGCCCTGCGGCTCATTTTGCAAGTTGCATGGGGATACATTTTTCTTTAGGGGGAAAAAGAAAGCACGTTCCAGCCGAGGGCAGAGCGG
TGCCCACCAGCCCCGGGGAGCCCACCAGGTGCCTGGCTTGATGCCGCGGGTGTCGGCGAGGGATCCGCAGCGTAATTGCTGGATGCATTGAGAT
ATGTTTGGACTTGGAAGTGCAGAGCATATGGCAGATACAGGGAAAATGCTGGATTGTTTAGTAGCTGCAGGTAGTTCATTTAAATTTCATTCAT
TCTTTATGGAGGCGAGGACCAGTGTCAGCTGACAGGCGGCTGAAAAGCAGATTTTAGGGGGATAAAGGGGTCTCTACTTTTGCAAATTGTCTTA
AGACCTGGTTTTGGAGGTTCGAATCATTTTTCTCTGAAAGGCTTTTACTTCCACTGCAAACATTGCACGCGCACCCACACGCGCCGCCGTCGCA
CATGTCACTGCACTTAGGGAGGCTCGCCGGGAAGATGGGTGCAGTCCCTTCACATTTTTGGCCGGACAGATGGGAAGAGGGAGAGGAGGAGGAG
GAGGGAAATCCTCGTCCGAACTGTCAGTTGCTCGTTCCCCAGTCTCCACCGGCCTCTGGACTTTCCCAGCAGCACGCCGGGGCTCCCTGCGA
GCGGCGGGTGCCAGGGCTAGCTCGGCAGCCGTCGCAGTCGCCACTCGGCTCAAGGGGACAGAGGCCGGCAGCACCCAAGGCCGCTGCCGCGCAA
CCGGGACGCGATCCCCGCGGGCTCTGCCCCCAGGCGAAAGGTCCCTGCGCGGCGCGCACACGTGGATGCGGCTGAGGTCGCCGCGCCTTCTCGC
ACCCTCCTTCAGCCGCCTTAGGTCGCCCCGGCCGAGGCGCGGTGACCGGACAGATCCTCGCGAAGGAGTTCTAAGGCGAAGTCCATGGAGGCAA
AGCAAATCCATTCGCCTTTCCTTAGATTGTTTGATTTTCTCCTACTGGTTTGTTGTTGAGCCTGCGGGCGCTGGTCCCCGCGCGGCGCTGGGAA
GTTGCAAAGAGCGTGGGTGGAGACCCTGCAGCAGCACCCGCGGGCTGGGCTGGGCGGGGAGCAGCGCCGGGGCTTGGTTGGGCTCTGGGGACGA
GAGGGCGACTTGGGGGAGCTCCGGGCTCCCTATGCCTACTCCGGAGCCTGGCCGCGCAGGACGGTGTGCTGCCCCTCGAGGGCTCCACTTTTCG
CCTTTAGGACTTCACAGGACAGCTACCGGGGTCATCTGTTTTTTTTTTTTTTTTTTTTTTTTCGAGAGCTGAAACTGGCAGCAGGAGGAGGGAGTC
GGGCAGGGGTGCTGGGAGGAGGCGCGGCAGCGGCTCCGCGCCCCGAGGTCTCGGCCGCCCCCGCGGGGCGGGGCCGCGCAGGTTCCCTGAGGCT
CCAGGTAGCCCAGAGGGGAGGCGGCTGGGAGGGGCGGGAGCCTTGAACCTGCCTCAGGGGAAGAGAAACCCGACTGCGGGCTCGGAGCCGTTTC
TTGCAAGGGCGAGCGTCAACTCGGCAGGGATTATATTAACCAGGTCAGCGAAATGAGTTTGAACCCCTCCGAATCACAGTAGCGGCCACAAGGC
ACTTCCTCCCGCTCCCCTCCCTCTTCCTAACCCCCAGCACCTCTTTTCTTTTTCGTTTCTTTGCACGGTTTGTTTCCTTGACAGAATGTAACAT
TCATAGTTGTACTCTTGTAACCACACCGGGTCTAGCAGGTGGGGAGTCGAGTGCATCAACCCTGAAATCAGCCTTTGAAAATCCTCTGACTGTT
GGGTCTGAGATCTTGTCAGAGCAGATAAAGGAAAAGTTATTTCAGGTTCCTTAGTAGAAATTAATCATGCTTCTAGGACGACTTAGAGCAAGCA
AATCGCATGCAAAGTTCAAAGGCGAGCCTGGGTGGCCAGCCTGGCAGGGAAACTCAGGAGCTGGGCGCGTGAGCAGCCCCGGACTCGCCCTGCT
GCGTCCTGGCCCCTTCAGGTCCTGCAGAAGTCACTCTCCACCTTGCCCCCAAGACCTTAGTTTTGCACATCTTTGCCTCTGTGCTTAGCTTTTA
AGAGGCACGGAAGGACATGGCATGGTCATGTATTAGCGCTGGAAAGTACCTTAGAAATAGGATCCAAGCAAGCCCTTATTGTAAAGGCGAGGAA
CTGAAGTCTTGAGAGAGAGGAAGTGATTTGTCCAAGTCATACAGCTAGGTGGAGGCTAGACTAGAACCTTTGCCTCCAGAACCCTAGTCCTGTT
GATTCCCGTGCTCTCACCTGACGTTGGCTGCCCCCTGCGGGCGGCTGAATAGGTTGCTTGTTCCTGGGTTGTTAAACCGCTGCGGAGAGAGAGG
TGCTCAATGACTACTCTGAAAAATGTGCTCAGTTCTGAAAATGTGACCTCTAGATCCAGCCAAACCTGAAAAGTTAATTCGACTTGAATCTATG
ACTGCAGTTTCAGATTCCTCTGGTTTTCTTGGTGTCTCTCACATTTCACAAGGGACTGCATTTGGGGTCTTTCCAAGGAGTTCCCTATGAATCT
TTCAAAAGATGCAGACTTACACCTCTGGGCTTTATAGCTTTTTTTTTTTTTTTTTTTTTTTGCTTTATCATATCGTGTTTTACATTTTTGTAGT
TCTTGTTCAGAAGTTGTTTAGTGCCTCCTGTTGACAGTGGAAACAGAACTAGGCTATTGTTTCAAAACACAGACACTAAATGAAAGGAATTATT
ACAGATTATAAATATATATTTCCTGGGATTTTATTTGGTGGTGGTGGTATTTTAAATTTGGATTACATCATGTCGCCATTCAACCTGGACTATC
AGATTGTTGCTTAAAATAATAGCTTTAAATTATGAGAACCCCAATTCAGGATTTTTGGTAAGCACTTCAGCTTCACTTGTAGGGGGCTGGTAA
TATGCATACCAGTGAGTTAGTTTGGGAAGACAAAACCTGTAATGAATATAACTTTTCTTTTTAAAAACAATGATTTACATTATGATATGGCTTT
ATATCATTGTTTTTATTGGTCTTAGTTTAATGGGTTTCCCAACATTGCAATGACAAATTTTAGTGAAGTTTCTAAGATAGTATTTTTCCTATTT
TAAGTTTTATAAGAAAAACTATAAAATAAACCGTGTCTGTAAAATTATTGTCATCTGATCAGTTGATTAGATTAACAAACATTATGATTATGAT
TAACAAACAGTAAGCATATAGTTACTTCTTCAAAAGTCATAAAATTTCCTAGGTTAGGTTAACTAAATAAAAGAAAAAGCTTTCGAAAATAGTA
ATGGGTTCTTTTAAATCCATGGCTTTTTTCTGGGGAAATCCCTTCTGGATTAGGTTACATTTTATAATATTTCAAACACCATTCCATCAGAGAC
AGAAAAAACAAGAGTAAGTAAGACTCTGACTAACAAGTGGCCTAATTATTCACTTAGTTACTCTAGAAACTAAGTATTGTAAACATGGGCACAA
GTTGGATCAACCAGGCCTGGAGTTGTGAGCAATTTGGTATTAATTTTATTTACAAAACATTAAAGCTTGATCACTCAATGTTCTTATCTTTGCT
TTGGTTTTAAAATCCTTTCCTCTTAGATTCTCCTAATCCTCTAGACTTTATGGGATCACTATAATTCTGTTTTGCGCTGTACTACTTCTTGATT
TTTTTCTTCTTTTAATAAAACAAAAACCCCATTGGAATAGCATAGTTGAATTGTTTATTATGTTTGAGAAATATTATTTAAACGATGTGACAGA
TGCCAAAGATTTTGAGTGTGCACTTATATAAAGGACATGGGTTCTTGTTCCTTTTCTTATCCTTAACCTTAAGTTTTCAACTTAAACCTTCACT
GGTTGGAAGGTGGCCAAATGTGTAACTTGTCCCTGGTCTAATAGTAACAGCAGGTTCAGACATGCAGGGGAATAGGAAGGTGCCAGGTCCTTGG

CCGTGTCTGTGGATACCCATAACAGCAGAACCAGTTTACAATACTAGAGCAACAGAATGCAGCAAACAATCTTGTTGTGCAAGTTTTCAAAGTT
TTGTCTTCATAACCTTTGAAAAGATTGTTGAGGAGTTTTGTGTAAGTTTTGTAATCCAGTAGTAGTCTAAATCCTCTTGTTTCAGCCCACGTCT
ACCCATTCTTATTTCTGCAGCATATATAGCAGTGACGAGGATGATGAGGACTTTGAGATGTGTGACCATGACTATGAATGGGCTGCTTCCCAAGT
CTGGAAAGCGTCACTTGGGGAAAACAAGGTGGACCCGGGAAGAGGTAACTAATCATTTTATCAAGACGCAGAAAATAGATAGAGTGTATAATTT
ATAAAAAACAAAATTTCAACTAAACTACAGGTGCTCAAGCTCATTAGCAGGCTCCTTGAGATCTTATCCTAGCCCGCATGTGCAGCGTGCCCTA
TGCCCCCCACTTCATTATATTATCCATTTCCACACTATTTGCAGTTCTTTGAATGTCCTCTTCTCATTTTAGGCTTCATCTGTGTTTCCTTTTG
CCTGTTGAGTTCTCATCCTTTTGTCCCACCTCTTCTTCCTACTTTTACATTACCCATGAAGGCATCACCTCTTCTGTGAAGCCATCCCTGGCTT
CGCCGGACAGGATTGGATGCATCCTCCTGTGATCCCATGCATGGGTGCATGTTCTACTTTATTGTTGCTGGGACATATATACCTCCTCCAGCTG
ACTGCAAGTCTGTTGAGGGCAGGGCTCTTGTCTATTCATCTTTGTGTTTCCTGAATTCACAAATGCTTGGACCCAAAATAGGATATTAATAAAT
GTTCTCTCAATAAGTGAATGACTTGCTACTCCCAAAAACAAAACAAACAAAGAATAAAACAAAACACTCAGAGAACTCATCTTTTTACAGTGT
ATTGATTTAATATCCTTGATATACTTAACAGAGCCATCTATATGAAGGTATGTTTTAAAATCATCCGATAATGGATGGAGACACATCTGCTTCT
CCTGTTTCTTTTTCGGCTGGCTTATCAAAAGTTTGATTTTGTAGGAATGGAAAAATATTTTAGAAGCAAAATTATTAATATGTGGAGAAAAGTT
TCTCTAATGTTCTTAAAATTTTTGCAACTAATTTTAGATGATTCATGTTACAATAAATGGTATTGGCTCTTCTTCAGTTTCACTGTTCTCTGCT
TCATTTAAACCAGAGCTCCTTTTAACAGGCAGGTAGGATTCCCAGAGAGGCCCATAGGAAATTCATATTTTACCTATTAAGATTATCCACTTGG
ATAATCCTTATGATACGGAAATTCTGTTGTCAACATTGGTTTCCTAATTCTTGTGTCTGTATTGTACCAGGGACCTCCACTGTGTGTGAATGTT
ACCTTTGCAGAAACATAAGAAGGAATGCATTTATATACTTATGAACTGGTAGGATTGTGAACAGCATATAAACTAAAAGAACTGATTAGCTGGA
AATGTTTAATGTCTTTTATGTTCTAACACATCTGGCCTATCTAAATCTAACTGATTTTCTTATATAGCTTTCAAATTTAATTTTAAAAATGGTC
TTTATTTCTTTATAAAAAGTTAAACTAACTGGAAATATTCTATTTCTTGCTCAAGATCCTATTTATTACCATAGGTAAATGTGTACTGAATCTA
GCACTGGAATGCATTTTTTCCTAACAGAGTAAAGCAGTTATTTATAATAAACACTCAATATATGCCAGGCATTATGATAAATGTTTTGCAAAAT
TGCCTCATGTAATCCCCAAATAACCCTGTTAATATCAGCCTCATGTTAATAAATTGCCCCATGTAATCCCCAAATAACCCTGTTAATTTCCATT
TTATAGATGGCAATACTAAGGCCCAGAAAGGTAAAATGGTATACCCGCTTTACACAATTAATAGTTGAGTCAAGATGCCAACTCTGGTCTGATT
CTAAATAAATCTATACTCCCAAGTCCGTATATTACATTAATATCTCCTGTATTCGGATACTTTAGAGAGACTTTTTATTCTAGATTCGTTCCCT
CATTCACTTTAACTTGAACAGAGTTATATAGTAAATAACTGATATCCTAGGATTACCTTTAAATGTCTTAGGATGAAAAACTGAAGAAGCTGGT
GGAACAGAATGGAACAGATGACTGGAAAGTTATTGCCAATTATCTCCCGGTAAGTTAGTAAGTTTTTCTTATAACGAAAGGAAAGCTTCTCCCA
AAGATTTCTATAAAATATTCTAGGAGGAGTTATTAAGATAGTGTATAATTTACTCACATTTAAGAAGTGGGAGAAATGCCCTACCCATAACTTA
TATTTTATATTATAATGCATATAATTAAATTATTAGAATTTAGATTATTAGAATCGATTATTATAATTTAGATTATCAAATTTTAAAAACAGTT
GCTTCTTGTTTTATCTTTTCATTTATAGGATAATTAGTATTTTGATGATTTGTTACATGGTAGTTGATTAAACTTGATATTTCCTCCAAGTCAG
TTTTTCCTGAATTCCCTATTTTTGTCAATAGCAATACTTTTGGCACCAAGGTTTAAAATTCTGAAGACCTTTCTTGACTTATCACATTCCCCCA
ACCCCTACATCTAAGCAGTTACTAAGGACCCTGGAATTCCTTTATAGTCAGTCCCGTCCTTTTCATTCTCATGGCTGTGCTGAAGGTTGGGCTC
CTGCCCTCTCATTTGGACTATCATATAACTTCCTAACTGGCTTCCCCACTTGTAGTTTTCCATTTTTCTTTCTTTTTTTTTTTTTTGTTTTTTG
TTTTTTGTTTTTTGAGATGGAATCTAGCTTTGTTGCCCAGGCTGGAGTGCAGTGGCACGATCTCAGCTCACTGCAACCTCCGCCTCCCAGGTTC
AAGCGATTCTCGTGCCTCAGCCCCCTTAGTAGATGGGATCACAGGTGCCCGCCACCATGCCTGGCTAATTTTTGTATTTTTAGTAGAGACAAGG
TTTCACCATATTGATCAGGCTGGTCCCAAACTCCTGACCTCAAGTGATCTGCCCACCTCAGCCTCCCGAAGTGCTAGGATTGCAGGCATGAGCC
ACCGTGCCCAGCCAGTCTTCTACTTTTCCATTCATCCCAAACACCATTGGCAGGTGGAACTTCCTAAAATGCAGCTGTACCTTATCTTTTCAAA
ACCAACCACAGTGACAGAATCTCACAAATTAAGTAAACTGCCTTGACTTGGCACACAGAGGCCCTCCTCTATTGCCCCAACTTACAGCTCCAGT
TCTGTTTCCTGCTTCCTCTCTCTAAGCAGGTTTGCTTGAATTTATTTCTGCTTTACCTCCTCTGGGCTTTTGCTCCTGGTCTTCCCACCTCCTA
GAATATTCTCCCTTTATGTCACCAATTAAAGTTCTGTCCATCCTTCAAAGTCCTTATGAAGAGCTCTTCAAGACTCCTCCCAAGGAAACCATTT
CTCCTCCTAAGAAGATGCTTCTCTCCTCACTTCAGTATCATTTTGCTTTGGTCTTTTCTTCCAAGTGAATCAAATTCAGCATCTGTGATAGTCA
GTCATCTACTTGTCTTTTCCTTCTTATAAGTTTACAAACTCCTGTAACATAGGACCTATCTTTTATGCATCTTTTTTCTTTCTGCAATATAAAT
ACTTTGGTCCTGGATTGAAGCACATCTCTTGTCTGAATGGGAAGCAAACTTTAGTCTTTTAGGGTGGTTTCCATGAAAGCCTGACAACATAGAA
TCTCTATCAAGCCTCAGGCTATGTAGATACTCTGCAAAAGTATCTGAGGTTAAGGTTAACTTGGCAGGCACATGTGTAGTATGATGGTCCTTTA
GATCATGTGGCAGGAATGTTTCCCTCAGGAGGCAGAGTGTCTAATTTTAGATGCAACTTTGATATATTACTTGCATGTTCTGTAGCCTGTAAGT
AATGAGGGATAGATGGGCTCTAAACATGCTCTAAAATGTTCTTAAATATTTTCACTGCATATGGTCTATGTGTGATTCCTATTACAACAAAAAA
TTCACGTGCTTATCACATCATATCTTTATGGTGGTGCATACTTTATTTGTCTAGAATCGAACAGATGTGCAGTGCCAGCACCGATGGCAGAAAG
TACTAAACCCTGAGCTCATCAAGGGTCCTTGGACCAAAGAAGAAGATCAGAGAGTAAGTTCTTTCTTCATTGGTGTGTGACTCATAATTAAGAA
TATTCCCAAAATGCTAATATTTTCCTATTTGAGGAAGCAGGTAAAATGGGCAAACAGGAAGTAGAGGACTCTATTCCCATATTTCCAGTGAATG
AAAGCAAATTTTGGAAATTTTCTAAAGATCTTGTAACACTGAAGAATGATTATACTGACTCATTACATAACTTTAAAACATAGGTTATTTTTGT
GTGTTTATCTGAAGGTGATAGAGCTTGTACAGAAATACGGTCCGAAACGTTGGTCTGTTATTGCCAAGCACTTAAAGGGGAGAATTGGAAAACA
ATGTAGGGAGAGGTGGCATAACCACTTGAATCCAGAAGTTAAGAAAACCTCCTGGACAGAAGAGGAAGACAGAATTATTTACCAGGCACACAAG
AGACTGGGGAACAGATGGGCAGAAATCGCAAAGCTACTGCCTGGACGGTAATAATATGTCAAAAAATATATTGATCGGGAAGAATGAGGGAGTG
GGTATTGAACATTCTGCTTTAAATGTATGGTGAGTAAATTATATTTCATCAGTCGTAAGTGTTTTATTAGATAAACCAGCTACATAGCTTTTAG
AGATTGAAGACATCTTAGAGTTTATTTGGTTGAGAACTTCCAGGATCCACCTGACAGTGAGCCCTGGGTGAAGACATTTAGCTTTCCCCAGCCT
CAATTTCCCCATTTCCAAAATGAATCATACAGGGCCAGTGTTAGGATCAAGTAAAATGAATGTCAAAGGACTTGGTAAACTATAAAACTCTAAA
TGCATAGAAAGAAACTGAAGACAGTTTGTCTCTGGCAGTTCACGTAGCTGGTTAAGTTACTCAAAGGAACTCAGCTACCATTTTCCTGATAACC
ATCATTCATTTCTTTTATTTTTTTTAATTATTATTTTTTAGAGACAGAGGCTTGTTCTGTCACACATGAGTGACAGAGTGCAGTGGCATGATCA
TAGCTCAATACATCCTTGAACTCCTGGGCTCAAGGGATCCTCCCACCTCAGCTTCTTGAGTAGCTAGGACTACAGGTGCACCCCACTACACCCA
GCTGATTTTAAAATATTTTTTGTAGAGATGGAATCCTGCTATGTTACCCAGGCTGGTATCAAACTCCTGGCCTCAAACAATCCTTTCACCTCCC
AAAGTGCTGGGATTATAGGCATGGGCCACCATACCTGGCCACCAGTATTCATTTCATTATACCACTTTGCTTAATTTTTTACTTCATTGATTAA
AGAAATAATGTATTTCTTGAATTCTCATACTACTTCCAGGTTTTTAAATAATGTCAGGGTAATAATGCTTTCTTTTTAATGAACAAGGCAAGAA
AATGACCTCATTATGAGGGATAACTATGGAAGCTCATTTTGTCCCATTTTTCCCACTTAAGTAGTATATAACAGATTTTGTTCCTTTGGAAAGC
AATACTTTTAATGATAAATCTTGCATTAAAATGATGTAGATCAAAAATATTAAAAATAGTTTTATTCTTGAGCTTCATAATCCAGGAGAAAGTT
TATATAGTATTCTCTAGTGATGCTCCAAAGCATTTGCACCCTTGTGGTTCAGTATAAACTTAGAAATTTTAAGAGGTTGGTAAAAAAAGGCCTT
TCCTCCCATATGGCCTGAGAGGATACACTGCTGATTCTTCTCAAAATTAACAGGGCTATTGAACTTCCTCTTTCTTTAGCATACATTCCCCCAC
CCCCATTGAAATAGAAAAGGGAGACTTAAACGGTTTTTTTGAATTGAGAAACTGTTTTCCTGAGAATGGAAAGACTTTAGTAAAAATGCGTTG
CCTTTTGAAAATATACTGGGGGTTAGGATCTTTCCCTTTGGGATCCCATTTTCCACTCTCGTCTCTGTCTGATTCAGAAAACAATTGGGGTGGC
TTTCAAAGAGTAGGAGGTTTTTTGGTCTCAGAAGTTCTCACTAGTGCTTTGAGAGATAAAGAGTGAAGTATTCTTCATCAGCAGCATCTTATCA
TCCACCAGACTTCACCATGTCCCTCTCGTGGTGTGTAGGCCCTGCTGTGCCACATTCAAAGGAGTAATTTCCCCAAGGCAGCTGGAACTTTACA
TTGTGTTGGAGTCTTGTACCGCGACCGGTCAGAATAAACATGAAGCGTTATCGTATTGAAAATACTCCTTTACCAAGGAAATGGAATGGTTAAA
AGATACTGATATTTCTAGAAAACGACATGCATTCCAGATTGTGTAACTAAGAGAAATCTAACTAGGCAATAGAGAAAGCCTGATCTCAGAGGGT
GGAGAAGAAGGAAACAATTAAAAAGAGAAAACAACTAATAGGCCCAAGGGAAAGGTCTCTGTTAGAAACAGTTTTCTGTCAATTCACTTTAATC
TGAATTGAAATTTTTGTTTGTGAAATTTGTGTGATATATTTCTGTGCAGAACTGATAATGCTATCAAGAACCACTGGAATTCTACAATGCGTCG
GAAGGTCGAACAGGAAGGTTATCTGCAGGAGTCTTCAAAAGCCAGCCAGCCAGCAGTGGCCACAAGCTTCCAGAAGAACAGTCATTTGATGGGT
TTTGCTCAGGCTCCGCCTACAGCTCAACTCCCTGCCACTGGCCAGCCCACTGTTAACAACGACTATTCCTATTACCACATTTCTGAAGCACAAA

ATGTAAGCCATTCCTGTGAATCTAGTTTAATGAGAGAGACGGTTAGTTTAGCTCCAGGTAATAATCATACTTTGCAGTTGTATACTTTTCAGAG
AACTTTCCTGAGCATGATCATGGCCAGTCTTCACCTATGCCCTTTGAAGTAGATAGGGTGTAGGTATGGTGTGTTACCCCTGGTTTATGTCTCC
AGAAACGAGGATGGTAAGCGCTTTGCCCAGGGTGACACAGCTCATAGAGATAGTGCTGACTAGAAAACGAGCTGTCCGATTCTAAATTGCTGCT
TCAAATCTAATTTGAAGGCAACCTTTGAATGTAAATTTACTTAAGGTACTATTGAAGAATAGGGGAATGGAGTCGCATTTGTAGATGTAATGTT
TTTCTCTTCCAAAACGAAAAGGGAAGGTAGTATTATGTTTAAAGAGGAGAGAGTTTGACACTGAAATTCAGTGGTTATGGTATGTTTCATTCTG
GCAGTGATCAGGCAGACATGTCTTAATTTATTCACTCAGTAAGTGTTTACCTTCTTACTCTGAGTCAGGAGCAGAACTTTGTGACATTCATTTT
CTGATGTCTCCTTTTAGTCTCCGTTGGATCAGTGTGATCCCTTCCTTATTTCTAGATATTTATATTTAGGGAAAGTGATAATCCATAATAGGTG
GAAAAAGAAGAAGAAAGAGGAAAAAAATCGAGAAACTTTAATCTTAAGAATAACAATATTAAATGATAAAACTTACCCAAGAATAGAGAGCTCA
TATGCAAATTATATGCAAAACATGTTCATAAATAGTTTTTATTCTTCTCTGTCCATGGATTTGACTACAAACTTTACAGAAAGGTCTCAGATGA
ATAAATTATCATAAGAATTCCTGTGCTTTTTATTAAAACTCAAAATTATTCCAAGAAAAATATTTTTATTTACAAACAGCTGGTGCCATCAATT
TTTCCCATAGAAACAATTTTGAAACATTCATTAATGTATTTTATAATATATTTTTTATTGTTTTTTTCATTGTGTTTTTCTCTAATTAAGGAAC
ACTTCCCAAAATTTAAAGTGCTCATCAACACCTCCCAAGGATTTTTCACCATGTTCCTTTAGCTGTTTAGCCATTTTAAAGGCCTGGCTAAATT
TCACATTAAAAGGTTTTAAAAATTTGTTTAGTGTATTTTATCAGTAAAGTGTTTTTTTTCTCTCAGTCCCAGAACGAAACCTCAGGAAGCCAAG
TCCCCTGAAGCATATGTAGCCCTGAATGACGTGGCCTTTGTTTTGTCTTTTGCATCTAGGTCTCCAGTCATGTTCCATACCCTGTAGCGTTACA
TGTAAATATAGTCAATGTCCCTCAGCCAGCTGCCGCAGCCATTCAGGTAAGATCATTGATCATTCACTGTTCAAAGCACCACTTTTAAGAAATG
CTTATTTCTTTCATCTAAACACATATTTTTACCTGAGCAACTAAAGTAAAAAGGAAAGGGAACATGGAGAGGAGAGCAGAGTCTTGGCCAGCAA
TCTATTAATCTTGTCTTCTAGAATGAGTTTGCTCTGGAATTTTCTGATTCTTTGATGTTGCAAGGTGAAATAACTCATCAGTCAGCATCCACTC
TAGCCTGAGATTTCACATCACTCCCTTAAGTCTGAAATAACATTCACAAAGATTTCTGCAGGAGCCAAATTTGGTTGGTGGTGTTGTCACAGTG
AGGCTCTTTGGGCTGTGCGGCACCTCATGACCATATTGGCTACACCCATTGTATTTGCAGCTTCCAATCAGACCTTTGTCTTTATTTCCCTTAC
TTTGTAATTTCAGAGACACTATAATGATGAAGACCCTGAGAAGGAAAAGCGAATAAAGGAATTAGAATTGCTCCTAATGTCAACCGAGAATGAG
CTAAAAGGACAGCAGGTGCTACCAGTAAGACTGTCATCATGTGCTTGAATGAGGGGATAGCAGCTTTGCCTCAGTTTACCTAAGCGCTCTTCTC
TTCTAAATATTACACTTAGCAAGGCTCCATATATCCATTCAGAATGTCTCAACACAAGAAGTTGCTTGTAGTAAAATGTAGTTGGTATCAGATT
ATATGCTGATTAAATTGGAAGCAGTCTTTTTGTAATTGCAATAAAAATGCAATATCCACTTATGATTGTTATCATCAATTTTTTTCTTCAGAAG
GACTATAATCAGTTTAAAGACTAGCAAAGATAAAATGAATGAAAATCTGCATTTTCTACAGAGCTATGTATCTATATGGTACCATTTGGTTTT
TTTCTATTATTTTGTTAACCTATATTTTCATATTTTATAATTTCAGACATGATTTGATGCATGTTCAGTATATACATGTAAAAGGTTATATATA
AAACCTCTTCATAAATAACATTAGCTGCTCTCTTTTATTTGCATGTGTGAAAGTTATGTGGGCCATTACTGAATTCTGACATCTTTAGCGACTG
GGCAGCCAACTGGGATGGCTCCTTGTGCTTTGCAACATACATAGTTAACCAACAAAGACAATAAAAGAGAAGTGATGCCCAGTAGGTATTCCTA
GGGGTAAATTTATTTTTTGTTAAATAATAAGATGTTTATGTGCACATGCTAGTTCGACCACTTTTTAACTTTAGTTAATGTTTTGCAATTTCTC
CTGTTGTGTGGTCATACTGTAAGGAGACTTCTGTTAATTTGCTCTTCTGCTTTCCTAACCACGTTGATTTGGCAGTGCTTCACTGCATCAGTGC
AATCTGTAGCATTAGAAAGGGATAGAAGCAACAAGAATATGTGTAGATCAAAGCAACTCTAACTCCTGAGTCCTCTAGCTTTTTTGTGGTTAGA
ATGCAAATAGGACAGTTCTTCAGTTCTTCACTCACAGCAAGCATTTATGGACCTTTGGCAAATTATATTAAAGTGGAATTTTAAGACAATATGA
TAATTATACTTCGAAATATAGACCTATGATTTGACATTTTTACAAAATGATAACAAGGTAATCATATAGGTACAACCTCTAGCACTATTAAAAA
CAGGGTCTTGCATTGATAAAAGGAAACATCTTGACAACTGTTTCATAGGCGTAAGTTTGGGATGATGCAACTACTCTTATCTTTCCTCCAACAG
CATCTGATACCTTGTGCAACTTCATTGCTAAGTTCCTTCTCCCTTTCTTCTGTCCTCTCTTTATTTCTACACCCTTCCCCCTTCCTTAGACACA
GAACCACACATGCAGCTACCCCGGGTGGCACAGCACCACCATTGCCGACCACACCAGACCTCATGGAGACAGTGCACCTGTTTCCTGTTTGGGA
GAACACCACTCCACTCCATCTCTGCCAGCGGATCCTGGCTCCCTACCTGAAGAAAGCGCCTCGCCAGCAAGGTGCATGATCGTCCACCAGGGCA
CCATTCTGGATAATGTTAAGAACCTCTTAGAATTTGCAGAAACACTCCAATTTATAGATTCTGTAAGTAGAATTGTGAAGGGAAGTTAACGATT
CTGGAAGATAAATTAGAAAACCCATTTCTTAAATCATTGCCATTTTCTATAGCCAAGCTGTTATTAGCATATATTAATGTAAAGGTAGAAGTAT
GATTTTCATCTTCATGAATATGTTTTTTCAAAGATCTGATTTCATAGCCTACCGAGAGAGACAAAAGTATTTATAAATACTTACAAAATAGGAC
TTTTGAAGGAAGAGTTTTTTTTCACATTTTCACACTTTTCCTTCAAAAGTCATATTTTTAAAAATAGTCAGATTGATGACTTATAAAGCAGAGC
TTGGATTATGGGAACGGAATGGTGTTTGAGTTACTTTTAACTTTTTTTTTCTTTGCTTACTTCATGGTGCTTCTCTAGAATTTTGTCTTGCTT
TTGAACAGCACATTAATGATTTGGCTTACTCAGAGCTGAAAGCAATCTTTTAGTGTATTTGAAGTAATAATCAGCTCCTTGGTCATACCTGGCT
CTTTCCACAAAATGGTGATTATTGATTACTGGTCCCATTGCTTCACTGAGATGAATCATCTTTCGTGAAACAAATTTGTATTCAGCACCTCCTC
AGCGAACACTTGGTTCCTTTCCCAGTTGATTAAAAATCATTTATTGCACACTCATTGGTTAGGAGATGACCATTGCCGTAATATGCCATCTAGA
AAAGGTCTTCATTTTGCTTTCCATTGCATGCAGATGTAGAGTGTCGGGAGGTCCCTGCAGCACATCAGAGGGCCAGCCTTGAGGCAGCCCACTA
GACCCTGCTCTACTGCAGTATAATAGAGCAACTGCTCATCTTGAAGCTGTTGCTCAAGAAGCCAAACCAACGGGCCTAGTGTTTGCTTTGCGTT
GAGCATCTCTCTCTCAGTGCTGTTTCAGGTGATGATGGCACACACTATCTCAAAGTTCTGTGCCTCCCACATTGTTTCAGGATTCTTCATCATG
GTGTGATCTCAGCAGTTTTGAATTCTTTGAAGAAGCAGATTTTTCACCTAGCCAACATCACACAGGCAAAGCCCTACAGCTTCAGCAAAGAGAG
GGCAATGGGACTAAACCTGCAGGAGAACCTAGCCCAAGGGTGAACAAACGTATGTTGAGTGAGAGTTCACTTGACCCACCCAAGGTCTTACCTC
CTGCAAGGCACAGCACAATTCCACTGGTCATCCTTCGAAAAAAACGGGGCCAGGCCAGCCCCTTAGCCACTGGAGACTGTAGCTCCTTCATATT
TGCTGACGTCAGCAGTTCAACTCCCAAGCGTTCCCCTGTCAAAAGCCTACCCTTCTCTCCCTCGCAGGTAGAACACAATTTCTGCACAGCTGTT
ACTCATTTTCAACAGACACCTGAGCCTTAATAATCTAGAAACTAATACTTCGGAACAAATGACTAATTACTGCTGCCTTTGCTGATTTCATTCT
GTCGTTGAATCTAGCTGTTGCTAAGTTATACTGCCTCCCAAAGTTTAGGCTGTCTGCAGGCTAACTGTTGATTTTGGCATCATTCTCTCTCTTT
TACTTTTGGGTGGTTTTGAAAGATAGTTGCATGAAACGTACTTTTATTTCCTTCAACACTAGAGTTTAACATTTCTGTCCCTTTCTTTTTCTCC
CATCTGATCCCTCCCTTTAAAATTGTTAACATCATTTCTTCCTCGTTGTTCATTTATTCTTATGCGATTCACTGACCCAGGGGAGGAGGGAACC
AAATTGTGTTTATATAACATTTGGGTTGCAACTAGAAAATTTAAAGCTAGAAAATTTAAAGGTTCCAATTCATCTTTAAATGGAAGAGTTTGGG
AAGAGGATGAGAAACAAATGCTTAAGGAAAAGAACATATTTTTAATTTCAGTTTCTCAACATTGGCTCTTTTGAGTTGTGCCATACTATTTTAC
TAGTGCAGTTTTTGCCAAGGAATATTTTTATTTCATACAGCTTTTTTAAGGCATGAAAATCACAATTCTTATCAGAGATTTGTGTTCCTAAATT
ATTTAAATAATTAAATTAATAGATAATTTGGCACTTTAAAACATTTTTCCAATTGTATCTGTTGAATTTGTTTTAAGAACAGATTTAGGTATGA
TATAGGTATATACATTTGGGAAACACTGAATCAAACAAAGTTACAAGTAGGTTTCTTAGCTGGGCATAGTGGCATGGGCCTGTAGTCCTAGCTA
CTGGGGAAGCTAAGGCAAGAGGATTGCTTAAGCACAGGAGTTCAAGTTCAGCCTGGTGAACATAGCGAGATCCCATTTCTTTAAAAACTTTCTT
TTTTTTAACTGCAGGCCTTCTCAGAGTTATTAATATGCCGTTGTGCCTTGTGAATTTCCAGGAGGAGATTATGATATGTTGTGTTTCCCAAATT
TATTTTACCTTGGAATTGTTTAAGGAACACCTAGTTTTTTCCCAGAACTTTAGTGTTCTGAGAGACACAGTTTATTATTCAAGAATTTTCCATA
TAATGTAAACCTTCTGTAATACTAATTTTGGTTCATAGATTATTAAAGAGAAAAAACAAAGTATGAAAGGAAACTATTAATTATTAACTATTAT
TTTCCCCAAAATCACTAAAGCCTTTTAAATGTTAATAAAGAACACATCTCATTCTCTTTAATGACAAGTGTCATTTATTGAGAGTATTTTCTCA
CAGTTTTGCAAGTTTTTCAGCAATGACCCTAAATTTTATTTCTTGGAAACCACACCCAAATCCTGGGTGCTCAATTGAAATAAAACAATACCCT
AGTCAATATAACATGCTTGTTAGCATCTTTATTATTTAATATAGTGGGTCAGGAAAACATTCTTGTTATCTAGGTGTGATTTTTAAATTGGGGA
GAATAAAGAATTACCATCTAATCTAAGTATTTTTTCTTTCTCTCCATATTTAGTTCTTAAACACTTCCAGTAACCATGAAAACTCAGACTTGGA
AATGCCTTCTTTAACTTCCACCCCCCTCATTGGTCACAAATTGACTGTTACAACACCATTTCATAGAGACCAGACTGTGAAAACTCAAAGGAA
AATACTGTGTAAGTCTTTGGTTCAGGAATAAAATGATTTATCTTATTTACTTATATTTAATTAATGGAATATAGTTCCCAGATGTCTGATCCAC
TTGTATGTGCATAATTTTACTGACCATTTATATATAATCATGTCTATTCCCACATTGAATATATCTGTCCTGGGCATATTACAACTACCTACAG
GTAGAAGATGGGAAGATAAACTAGATTCCTTTTGTAACTTACTCCAAAATTTCCTATATATGCACAAGTAGTTTTCATAAAACTTTTCCATTCG
GTTTGTTTGTTCCCTCCATAAGGCCTTCTTATGAAAGCCAGATTTTCAACCTCCTTTCCTCTCTAATTGTAAGCTTCAGAATAAGAACGAGTAT

GGTTTCTTACCTAGTTTGTATTTTTATTTAATTTTATTTGTTTATTATTTATTTATTTTTAGTTTGTATTTTTTAATCTTATTTTTTCTTTTTG
AATTTATGTGTAGATAGGACCTCTTCTGACATCCCCAGGAATATTATATGATTAGAAGCCAAGGGATGAGTAAGCAGTCATTTTTATTCAATAA
AGCCTTAATCAATTCAGAGAAATGGTAGAGAAAGTGTGAATTATCAGAAACCTTGAAAAGAAATGCACTGTTATTTCGAAGTACAAAAAGTAAA
TTTTAAAAGTTTAACATGTTTTGTAGTATGGGCTCTGTTTTCATGAATAGGGAAACCTGATTTGTAAATGACATCAGGTCTTCTTGATGCTCAT
AGTCTTATACAGATCATAGGCACTACATGTGTCTTCAGAGCCATTAAGGAAAGATGTTAAATCATTTAATGCTTTTAGTCTTCGAGGTATAATA
TTTTGAAATATTTGAAAATATGTGATATGCATATTCTCTTTTTCTTAACGAATAACGTGATTAATCAGCACACCCCAATTCCATATCCGGAACA
GAGTTTATTGTATTCAGTGGAAAAATGTTAAATGTAACAGGTAAAGCCATGTAGGGACATTTATTCTTTTGTATTGAGCCACTGCTTGTTTTCT
TTTTAAAGTTTTAGAACCCCAGCTATCAAAAGGTCAATCTTAGAAAGCTCTCCAAGAACTCCTACACCATTCAAACATGCACTTGCAGCTCAAG
AAATTAAATACGGTCCCCTGAAGATGCTAGTAAGTTCTAGAAAAGTTTTTGGATTTCATTGGTTTATTAGTCCCATTAGGAGTTCTCTCTGATG
CAAAAATACCCACTCTTCCGTTTAGCCTCAGACACCCTCTCATCTAGTAGAAGATCTGCAGGATGTGATCAAACAGGAATCTGATGAATCTGGA
ATTGTTGCTGAGTTTCAAGAAAATGGACCACCCTTACTGAAGAAAATCAAACAAGAGGTAAACACGCAACCCTTTGGAAGCAACAAGCTGAGAA
TCCTGCCCCCTTTATTCCTTGTGTGCAGCTTGATGTGTCTGCCATTGGCACTGTGCAACACCACGACTTTTCGTGCAAGATTTTCATACAAGGT
GCAGCGAAAAGGTACTGCCAGACTGTAGGCATCATCAACCTTTCCTTTGGGAAGCCAAGCCATCTCTATCTACTTCATGTTTGGACAGAAAACA
TACTAGAGAGTATCAAGAAAAGGGAGGGAAAGAGGTTTTTAATGTACTTTTAAACATTACTGATTATATAAAGTTGATATTTCATTTTTAGATG
TGAAGAATTGGAATTTAAATTAAAATAATAGTATCTTTAATTAATTGTATTAAAAAAAGGGAGGCTGGGCGCGGTGGCTCATACCTGTAATCCC
AGCACTTTGGGAGGCTGAGGTGGGCAGATCACAAGGTCAGGAGTTCGAGATCATCCTGGCTAACATGGTGAAACCCCGTATCCACTAAAAATAC
AAAAAAATTAGCTGGGTTTGGTGGCGGGCGCCTGTAGTCCCAGCTACTCAGGAGTCTGAAGCAGGATTATGGTGTGAACCCGGGAGGCAGATCT
TGCAGTGAGCCAAGATCGTACCACTGCACTCCAGCCTGGGAGACAGCAAGACTCCGTCTCAAAAAAAATAAAAATTAAAATTAAAAAAGAGAAT
CTAACCTGCAAGGATCAAAGTTTTAGCTTGTTGGCAACAGCTGTTTTCCACCAGGTTAGATACAGTGCTTCTTGAATTTATTTTCATGTAAAGA
TAAGTATTTTTTTTTATAGCTAAAAATCTGATTTGATTATTTAGTAATGGAGAATTTTACCAGAATGTGATTAAAAACCAGTCTTTTGTCACCA
AAAGATCTTTTATGTCACCAAAATAAAATCCTTGACGGATACAACACTACTAGGTGTATCATTAAAATATATTCTTAATAGAATAAACACCTAG
AATCAGAACATTGGTTGAAAACGTAGGAGCTTTACAGGGGCAGTAAATTTGGAGCTAGTCACATTTCAAATTTGCCATCAGTGTTTCTTTGTTG
AATCCAGAAGATAGAGCAAATTGAGCTGATAGTGTAAGTTAGCAACATAGTTTTATAAAAGTATTTGAGGGACTGGCCAGAAATATACTCCTGA
CTGTACATGTTTCATAGGAAGTTCTAGAAACAACAAAGCACTTTCTATATGCTTTTAGGTGGAATCTCCAACTGATAAATCAGGAAACTTCTTC
TGCTCACACCACTGGGAAGGGACAGTCTGAATACCCAACTGTTCACGCAGACCTCGCCTGTGGCAGATGCACCGGTAAGTACGTGTGCACCAG
CCCCCAAGTTGTTATGTGACACTGGTGCCTCATGAAATCCTGTGTGTGGCATAGGGCTGCTGCGGTTTCAGCACTCCCTCTTTAACACATCTTA
TTTCTAAATGTTCTCCTGCACATGATTTTTAAAAAATGATTATTAATGTAGAGTATAAAGTTGAGATTTTTTCATGTATTAGAAACATTGCAGA
CTTTTTCATTATTTGTTTTCTCATTATTTGAGTGCCTTGGCCATTTAAAAAAATCTACATGGATATAAAAACTATGTTCATTTATATATTTTCC
TTTATTTGTCTTCTAAATAATATTGTCTTCTTGTTAAGTTGTCTCTTGTTTGGTTTGTGTAGCATCTCATATGGTATCAACCACGTTGTCTATA
GTAGATGCCCAGTATTGTACCCAATTGCTTTGGGTTACTACCACCATTTTTAAAGTTTATAATTTGTGAAGGGTTGTCCTTATGTCTTAAGGAA
AATCAGAGCTAATAACAGCTGCTAAGATTTATTTAGTAGGTACTAAGTGGTAAGTACTGCTCTAGGGGCTTTCGATGAATTGATTCAGTTAATT
CTCACAATTATCCTGTAAGGTTGGTATTATTTTTATTAATTTTTATTTTTTTTGAGACGGAGTTTCGCTCTTGTTGCCCAGACTGGAGTGCAAT
GGCACGATTTCGGCTCACTGCAACCTCTGCCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGTCTCCCGAGAAGCTGGGATTACAGGCACCCGCC
ACCACGCCCAGCTAATTTTGAATTTTTAGTAGAGACGGGGTTTCTCCATGTTGGTCAGGCTGGTCTTGAACTCCTGACCTCAGGTGATCTACCC
GCCTCGGCCTCCCAAAGTGCTAGGATTACAGGCGTGAGCCACCGCGCCCGGCCAGGTGGGTATTATTATCATTTCTATTATGTCAACTGGAAAA
CAGAGGCACAAAGAGGCTTAGTCATTTGCTCAAGATTGTATACCTAATAAGGGATGGTGCTGGGTTGGAACTCAGAAGGTCTTGTTCTAAATTC
CCTACTTTTCACCATTTTTTGCCAATAATTTATAGCTCTAAAATATTGATAGTTCTGTACCAATATATGAAATAAAGTGTTCTCTCCCCAGAAC
TTAGTAAATCTTCTATTTTGAAAGGCATGTATTTATTAATTCATTTAGCAGATGTTTTTTGAGTGCCTAACACATGCCTAGAACTCTGGGATCC
CAAAGGAGCTTTGTGTTGTGGTGATGTTTGCCACAATGGGATTAAGGTTCAGACATAGTTGATTTCTCCTTTTAGCTCATAGTGGGGAGAATTT
CTGGCAGATGACTGCATTTTTTTATGCTAATGTGTATCATCTCATAGTAATCTACTCTCCACAGTGTTAGAAAAATGTGGCTCTCATATTATCC
AACCTCATTTAAATTTCAAATTATTCTCTTCCCTTTAGAATATTCTTACAAGCTCCGTTTTAATGGCACCAGCATCAGAAGATGAAGACAATGT
TCTCAAAGCATTTACAGTACCTAAAAACAGGTCCCTGGCGAGCCCCTTGCAGGTAATTACTATTCCAACATTGGTATTTTAAAATTCATTCACT
GAAAAACTGTCATCTTTGGTGGTGGTGGTGGTGGTGGTGATGGTAGTGCTGGTGGTCTGTTTTTCGTTTTCAACATTTTAGACATAGGGGAGTA
ATGCTTTTATACAATTCTTGATGTCTAGAAAAATCCAATAATTCCTTTTTGCTACTCATATGAGACATGCTAGAAATTTTTATCAGTGCAGATT
CCCCAAAGCATGATGAAATGAAACATTTCTTACTGTGACTGAGACTAAGATGTATTACACGTGTGTCACTATCTTCTTCTGCCCTCAAATGTTT
TATAAAAATATATCAATATAGTTTACTTTATGTTCCAAATTTTTTATTTTTTATGCTGTATCCCTAGGCAACCAAAGCTCAGAGACTGTTCCAA
TTTTAAATGAAGTCTGAAATTAGTCAGACAGAAAATAATTGCAATGTATTTGACTGTCAGAATAAGAAAGTCAACTGTCAATGTTGTGAGGCCG
ATCTGAAGTTGACCATCTGCTGTCAGGTTTTAATATCAAAAGAGATTTCCCTTGTAACCCTAAAGTGGGTGTGTGTTGATGAAATATAACCAAT
TCCAAATTAATCCTGAGCCAAATGTAAATAAGAATGCAAATTTTGCTTCCCTAAATTATTTAAAGCAGTTTCTGACATTAAATAGCCCAATACC
CAGCCACCTGCAGAGCCCTCTCCTCCATCCCCCTGTGCCATGCAGAGGGAAACTTCATAACCCTAGAGGAAGTGAAGAGCCTGGATTCAGAAGC
TGAAGGTCATATTTCTTGCTGTAAGTTAAATGGCACGATCATAGGACAGCAGCCTTTGAGTCTGCCCATTACCTTAAAGGGATTTCCCATTCTT
GTGATAGTTTCTCCTTCCAAATTGTGAGAATCTGAAAACTTGCCCGGTAAGTATTTGTGATGCTTAGTTTTTCAGGGTTTTTTGTTGATGTTGC
TTTGTTTTTTGAAACAGGGTCTTACCCGGTGGCCCAGGCTGGAGTGTAGTGGGGTGATCTCGGCTCACTGCAACCTCCGCCTCCCAGATTCAAG
TGATTCTTATGCCTCAGCCTCCCAATTAGCTGGAATTACAGGTGTGAGCCACCGGCAACCCAGCCGTTTTTTTGTATTTTTGGATAGAGACAAG
GTTTTGCCATGTTGGCCAGGCAGGTCTCGAATTCCTGGTTTCAAGTGATCTGCCCACCTCGGCCTCCTACAGTGCTGGGATTACAGGTGTGAGC
TACCGCACCTAGCCAGTGCGTAGTATTATTGTAAAATAAGGATTGCAAGCACATTTTGTTTAATTAAATCAGATTGCTTCCTTCCTGGCCTCTC
TCTGACAGCAATTGTTTTGGTAAAATGGCTGTGGACTGGAATGTGAGACAGGGAGTCAGTATTTATGGGGAATCTGGACAAGTTCCTGCGTCAG
TGAGGCTGGAGTTGGCCCCGTGTGGAGAAGACTCAGAATACCACAAAGAGGCCAGACGCAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAG
GCCAAGGCGGGTGGATAACTTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACACGGTGAAACCCCATCTCTACTAATCCCAGCTACTCGGGAG
GCTGAGACAGGAGGATCGCTTGAACCCAGGAGGCAGAGGCTGCAGTGAGCCGAGATCATGACACTGCACTCCAGCCTGGGTGACAGAATGAGAC
TCCATCTCAAAAAAAAGAATATCACAAATAATTGGGAGATGAGGAAGAGAATGAACTCCACCCAGACATAAGAGGAACCCAGAAAGGGAGTTAC
AAAGATTTCAAGGCAAAGGGCAGCCATTTCAAAATTTTCCTGAAAGCTGTTCTTAGGTCCAGAAGAAAAGCTTTTGCTTTTTTTTTTTTTTTTA
ATTATTCCCACCTAAGTTACTTGGCTCTTGGTTTCTAGAGAACAGAATTCAACTACTGCTATTCGTGTTTTAATTAAGTTAGATTAAGTTTTGC
ATATATTTTTCTAACCTAGTCTGGGGCCAACTTGTATTTGTAGTAGTACAGAAAAAGTCTGTTCTAAATTTCAAAAAGCCAACACATCAATATAC
TTGGGGACAATTACCATTACATAAGTTGAAACCCATAGTTCAGTATTGAGCTTTATCAGTATATTTGTATTTTATTTAATGGAAATATTGGTTA
TCTTTGAAACTCAAAATTAAGTTATAGCTCTATTTTATTAATCTGTATTCTCCTGTCTATCAGTGAGTCATATTGGCACTTTATGAATTCTAAC
ATCTGTACACTGAGATTAAGTTGTGTATGGTGAAGGTAATATTTGTCAATTCTATCAAACTGAATAATTGAGACTTGAAAGTTAATTTTAGAGT
CAATACTCCTGTCTAAACCATATAGTTTACTGGTTTACACTGACCAGATATATTTTAATAATCTGCTATAAAGCCAGGCTCAGTGGCTCATGCC
TGTAATCACAATACTTTGGGAAGCCAAGACTGGAGGATAGCTTGAGACCAGGAATTTGAGACCAGCCTGGGCAACATAGTGAGACTCAGTCTCT
ATTAAAAAATAATTAGCTGGGCTGGGCGTGGTGGCTCACGCCTGTAATCCCAGCACTTTTGGAGGCCGAGGTGGGCGGATCACGAGGTCAGGAG
ATCGAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAAATTAGCCGGGCGTAGTGGCGGGCACCTGTAGTCCCAG
CTACTTGGGAGGCTGAGGCAGGAGAATGGCATGAACCCAGGAGGCGGAGCTTGCAGTGAGCTGAGATAGCGCCACTACACTCCGGCCTGGGTGA
CTGAGCGAGACTCCATCTCAAAAAAAAAAAAAAAAAAAAAAAATAATAATAATAATAATAATTAGCTGGGTGTAGTGGTACATACCTGTAAT

CCTAGCTACTTGGGAGGCTAGGGCAGGAGGATCCCTTAAGCCCAGGAGTTCAAGGTTACAGTGAGCTATGATTATACCCCTGCACTCTAGCCTG
GGAGACAAGACCAAGACCTTGTCTCTAAAAAAAAATTTTTTAAGGCCAGCCGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCAGAGG
CGGGTGGATCACAAGGTCAGGAGTTTGAGACCAACCTGGCCAACATGGTGAAACTCTGTCTTTACTAAAAATACAAAAAATAGCCAGGCGTGGT
GGTGCGCACATGTAATCCCAGCTACTTGGGAGGCTGCGGCAGGAGAATTGCTTGAACCCAGGAGGTGAAAGTTGCAGTGAGCCCAGATCGTGCC
ATTGAACTCCAGCCTAGGCAATAGAGTGAGACTCTATCTCAAACAAACAAACAAAAATTTAATCTGCTATAATAGATACTAATTTATTTTAAGA
AATACTTAGTGAATGTTGTTCTACATACTTGCCAATTGGGAGGAAAAAAGAAATATTCACTAAATGAATGAATGTTATACACCAAGTATCTCCT
TCATTTTATGTCATGGAGTTCTAGCTTCTGATATCACAGAAATATGTGATTTCTAAAATGTTTCAGACTATTGTGATAAGTATTGGAAAATGCA
TCAAGTGACTCTAAATATTTAAACATACATCACCTATATTTCATATAATCCTGATTCAATAATATTTCTATAGATTTTTTATGCAATTTGGTAA
TTTTGTTTGTTTGAAACACAGTGCTATTTCATATATTTCTATTGATAATCCAATTTGACCTAATTAGGCATATTTCTCACACATGGTATTATTG
AACATATTGCACATTTATTAAATGATATGTATTTTACTTAAGAGTACTTTATATAATCTATAATTTTTGTAATTTGTACTTATAATAAATCAAA
TATTAAGTGGGATTTTAGCCAAACCATCTAGACATTTTTGTCATAATGTTTTTATTAAAACAGCAAAATAGGAGTTTCAAAATATTTTAAAATT
TGAATACTTCTAAAATGTAAAATGTTTGCAACTGGTGTAATGCAGTTGATTGTCTATCCCTCTAAACTGTCTAAATAACTTAGGTTCAAGAACA
GTTTATTGAAGAACATAGGAACTGCGCAATTCTGTGTTTTATCATTTCAGTTTTAATCACCCCGGCTTGATTATGGCAACAACATTTTAGACAA
GCAATTATTACTATTTTTGAGGCCCATATACTGGGCCATTATGGTTTTGCTTCTAACGTACATATAAATGCACATGCAATATATATAAATTATG
TTTGCTGTTTTAAAATTAGAAATGCCGAGAAGCTATGTGTTTGACATTTTATTATAAATTTTGTACACACATAGATGTATGGAAAATATACTAT
GTTCTAGAGTCAACAATTGTTATCATTTTGCCATATTTACCTCATCTCTTTTTTTTTTTTTTTGAGATGAAATCTCATTCTGTTGCCCAGGCTG
GGGTGCAGTGACGCAATCTCAGCTCACTGTAACCTCTGCCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGTCCCCTGAGTAGCTGGGACTACAG
ATATCTGCCTGGCTAATTTTTGTATTTTTAGTAGAGATAGGGTTTCTCCATGTTGGCTAGGCTGGTCTCGAACTGCTGACCTCAAGTGATCCAC
CTGCCTCGGCCTCCCAAAGTGCTGGGATTATAGATGTGAGCCACCACGCCTGGGCTACCTCATCTCTTTTTTATGAAGTTTTTATTTTTATTTT
TTAATTTTTTTTTTAATTTTTTTTTTTTTTTGAGACAGCGTCTTGTTCTGTCACCCAGGCTGGAGTGCAGTGGCATGATCTCGGCTCACTGCAA
CCTCCACCTCTTGGGTTCAAGTGATTCTTCTGCCTTAGCCTCTCGAGTAGCTGGGACTACAGGCGCTTGTCACCATGCTAGCTAATTTTTGGTA
TTTTTAGTAGGGACGGGGTTTCACCGTGTTAGCCAGGATGGTCTCAATCTCCTGACCTCATGATCGGCCCGCCTTGGCCTACCAAAGTGCTGGG
ATTACAGACATGAGCCACTGCACCCGGCCAGTTTTTTATTTTTTATTTTTTTGAGACAAGGCCTTGCTCTGTCACCCAGGCTGGAGTGCAGTGG
CAAGATCATGGCTCACTGCAGCCTACCTCCTGGACTCAAGCAATCCTCCTCCCTCAGCCTCCTGAGTAGCTGGGACTATAGGCACATGCCACCA
TGCCCAGCTAGTTTTTTTTTTTTTTTTTTAGAGATGGGGTCTCCCTGTGTTGCCCAGCCTGGCCTCAAACTCCTGGGCTCAAGCAATCCTTCTGC
CTTGACCTCCCAAAGTGCTGGGATTACAGGCAGGAGCCACCCTGCCCAGCCTGAAGTATTTTAAAGTAAATTCCAACTAATATAACATTTTATT
CTCATGTACTTCCAGATGTGTCTCTAAAAATAGACATTTTTATATATAACCTAATACCATCATTACATATTTAACAATAATTCTTTAATCTTCT
CATTCTCAGGTATATTTAAATTTTCCCATTAATCCAAAAAAGAATCAAAATTGAAACAATTTCACACATTGCATTTGGTTAAGCCTCTTAAATC
TCTTTTACTCTCTAGTCCAGTGCTGTCTAATAGAACTTCTACAGTGATGTGAAGGAAATATCTAATATGCTGCTATCCACTATGATAGCCAGTG
GCTTTTGAGCACTTGAAATATGGCAAGTGCTGCTGAGGAGCAGAATTTTCAATTTGAATTAATTTAAGTTGCTTTAATTTAATAGCCACATTTC
CTTACTCTCTTACTGGAATCAGCCATTTCCCCATGGTGCTCTGAATCCTCTTAGTGAGAAATGGTACATAGACACCAAAATCAGGGTGCTAAGT
CTGTCCATTGTTATGTGGTTTGTCATTGAGATACAAATAATTTTTTTTGTTTTGTTTTGAGACAGAGTCTCACTCTGTCACCCAGGCTGCAGTG
CAGTGGTACAATCTTGGCTTACTGCAACCTCCACCTCCTTGGTCCAAGCTATTCTCCTGCCTCAGTTTCCCAAGTAGTTGGGATTACAGGCACC
CACCACCACACTCAGCTAATTTTCGTATTTTTAGTAGAGACATGGTTTCACCATGTTGGCCAGGCCAGGCTCAAACTCCCAACCTCAGGTGATC
TGCCTGTCTCAGCCTCCCAAAGTGCTAGGATTACAGGCGTGAGCTGCCACACCTAGCCAAGACTCAGTGAATTTTAATAATCCAGAGCTCTCCA
TGTATCCCCTAATCTATAATCTACAGTGCTTAAATAGAGGCTTTTATAAGCCATTATGTACACTCATGTTATGTTTGTTTTTTTAATTACTTAG
TCTTTTTTCCAAAAGGAATTTGCAACAGCTACATAATCTTATAATTGTTATGTTTCTTTTATATTTTCACAGTTGTTTTAATTTTAAATTGTAAA
AGCAAACAGGATATTCTTATAATAAAAATGTTCTGAGATGTTTTTCATATTTGTGTCTTTCATGTGGCTCAGAATATATGAGATTTTCATGTCA
TATCATTGTCAGTATTCAGCCTTTTCTCCACATTGTGTGGGGTAGAGGATAGAGTCTAGAAGCTTATAAAATGGTCACAAATGAGGAAGTAGAG
AAAACATTCAGCCTAGAAAGCGTGCATTTGTGGTATGAAAGGCACTGTGGAATGCTGCTGGATTCTGCCCTTCAGTAGTTACCCGAGAGAGACC
GAGGCAGACGCATAGCTCCCTCCTCAGCAAGGAGAAAAGAGTTGCCTGCTTTCCTCAGCGTGCTTTCCATTTCCTTTGTTTTGAAAAAGCACA
TTATGCTAATCAACTTTCCTTAAGGTAGACATTTTTATTGGTAGATCAAAAACCGTGCTTTAAGTTATAAGCCTTCTGAACTTCTGTATTTTTC
TCTTAAATTATAATTTCCTTTTATTCCTATTTAAAACCCAAGTGTAAAAGATGTGTTCATAGGCTTTCTACTCACTCACTTGCCTCTTTTTCGT
AACCACAGAATGACAGCCTTAAATTTTAATTTCCTGACTTGGCTTGCCCATGGCCTGACTTTTTTAAAACAAGGAGTTTAAGTTAAAGAAATTT
CTCCAGCCATTATTATTTAAACACATTTACACAGTATCAAAGAATTTAAAAATGTTGCTAGCAGTTGATACTCCCCTCAGCTTTCGGTTCAGCG
TGTTTTAGATTGCTCCTATTTTGTTATTTGTCTATGAACTTTTATATTTTTCAAAAAAATAAGGCAAGCCCTTTTTGCCTGATAGGCACTGCTG
AGCAGTATAATAAACAAGCATGGGGGCAACAGAACCTGGGTTCCAGGCTAGACTCCACTGTTTTCAAACGGCATGACTTTAATTCATCAAGTGA
ACACAATTAAGCAAAGTATAAGTTTGGGACCATGGAATATCCTTCACTCATCACACAGGTTACTGTGAAGATCAAATGGATATAATATTGCTTT
CAAGATGGCGGCACACTTGCCACTATACACAGGTGATATTATTAGGCAGAGTCGCCACATAGTCCCTGTCCTTGAAATGCAGGCAAGGAGCCCT
CACCAAAGGCCAGGGTGGTTTTTTGTTTTTCGGGTTTTTGTTTGTTTTTTTCATTGTGGTATATTATTTCCTCTGGCATGCTATTCCCTGTCCC
ACTCTTACAGAACTGTGTCAGTGGGTCACCAAAAGAGAGAGCTGATTCAACTGATTCCTTGAAATAAAGGTAGTCAGACCTCGCGGTATGATGG
AGATGAAGCAACTGATTTACTGGTTTTCTCTATTTTTCTGCTGTTCGTGTTGTCATTTAAACAGACATGGAAACCGTCTGCACACGACAGAGAT
CTTTCCGAGCCTTTTTCATCTAGTGTGCTGTGCTGACCCGCTCCCCTGGATGCCTGCACACTCATTTGGTTCTCCCTTTTGGTCACTTTTTTCC
ACTTACCCTGGCAGAAATTCACGTGGCTGTCAGTAGTAATTCAGTGACCTGCTTTCAAAAAATGTTATAAATTAAGCAGCTTTTCTGTGTATAG
CTTTTGGGTTGAACTGAGAAGGGCTAAGTGAAGGGAGAAGCTATGTTGAGCTCAGAGTCAGAATGCCCTGCCCCAGACATTTTGAGATGTGAAT
TTTTCATTTGTTTTGTTGGTGACACTTAGAGAGAATAAACATTCTGAGATAAAAATCTTCCTTGGGCAGGCCAGCAAAGATAGAATTGCTTTA
GAGCAATTTGGCACTTGGTCTTAATCTTAATAGTTTGGAACTCATATGTGACTAAGGAAAAGGATATTGCAAAAAGTTGTGCCACCCTAGGCTA
TATGATATAAACTTAGAAAGTCTATCAACGTGAAAGGTGAAGAGACCTCTAGAGACATCGGGGACAAACTCCAAATTTGGGAAAGGTCCATCCA
CATTTGCAATTGTTAGTTAGGCTTGGGAAGTGGAGTCATTGGTGGATGAGGCAACTTCCAATCACCATCTCGATTTTATTTCCCTAACTTTTA
AGATTATTTTCTATAGAAAATCAGTAGTGCTGAAGTTGGAGTCATTTAATTGATTTGTGCCAACCTAGGGAAGCATTTACTCTCGAGAAAAGTT
TGGTAACCATTAATCTTACCTTAGCAACATTTCAGTTTAAGCTTATCTCTGACTTTCCAAAGACAACTAAAGATTTCTACAGTCTCTCTTATAA
CTGATCCATTTTTTCAAAAGATGTCCCTTTGGGAAGGAATTCTCATTTTTAGAATTTTAGTCCAGAGGAAGTATTTTTTTTCAGATAGGTGAA
ATAGAATAAGCAGAAAATTCTTATTTTTTACTGTTTTATATACCATTGATGCCTGCTTATTTAAAACAAAACACAATAAAAACATGATACCAT
CTGATGAGTTGCTTTGGTTTTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGTTTATACAAGTTTCTTATTAGGTCAGCAAATTGTAA
AACACATAATTTGCCAAGGCTTTTGAAGCCAGCAGATACTGGGTGAAGTTGCTGTATGAATATAATAATAAGAACCGTTTTTGTTCAGCTTGAT
GAAAAAACTATTCATGTTCTAAATGAAAATGTGAAGATCATCTAATTCTGACAGAAAACCACCTGTGGACATGGTCTTGTTTCTTTTTATTTCT
TCTGTTTTCTACAAAAGATGGCAATATTTATTTAAAGTGCTTTAACAGGATATCCCAGTTAAAGCTTTGACAGACTGTTTATAGTTCACTTCTG
CCCAGGGGCAATTAAAGGCACATTACAGGATAAGCGAGATGACTCCCCGGCCACAGGAGGAGGATGTGTGGGTAGGATTATTAATGTTGAAATG
AATTATGATAGAGTGACATGTCTGCAAGAGCACCATGGGTTAGTAACTTAACAAGAATTCATATGCAGAAACCCATAATTCTCAGCAGTTCTTT
AGGGTAAATGAAACTAAAGTTTAGGGAGAGAGAACAAGGAGAATTTGCAAAGATATGTATGACAGTATTTAAAAATGTTCTTCCAGCACAAAGA
CATTAATCTTCCTTTGTCAAAATAATTCTTTCTGCATGAAAAGTTGGCATGGGGCTCCCAGGCTTCAGGTAAGATGGGAGAAAGGGAGCGTTTC
TTTTTTTTTGTACCAAAGTACTCAATCTTCTGATCTTCCTTGACTTTCACGACATAGGCATATGTCTACTCTGACCAGTTTGTTTCATTTATTG
TGGTAAGATGTGCTTGTCTTGTGCTTTCCTGGTGCAGAAAAGGAGCTGCCTCGCTCATGCTTGGTGGCCTTTTTGTTCCTACACACAGTGGTTC

TCGTACATGGTGGCTACCACATCCTGGTGTTTGTCTATACTGGGAGAATCAGGCGTTCCAAGTCATCTTGGCTGCCCTAGCTCTGAGCTTCAGG
GGATATATGACTCAGAAATGCTATGCTTTCTGGAATTTGGATATTTCATTTTTATTTGTTTCTTGGTAAATTCTCTTTTGACTTAGGAGAAGCT
AACTATTTGGAAAGGTCTCTCAGAACTCTAATTACAAATATATGGTACCTTCTTTATATTGATCTCATTTTTAAATACCTAGTCCTGGAGGAAG
AGCTAAATATGAATACAGTGATGAGCTGTGTAGGGGATCTCACAGGAACACAGTCAGATTTCAAGTTGAAAATAGATTCAGTTGATAATACTTA
GTACTAGATTCTCCTGAATCGACTTTGGGAATTCTGAGTCAACCTAAGGACTATATTACAAAGGATCAGACCTTGACTTTTAGGCCAGGTGTAG
TGGCTCATGCCTGTAATCCCAGCACTTTAGGAAGCCAAGGCAAGTGGATCACTTCAGTCCAGGAGGTTGAGACCAGCCTGTGCAACACAGCGAG
ACCCTGTCTCTACCAAAAATACAAAAATTAGCCAGGTGTAGTGTAGCACCTGCCTGTAGTCTGAGCTACTGAGGAGGCTGAGGTTGGAGAATCA
ACTTTAACCCCGGATATGGAGGCTGCAGTGAGCTGTGATCATGCCAGCCTGGGCAAGGAGCAAGACCCTCTCTCAAAAACGAAAACAAAAAAGA
CACAGAACTTGACTTTTAACAGGAGGCATAGTAATAGCAAGCATAAGATTGTTTTAACATAGCATTTAAGATAATTTACGCATTTAGAAAATTA
ATTCTGGCTGGTTGTAGTAGCTTATCCTTAATCCTAACCCTATGAGAGGCCAAGGCAGGAAGATCACCTGAGGCCAGGAGTTTGAGACCAGCCT
AGGCAACATAGCGAGACCCCCGCTCTCTACAAAAAATTTTTTTTAAAAAACATAGCTGGGCATGGTGACACACTCCTGTAGTCCCAGCTACTCA
GGAGGCTGAGGCGGGAGGCTTGCTTGAGGCCAGGAGTTTGAGGGAGCTGTGATCACGCCCCTGCACTCCAGCCTGGGCAACAGAATGAGGCCCT
ATATCTAAAAAAAAGAAAAATGGACAAGAAAATTCTATATTGATTGAAGCCCAGCTAAAATAGAAAAAAAAAAATTCTAATAGGCCATTTTAAAG
ACTTTGGAAAAATTCTTAGCTAGAGTAAAACAGAAGCAATCCTTTCTTTCCTGGTTCTCACATCTCCATTCTCACCTTCATTCCCCTTCCCCTC
CATTTGTTTCAAGTATTTTTCTTTTCTATGTGTGTCTTTATGTAAATTTAAATTTACCTACAAGATATTATGATATTAAGATATTTCATTCTGC
TTCCTGTTTTTGTCACTTGTTCTTTAAGATCCAAGTCCTTGGCTCCATGTGCATCTAATCCTTGCCATAAGCCCTGCATCGTACTTCATATTCAC
CATATTGAACTATTCACCCTCAAGTAGTCACTATTAAATGTCACACTGTTGTAGCGACTACAAATGCAAGCTCAGTAACTGAAAAGATAACATT
AAATTTTGTTTTTTAATTGGTTTCCTGTGTCAATTTCATGTTTCGGGAATTTGTATGGACAGATAGACACCAGAGAGATATGCGTATTTCACCT
GCATGCTTGAGGCTAGAGAAACATGATTTATTCAGAACTATTTCAAATACTGTAACTAACCTGGTAATTTTGTTTAGGAAAACATTAAATTCGG
AATAGAAGGCAATTCAGAATACCTGTCTGTTATCTTTGTCTTGTCATTTTTGAGATACTCAGTTCCTGGAAAATATTATGATAATCCATCTTGC
TATGTAGTATTTCAAGTTATATGTTGAGCCTCTGAGCTTGCAGAGTGAACATTTCTATTCATAGACAGTGCTGTTGACATCAGTGGGGAGATGG
CACAAGCTTTGTGCCCTAGGAAAGTTTAAAAGCTAGAACATTACACTGCAAACCCTATGTCAGGAAACTTTGTTGCAGCAACTAGGCAAGGAAA
CCCTACCACTGTACCCATACCTTGTTTTAGTAGAATTATGTTTCTTTGCTAAGAAGTCTGGTGACTCTCACACCCCATCTCAGCACTTTCCTGG
ATTCCAAGGCCCTGGTGCCCTGAGCACACAACTTCCCAGGTTCCTTTTATTGTTTCTGATAAGAACTCGAATTAGAGGCAGCGTCTGGTACTCA
CCAGGGGTGTGGTCCCATGGGTGACATTCTTGCTCCATCATTTCTTACCCAGGTAACCTTGAGTATGGCGCCTAAATCCTCTCTTCCTTTCAAA
TTGCCTGGTCTGTAAAATGGATGCAGTGAATGGTAGCTATGCCACAGGTGTTTTGTGTGAGAATTAAATGAGAGGAGTTATATCAATAACACTT
AGAGGCATGCGGTGCCTATAGTGAGGGCTTGTTTTATGTTGTCGTTTAACCCTTTCTTTCTCAGCCCTCCCCCACTCCACATCCCCTCCCACTG
GCAATGTACAAATTGCAGCTTCCTGCCTCTTTCCTGCTATCTCGCTCCCTGGATGACATCCCTGCGTTTCCACCTCTCTCTCCCCTAATCTTAG
CTGTTTTCACCCTTTCCCCACAGCATTGCCTTGACAGTTCCTCAGTGTCCCATCCCCTCTTCCCATGGACAACACCACAAACCTGCGCACACGG
CCTGTTATTATTCCTCCTGTTTCACCTGTGTCCATTCTGTCTCATAAAGGACACTGTAGGCTCTGAACAGCTAAGGCCTTTCTTATTCTTTTGT
CCCATGGAAAATAATCCCTCCAGATAGCAATACCAGGAATAGTGCCTTTTCTAACCCACTGGTTTCCTTTTGAGCTTACAGCCACCAAATCTTA
TATCTGTTTGTTTCTGTTCCCCTCTCTGCATTGACTGCTAGAGAGATCAGAGTCAAGCAGGAGGTTACATCTAGCTGGGGCACTGTGCTTTATG
CTGGTGTTTCGTGTGCAAATCTCATACCATCTTCATGTTACAGTTGTTCCTTAGTGTCCATGGGGGATTTGTTTCAGAACCCGCAAGGACACCA
AAGTCCAGGGATGCTCAAGTCCCTGATATAAAATAGCATTGTGTTTGCATATAATCTACACACATCTTACCATATAATTTTTTTTATTATTTGT
ATACATTCGTGGGGTACAAGTGTAATTTTGTTACATGGATGTATTGCATAGTGGTCAAAGTCGAGGCTGTGAGTGTATTTATCGTTGGAATAAT
GTACATTGTACCCGTTCATTCCTGTATACTTTAAGTCATCTCTAGATTACTTATAATAGCTAATACAATGTAAATGCTATGGAAATAGTTGTTA
TATTGTTAGGGGATAATGACAAGGAAAACACCTATACATGTTCAATACACAGCAATTATTTTTTTCTGAATATTTTTGATCTGCCATTGATTGA
ATCTATGGATGTGGAACCCACAGATATGGGACCCACAGATGCAGAGGGCCAACTGTGTTTATTTTTTCCAAATTTGTTTCCCTGTTATGACTCT
TCTTTATACACATTTTTAAACTCTGTTGTCTTGTATTTCTTTTCTAATCATCTTACGTCCTTTTGGAAACCAAGTGGGGCATAAATAGTACATG
TTTGCATTTGAGGCAACACAGAGGCATCGCAGGAGCTGGAGACAGCAAAGTTCAAAGCCAGTCCACCACTTACCTACAGAGTGGCCTTGGGCAA
GTTACCTCCATTTTCTGTCTCCATTCTCGAGCCTGTCTAGAGAGAGAATGAACCTGCCTCCCGAGGTGATGGTGCTGTTTTAATGAAATAATGC
ATGTGAAATGTGAAGTGCCACTGTCCCTGGCATGGAGATGCTGTCCTTAGATATTAGGTCCATCTTGTATCTTCTAGTGTATCTTTAAAAATTA
AACTATACTGGCTTCATGCCTGTAATCTCAGCACTTTGGGAGGCCAAGACCGGCAGATCACTTGAGTCCAGGAGTTCAAGACCAACCTGGGCAA
CATGGTGAAACCCTGTCTCTACAGAAAATACAAAAATTAGTGGGGCTTGGTGGCACGTGCCTGTAGTCCCAGCTGCTTGGGTAGCTGAGGTAGG
AGGATCACTTGAGCCCAGGAGGCTGAGGCTACAGTGAGCTGTGATTGCACCAATACCGATCAGCCTGGTATGACAGAGCATGACTCTGTCTCAA
AAAAAAAAGGAAAAAAATTAAACTATACTGATAAATATTTCTAAAGTAATTGATGAAAACATATATATGACACTTAGCAGGTATTGATCAATTC
CAGTGCGTGCATGAGCTGCTTTGCACTGTGGCTACGGCACTCAGCAGTTTGCTTAGTGAGTAGATGGCCATAGCTCACTTTAGGTATCTGGAGA
ATAATGCTCATTCCTGTCTCCAGCTTTGTAAAATTGCCTAATAGACGGAAGGCATTAAAATATGAAGATGGGATTATATCTTATGAAGCTGCTT
GGAATGGGTTTTCCCTCTTAACAAATAATTTCTGATCATCCATATCCCTTAAGAACACCGGATTTCTGGGGGCCAGGGAGGTAAGATTCTATCT
GACAAAGCCTTCCTGGTGTCAACCACTTGCCATCTGTTGGTCAGTGCTGGCCCTGCTGGGTCTATAGAATGAGCTTCTTTGTCTGACGCTCCTG
TTGCCATCCCTTTCTCCATCAGCCTTGTAGCAGTACCTGGGAACCTGCATCCTGTGGAAAGATGGAGGAGCAGATGACATCTTCCAGTCAAGCT
CGTAAATACGTGAATGCATTCTCAGCCCGGACGCTGGTCATGTGAGACATTTCCAGAAAAGCATTATGGTTTTCAGAACACTTCAAGTTGACTT
GGGATATATCATTCCTCAACATGAAACTTTTCATGAATGGGAGAAGAACCTATTTTTGTTGTGGTACAACAGTTGAGAGCAGCACCAAGTGCAT
TTAGTTGAATGAAGTCTTCTTGGATTTCACCCAACTAAAAGGATTTTTAAAAATAAATAACAGTCTTACCTAAATTATTAGGTAATGAATTGTA
GCCAGTTGTTAATATCTTAATGCAGATTTTTTTAAAAAAAAACATAAAATGATTTATCTGTATTTTAAAGGATCCAACAGATCAGTATTTTTTC
CTGTGATGGGTTTTTTGAAATTTGACACATTAAAAGGTACTCCAGTATTTCACTTTTCTCGATCACTAAACATATGCATATATTTTTAAAAATC
AGTAAAAGCATTACTCTAAGTGTAGACTTAATACCATGTGACATTTAATCCAGATTGTAAATGCTCATTTATGGTTAATGACATTGAAGGTACA
TTTATTGTACCAAACCATTTTATGAGTTTTCTGTTAGCTTGCTTTAAAAATTATTACTGTAAGAAATAGTTTTATAAAAAATTATATTTTTATT
CAGTAATTTAATTTTGTAAATGCCAAATGAAAAACGTTTTTTGCTGCTATGGTCTTAGCCTGTAGACATGCTGCTAGTATCAGAGGGGCAGTAG
AGCTTGGACAGAAAGAAAAGAAACTTGGTGTTAGGTAATTGACTATGCACTAGTATTTCAGACTTTTAATTTTATATATATACATTTTTTT
TCCTTCTGCAATACATTTGAAAACTTGTTTGGGAGACTCTGCATTTTTTATTGTGGTTTTTTTGTTATTGTTGGTTTATACAAGCATGCGTTGC
ACTTCTTTTTTTGGGAGATGTGTGTTTGTTGATGTTCTATGTTTTGTTTTGAGTGTAGCCTGACTGTTTTATAATTTGGGAGTTCTGCATTTGATC
CGCATCCCCTGTGGTTTCTAAGTGTATGGTCTCAGAACTGTTGCATGGATCCTGTGTTTGCAACTGGGGAGACAGAAACTGTGGTTGATAGCCA
GTCACTGCCTTAAGAACATTTGATGCAAGATGGCCAGCACTGAACTTTTGAGATATGACGGTGTACTTACTGCCTTGTAGCAAAATAAAGATGT
GCCCTTATTTTACCTACTTTTGTTTTCTCTCTTATTTGTCACTATGGACAACAGTTACACTTTAAAGAAAATGGAGCAGACTCAAAGCACTTTC
CTCTAATAATTGCACACCATATGCACTTCGTGTGAAGAAGCCAGGAATCATTACAATGGAGAAGAAAGAACAAGCAAACTGAGTTAAATAGTTC
ACAAACAATCACATGGACAATGGGGAGGAATCTTCCAGAATGCATCAGTCAGGGTCTAGCGGCATTTGAGTGCGGATGCTGTAAGGGGAATTCG
TTCACAAATGTACTGATACCACAGATGTGGGCAGGGGCTAGGAGAGCAACAGGGTGCAGGCCTGAAGGCACCTGGAAGGCCGCCTGGAGGGGGA
CAGTCAGGAAAGCAGGAGCCCTTGAGAGGAGCACTAGCCTTTGATGAGACCACTGCCATCGAAGGAGACCTCACAGGGAGGGAGCCAAGGGTAA
ACCCTAACTTTGTTTCCCCATTTCTCCTATCTCTGCCTAGGGGTCCTCACTGGCAGAACCAACCAGAAGCTGGAGGACAAGGGAGCTCCCATAT
GGGAGCCGGCCTGTGAGCCTTCAAGGGTATGCGGAGTCGTTTGTTCAAAATAGCCCCATTTCACAGATGAATCTCTACTGGCTCCATCTTCAGC
TTAGTGTTCTCTTCACTATGCTGTAATATCCCTTTTAACATAAATTCCTTTAAATTTCCTTTACTCACTCTGTTCCAATTCTGAATTCTCATGG
GCATGATACACTTGGTGTTCATAGAGCCAAGGATTTGTTACGCCTAATTACTAGTTTTTGAGTCAATTTGGTGGACTTTTACTGTCCTGCTGAT

AGATGACGTGACACGTCTTCCCAGTGTTGGGAAGCTCTTTATATTCATGCCCTCTCCGAGTATTTTTCCAAGCGCTGACTCTGCCACTTACTAG
CAGTTTGAACTTAGACAAGTCACTCACATCTCTGAGCCTTTTTTCCTTATCTGGGCAATGAGTTCTTTCCCACAGTGAAACTTTTATTAAGTAA
TGCACTATACAAATGTTTGTTATTATGTACACTTTCCACAGTCCAGTGATGCTTGCTGTGTAGTGTGTTGAATGCCCATCTTGCTGATAATGTG
CACTGCCAATTACACAGTTATATTGAGAGGTCACTTAATTATTAATGACAAGAGTGAACTCAACATCTTACAGAACTGAAATAGATATTTATAT
TTCCAACACGCTTGTAACCCAATAACTAGAGACTAAAAACCTAACTTCATGAAAAGGAGTGTAAATTTAGCTGTTATGGTCAAATACTCACACA
GCACACCCAGTTCACAAGCATCTCCAAAACGTTGATTGTTCTGATCAATTTTGAAAATCATCCTGCTCTCTACAGCAGGAATTCAGGTAGTACA
AGTGAAAACAGTATTATATACTACTTAAATGAAAGGCTGCCCTTGTGAGTTACTGTGTGTGAAGTTGCTTCTGCGTATGTCCATCCAGAGAACA
GGAGAGACACTGAGAAGACTGATGTGTCCCCGACCTCTAGATGGGACTGAAAATTCAAGATAAGAGAGATGCCCAGGGATAAACTTCCTTCTTT
CTTTAGAAATTATACAATATTAGAACTGAAAGGGACATTAGATATCATCAGGGCTTCCCATAAGGGGCTCACTGTCTTGCTTTATTGAAAGAAA
ATCAGTTTTGAAGCCAGACCAATCTTTTTTTTTCTTTTTAAATATAGGTGGTGTCTTGCCATCTTGCCCAGACTGGTCTCAAATTCCTGGGTTC
AACCAGTCCTCCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCGCACCTGGCCACCAATCTTGATTTGAATTCAGACCCTA
CCCTTTACCAGCTGTGTGACTTTGTATGTTTTACTTAATCTCTCAAAGCTTTATTTTACTTATATTTTAATTATACTGGAGATAAAAATGCATT
TCAAGTCAAGGTTGTTATTGTGAAGATTCTGCAAGTAAATACATTCTTGCATCTCTGTAAAATGTTGCCGTGCCTGTTGATTAGATAAGTCACC
ATGATGACTTATGATCAATTAGAGAAAAATGTCTGTTACCCAGCGATGGGAAAGTGAATACCTCCGAGACCCATGTCCCCAATTGTGTGTTAAA
ACTATTCTATGTTAAAAACTTACTTTAAAACTCAATTATATCTTCTCAAAATATTACTAATCATTCTAACATATTTTAGTTAATATGTTTCTCC
TTGTACAAATATATATGTGGGAAGTAGAGGGCATATTTTTCCTTAAGCTTGCTGCTTTCTAATCCAAAAAAAATGTGATGTGCAGGTCTATTAC
ACTCCACTTAAAATACTTACAACTTTGGGGCTTATTTTTCTCCTTTGAACCATTACTATTATAAAAATCAATTCTTCCTTAGTCACCAAGTCCT
CATCCTTGAGGAAAGGAAGTCAGCTAAAATACAAATCTCTTTGTAAAAGTAAAGTTTAGCGACTTGGGAGGCTGAGGTGGGAGGATCCCTTGAG
CCCAGGAGTTTGAGACCAGCCTGGACAACACAGAGAGACCCCATCTCTGAAAATAAATAAATTTCAAAAGTAAAGTTTACTTATATACAATTAT
ACCTAGTAACTTTGCTCCCTATAGCAAAAGGAAGCTAAACTATAAATCTTATGGAACTTGTTAGTGTTCTGGTAATAAACAGTTAATAATTTTT
TAAAATTAATATTCAGTGAAAATAATCTTGGCCAGGTGCGGTGGCTCATGCCTGTAATCTCAGCACTTTGGGAGGCTGAGGCAGGTGGATCACC
TGAGGTCGGGAGTTCGAGACCAGCCTGGCTGGCCAACATGGCAAAACCCCATCTCCATTAAAAGTACAAAAATTAGTGGGGTGTGATGGTGCGT
GCCTGTAATCCCAGCTACTTGGGAGGATGAGGAACAAGAATCACTTGAACCTGTGAGGCGGAGGTTGCAGTGAGCTAAGATTGCACCACTGCAC
TCCAGCATGGGCGACAGAGGAATGCTCCATCTCAAAAAAAAGAAAGAAAAGAAAGTAATCTTGATGCTAATATGGAAATGAAAGAGGTGGTTTG
ATATTTGTCTTTACACTATATTTCTTTAATTCAACTAGTACATGTCGAGGCTCTATTTTGTGCCAGGTGCTGTGTCAGAAGTTGGGGTTAGAGC
TCAGAACAACATAGATCAAAGTCCCTGCCCTCTGTGAGCTTATGTTCAGATGGGAGATACAGATGAGTAAAGGTTACTACAATATAATCAGAAT
AGGGATAACGGAGACCACGTAGAGCACCAGATCAAGACGTGGAGGAAGAAGACAGGTTTCCTACAGAACTGACACCTAGGCAGGACTGACAGAT
AAAGTCAGGCAAAAGTTGGAAAGGACAGTAGAGTAAGATGTGACATCTTAAACTTGCTGAATAAAAACACCCAAATATAACAAGTTATCTTTAA
ATTCATGATGATATATTGTATTTGGACATTCAGGCAGTTCTACTACCTGAGTATATCTAGTTAGTAAATTTTTTCCCCATGCTCCAAACAACAG
TTTCACACCCCTTTCTCTCAAACTCTCCATCCCGTTTCTACCCAGTCCCCGCAGATAACTTTGACTCATACACGAATGAGAAAAGAGAAGCCGT
CAAGAGCCACACCTGCATGCCTACTCTGTCTCTTGTTAGCATGGGTGAGCATCCCCAGCTGCAGTCATGGACTGGCCCATCCATCTGGCCTCTG
CAAGCCATTCCTCTGTATCCTCAGGGGTTTCATCTTGTGAATACTCTCTCTCTCCCCGACATCATCATTGTCTTCCCTCTCTCCCAATTATTCCC
TCACATTAACATGGTCTACAACTTCCAGCAGGAAAGACAATGTTCCCTCATCAGTATAGTTTAATTTTTTTTCTTTTCTTTTTTCTTTTTTTTT
GGGGGAGTGGGGACAGAGTCATGCTCTGTCATACCAGGCTAATCAGTATTGGCACAATCAGGGTTCACTGCAGCCTCAGCCTCCTGGGCTCATG
TGATCCTCCTACCTCAGCTTCCCAAGTAGCTGGGACTACAGGCACGTGCCCCCAAGCCCCACTAATTTTCGTACTTTCTGTAGAGACAAGGTTT
CACCATGTTGCCCAGGCTGGTCTCAAACTCTTGGACTCAAGTGGACAATATCCCCTTATATACCCCATCATACCACCCCATTTATCTGCTCCTC
AGCAAAACTGCTTAAGGGAATTCTGTATGGCAGGTCCCCACTTCCCCAGGTTGCCTCCCCTCTGCCCACTCCACATGAACTTTCATTGCCCCCA
CTCCTCCATGCCTGCCTCTTCAATGTCACCAGTGACCTCCACTTCGCCAAATGCTGTAGTCACTTCTTGGGCCTCATTTTACTTTACTTATTGG
CAGCAGTCAACAGAGTTGACACCCCCTCTTTCTCTAACCATTTTTCTCTCTTGGCTTCAGGCATGACTCTCTTGGTTTTCCTGCTTCTCACTGG
TTCCCTCTGTTTGCTGCTCCTCCTCACTTTGGGCCTCAAGTGGCCCTTTCCTCCTTCTCTCTCCATCATTCTTCCTAAAGGATTTCATCAGTGC
TGTGGCTTTAAATACCATCTCTTCACCCCTGAGCCCACTCTGAAATTCTAGACTCCTGCAGCCTATTCCATGTTAACATCTTCCCCATATAAGC
ATCTTAGATTAAGTATGAACAAAACAGAACTCATAATCATTTAAATGCTTTTTTCTCATTAGCAGTAATTGGCCCTTGTATCTTAATTTCTTCA
TTTCTCAAGCCAAAAATTTGTCATCCTTGGTTTCTCTCTTTACCTTATTACCCTCCTTACACTCAAATGCTCAGAAAGACCTGAATATTCTATC
TGCAAAATGTATCTTAAATGTGTCTGCTTTTTCTATTACCTGTAATAATCTTGTTAGTAATGACACAATATTTATGAAGTGCTCTCAATATGCT
AGGGAAGAAGAAAGAGGGAGAGAGAAAAGAAGAAGAAAGGTGATGTCTGAGAGGTGAGTTTTGAGAAACTGAAAGAGAAACCTGGAGGAAAAAA
AAAGATACGAGGCCGGAGAGAAAAGCGGTGTAAATAGAGCTTGAACTTTGTCCGTAGAGATATGGGGAGTTATGGAATGGTTTCTGCAGTGATA
TAAAATTACTTATTTATAGCTGATTCATATAAATAATTTTGTTCAAATCCCTTTTTCATAGACAGTATAAAATTAAACCTTAGGTTAGCAGGGC
CAAATGCTGGCAGGGCCTGAATCTTATACTCAGTTAATTGGATTGTACATAGTGCACTTCCTACTGCTTCTTAATTTCAAAAGAATGTGCTTTA
ATCCCAGAAAAATCTTATTGAAAACATATCTTTTGATCCGAAGTTCATAAGGGCTGTTTTCACGTTTTATAGTCCATAAAGTAATTAGTTCAGG
AAGAACTGATTACTTAAAACTCTTTTCTTTTTTAAGAGCAGAATATTATCAACAAATAATTTCTCTAAAAGTTTCCTCATCATTTTCAAAAGCC
AAATCTTCTACTGAATTTTTCGTATGGAATAATCTGATTATATTTTGATATTTTGGTCATTAAGAAATTCTGCCAATATTTGTTCTTGAAGGTG
TTCTTAGCTTAATTTTATATTTTCTTTTACTCTTTAATCTAGAATGCATTTGTAGAGTCAATGATCCTCAGAAACACATTCGGAAATTTGTTTAA
AATGGAGATTCTTGACGTCACCCTCGGATTCTGATTTATGAGTCAGGTGTAGACCTGGGAAGGTTTAACAAGCTTGCAGCTGATTCTAATGCAG
GTGGTCTGAGAGGACCACACCAAAACACCCTGCCTTACTCCCCAACCCTGTGTTTTCTGTCTAAACACTCCCCAATAGCTTTCAATTCCTTTG
GGGCCCATAATTTTTAATTAAAATGCCCATTTGTCTATAGAGTATTAGAAAAATATTAAGACCCTAACTATAAGTAGATTTTCTTAAATCCAGG
GAATTATTATGTTCCAGATGTTGGTACTAATAATGGCTAACCTCGGCCGCTGATCCATCTTTTGTTTGATTTTATAATATATGGGAAGCATA
ATTTTGTATATATCTAAACCTCTTTAGAAATATGGTTCAATTGCATATGATCTGTCATAAGGGAATTTATATCTCACGAAGTTAAGCGCATAAA
CAAAACAAGACCAAACACACACACACACACACACACACACACACACACACACATTTTCATTCAGAAATCCTTGGTTCTAAACCAGTCTCTAATC
AACATGCCAAAAACCCTTGTTTCAAATCACTTTACTCCTCTGTGCTTTGGGATTTCTATTTAAATGGGGTAAGTATTTAATCCTGTATATAGTT
ACAAAGCCCAGGGAGAACCTCAGATCAAAGACAAAATTGAAAGAAAGCTTTAGTAGGCCAGAGACATTGGAGTACCAAGGATATAATTGTGAGG
TTTTCCTGCTAGAAAACATCCTCTGAAATGAACTTATAAGTTAACAAATCACCCTTCGCCTGTGTTTGGGGGCAGATGTTAGGCAGAGTCAGGA
TTTGTTTCCATTCGGTCACTTTTCTAAAGAATACAAATCCATCCACCTATTCTTTAATGGTCCTAAATAGCTAACAATGGACAGACAACTCCCT
TCCCTTCCTTGCCCAGTTTCCGAGTCAAGGCGCGCAGTGTTCAGTGTATGACCTGAAGCCTTCTGGAAAGTGGTGATTGGTTAGGGTACTCGCC
AGTTTGGCCTTACTTTGAACATCCCAAATTTATTTCCTTCCCCATTTCAAATATTCCGAAATGAAAGACATTAGGAGCACGTATTCTGGTTAAA
TACGGTGATTGAAAATACGAATGAATGCCACTCCATCATGAAATTTCACTAAATGACAATGAGTCAGCAAATAAGGGGCATAAATATACAAGTT
AAAGAGAACAACAGGTAAGAGATTATTTGTCAAGAGCCTGTAACTCATTTATTTATTCAACAAATATTTACTGAGCACCTCCTCTGCAAGCAAC
ACAGAATTCAAAACAATTAAATATGTATTACATATACAGCATATATGTTTACATATAAACAATATATAACATATATAAAGTTACTGGCAGAGTA
ATATTTTCTTGGATAGTCACAGATGTATTAAGAAACAGGCTTGTTTCAAATTTGCTTTTTTAATAACCATATTTCTTTAACATATTCTTTTTCA
TCTTTTACCATTTCTGACATCAGATTGTGTCTTTAACATGGTCTGATTTTTCTTTTGTTGTAAACTTATTAAACCCATAGAGTCTTATAATTGA
TGATACCATAAAATAAAGGAAAAGCTTGGAAATTAACCAGCAGAAATTTCAGAAAGGACCCCTTAGGTTTCTTTTTTTTTTTTTTTTTCTTCTG
AGACAAAGTCTCACTCTGTCACCCAGGCTGGAGTGTGCAGTGGTGAGATCTCAGCTAACTTTCATCAGTAATGAAACCAGCAGGTGTTCTGCTC
CCCAAAAACTTTGTCCACTGTCTCCAGACACTCAGAGCCACATGCTTAACTGTGGCTCATGGGTTAATGCATGTCTGAACTTTTTCAGGGTGGA
AACTCCCTTTTTTTCTTTAGTGTCTAACCCAATGCCCAACATGACATAAGTGCTCAGTAAATATTCAGACAATCCACGTATGAATGTGGTTGAGC

ATCTGTGAGTGGTCTCACCTCCACCCTACATGTGTTACTATGGTCAACCACTTCATCTCTGTGGGTCTCTGCTTGCTCAGCTATAAATTATTTG
GGATCAGCTCAGCCATAGATTCCCTCCAACTCTAATTATCTCTGAGTAAATGAAGTCATGAAAATATGGGAAACTGAGGCAGGAGAATAGGGTC
TAGAGGCAGGGAACCTAGGGCTGATTCACAATTAATTCCTAGAACTAAATCAAAAGGAAAACCCCCAACTTGCCATGCCCAACTATCAAAAGGA
CCAGAGGCTACTCCCTTTACAACCCCCCAACTTTTTCCGCATGGCAGATGAAATATTGAAAGTACCTCTGATTGGTCCCCTTCTGCAACCAATC
AGGTTGGTCATGGGTCAAGTCTTCATTTGCATAGGAGTATAACTTTGTATATACTCTATTTTATCCCCTCCCACAAGCAATCAGACTGATCATG
GGCCACCACTTCATTTACATAGGGTGTACACCAAGTAAGCAATGGGAAACCTCTAGAGGGTATTTAAGTCCCAGAAAATTGTGTAACTGGGCTC
CTGAGCCACTTGCTCAGGTCTGCTCCCACCCTGTGGAGTATGCTTTCATTTTCAATAAATCTCTGCCTGTGTTGCTTCATTCTTTCCTTGCTTT
ATTTGCACATTTTGTCCAATTCTTTGTCCAAGACACCAAGAACCTGGACACCCTCTACCGGTAACAAAACTACAGTGATTTTAGAGGGTTTGTT
TGAAGTGTGTATTGCTCATGAAGGTAATGCCTTTGATGATAACATTTGCTAAACACCACGTAAAGGAAGGGAGGCATTTCCACACTTTGGGTCT
CCTCCCATCTCTATCCCCAAGCCTTAAAATTTCTGCTTAAATGGGAGTCGAAGGAACCCAACAATACTCAGTTGTGTCACTTAAAGGCTGTGCA
ACATCGGGAAGCTTTCTGTATGTCTTACAGCTAGTTCATATCACAAGCCAGCCGTTTCATCATGCAAAAGTCTAAAACAACTTACACCTACTTT
CTAACATTCTTACGGAAAAACCAATACTGTTGAACAGAGGTGGACAAATTATAGCTCCTGGCCAAATCTGGCCCACTTCCTGTTTTAATAAATG
CAGTTTTATTGGAACACAGCCACACCCTTTTATTTCCCATATTATCTATGGTTAGTTTTCTGCTGCAATGGTGGAGTGAAATAGTTGCAACAGA
GACCATGTGACCTCCAAAACCTGAAATATTTACTATCTGGCCCTTTACAGAAAAAAAGTTTGTGACCCCAGCCCTAGAAGAAAAGTAATCAAAA
ATCACAATGGCAGTATTAGTGGTGAAGATAATGGATTCTGCTTCAGTTAAACAGTGTAACTGAGCTTATGATTTTTCTTTTCCTTCTTTTTTTT
TTTTTTTTTTGAGATGGAGTTTTGCTCTTGTTGCCCAGGCTGGAGTGCAATGGCGCGATCTTGGCTTACCGCAACCTCCACCTCCTGGGTTCAA
GCGATTCCTGCCTCAGCCCCCTGAGTAGCTGGGATTACAGGCATGCTCCACCATGCCCAGCTAATTTTGGATGTTTGTAGAGATGGGGTTTCTC
CATGTTGGTCAGGCTGGTCTTGAACTCCTGATCTCAGGTAATCCACCTGCCTCGGCCTCCCAAAGTGCTGGTATTACAGGCGTGAGCCACCGCA
CCCAGCCGTGATTTTTCTATTACCTAGGTCCTTTTGTTGGCTACACACCATGACTGCTTCTGTTTGGGAGTTGAGAACATCTGGTAGGTTAAAT
TGGCAATATTTGACTGATTTGACCTACAATATGTGGTCAACTTCATGTGACTCAACCTAATACTTTGGCTTCCTTCAGTGTGTTCAGTTTCAAT
TCCCCGCTCCCTTTGTAGTCTTCCAGCTACCTCAGTGATTCTTAATCTTAGCTGTGTATTAGAATCATCTGAAGAACTTAAAAAAAAAAAAATC
AATGCCCAGGTCACACCCAGGACCAAGTGAAGCCGAATCTCAAGGGGGAGAAACCAAGCCCTTGGTAATTTTGGAAAGCACCCCAGGTGATTCT
GAAGTGCAGTAAGGCTTGAGAACTATGGAACTACCAAGAGCTTTTGGCAATACGCATGTGCTAGGTGCTATAGACTCCTTCCAATTGGAGAAAA
GAATGTGGACAATTGTAATAAATAATTGGGGCAAGCCGGCATAGTGGTTCTCAAACATTAGCATGCAACCAATCACCTGGTGGGCTTGTGAAAA
CACAGATTTTTGGTGCCAACCCCTCAGTTTCTGATTCTGTAGGTCTG

HUMAN SEQUENCE - mRNA

GGCGGCAGCGCCCTGCCGACGCCGGGGAGGGACGCAGGCAGGCGGCGGGCAGCGGGAGGCGGCACCCCGGTGCTCCCCGCGGCTCTCGGCGGAG
CCCCGCCGCCCGCCGCGCCATGGCCCGAAGACCCCGGCACAGCATATATAGCAGTGACGAGGATGATGAGGACTTTGAGATGTGTGACCATGAC
TATGATGGGCTGCTTCCCAAGTCTGGAAAGCGTCACTTGGGGAAAACAAGGTGGACCCGGGAAGAGGATGAAAAACTGAAGAAGCTGGTGGAAC
AGAATGGAACAGATGACTGGAAAGTTATTGCCAATTATCTCCCGAATCGAACAGATGTGCAGTGCCAGCACCGATGGCAGAAAGTACTAAACCC
TGAGCTCATCAAGGGTCCTTGGACCAAAGAAGAAGATCAGAGAGTGATAGAGCTTGTACAGAAATACGGTCCGAAACGTTGGTCTGTTATTGCC
AAGCACTTAAAGGGGAGAATTGGAAAACAATGTAGGGAGAGGTGGCATAACCACTTGAATCCAGAAGTTAAGAAAACCTCCTGGACAGAAGAGG
AAGACAGAATTATTTACCAGGCACACAAGAGACTGGGGAACAGATGGGCAGAAATCGCAAAGCTACTGCCTGGACGAACTGAATAATGCTATCAA
GAACCACTGGAATTCTACAATGCGTCGGAAGGTCGAACAGGAAGGTTATCTGCAGGAGTCTTCAAAAGCCAGCCAGCCAGCAGTGGCCACAAGC
TTCCAGAAGAACAGTCATTTGATGGGTTTTGCTCAGGCTCCGCCTACAGCTCAACTCCCTGCCACTGGCCAGCCCACTGTTAACAACGACTATT
CCTATTACCACATTTCTGAAGCACAAAATGTCTCCAGTCATGTTCCATACCCTGTAGCGTTACATGTAAATATAGTCAATGTCCCTCAGCCAGC
TGCCGCAGCCATTCAGAGACACTATAATGATGAAGACCCTGAGAAGGAAAAGCGAATAAAGGAATTAGAATTGCTCCTAATGTCAACCGAGAAT
GAGCTAAAAGGACAGCAGGTGCTACCAACACAGAACCACACATGCAGCTACCCCGGGTGGCACAGCACCACCATTGCCGACCACACCAGACCTC
ATGGAGACAGTGCACCTGTTTCCTGTTTGGGAGAACACCACTCCACTCCATCTCTGCCAGCGGATCCTGGCTCCCTACCTGAAGAAAGCGCCTC
GCCAGCAAGGTGCATGATCGTCCACCAGGGCACCATTCTGGATAATGTTAAGAACCTCTTAGAATTTGCAGAAACACTCCAATTTATAGATTCT
TTCTTAAACACTTCCAGTAACCATGAAAACTCAGACTTGGAAATGCCTTCTTTAACTTCCACCCCCCTCATTGGTCACAAATTGACTGTTACAA
CACCATTTCATAGAGACCAGACTGTGAAAACTCAAAAGGAAAATACTGTTTTTAGAACCCCAGCTATCAAAAGGTCAATCTTAGAAAGCTCTCC
AAGAACTCCTACACCATTCAAACATGCACTTGCAGCTCAAGAAATTAAATACGGTCCCCTGAAGATGCTACCTCAGACACCCTCTCATCTAGTA
GAAGATCTGCAGGATGTGATCAAACAGGAATCTGATGAATCTGGATTTGTTGCTGAGTTTCAAGAAAATGGACCACCCTTACTGAAGAAAATCA
AACAAGAGGTGGAATCTCCAACTGATAAATCAGGAAACTTCTTCTGCTCACACCACTGGGAAGGGGACAGTCTGAATACCCAACTGTTCACGCA
GACCTCGCCTGTGCGAGATGCACCGAATATTCTTACAAGCTCCGTTTTAATGGCACCAGCATCAGAAGATGAAGACAATGTTCTCAAAGCATTT
ACAGTACCTAAAAACAGGTCCCTGGCGAGCCCCTTGCAGCCTTGTAGCAGTACCTGGGAACCTGCATCCTGTGGAAAGATGGAGGAGCAGATGA
CATCTTCCAGTCAAGCTCGTAAATACGTGAATGCATTCTCAGCCCGGACGCTGGTCATGTGAGACATTTCCAGAAAAGCATTATGGTTTTCAGA
ACAGTTCAAGTTGACTTGGGATATATCATTCCTCAACATGAAACTTTTCATGAATGGGAGAAGAACCTATTTTTGTTGTGGTACAACAGTTGAG
AGCACGACCAAGTGCATTTAGTTGAATGAAGTCTTCTTGGATTTCACCCAACTAAAAGGATTTTTAAAAATAAATAACAGTCTTACCTAAATTA
TTAGGTAATGAATTGTAGCCAGTTGTTAATATCTTAATGCAGATTTTTTTAAAAAAAAACATAAAATGATTTATCTGGTATTTTAAAGGATCCA
ACAGATCAGTATTTTTTCCTGTGATGGGTTTTTTGAAATTTGACACATTAAAAGGTACTCCAGTATTTCACTTTTCTCGATCACTAAACATATG
CATATATTTTTAAAAATCAGTAAAAGCATTACTCTAAGTGTAGACTTAATACCATGTGACATTTAATCCAGATTGTAAATGCTCATTTATGGTT
AATGACATTGAAGGTACATTTATTGTACCAAACCATTTTATGAGTTTTCTGTTAGCTTGCTTTAAAAATTATTACTGTAAGAAATAGTTTTATA
AAAAATTATATTTTTATTCAGTAATTTAATTTTGTAAATGCCAAATGAAAAACGTTTTTTGCTGCTATGGTCTTAGCCTGTAGACATGCTGCTA
GTATCAGAGGGGCAGTAGAGCTTGGACAGAAAGAAAAGAAACTTGGTGTTAGGTAATTGACTATGCACTAGTATTTCAGACTTTTTAATTTTAT
ATATATATACATTTTTTTTCCTTCTGCAATACATTTGAAAACTTGTTTGGGAGACTCTGCATTTTTTATTGTGGTTTTTTTGTTATTGTTGGTT
TATACAAGCATGCGTTGCACTTCTTTTTTGGGAGATGTGTGTTGTTCATGTTCTATGTTTTGTTTTGTGTGTAGCCTGACTGTTTTATAATTTG
GGAGTTCTCGATTTGATCCGCATCCCCTGTGGTTTCTAAGTGTATGGTCTCAGAACTGTTGCATGGATCCTGTGTTTGCAACTGGGGAGACAGA
AACTGTGGTTGATAGCCAGTCACTGCCTTAAGAACATTTGATGCAAGATGGCCAGCACTGAACTTTTGAGATATGACGGTGTACTTACTGCCTT
GTAGCAAAATAAAGATGTGCCCTTATTTT

HUMAN SEQUENCE - CODING

ATGGCCCGAAGACCCCGGCACAGCATATATAGCAGTGACGAGGATGATGAGGACTTTGAGATGTGTGACCATGACTATGATGGGCTGCTTCCCA
AGTCTGGAAAGCGTCACTTGGGGAAAACAAGGTGGACCCGGGAAGAGGATGAAAAACTGAAGAAGCTGGTGGAACAGAATGGAACAGATGACTG
GAAAGTTATTGCCAATTATCTCCCGAATCGAACAGATGTGCAGTGCCAGCACCGATGGCAGAAAGTACTAAACCCTGAGCTCATCAAGGGTCCT
TGGACCAAAGAAGAAGATCAGAGAGTGATAGAGCTTGTACAGAAATACGGTCCGAAACGTTGGTCTGTTATTGCCAAGCACTTAAAGGGGAGAA
TTGGAAAACAATGTAGGGAGAGGTGGCATAACCACTTGAATCCAGAAGTTAAGAAAACCTCCTGGACAGAAGAGGAAGACAGAATTATTTACCA
GGCACACAAGAGACTGGGGAACAGATGGGCAGAAATCGCAAAGCTACTGCCTGGACGAACTGATAATGCTATCAAGAACCACTGGAATTCTACA
ATGCGTCGGAAGGTCGAACAGGAAGGTTATCTGCAGGAGTCTTCAAAAGCCAGCCAGCCAGCAGTGGCCACAAGCTTCCAGAAGAACAGTCATT
TGATGGGTTTTGCTCAGGCTCCGCCTACAGCTCAACTCCCTGCCACTGGCCAGCCCACTGTTAACAACGACTATTCCTATTACCACATTTCTGA
AGCACAAAATGTCTCCAGTCATGTTCCATACCCTGTAGCGTTACATGTAAATATAGTCAATGTCCCTCAGCCAGCTGCCGCAGCCATTCAGAGA

SAGRES DISCOVERY 02-06

CACTATAATGATGAAGACCCTGAGAAGGAAAAGCGAATAAAGGAATTAGAATTGCTCCTAATGTCAACCGAGAATGAGCTAAAAGGACAGCAGG
TGCTACCAACACAGAACCACACATGCAGCTACCCCGGGTGGCACAGCACCACCATTGCCGACCACACCAGACCTCATGGAGACAGTGCACCTGT
TTCCTGTTTGGGAGAACACCACTCCACTCCATCTCTGCCAGCGGATCCTGGCTCCCTACCTGAAGAAAGCGCCTCGCCAGCAAGGTGCATGATC
GTCCACCAGGGCACCATTCTGGATAATGTTAAGAACCTCTTAGAATTTGCAGAAACACTCCAATTTATAGATTCTTTCTTAAACACTTCCAGTA
ACCATGAAAACTCAGACTTGGAAATGCCTTCTTTAACTTCCACCCCCCTCATTGGTCACAAATTGACTGTTACAACACCATTTCATAGAGACCA
GACTGTGAAAACTCAAAAGGAAAATACTGTTTTTAGAACCCCAGCTATCAAAAGGTCAATCTTAGAAAGCTCTCCAAGAACTCCTACACCATTC
AAACATGCACTTGCAGCTCAAGAAATTAAATACGGTCCCCTGAAGATGCTACCTCAGACACCCTCTCATCTAGTAGAAGATCTGCAGGATGTGA
TCAAACAGGAATCTGATGAATCTGGATTTGTTGCTGAGTTTCAAGAAAATGGACCACCCTTACTGAAGAAAATCAAACAAGAGGTGGAATCTCC
AACTGATAAATCAGGAAACTTCTTCTGCTCACACCACTGGGAAGGGGACAGTCTGAATACCCAACTGTTCACGCAGACCTCGCCTGTGCGAGAT
GCACCGAATATTCTTACAAGCTCCGTTTTAATGGCACCAGCATCAGAAGATGAAGACAATGTTCTCAAAGCATTTACAGTACCTAAAAACAGGT
CCCTGGCGAGCCCCTTGCAGCCTTGTAGCAGTACCTGGGAACCTGCATCCTGTGGAAAGATGGAGGAGCAGATGACATCTTCCAGTCAAGCTCG
TAAATACGTGAATGCATTCTCAGCCCGGACGCTGGTCATGTGA

TABLE 7

MOUSE NOMENCLATURE
ICSGNM Sox4
Celera mCG11673

HUMAN NOMENCLATURE
HGNC SOX4
Celera hCG36747

MOUSE SEQUENCE - GENOMIC

ACTATTGGTAACTGTGATGGTTAACTTTGCCAGTTTCACTGGGCCATTAGGTACCCAAATATTTGTTGGAACATTCTAGAAGTATCTATGAGCA
TATTTTGGGTTGAGTTTAATATTTCAGTCTATAGGTTGAGTAAAACAGACTGCCCTCTGTTGGGAACAAAAAAAGGGGTCCAACATCCAGCCAG
AGTTCCTGTGCTCTGAGCAGGCAGACGCAGGCAGAACTGCCAGACACTTTCCACTCAGCCCCAGGTGGACATCTAAGCCTCTGACCCCACTCGG
CGGGGGGTGGACAAGGGGCAGCCCCCAACTGGGGACCCTGAGGTGACACCCTGTCGTCCCGGGGTTATAGGAGAGAGGGAATAGGGAAGAGGTT
CCCAACACTGACCAGAGTCTTAATGGAGCAGAGACTCTCTATGGTTTAAGAGCTTTATTATAGAAATGCAGGGAGAAAGAGAGAAGGTAGAAAA
GGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGGGAGGAAGAGGAAGAGGAAGAGGAAGAAGAAGAAGAAGAAGAAGAAG
AAGAAGAAGAAGAAGAAGAAGAAGAGGAGGAGGAGGAGGAGGGAGAGGAGGAGGGAGAGGAGGAGGGAGAGGAGAAGAAGACAAGGAAA
AGAAAGAGAAGAGAGAAGACAAAGAGAGGGGAGAGGGGGGAGAGAGTGAAGGGTAAGAAGTAAGAGCATAAGAGTAAGAGAGAGAGGTGGGGGC
TGAACAGCCCTTTTTATGGTCTTTACTGCTGCTAGGTAACTGGGGAGGAGTTTAACCTGAAGGTCAGAATCTTGGGACATTGCTTATGTGACTA
CTGACCATGCTTCTCTTGTGGAGGCTGTGGGAGGTGGTAACTTAGGCAGGGGCCAGAGCTCCAGGAGCATGAGGGAACGCCTACTGTGTCATGA
AGGTAAATTATGACCATCAGGGTTCAGACCTCAGCTCGACCGGAGACCAGCCTGCAATTCCCCACAGCCCTCCCTAAAGTGGGTTAAAAGACAG
AAAAGAATTAAATATCTGATCCTCTCCCATATCTACAAGACGTAACTTCCCTTGTCCAACCATCTTGTAGATTGGATGTTGTTTTTCCCTTGCT
TTTTAATTAGAACTATGTCATTGGTCCTCCTGTGTCATAAGTCTACAAAGTGCATGTGTGCTGGCTAATCTTGTGTCAACCTGACAGACAACTA
GAATTATCTGAAAGGAGGGAACCTTAATTGAGAAAATGCCTCCATAAGATCCGGCTGCAAAGCATTTTCTTAAATTGTGATTGATGTGGCCGGG
CCCAGCCCATTGTGGGTGGTGCCATCCCTGGATTCTGGGCTCTATAAAGAAAGCAGGCTGAGCAATCATTGAGGAGCAAGCCAGTAAGCAGCAC
CCCTCCACGGCCTCTGCATCAGCTCCTGCCTCCAGGTTCCTGCCCTGCTTTGAGTTCCTTCCTGTCCTGACTTTCTTTGATGATGAACAGCAAT
GTGGAAGTATAAGCTGAATAAACCCTGTCCTCCTCCCCAACTTGTTTTTTGGTCATGGTGTTTCATCACAGCAAGAGACCCTAACTATGACAGT
ATGTCTTAGGAATTATCAGCCTCCATAATCAGGAGCAAAATTCCTTATAGCAACTCACTAATATGCCAATGGTCAAAGGAAGTTAGTGACCAAA
TCCAGAGAGTAAGGGGTAGAAAAGTCTTACACGGGAGGTACCATTGCCAGGAAGGTTGGATTATCAAGACTCCCAACACACTGGCTGCCAACAA
GGAAACCCCAAATATCGGCAGAATTCTCACTGATTGGCACTTGCCTGGTAACTATAGTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
TGTAGGCATGACAGTCAGAAGAAAACATTAGGGAGACAGCTCTCACAAAGGGTCTCTGTTAGTTTTCCTGCTGTGCTTACTATCACAGGTTAGA
TAGCTCACAACCACTCAGGAGTCTCCTGTCTCTACCACCAGCTCACAGCCACTAGGAGTCTCTGCCACCAGCTCACAGCCTTTCAGGAGTTGCC
TGTCCCTGCCTCCTGTCTAACTTTCGAGTGCTGAGATGACAGGTACCTACATCTAGCTCTCTTATGTAGGTCCTGGGGAGTAAACTCAAGTCAT
TAACCTTGTTGTAGCAAATGATTTTACCCACTCAACTGATGGCCCAGTTGCCTTGATGGTCTGTGTGGTTGGCTGGACTTTTTGTTTCGA
GATAGGATCTAAGCTAGATAACTTAGGCTGGCCTTGAACTCATTATATAGCCCAGGCTGGCCTCCAACTCAGTGCTTGCCATACTTCAACCTCC
CAGATGCTAGGACTATATGCATGAGCCATCAAGCCTAGCACCGTGCATATTTAAATTGTATGGTTTGTATTATACACTATATAGATTTTAACAC
ATGGTACATTGGGAATGATGTCGATTTTTAAAATACATATATAGTAGGTAATGTCACACACAAATTTCTTTCATTTAAGGTTACATTACACAA
TGCATGGTGGCACAAGCAAGTCTTTAATGCCAGCTCTTAGAAGCAGGAGGTAAAAGAATCCAGAGTTCTAAGTCATTCTAACTGCTCAGATAGT
TCAAAGCCAGCCTGGGTTGCATTCAAACTTGTCTTTAAAAAAACAAGTGACTCGACATTTGTACAACACAGTGATATTTCAGATGATGTTTGTG
AAATTGAGTTAAATTTGAGTGTTGTAAGGATGAGCCTTCATTTATTTGTCCCGACAAGCCAAATCAACTTACTTATGGAACTAACTTAAAGCAG
TCTGCTTCTGTAAGTCCAGGCTGTCCTTCAACTTGTGTTTCCACAAGCTCTTGCCTCAACCAAGTGCTGAGATTTAGGTGTGTAAACCATTTGA
AATTATTTTTCACTTGGGCTGTGTGGGACAAACAGCCCACAGAGTCTTGTGCTTCAAGGACTTCTTTTAAAAAAAAAAATCATAAGCTACTAGT
CTCCAGTTACTCGGCCAGACACCTCCCTCCTCTTGCCTTCAAATTTGCCTCTTTACAAAAGCTGCTTTGCTGGCAGTTCAGTATGAATTTATTT
TACAGCATATACAAGGTTTTCTGGTAGCTTGCAGTTCCTGAGAACTGCAACCGAAGGCTCTTAAGCTGAGCGGGGGACACACAGTAGGGCACTC
ACTACGTTGATTGGCAGTTGAAGTGGCAGTTGGTGTGGAGTCGTCGCTGCCACGGGTACTCTTATCTTTCCTGGCCACACCCCTGGGCCCAGGA
GGCAGCTCTGAACAGATGGTGAGTCTCCGGTGCCAGGTGTGCAGCGCGCCCTGCGCTGTGTGAGGCACAGGGCTCTTTGGTCCTTGCCGCACCC
CACCCATCCTATGCCCGCGAGCGCCCCCAGCGCAATGTGTGTCTCGGTGCTGTCCGCACGCGCGGTTAGCCGAAGGTGAAAGGCTGGGAAAAAA
GGAACCCTAGTGCCAGGCAGAACCCGCCACCGGGCCAGCTGCTCGTGGCGAGCACGTTCCTCCCCTCCTCTGACTCCCATCACTTGGCAGCCAC
CCCAATCGCCTGCTCGCCCCTCTGCAGCAGCACACACGCCTTCGCACTTGCTCCCCTCCCTATTCTCTTTTCTGACACTTCGTGGCTTACATGG
ACCACTCTCCAGCGGGATGCCCTTGGTCCCCGCCCGTCTCTTAGCCTTCAAGGTGGCTCTCCTCGTTCCCTAATATTTGGGGAACTCTAGGCGG
CTTTTTTTTTTTCCATAATCGTAATCATTTGCTTGCCTCCTGGGACTCCAAACTGTAATTGCTTTTACGTGTCTGTGGTCTCGAGGACAAGGAA
TCCACTGAGAGATGGTTTGGGGGTGCTGGGCTGGGAAGAGGATGCTCTATTCCGATTCCGAGTACCGTTTGCGGGGTGGGGGCTGCAAGGAGGA
AAGTGCGCTCAGCCTTTCCTTTATCCACCCTCCCCCCGTCGCCCTCGGCAAGGGCTTTGGGGCGCCTTCGAGGTCCTCTGTGGACACACAAACA
CCTCAATCTTCCTGATCAGGCTAGAGCCTGGAGGTGGGGAACTATCTGGTTCCTTCGTTCTGCCCCTGGGAAGAAGCCCTGGCCGCTGTGCGTG
CACTGCCCCTCCCGCAGTCACAGTGAGAGCTGAAGCGTGAGTCCCAGACCGATGCAGATGGCACGCTATTTAGTCCAGGAGAGGCTCACAGAGG
GTAAGGGGCTGCTGGGCACCCGAGTGCACCCAGGGAACCAAATGGCTGTCGGTTCCGGTCAGTGGCGGAACTGGGCCCCAGCGGCTAGGTCCAG
GCTGGAATCGGGGGGAGGGGTGCGTAGGGGGAGGGACTGGGCGAGATCCCCCCTCCTGGAGTGGCTGCTCCAGCTGCCACTTGCAAGGANNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
AGGCAGTGGTGAAACGCCGCTGCGAGCGTCGCCCGAGCCACGTTTACAGTAGGAAAGACTTTCCTCCGAAAAGCACCACCGGAGTCGATTGCAA
TTTAGCTCCTCCCAGTAAGAGTCACAGAGAGGCAAGGCGAGGCCGGTGCACCGGGAGTCCTAGGCGAGCTTGGGCAGGACCCCTGTTGCTGAGC
TCCACGGGGCGGGCGTGCCGGGCTACGGAAACCATTTCTTTTCAGGAGCAGGGTTGGCCTTTGGGACTCCTGTGGTCATGCACCGTGTGTTTCT
GCCGCCGCCGAAGCAGAGCGCGCAGCTGGCGGAGAAACCGCATTCTCGCTCCTACCCGCCCGAGGGAGATGACCCGTGACCTCCCGAGTGAGGT
TACCAGATCCGAAAGGGGCGTCTCGGCTTCCCCAGCCATGGGGGTTGAGGGGGTGGGGGGTGGAAGGTGGCCCTGAAAAAAGTGGACGAGCAAA
CAGGGAGCAGCAATCGGTTACCCTAAACTTTGTCTTACGGGGAATGGGGGGATGCCCAGAATTCACCAGCACACCCACCGGTCCTTGAAACCCG
GAGAAGTGTTGGGGGTTCACTGGTTCAGGAGACCAGGAAGGGACGGTTGGATCTTCCCCCACGTTTTCCCACGTCGCTGCATGCTCAGGCAGGC
TCAGCGCTGCCACCTGGCGGCTGCCTCTCCCGGACTGGGAGGAGCTGTCTGCACGCACCAGTTCCACAGATCTTGAAGGGTGTGCCAGGCCTCT

ATCTGGGGAAAGGGCAGAAGCTCCAGTTAATGCTTCCTATCTATGTGGCCCGTGCAGACACACTTGTTTTCTGCTTGTTCTCAAGAGTAAGAGG
GAAATGCGTTGGCGTTGAACGGCATGGGTATAAAGAGCTGACTTGAGCCTGCTGGTTATGAGGGGTGAGAAAGTGGTGAAATTATTAGAAATAT
ATGTTTCTTATCTCTGTGTAGTCTAACAGTGAATATGAACGACAGCTTTCATTTATCCTGCTTAATATTTTTCGAATAAGAATTCAACACACTG
GTCTGGAGAGATAACTCAGCCCTTGATAAAGGCTAAGGCTCACAACCAAAACCTAAAAAATACTGTTTCAATACAGCCCCCTTTCCTAGTCCA
GTTTCAATACAACTTCCTCAGCACCAAGAATGGAGTAGTGCAAGGGGTTGGGGGGGTGGGGAGCAAAATCAGCCCCAGTGAAGGGTTGACCTGAA
AACAGGGCTGATGGCATTCAGTTTCCCAGAGCACTTCCAGTCAACGAAATTAACAAGAAGGCGTCCTCCACCTCTGTTTATTTGAACTGAATGT
TCAAAGCCAGAGGGGCTCACACACTCAGTTTCTACAGCCAAAGCAAAGCACGATTCTTGGAAAATAGTGCCAAGCCAGACTCGTGAAACTAATT
TCCATGCAGGTTTTCCTCCCTCTATGCTATCGGGACACATTAAGAAGTCGAGGTAAACCTTCATCCATACCCCATCCATACCATTCTGTAGATG
TGAGGTTTTATGTTGTGCAGGTGTGTAGGGGCAGGAGAAGCACATTAGCAGTTATTACCCTCTCATGTCGAATGGATTGCATTTAATGGAATAA
AATAAATATCTGCCTTAATTCAAGACGTGAAAGATCTAATATCATTTCCAATAAAGACCATTAGTTGATGATTCTAAGGCAGGACTTGTTTGCA
AAACAATCCTGGCTCTCTGTTCATAGAACTACAAGGGGAGCGGAGGGAAAGAGCACTGAGCACTGACTTACTAGGGGCCACCAAATAGCTAGTA
TCTGGGGGGAACGGGGAGGTCTCTGATGGAGAACTGATTACAAAGCTTAGGGCATTAGGTAATGAGACCCAGAAATCTTAATATCATGATTTGG
TATTAAGTCCAGTGCATTCTGGTGTATATGTACTTTAATCAAAAGCTATTTGTCACATCTTTTGTCACATGTTTCCATGCTCTAAGAACAAAAA
CAGTCACACTTCAATAACTCCAAACTGTCAGGTATATACTCTACAGGATTACATTGTACAATGGTGTAACTAGGTCAACGGATGCTACCAACAC
ATATTTTACCAGGTCTAAGAGAAACATAGACACAGGGGGTGCATCTCATAGTCAGGGGGACAAGGAGGACCTTTAGCAGCTCGTGAGTTGGCTC
AGCCGGTACAGGCCTCTCTAGGCCAAACCTGGCAATGTGAGTTCAATCCCCAGTACCTGGATAGTGGAAAGAGAGCACTGGCCGCACAAGATGT
CCTCTGACCTCCATCTATGCACAGTGCCAAGCAGTGGACTCGCATACAAAAATTAACTTAAAATGGTTTATCCCCTTTTCCTTAAAGGCCTTTT
GTCCTTTGATGGCATATACTATTACAGTACACCTTAAAAGTCTGTTGGGTTTTCTGACATGCATCTAACAAGAAAAATCAGGGCAGGAATTACT
TTTTTGATATGCTCTTTAAATTAAATATGTGCATTAAGCATGAGTGTAACTATGAGGGGTGATTTACACCACTGGAAATACCACCAATTACACC
AACACTCATCTTTGCCAAATTATCCAACATTGTTGAATACAGATTGTACAAGGAATACATCTCCTTATTTTTGTCATAATAAAAATACTGATTT
TGTAGACAATAGACCTTTTAGGATAACCCAGATGCCATTTTGATGGCATCTTAAGAAGGTACATCTGTGGGTATCAGAAAAAAAAACAAAAAAA
AACAAAAAAAAAAAACACATATGCCTTGCAAAACACTTTTCTTGGTGGAGGTTTTTTTCTTGAAGGAGTGCATACTATTTTAGGATTTCCTCCTC
TGGGAATTAAAAAAGGGCTGTGATGGGTAGCAAATAGTCAAAAAAAAAAAAAAATTACTTGCTTTTTACCCACAAAACATTCTTGCCTGCAGTTG
ATCTTAGAGACCCAGTCAGCTGTCTCCATAGGGTACTCTTTCCAGTAAATGTCTAATTCTTGACACCCTCGGCCTCCTTCCAGCCTAAATACTC
TGAATGTGTGACAAGGTAAATGGAAATATACCACCCAGCACTACTGTGCTCTCAATCAAGAGCTGGCTCTAAGTTGGCCTCCTCTGTTACTAGC
CTGAGGGAAATCAGTTTATCATCGTATTAAAGGTGAGTTTTCACTAGAGTCCCAATGCTCAGATCTTGGGAAAAGGGTGGTTTGTGTAACTAAG
TTGTTCTATATTCTAAGTATTATCTGCATGTGTTCGCTCTTTGAGACAAGGACTTGGGTAGCTGGAGCTGTCCTGGAATTCTTTTTTTTTTTTT
TTTTCCCTTGGTTTTTCGAGACAGGGTTTCTCTGTGTAGCCCTGGCTGTCCTGGAACTCACTTTGTAGACCAGGCTGGCCTCGAACTCAGAAT
CCGCCTGCCTCTGCCTCCCAAGTGCTGGGACTACAGGCGTGCGCCACCACCGCCCAGCTTGTCCTGGAATTCTTAAGCATCAGCGGATGATCTT
GAACTCCTGATCTTCCCTGAAGGCACCTCCCAAGTACTGAGATAACAAACGGGGACCACCAAAGGGGCTTTCGATTACGTTTCACCACCGGTGA
CCACCTTCCCACCTTAGTCTCTCGAACATCGTGCTGCTCTTACTAGAAGTGGCATTTGCATTAGGGAGAACTCGGAATGTGTGTTAGAATCCAG
AGGGCTCAGGACACACATCCGTGGTTTATAATCACACACTCACCGGGCACTAACACAAGCCCTCTATAAAGCTCACAAGGTTCCCAAAGCACAG
CAAGAGGAGGACAATGAGACCCAGAAAGAAAGATCAGGAGAGGGACTTGAGATAGGTCCAGCAGCCCACTCCCCTGTGCCACCCCTTTCTCTTC
TTGGTCTTTTAGGCCCAATTGCTTCAAGTAGCACAGACACACGGGAGACAATGGGTAAGAAAGAGAGGGGGAAGGAGAGCACATAGCGAACCCA
TCTATCCTTTGGATATTGTGGAAAACAAACATTTAGAAAGTGAAGTCAATCCCATCCTGTATTCACCATGATCGCCCTATACAGAAATCACACA
AAGTCTCTTATTGAGGTAATTATGGGCCACTGCCTTAGCGTTCCACAGAAAATACTTGTTTGGCCTACCCAGGATTTATAGGGGAAGTGAAATC
ATTAAATAACTAGTTAACCTCTGTTTGGCAAAAAGAGTAAGTAATTACTGAAAAGGGGAGAAAGAAAAAAAAAAAAAAACCCTGCCTTTCACAA
ACAGCACAGATAGCATCCTGAAGGGATTTACACAATACACCAACGTTTGTTCTGTACCCAGAGTTGTTAAAATAATTGTGATGACAGGTGTCTA
GGTACCACTTTCTTAATGGTTTTCAATATCCATTGATTTATTATTGTGGCTCCCCCCACTTACATCTCTAGCTCTAAGAAGGGGCTAAGAAAAG
AGATTTTGCACCAAAGGCTGATTCTTTATTCCTGGGCTGAAAAGAACTAATAAAAATAATCACTCGGCTTTTAAGCAGAAAGCTTCCATTTACA
GTATTTCACCCTTACCCCCCCTCCAAGCCCCTTGTTATCTAACATAATGGCTAGAATACATTTCCGTCTCTCCCCTTAATAACTTCATGCATTA
ACATCCTCTTCACACATGCGCGTGCGTGCGCGCGCGCGCGCGCACACACACACACACACACACAGAGGCAAACGCGCGCGCACCCAGCAA
AAGGCGGAGGTGGGGGGGAAAGAGGCAGCAGAAATCTCAGCTGTACTTCTAGCCCTTTTAAAAAGTTTGCTCTGTAAATTGGAATGAGGTCAGA
TTTGGAGCTTCTCATTGCACGCGGAGATTATTATTGCATCGGGTTCCAAGCCAATGGGAAGGACGGGGGAGGGGCTTGGCACGAGGAAGCGTTA
GTTACAGCGGCTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCAGTGGGGGAACTCTGCCGGTAACCAGCTCCCCTTCTTGCAGGAGGGAGGGAGAAACA
TACATTTATTCATGCCGGTCTGTTGCATGCAAGCTTCTTGGCTTCCTACCTTGCAACAAAATAATTGCACCAACTCCTCAGCGCCGATTCCGCC
CACAGAGAGTCCCGGAGCCAGAGTCGCTTTGGCTTTGCACTGCAGGAAAGGGACTTAGGCGCTAGAGACGATGTCGCTTTCCTGAGCTACCGCG
AGCTCTCGTGAACTGCAATCGACTGCTTCAGGGAAAGGGGTGGGGGAAAGACTTGCCCCGGAGGCGGCGAGAAACTTGCGTTTGGAAGATACTC
CGGCTACCAACGTTTGGAGAAACTCCTCGCCGCGGCCGACTCCAGCCTCGGTGCCCGCAGGGAGCACTTCAGCGGTGAGGGAGGACGGAGGGCC
TCGGGGACTCTAGGTTGGCGGCGGGAGGCGGCCGCCCCTGGCCCGCGCGCCGCTCAGGGGACCCTGGTCTCCGCCCCGGGGAGCCCGCAGGGCC
CGGCGACCGCGCCGCGAGCGTGTGAGCGCGCGTGGGCGCCCGGCAAGCCGGGGCCATGGTACAACAGACCAACAACGCGGAGAACACTGAGGCT
CTGCTGGCCGGGGAGAGCTCGGACTCGGGCGCCGGCCTGGAGCTGGGCATCGCGTCCTCCCCGACGCCTGGCTCCACCGCGTCGACGGGCGGCA
AGGCGGACGACCCCAGCTGGTGCAAGACGCCCAGTGGCCACATCAAGCGGCCCATGAACGCCTTTATGGTGTGGTCGCAGATCGAGCGGCGCAA
GATCATGGAGCAGTCGCCCGACATGCACAACGCCGAGATCTCCAAGCGGCTAGGCAAACGCTGGAAGCTGCTCAAGGACAGCGACAAGATTCCG
TTCATCCAGGAGGCGGAGCGGCTGCGCCTCAAGCACATGGCTGAACTACCCTGACTACAAGTACCGGCCGCGAAAGAAGGTGAAGTCGGGCAACG
CGGGCGCGGGATCGGCGGCCACAGCCAAGCCAGGGGAGAAGGGCGACAAGGTCGCGGGCAGCAGCGGCCACGCGGGAAGCAGCCACGCGGGGGG
TGGCGCGGGCGGCAGCTCCAAGCCCGCGCCCAAGAAGAGCTGTGGCCCCAAGGTGGCGGGCAGCTCGGTCGGCAAGCCCCACGCTAAGCTGGTC
CCGGCGGGCGGCAGCAAGGCGGCTGCATCGTTCTCTCCAGAGCAAGCTGCCCTGCTGCCCCTGGGGGAGCCCACGGCCGTCTACAAGGTGCGGA
CTCCCAGTGCGGCCACTCCGGCCGCCTCCTCCTCGCCGTCCAGTGCGCTGGCCACCCCAGCCAAACACCCTGCCGACAAGAAAGTGAAGCGCGT
CTACCTGTTTGGAAGCCTGGGCGCTTCGGCGTCTCCCGTCGGGGGCCTGGGAGCGAGCGCCGACCCCAGTGATCCACTGGGGTTGTACGAAGAT
GGAGGCCCGGGATGCTCGCCCGATGGCCGGAGTCTGAGCGGCCGCAGCAGCGCAGCATCATCGCCAGCCGCCAGCCGATCGCCCGCTGACCACC
GCGGCTACGCCAGCCTACGCGCAGCCTCGCCCGCCCGTCCAGCGCGCCCTCGCACGCGTCCTCCTCGCTCTCCTCGTCCTCTTCCTCCTCCTC
GGGCTCTTCGTCGTCCGACGACGAGTTCGAAGACGACCTGCTCGACCTGAACCCCAGCTCAAACTTTGAGAGCATGTCCCTGGGCAGTTTCAGC
TCCTCATCGGCGCTCGATCGGGACCTGGATTTTAACTTCGAACCCGGCTCAGGCTCCCACTTCGAATTCCCGGACTATTGCACGCCCGAGGTGA
GCGAGATGATCTCGGGAGATTGGCTGGAGTCCAGCATCTCTAACCTGGTCTTCACCTACTGAAGGGAGCGCGGGCCGGGGAGAAGGTGGGCCAA
GAGGCAGGAGAGGAGAGGGAAAAAGAAACAAAAAACAAACAAACAAAAAAACAAACAAAAAAATGTTAAAAAGAAGAAGAAAGAAAGAAA
CAGAAAAAAAATGAGTTAAAAAGAATAGATGGAGAGTAGAAGGAGAAAGGGGAAAAGAAAAGGAAGAAAAAGTGCATAGAGCTGGCCTGGAACA
CGTCCCGCCGTTGGAGAAGGAGCGCGGGGGCGTTAGTGGACCCGCGCTCCCATCCCCCACTCTCAGGGCTGGGGACTCGAAGGAGGCGGAGAGT
AGACGGGGGCGACCTTTTTTTGTTGTTATTGATGTTGGTGGTGGCTAAAAAAGCTACTTCGAGTTTCCTCCCCAATTTTGCTTGAAGAGAC
TCCCCCCCACCCCACCCTTCCAACGAGCTTCCGGACTTGGTTGCACCCCCAGCAAGAAAAGAAGCCAAGCAAAGCTTCTAAAGACCGAAGGAAT
CTTTCCCTCACCCCCACCCCCTCGCCTTGGTGATTTCTTGTTTGATTTTGCCTCATGGTCAAGAAAGGAGGGGGAAAATCCAGCGTGCCCCATC
TCCTACCCACCCCCTCTTTGTATTCTCTTTGTATTTTTCCCCTTCTTAAAATTTCTTTTTCTGCAATGAAGACAGAAAGAAGGCTCTGGGGTGA

TGCGTTTGGCATTTGTGTTGAGCTTAGGGGAGCATTGGCATGGAGAAACTCCACGCTGGCGAAGTCCCGGGCTGGGCTTTCTCCTCCTCCCCCC
ACCTTTTTTCCCCTTGTCCTTGCAGCTGGAGATGTGCTGGGAGTAGCAGGCCAGCCTCGGAAATGGACATGGGGACCTCGTGGAAGCCACAGCA
ACCTGGTTGGGGATGCAGAAGGACCCGGAGCACAGAGGGCGTTGGGGTTCCCGGGCCTCCGCCTGGGGTCTGTGCAAAAATAAAGAATTAAAAA
AAAAAAAAAAATCAGAGAGGTGAGGCTACCCAGAGCCGGCGGGAGGACAGGAGACTGTGGGATGTGGTCCAGGGGCCGCGGAGTGGTTTGGGGG
GGAAAAGAGATTTTTTTCTTCTCTTAATGGGAATCGTGATGGTGTTGAGTTATTTCACTGGTGGGGTTAATATAGCATGTTATCCTGTCTATCT
TTTGAAGATTTCTGTATAAGACTGTTGAGCAGTTTTTAAAATAGTGTAGGATAATATAAAAAGCGGATAGATGGCGCTATGTTTGATTCCTACA
ACGAACCGATCACCAGCTCCTTTTCATTTTTAACTCTTTAAAAGGATTCAAACGCAACTCAAATCTGTGCTGGACTTTTGAAAAACCACAATTC
AGGACCAAATTTTTTCTCCGTGTGTGTTTATTCCTTATAGGTGTAATTGAGAAGACCCGTTTATTTTTACCCCCTCACGGACTCTCCATCTTTG
TATTTTTTTTTCCCTTGTAAATGTAATCAGATGCCATTTTATATGTGGACGTATTTATACTGGCCAAACAGTTTTCTTATTTTGTCCCCCCTTT
TTTTCCCTTTTCATTTGCTTTCTTGTCTTTTAACCTCGTTTCTTTATCTTCTTTTTTATTTTCTTTCTTTTTCTTCGTTTTTTTTTTTTTTCTAG
TGTTGTTACCCACGCCATTTTACGTCTCCCTTCACTGAAGGGCTAGAGTTTTAACTTTTAATTTTTTATATTTAAATGTAGACTTTTGACACTT
TTAAAAAACAAAAAATGACAAGAGAGATGAAAACGTTTGATTATTTTCTCAGTGTATTTTTGTAAAAAATATATAAAGGGGGTGTTAATCGGTG
TAAATCGCTGTTTGGATTTCCTGATTTTATAATAGGGTGGCTGGTTAATATCTCACACAGTTTGAAAAATCAGCCCCTGGTTTCTCCATGTTTA
CACTTCAATCTGCAGGCTTCTTAAAGTGACAGTATCCCTTAACCTGCCACCGGTTTCCACCTTTCAACCCCCTGGTCTTATAAGGGGAGGAGAG
TTCAGCCCAGCACCATAATGCTTTAAAAAAAAAAATTTTTTTTTTTTAACGAATTGCTGTTCTGTCCAGAGGTTTTTAAAACTGGTGCATTCAC
AGCAAAAAGGGATTCTGTAGCTTTAACTTGTAAACCACATCTTTTTTGCACTTTTTTTTATAAAGCAAAAACGTGCCGTTTAAACCACTGGATC
TATCTAAATGCCGATTTGAGTTCGCGACACAATGTACTGCGTTTTCATTCTTGTATTTGACTATTTAATCCTTTCTACTTGTCGCTAAATATAA
TTGTTTCAGTCCTATGGCATGGTGATAGCATATGTGTTCAGGTTTATAGCTGTTGTGTTTAAAGATTGAAAAAAGTGGAAAACATCTTTGTACA
TTTAAGTCTGTATTATAATAAGCAAAAAGATTGTGTGTATGTATGTTTAATATAACATGACAGGCACGAGGACGCCTGCCTTTTAAGAGGCAGT
TCCGTTAAGGGTTTTTGTTTTAAAACTCTTTTTTTTCCTTTCTTTTTTTATTTCTTTTTTTTTAACCATCCATCCTGTGCAATATGCCGTGTAG
AATATTTGTCTTAAAATTCAAGGCCACAAAAAAAAGCAAAAAAAAAAAACAAAAAAAAAAACAATATTTGGGGGAAGAGAAAAAGA
AAAAAAATCATGCCAGCTAATCCTGTCCGTCACTGCCTGTCAGGTTGTTCCTATATACCTTCTGTAAATAACTTTTTTTGAGAAGGAAATAAAA
TCAGCTGGAACTGAACCCTAAATCTTGACTTTTGTCATCCTTATTCCTGGGATCTCTCCTTTCACTGCAGGCTGCTGCTTTGCTGCTTTGCAGC
TTCGCGGTGGCATGGAAGCTGGTGCTGATTCAGTTAAGCCATCTTAATGGCAAACCCTAAGTTCCTCTTGGCCAGATTTCGCAGGCCTGACCCC
GAGTGATGGCATTGGCCACGTGTGTGTCAACCCTCCCTCCGCACGCCAGCCTTCGAGGAATTCTCTGCGTCTACTGTACATCAGCAGGCACCCT
TTGTCTGGAAATTGCAAAGAGGGGGGAGGGGCAGGCTTCTCTGCTCTCAATCCAGCCGGCAGGCTGAACTTTTTTAAATGTATTTTTTGCTTTT
GTGTCTCTAAGCCACCATCCCCTTTACACACCAAGATTTGTTTTGCACAGACCAAGAAGAACAAATGAGCCTGTTAAATTATTAGGTCTTCTAG
GAGAAAAGCCTTCCATAGTTACAAGATGGGAAAACCAAAATCAACTTAGGCTTGCTTTGTTGGGGTGGGGTGGAGGAGTCCCCTTAAATGCAAA
GGTCAGTAGGGTGTGGTGTAATCCAAGTACTTGAGAGGCAGGCCAGGCTCAAGGATCCTGAGTTTAAGGCCTGAGTGGACTACTTGATTGAAAC
TCTGTTTCCAGAACTACCAAAGTTACTATGGCCCTAAGCTGTTCATCTTATGCCCCGCCCAACATGGGCGTCACTGTGAGTAAAATATAGCCTA
CCTGCTCACCACTGGAATGACAGGCCAAGTAGGAGAGTGTAGATTTTTATAGGCACCAGACACAGCATTAGTGAAGCCTGCATGCAGCTGGACA
GTAGTCGGTGTTTATTTTAGAGATCAACGGTCTCCATGGGCAAATAGAAGTATCTTCCCTTCCCAAGGCTCATCTTCACAAATGTGTGCTTTCC
ATGTTTCCTAGTCTTTCCGCCCTGGAGAGAAAGGGTTAACATGCAGCACTTGGAAACAATCCTTTCTGAGGATCGGAGGCAAGGTGCTTGCATC
CTGGGATCACAACAGAAAGAAGACTTAAGGGCCAGTACCGCAAGCATTTTTGCACAGTAAAAAAGCCATTTGCTAGGGGTTGGCTGTGATCAAC
TTACACTACATACTTGGATGAAGTATTCAAGGGGGGGAAAAACTGAAAAAGCAATTCCCTCTCTAAATACTGTTCTAATATCATTTTTCCCTGA
GACCTTGAAACAGTATGGTGTAAATTTTTCTTTTTTAAAAGAGCTTTGGGAAAGAGTTGATATGCTTGTTTAATGGTTGATTATTATGGTGAGG
ATAATAGAGCATCTTAGGGTCTTGGAGAAGAAAGCCTTTGATAGTTACAAGACGGGGTGGGGGTGGGGATGACTTAGGCTTGCTTTGTTAGATT
TGGGGTGGGGGTTTCCCCTCAAATGCAAAGGTCAGTAGGGTGTGGTGTAATCGAAACACTTAGAGACATGCCAGGCTAAAGGATTCTGACTTTA
AGGCCATAGTGGACTACTTGAGACCCTGTTTCCAGAACAACAAAAGACCTTGTTCCTTCCCCCTTCTCCCCCGACCAGACAAAAACATCGAAAT
CCTACTGTAAATGAATCCTGTATGAATCATTTTTAAGTGATGCATATTTTCAAATAAGTTTGTATTTTTGTAGGCTCTTCTGCTACAGCCTTGT
TTATTTTCCCCTGACTTTGCATGGGAGGAGCAAGCAGATGCTTTCAAATATTTTCTTTAAGAATCCTAAGGCTCAGGGTGAAAGTGGAGCAGTG
CACTTAGCTAGCGTGCTAGAGGCCCTGGGTTCTGTTCCCAGGCCCCTGAAAAAAACAAGGAATTCTGGCACATCACCCTTTTCTCTTTAAAGTG
TTGATACCGCGTGCTTCCTAGCAGGGCGTGGCAGATGTGAACCACTGGAACCCTGTATTCAGGAAGGAGACTTACATGCCAGACTGTGCAAGG
GAAAATAGATATTAGAAAACCACTTCACGGTGACTTTCAGATGGTGTGGCTCAGCAGAAAAGAGTGAGCTCCAGCTAGCTTTTCGCTCTTGTTC
TTAAGACCCGGCTTCAGGCCCTGTGCTCAGTCAGCAATGTGGATTAGTGACACTTGTCACCATTGTCAGTTCTTAGCTGAATCCCCTGAAGAGC
CATGAAAATAAATAAATAAATAAATAGGCAGCCTCCAGGCTCCTCTGGTGGGGTGAGTGCCTGCAGGGGCCTCAGGTTACTGCTGACTCTAGTC
TGAGTAGGTGTCCTAAGGAAAGAACAGAGTTGGAAGGCCAGCAACCACTCGGTTTATCTGCTGTATAGATGGGATCAGAGTGCTTCATCATAAA
TCAATCGTTTGGTTGGTTGGTTTTGGGTTTTCCGAGGCAGGGTTTCTCTGTAAGGCCCTGGCCTAGAACTCTCTCAGTAGAGGGGGAGCGCCTT
GAACGCAAGGATCTTCCCGTCTCTGGAAGTGAGTGCTGAGCCTGAAGATGCGCACCCAACACCACACCCTCTCACCTCGGATCTTAACCCACTG
ACCTAGAAGGTTTTGGATAGCAGGGCATGGCGGTGCTGTCCATTTAAAAAAGAAAACTTCCAGAAAAATCTAAGACCCCCCAAATCTGTTAGAT
TTCTCAAGGTGGAAGTTTTCTGTCATTTTTTTTTTTAATGGATACTTTGAGTTGTTTTTTTTTTGTTTTTTTTGTTTTTTTTTGTTTTTTTTT
TTTTTAAAGATTTATTTATTTATTATATGTAAGTACACTGTAGCTGTCTTCAGACACACCAGAAGAGGGAGTCAGATCTTGTTAGGGATGGTTG
TGAGCCACCATGTGGTTGCTGGGATTTGAACTCTGGACCTTCGGAAGAGCAGTCGGGTGCTCTTACCTGCTGAGCCATCTCACCAGCCCTTGAG
TTGTTTTTAAGATTGATTTTATGGAAGTGTTTGCGAGTGGTGTGCACATGTGCATACAAGGAGCCTCACAACAGCAAGGTGTCCTGTTGCCTGG
AGCTGCAGTCACAGGCAGGTGAGCCACCTAACTCCATACCAGGAACTAAGTTCAGGTTCTCTGGAAGAACGGGAAGTAGTATCAACTGCCAGAG
CCTCTCCAGCTTTCCTGTTGATTGTGGTTCACAGCCCTGGCCCCAGGACTATAAATACACCTCTGGCTTCTGATCTCTTGTGTTTCCCCCACAC
ACACACACACACCCCACCCCCGGCCTCTCTGATTCATCCTAGAAAACAACCTGAAAATCCATGTCGGTTTTTTTTTTTCACCCTGCCCACCA
TTTGAAAGCTGGGGTGGGCAGCTTGTCTGCATTTTCACCCCACCCACCATTTGGAAGCTGAGTTGGGCAGATGGGGGCTAGGGGTGTGTGTGAG
CATCTTTTGATATCTGCATGGTGTTTCAGACCACACTAACCATCATTATTATCCTTTGTCCAGGGTGAGGTACTCGGTTCTGGTGCAGCTTGTC
AAGACTCTGCACAAAATGGTGGTGGCTCTCCTCCTCCAATCTCCACCACCCACCACTGCAGCACGAAGCCTTTCCTGGGGAAGCTCTCCGGATG
GTGGAGCCCAGGAGGCAGAGGCAGGAGGGTCTCTGTGAGTTCACAACCAGTCTGCATAATGAGTTCCAGAACAGCTCAGACTACATAGAACAGG
ATTAACCCTTTAATGCCTGTTTCTCCACACTTACTTTGTAGTGAGTTCTTGCATAAAACCTGTTCTTCAAGCTTCCAAAATATATTCATTTCCC
AAAATATTTGCATTTTGTGCTATCTTTGGCAAGCAGCGTTGAATTTAGTCAAAATAATCCATGTGTGAATACTGGCTCTGAGCTAGGCTGGCTG
GAGCACGGTGGTCAAGTTTCTTAGTCCCTTGGAGCCTCCGTTCTAAATCGTTCCATAGAAGGCCACCTGACTGAGAAAGCTGTTGTGAGAATTG
AGTGTGACCCCATATGTGGAACACATGCAGCAATGCCTGGCAGCAATCTGTGCTCATTAGGTACCAGCCCTTCACCTTGTGCGGCTGATTATAA
AAAGGTAAAGGTTGTGCAAGCCAACCACAGTGCCAGCCACTCAGAAATCAGACAGCACTAAATAACAATAAATATGCTGTCTGCTTCTCAAATC
CTTAATATTAGTATGAATTGAGGACAAGGCTAGAGCTGGAGCCCAGTGGCTAAGTGCTCGTGAAGCACACATGAGGCCATGAGGCCCTGGATTG
GCCTCCCAGTATCAATCACAATAAGACAGACCTGGTGAAGCCATGCCAGTACTGGGGAAGATAGCTCAAGGCTATCTTTGGTTAAATAGTAGGT
CTGGGGGCAGCCTGGACTTTGTGAGCTCTTGTCTGAAAACAAAAAGAATGGTTTGGGAGCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTGTGTGTATTATTGGGAATTGAACCTTGAGTCTGGGACATGCTAGGTTCTCTTCCATGGATCTAAGTCCCAGCCAGAATTCTTTTTATTTTTT
TAATATATTTTTAAATTATTGCTAGTGAATTTCATGCAAGTATACAATGCAGGTTTTGATCAAATCCATCCTCTACACTCCCCCCGCCCCCCGC
CCCCTAGCCAGGACTCTTTAAAAGAGCAGAACCAGACCACAGTCTTAAGTTCTCCATATATTCTCAGTGCAAACCAAAGTGAAAATGACTACCC
TCACAGTGTGTTAGCATGATCTCAATAAGTATACAGGCAAAAGATTGATACCACCCTTTTTACAAGGAGATGTGGCGATGATTCAGTAGTAAAC

CTGAGATCATAGAATCAGAAGGGGAAGAAGGGTGGGGCTGTGGCTCAGTGGTAGGATTCTTGCCCTAACATGTATGAGACCCTGGGTTGGAGCC
CCAGCACTCAACTGCATTAATTAGGAAAGAAGAGGAAGGGGGCCCTGGAATCTTATTTCCTGAGCCCAAGAATGAACTTAGATCCAGTGTCTCT
CCAAGTGTGGTGGCACATCATTCAGAAGACAAAAACAGGAGGATTGCTTGGCGACCAAGTTTAAGGCCAGGCTGGCCTACAAAGGTGTATTCCGG
GATAGTTAGAACTGTTACATAATGAGACTCTCTGTCTCTAGAAAACAAAAGCAAGCCAGGAGCTGGTGGGCCGTGCATGCCTTTCATCCCTGCA
CTTAGGAAGCAGAGACAGGTAAATCTCTGAGTTCCAAGCCAGCCTGGTTTCCAGAGTGAGTGCTAGACCAGCCAAGGCTACACAGAGAAACGCT
GTCTTGAAAAACAAAACAAAACAAAACAAAAAAGAAAGAAAAAAAAAAGAGAGAGAAAAAGGAAGGAAAGGAAATGAAACAAAAATGAAAATT
AATTAAAACAACAACAACAACAAAAACAATCAGAATAGGTGTCCCCGTTTGAGAACTAGAGAAGCATAGGTGGGAGGCCTTGAGTCTTTGGTAA
GGATTGGCCATCACCTCAACCCTCCACATCCTTCCTTCAGCTCTGATCCATTTCTCCAAGGCTGTCTTGTACATCTCAGTTTGAAGTGCAAGCT
TAAGTAATTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGAATACATATTAGTTGAACAAATGTGTGTTAAAATATGAATGCA
CGGTCTTCATTTCAGGAGTCAGCAAGGCAGAAGAAATGATCTAGCTATCAGTAGTGGATCTTCTGCTCTGTCATTCAAAAGGTGGGGTGGGTGA
CCACGCTGCTGGTTATTCAGAATGCCTTCACACAGAGGCTCTAGGCTACCCATCCTATCCTAATGAGATTGGCCGTTGCTACAGTTAACTTGAA
GGGTTTTATGGTTTCCTGCATGTGTTGTTTTCCTGCTTAATGTTAAAAAGAAGAAGAAGAAAAAGCTCACGTCACTAAACTGAATTTCCCAGGG
GGCTTTTGTATCTTCTGCAGTCTGGCTTATGCCTTGGTTATGATGAGATACCTCTATGTGTGGATATCTGTAGATACAGGTGATAACAAAGTTA
GCCCATTTTCTTTGCTTCTGACAGTTTCCATTCAAGACAGTTGGTTTAAATGGAGTCCTGCCAACATGCCAGGCACAAGTCAAGTCGTGGCATG
AGCTTTGCAGCCAGAGCCTTTCCTTCAACCTGCAGACTTTGTGGTAAAGGCCAAAGTTACAACTGATTTATACACCACCTTGCTTTGAACCGCC
CCTAAGACACTCCAGTGACAAGACATCGACATCTGATTGGAAGGTTTTGGATTTTATTTTTAATGACTTGGAGAGAAGGAACAAATGAAGTATA
ATTTACTCAGCCCTCTTGCTTCTTTAGTTATTTTCAATACAATTATTTCTCTATTTCCTGCTCCAGGGTGGAGTTTGGAGGGAGGGAGGAAGGG
AAGGAGAGAGGGAGGAAGAGAGGGAAATGGAAGCCCTGTCTGTCAACTTTAGCAGGCTCATTCTGTAGTGAATGCACAGTATGTGGTGGTGGCA
TCCAAGTTAAGGAGCAGGCAATTGCTTTTCTAAGAGCCAAGCAGCCTGTGCCGGCTTAAAGGATCAATTAAGTCCTGTTGTCTGTGTGGTTAAT
TGTCACCTTCTTACCAGTGGCTGTCCTAACTCCCTCAGCTCTGGCACCTAAAACCTGTGAAAATAGTTTCCTGCAACTCTTCGTCCTCCCTCCC
ACGCCTCTCACTTTCTCACCCCCCTTTCCCACACTCCCTATGTGGGCCTTTTATCTCTCCTGTTTGCCATTCCCCGGAGAAGGCAGACTTTGAA
TAATTTATCTAAAGTTCCTGGGAAGTTGTGGGGCTGTAGTCTCAAAACACACAGCACTTTGTTCCTCCCCCAGATAGAAAGGCCAGAAGTCTGT
CTTTGACCTAGCCCCTCCTCAGTGAATCCAGGAAATGAAGTAGGTTACTAAAGCCATGGAAAGTCCTCTGTGTTTCTCAAATAGTTTAGCCAGA
GTATTCCCAAATCGTTTCTTTTAAGGTATTGGGGGGGGGGGGGTCAAGGTACAATCCGAACACTCAGGATATGGAGGTAGAAGGGTTGAGTTC
AGGGCCAGCCTTTGCTATGTAGGGAATTTGAGGCTTAGCTGGGCTACAAGAAGACACTTTGTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTGGTTTTTCGAGACAGGGTTTCTCTGTATAGCTCTGGCTGTCCTGGACCTCACTTTTGTAGACCAGGCTGGCCTCGAACTCAGAAATC
CGCCTGCCTCTGCCTCCCGAGTGCTGGGATTAAAGGCGTGCGCCACCACGCCCGGCAACACTTTGTCTTAAAATGATGA

MOUSE SEQUENCE - mRNA
AGAGCAGCAGAGTGAGGGGAAGAGGGCCGTCTCCCTCCCGGTTTCCAGTTCTTGCACGCTGTTTCTTAGAGAGTCTGCAGTGGGGGAACTCTGC
CGGTAACCAGCTCCCCTTCTTGCAGGAGGGAGGGAGAAACATACATTTATTCATGCCGGTCTGTTGCATGCAAGCTTCTTGGCTTCCTACCTTG
CAACAAAATAATTGCACCAACTCCTCAGCGCCGATTCCGCCCACAGAGAGTCCCGGAGCCAGAGTCGCTTTGGCTTTGCACTGCAGGAAAGGGA
CTTAGGCGCTAGAGACGATGTCGCTTTCCTGAGCTACCGCGAGCTCTCGTGAACTGCAATCGACTGCTTCAGGGAAAGGGGTGGGGGAAAGACT
TGCCCCGGAGGCGGCGAGAAACTTGCGTTTGGAAGATACTCCGGCTACCAACGTTTGGAGAAACTCCTCGCCGCGGCCGACTCCAGCCTCGGTG
CCCGCAGGAGCACTTCAGCGGTGAGGGAGGACGGAGGGCCTCGGGGACTCTAGGTTGGCGGCGGGAGGCGGCCGCCCTGGCCCGCGCGCCGCTC
AGGGGACCCTGGTCTCCGCCCCGGGGAGCCCGCAGGCCCGGCGACCGCGCCGCGAGCGTGTGAGCGCGCGTGGGCGCCGGCAAGCCGGGGCCAT
GGTACAACAGACCAACAACGCGGAGAACACTGAGGCTCTGCTGGCCGGGGAGAGCTCGGACTCGGGCGCCGGCCTGGAGCTGGGCATCGCGTCC
TCCCCGACGCCTGGCTCCACCGCGTCGACGGGCGGCAAGGCGGACGACCCCAGCTGGTGCAAGACGCCCAGTGGGCCACATCAAGCGGCCCATGA
ACGCCTTTATGGTGTGGTCGCAGATCGAGCGGCGCAAGATCATGGAGCAGTCGCCCGACATGCACAACGCCGAGATCTCCAAGCGGCTAGGCAA
ACGCTGGAAGCTGCTCAAGGACAGCGACAAGATTCCGTTCATCCAGGAGGCGGAGCGCCTGCGCCTCAAGCACATGGCTGACTACCCTGACTAC
AAGTACCGGCCGCGAAAGAAGGTGAAGTCGGGCAACGCGGGCGCGGGATCGGCGGCCACAGCCAAGCCAGGGGAGAAGGGCGACAAGGTCGCGG
GCAGCAGCGGCCACGCGGGAAGCAGCCACGCGGGGGGTGGCGCGGGCGGCACGTCCAAGCCCACTCCCAAGAAGAGCTGTGGCCCCAAGGTGGC
GGGCAGCTCGGTCGGCAAGCCCCACGCTAAGCTGGTCCCGGCGGGCGGCAGCAAGGCGGCTGCATCGTTCTCTCCAGAGCAAGCTGCCCTGCTG
CCCCTGGGGGAGCCCACGGCCGTCTACAAGGTGCGGACTCCCCAGCTGGCCACTCCGGCCGCCTCCTCCTCGCCGTCCAGTGCGCTGGCCACCC
CAGCCAAACACCCTGCCGACAAGAAAGTGAAGCACGTCTACCTGTTTGGAAGCCTGGGCGCTTCGGCGTCTCCCGTCGGGGGCCTGGGTGCGTG
CGCCGACCCCAGTGATCCACTGGGGTTGTACGAAGATGGAGGCCCGGGATGCTCGCCCGATGGCCGGAGTCTGAGCGGCCGCAGCAGCGCAGCA
TCATCGCCAGCCGCCAGCCGATCGCCCGCTGACCACCGCGGCTACGCCAGCCTACGCGCAGCCTCGCCCGCCCCGTCCAGCGCGCCCTCGCACG
CGTCCTCCTCGCTCTCCTCGTCCTCTTCCTCCTCCTCGGGCTCTTCGTCGTCCGACGACGAGTTCGAAGACGACCTGCTCGACCTGAACCCCAG
CTCAAACTTTGAGAGCATGTCCCTGGGCAGTTTCAGCTCCTCATCGGCGCTCGATCGGGACCTGGATTTTAACTTCGAACCCGGCTCAGGCTCC
CACTTCGAATTCCCGGACTATTGCACGCCCGAGGTGAGCGAGATGATCTCGGGAGATTGGCTGGAGTCCAGCATCTCTAACCTGGTCTTCACCT
ACTGAAGGGAGCGCGGGCCGGGGAGAAGGTGGGCCAAGAGGCAGGAGAGGAGAGAGGGAAAAAAGAAACAAAAAACAAACAAAAAAAAAAAAG
A

MOUSE SEQUENCE - CODING
ATGGTACAACAGACCAACAACGCGGAGAACACTGAGGCTCTGCTGGCCGGGGAGAGCTCGGACTCGGGCGCCGGCCTGGAGCTGGGCATCGCGT
CCTCCCCGACGCCTGGCTCCACCGCGTCGACGGGCGGCAAGGCGGACGACCCCAGCTGGTGCAAGACGCCCAGTGGCCACATCAAGCGGCCCAT
GAACGCCTTTATGGTGTGGTCGCAGATCGAGCGGCGCAAGATCATGGAGCAGTCGCCCGACATGCACAACGCCGAGATCTCCAAGCGGCTAGGC
AAACGCTGGAAGCTGCTCAAGGACAGCGACAAGATTCCGTTCATCCAGGAGGCGGAGCGCCTGCGCCTCAAGCACATGGCTGACTACCCTGACT
ACAAGTACCGGCCGCGAAAGAAGGTGAAGTCGGGCAACGCGGGCGCGGGATCGGCGGCCACAGCCAAGCCAGGGGAGAAGGGCGACAAGGTCGC
GGGCAGCAGCGGCCACGCGGGAAGCAGCCACGCGGGGGGTGGCGCGGGCGGCACGTCCAAGCCCACTCCCAAGAAGAGCTGTGGCCCCAAGGTG
GCGGGCAGCTCGGTCGGCAAGCCCCACGCTAAGCTGGTCCCGGCGGGCGGCAGCAAGGCGGCTGCATCGTTCTCTCCAGAGCAAGCTGCCCTGC
TGCCCCTGGGGGAGCCCACGGCCGTCTACAAGGTGCGGACTCCCCAGCTGGCCACTCCGGCCGCCTCCTCCTCGCCGTCCAGTGCGCTGGCCAC
CCCAGCCAAACACCCTGCCGACAAGAAAGTGAAGCACGTCTACCTGTTTGGAAGCCTGGGCGCTTCGGCGTCTCCCGTCGGGGGCCTGGGTGCG
TGCGCCGACCCCAGTGATCCACTGGGGTTGTACGAAGATGGAGGCCCGGGATGCTCGCCCGATGGCCGGAGTCTGAGCGGCCGCAGCAGCGCAG
CATCATCGCCAGCCGCCAGCCGATCGCCCGCTGACCACCGCGGCTACGCCAGCCTACGCGCAGCCTCGCCCGCCCCGTCCAGCGCGCCCTCGCA
CGCGTCCTCCTCGCTCTCCTCGTCCTCTTCCTCCTCCTCGGGCTCTTCGTCGTCCGACGACGAGTTCGAAGACGACCTGCTCGACCTGAACCCC
AGCTCAAACTTTGAGAGCATGTCCCTGGGCAGTTTCAGCTCCTCATCGGCGCTCGATCGGGACCTGGATTTTAACTTCGAACCCGGCTCAGGCT
CCCACTTCGAATTCCCGGACTATTGCACGCCCGAGGTGAGCGAGATGATCTCGGGAGATTGGCTGGAGTCCAGCATCTCTAACCTGGTCTTCAC
CTACTGA

HUMAN SEQUENCE - GENOMIC
TATGAAGTTTCCTCTTAGCACTGCTTTTGCTGTTATCTCAGAGGTTTTAATAGATTGTATTACTATTGTCATTCAGTTAGAAGAATTTTTTAAT
TTCCATCTTGATTTTATTTTTGACCCAGTGATCATTCAGCAGCAGGTTACTTAATTTCCATGTATTTGCATGGCTTTGAAGGTTCCTTTCGGAG

TTGATTTCTAGTTTTATTCCACTGTGGTCTGAGAGAGTGCTTGATATAATTTCAATTTTCTTAAATTTATTGAGGCTTGTTTTGTGGCCTATCA
TATGATCTATCTTAGAGAAAGTTCCATGCACTGATGAATAGAATGAATATTCTGCTGTTGTTGGGTAGAATGTTCTGTAAATATCTGTTAAGTC
CGTTTGTTTCAGGGTATAGTTTAAATCCAGTGTTTCCTTGTTGACTTTCTGTCTTGATGACCTGTCTAGTGCTGTCAGTGGAGTACTGAAGTTC
CCCAGTATTCTCGTGTTACTTTCTATCTCATTTCTTAGGCCTACTAGTAATTATTTTATAATTTGGGAGTTCAAGTTAGGTGCATATATATATA
GAATTGTGATATTTTCTTGTTGGACAAGGTCTTTTATCATTATATAATGTCCCTCATTGTCTTTTTAAACTGCTGTTGTTTTAAAATTTGTTTT
GGCCGGGCACAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAACACAGGTAAATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGC
CAACATGGGGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCTAGGTGTGGTGGCAGATGTCTGTAATGCCAGCTACTGGGGAGGCTAAAGC
AGGAGAATCACTTGAACTTGGGAGGCGGAGGTTGCAGTGAGCTGAGTTCACACCATTGTACTCCAGCCTGGGCGATAGGAGTGAAAGTCTGTCT
CGAAAAATAATAATAAACAAAAAAATAAACTTTGTTTTACCTGATATAAGAATAGATACTCCGCCGCTGGGCGCAGTGGCTTACGCCTGTAATC
CCAGCACTTTGGGAGGTCAAGGCAGGTGAATCACCTGAGGTCAGAAGTTCAAGAGCCAGCCTGGCCAACATGGTGAAGCCCCGTCTCTACTAAA
AATACAAAAATTAGTCGGGCGTGGTGGTGGGTGCCTGTAACCCCCGCTACTCGGGAGGCTAAGGCAGGAGAATCGCTTGAACCCGCGAGGTGGA
GGTTGCAGTGAGCCAAGATCATGCCACTGCACTCCAGCCTGGACGACAGAGTGAGACTCCATCTCAAAAAAAATAAAATAAAAAAAAAAAGAAT
AGGTACTCCTGCTCGCTTTTGGTGTCTATTTGCATAGAATGTCTTTTTCCATGGGGTTATTCAATTTTAGCTAACTCCCATATACACTATGGGC
ATTGGTGAAAATACTGACTGAATTTTTAATAAAGATCTAGAGTCATTAAGAAAAAGTTACCTTCCTGCATGAACTTATATTTTGGCATCTATCA
AATGGCATTGTAATTAATACAACTCTGACCTCTATTACTGCATAACAAACTACCCAAAGCATAGTGATTTAACGCAACTTATTAGTTCTCATAA
TTCTGTGGGGTGTCAATCTGAGTGATTCTTCTGTTGTACCCATCTGGAATCGCTCCTGTGGCTGCAGTCATCTGACAAACCAACCAAAACTGGA
GAGTCCAAGATGGCCTCAGTCACATGCCTGGGATGCTGGCCTTGGAGGGGCACCTTGGTTTTCCCTATGGGGCCTTCAATCCTCGAGTAAGATC
AGCTGCTGAAGGTAGTTCACAACATGATGTTTTCATGGTCTCACTGGAGTAGGTTCACAACACGACGGTTTCAATGGACAAACCCCAGTACATG
GGCACTTGTGAAGTCTGTTTGTCTCATGCTTGCTAATGCCCCATTTCCCAAAGCAACTCAGTGACCAAATCCAGAATCAGAGAGAAAAAGGTCC
ACATAAAAGCACACGTACTAGGAGGACGATTTATTACAAGAATCTACCACATCCACTGTAAATTTAAGAACTCAGAATACAAGTAGCATCCTCA
TTATTTAGCGTTTGCCTGCCACCCATAGTGCATAATTCACACCTAGGCAGTAGTACTCCTAGGGAGAATTTTTAAATTTTTGGACAACATTTTG
GGTGTTCTAGTGAAATACAGCCCTACCATGCATATTTGAAATGTATATTATCTTATTATAAATTACCTACTGTGTATTTCTCCTTTAACATTGT
AGTTTGAACATTATGGTTTCTTTTTTAATTTTGTGCATAGTAAGTTACGTAATCCACAGATTTTATTTCAGGAGAGTAAAGTTATATTACAAAA
TATTTGTTACAATAAGGCAGCGGTTTGGGTCTGATATTTTTGAAATTAATGAGTTAAGTTTGAGTGTTTTAAGTACTAGCCTTCAGTTATTTTT
GAATCGTGATAGCCAGATAAAGTGTCACTAAATTATTTTTTTAACTTGGAATGTGGGACAGGAAGGATGGAGTTTCATGCTTCAGGAAGCAGTG
AAAAATCACAAAACCTCTGTACTGCTAGACCCAACACTTTTCCAGATCCCCAAACTATCTCTATCACCCTCCTTTCATGGCAAATTTGCATATG
CATTATTGTCAGAATTTTGAACTTATTTTACAACCATATACACAGAATTCTTTTCTAGCTTGCTGCTTAACTGAACAGATGGTGCAGTTTCCCA
GCCCAGCAGCTGGAGGGGACCGAGGATGCGCTCGGCACACAGTAGGAGCACCATAAACGTTGATTGACTGAGTTCATTGAGGCGGTTGACGCCA
GGCCATCCACTCCCACGCGGTACTCTTATCTTTCTCCAGGCCCACACCCCTGGCCCGAGAGGCGGTAGCTGGGAGCAGATGGCGAGTCCCGGGT
GCCAGGTGTACTGCACTCCAGGCGCGGTCTGGGGCACTGGGTTCTACGGTCCCTGCCCCACCCCTCCCATCCCTATGAGTTCCCCCAAAGCTGT
CTGCGCCAAGTGTGACGTCTGACTACGGCGGGAACATGGGAGGGGAAGGGCTGGAAGAAAGGAGATCGGTTGCCTGGCGAGGGGGCCCGTGCGT
CCTACAGTCGCTACCCGCCACGCACGCGTCCCTCTCCTCCTGACCCGCGTCACTTAGCAGCCAATGCGGTCTCCGTGCCTTCCCACTTCCCCGC
AATCAAGCGCCTTTCTTCCTCCGCCTCCCCTCTTTCTGTTATCTGACATTTTGCTCTGCTTCCCTCTGCCCACTCCCCAGCGGGATTCCCTCCC
TGGCAGACGCGCGCGCCCCAGCCCGCCCTCGCACAACCTCCAATAGCAGGTCAACTGGCTTGTAACGCTGGCTTAGGGTTGCTCTTGAAGTGTT
TTTCCAAAAGCGAAATCACCCGCTTTCCCCCACGGGGCTAAAACTGTAATTGCAACAACGGGCTGTTGCGTTGGGGGTGGGAAGCCCGTCGGGC
GTGCCCCACCTAGACCGCCTGCTGGGGCCACTGGGGTGGTTTTGCCGCCCCCTCAACCCCTGCCACCCCGGGTCGAGTAGGCAGCTCCACCCGG
ACGCTTGCGCCAGGGCCTGACTGCCGCGGCTGCCAGCGGAAAGGCAGAGACCAGCTGATCCAAGGAGGACAAAGCGAGCCGAGACCTTCCGCAG
AGCTTGGCTTCCTCGTAACTGCGCCCAGGGCGCAGCCTCTCCCTGTTAACTACCTGCCATATGTTCCCTTCTCTCAGACCCGAAACCGCCTCCT
ACAGGTGCTGGGGACTGAATCTGGAGCTTCGGGCGCGGCCCTTGACAAGGGCGCCTGGCACCCTGGGGCGCCTCCGTGGCCCTCGCAAACTCAG
AGAGCCCCCACCGTCCAGTCTTTCCTGCACGAGCGAGGGATCGAGGGAAGGCGCCAATGCACGTCTGTCCCTCCGTGATCCGCGCAGAAGGGAC
GCTTGAAGACTGGGGTGCAATGAATTGTCGACTTCCCTCAGCTCTCAGCCCTTTTCCTCCCCCCGCGCGCCGTGCACGCGCAGCCTGCTCTGCC
CTTCTGAAAGAGACGCTGCAGCTGCGCTCTCAATGGGGCCTCAGCCTGCGGGGTCCGGGGAGGGGATGAAGTGGGTGGTTGCCCAGCCGGTGTA
CGAAGGTCGTGTGCCTGCCGAAGAGTGGGTCCCACACGCACAGCGCGCGCCGTACCAACCAAGCAAGGCTCACAGAGAGCATTTAGTCGTCCAG
AGCAAAGGATGCTGGGCACTCAAGAGAGCAGGGGGCCAAGTGGCTGTCAGTTCTGGTCAGTGACGGAACTGGACAGCATCTCCAAGGGCCAGGG
GATGGGGTAGGAGGACGGAGGAGCCAAGCTCCTGGGAAACGACCCCCCCAACCTATCCGCGACCGGTTGCAAATTCAAAGGAGGGCTGGGAGCC
CGCGAGGGTGCGGGAGGTGTCCTCGCTTGGGCTGCGTCTGCGCCCGCGTTTGTGTGTGTGTGCGCGCGCGTGTCTTCAGCTCCTTCCCCGGTCG
TAAAACCTAAACGGAAGACGGGTGTTAAAATGCTGCTGACAGGATCGCCTGAAACATGTTTACAGTAGGAAGGACTTTCCTCCAGAAAGCACAG
TCTGAGTCGATTCCAATTTATTTCCTCCCTGTAACTGTAAGCGAAAGGAGAGGTTCGGCTGCCGCGGCGGAGCGAGGCTGAGCACCATTAATCC
TTGGCGAGCTTAAGCCAGGGAGAGCGCCGTGCCTGCGAGACCGAGTCGCTGCGCTCCGGAAGGCGTTCTGCCTGAAGGAAACCTCTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTGAGTAGGGAGTGGCCTTTGCACTGGAGTCCTTAAGTAAGGCGCGTCGTTTCTCTGCAGCCGCTCTCGGAAGCC
GGAGAAACTGCATTCACTTTAGCAAGAAGACAGGGAAACTGAAATTGATAATCCCCCGAGTTGGGTTACCTGATCCAGACAGGAAGCTGGTCTA
GGCTTCCCCCGTCACCCGGAGCTCCTGACAAGTGAGCAGGAGGCGGCGGGTGGTTGCCCTAAACTTTGATTTATGAAAAAAAATCAGAATTCAT
CGACATACCCTGTTACTCGTTGAGCGTTTAAGCCTCTAACTAAAGAAGGTACAGTGGTAGGGAGTGGTAGGGGGGTCGGGAGAGGAGGAAGGGG
GAGAAGAAAGAAGACTGACTATCCCCACGATTTCCTACCTCGCCTCGCGGGCGCAGGGAGGCTCAGCGATGCCACCTGGCGGCTGCTTCTCCCC
AGATTGGGAGCCGGCTGGCTGCAGACAAACCCAGGCTCTCCCCGGGTGCCGTGCCTCTGCCTCTAGAATAGAAGCAGAAGCCTGTATTCATGCT
TGCAATCCAAGTGGCCCTGCAAACATTCGTCTTCTGCTTGTTTTCTTGAGAAAATCGAAGGAAAGGAATAATGAGTTGGCATTGGCATGAACAG
CTTAAGCCTACTGTGTGCTAGTCACTGGTTATGAGAGGAAAATGGTACAATTGTTAGAAATGCAGGTTTCTTAACTCTTAGCTTATTCTAGTGA
TAAAAATAAATGCTAGGTTTCATTTACCCCAGAATCCTATTTTGATATTTTGCAAATATGAGTTATTTCCATATATTATTTTTCAATGCACGCA
CCCCCACCCCCATTACGCGCTGAGCCCAGTTACAATGCAATGTCATCAGCCCAAAAGGATGAAGTGCAAGTTATGTTTGTCTACTTGACTGAGA
AGTAAATCAGCCTCACATGGAGGCTTCTTTTCCATAAAGTGTGGAACCAAAAAAACTGGCGCCTTTCAGTTGACAAAGGCCAATGACATCAGAT
TTCCCAGGGCTTCTTCCTTGTCAGGTAAAGTAACAACTACACAGTTTTTCCTCCTCTTTATTTTATTTGAACTGAATACTTGTCAGGTCTGACT
AGCGCCTACAATCATAGTTTCTATAACCAAGGCAAGGCAAAATCTTGCAAATCAGTGCAAATCCAGATTTGTTAAACTAATTTCCATTCAGGTC
CCTCCCTCCATGCCAAAGGAATATATTAAGCAGTGGAATAGAATCTTATTTCATCTATGCCCCATACCATTGTATGGATGTGAGATTTAGTAGGTT
GTGTAGATGTGTGAGAGCAGAAGAAATGCATTAGCAGATATTACACTTACATCTCAAATGGAATTCCATCATTTAAGGGAATAAAATAAAATAC
CTAATTCAAAATTGGAAATGTCTAACATCATTGCTAACAAAGACAGTTTATTATTCTAAACCAGGATTTTTTTTTTCTGCAAAATTATCTTGGC
TTTCTCTTAATACAGCTAAAAGACTAGCATTAAGAATTACTTCATGTACTGCAAAGCCAGCAGAGGGAACACTGCGTACTGATTTAGTAGGGGC
CACCAAATATCTGGTATTTGGGGAAAAAAATGTCAGTAATGGAGAACTGATTACAGAGCATATGAAGTTAGGGAATGAGAAGGGAGAAATCTTT
TCTCATTATTTGGTATTGAGAGGTCCAACACATTCCAGTGTGCACACACTTAGTTGGTCACAAAGATGACTTTAATAAAAGGGCATTCGTCATA
TGTTTTCTTACATTCTAAGAGAACTAACCCATTAGAACAGATCTATTTCAGAAGTCTAGGCACTTGTGTAATATATAAATATATATGCAGTAAT
TATAAAGTCAATGGAAGTTACTGATACCATATTTCATCAAGTCTAAGAGGAAATTTTTCTTTTCATTTCAACTCTTCCTGAAATAAGGAGGCAT
CCTACATCTAGGGGGATATCACAGTTTCATTGGCAGCTTTCTTCCTTGGTGGAATGTAATATAATGGTGTGTCTTAAAATTTGTTGGATTTGTT
GAAATACAGAAAATACATGTAACAAAAGAATGAGGCCAGTGGCTGTGTTTTAGTACACCCTTTAAAAAATCCATGTGTTTTAAGCAGAAACATA
TATGACTGCTTTAACTTCCACTCTTCCCTATCATATTCGATGATGGAAGCATAAATGACTGAGAAATATAATCAATAATGTTGATACTCAACTT

GACTGAATTATCAAACTAGCTACACCCTCAAATCATTAGTTAGTACAAATTCAAAAATAAATATTCTTTTTTATTCTAGTGAAAATATTGATCT
TATAGATAATAGCCCTCTTAAAATAATTTTTTTTTTGTCAGATTGGTAACATTTAAGGATGTGTTTCTATGCACACCAGAGAAAATGTAGTATAT
AACACAGCAACACTGTTATGCAAAAAAGGTGCCTGTGTGTTTTTGGTTTGGGTTTTTCTTTTTTTTAAGGATTTGTTTCTCCTTTTTTAAAAAAA
TTATGTAATACAAGTAGCTAATCGTCAAAAATTATTTGCTTTTACCCACAAAAACAGTTTTGCTTGTGGTTGATCCTTACAGATCCAGTCAGAT
GGCTACATAGGGTGTTCTTTCCAGTAAAATTCTAAGTCTGACAACCTGGGCCTATTGCCAGCCTACATACTTTAAAAGTTTGACAAGATACATA
GAAATTTACTACCCAGCACTAGTTTAATCTGAATCAAAAGCCGACTTAATTATTTTGGATTGACTTTACCTAACCACTTATGGTTAGCCTGAAG
AATATTAGTTTCCTATTATAGTGTTAAGGAAAGCTGATTTTTACTACAATTCTAATTTTCAGACACTGGAAAACAAGTAATTTCTGTAGCCAAC
GTTTATTTTGAATACCTTGGCATCCTTTCTTTGCCACATTCTTCTTAGTATTCTTCATGGAGTTCCTTTCTTTTAAAATCAATGGAATGGCAGG
GTTGCCACTATTGTCCTTCTATGGTTCACATCAATGATCTGTGATTACTTTTTTTTTTTTTTTGAGATAGTCACACGCTATCACCCACACTGGA
GTGCAGTGGCTCAATCTTAGCTCACTGCAACCTCCTGGGTTCAAGCAATTCTCCCGCCTTAGCTTCTCGAGTAGCTGGAATTACAGGCGCATGC
ATCCCTGCCCAGCTAATTTTTTAATTTTTTAATTTTTAGTAGAGACAGGGTTTCACCATGTTGACCAGGCTGGTCTCGAACTCCTGACCTGAAG
TGATCCACCCACCTTAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGTCCTGCCTGTTATTACTTTTTTACATAAGTGGCTATTC
TGTTTTAGCCTCTTGAACAACATGCAGCTTTTACTAGGAGTGTGTCTGGCATTTGAATTAGAAAGGAAGATATTAGTATTCATTGAGGGCTTAC
AATACATCAGGTGCTTCATAGTCACAAATTCATTGAACCCTCACAACAACCCTCTATAAAGTAGCTCCTAGTGTTCCCATATAATAGATGAGGA
AAACTGAGACTTGGCCACATCCCCATAGTTACAAACCATTAAGAAGGATTAGCAGCCAGGTCTACTATGAATCCGGAGGCCCCATTCTCTTCTG
CTACCAGTTATCACCTCCTTCTACAGTTTCTCTTTGCCTTGGTTTTTCAGTTCCCTTCGATTCAAGTAACAAGAGGAAATATATAAGAAGGAAA
GGAGGAAGATGGCTTTGGGAGGAGGAGAGGGAAGAGAGTGAAGCAATCTTTAATTTTGAAAACAGGGAAAACAAATATTTAGAAAGTAAAACCG
ATTTCCATCCTTTACATGCCATTATACATCCTATACAAAACTCTGGAAATCTGCCTATTGAGGTAATTACGGAGCACTACCTAATGTGTTTCAA
GGGAAAGCTCCCCTGTTTGGGCTATGCAGGATTTACAGGGAGTTTAAATCATTAAATAACCATAGTTGACCCTTGCTTGGTTAAGAGAGTAAGC
AATTATTGCAAAGTCCTCTTCCCTGCCTTCCACAAACAGCACAAAAACGGTTCTGAAGGGATTTACACAATACATCAACATCTGTGCTGTACCT
AGAGTTGTTAAAATAATTGTGATGACAGGTGTCTAGGTACCACTTTCTTAATGGTTTTCAATATCCATTGATTTATTGTTTGTGGCTTTCTCT
TCCCCTTTACAGCTTTGGCTTTAAGAAAGAGCTGGGGAACAGATTTTGCACCAGAGGCTGATTCTTTATTCCAATGCTGAAAAGAACTAATAAA
AATAATCACTTGGCTTTTAAGCAGAAAGCTTCCATTTACAGTATTTCACCCTTACCCCGCCCCGTTCCAAGCCCCTTGTTATCTAACATAATGG
TTAGAATACATTTCCGTCTCTCCCCTTAATAATTTCATGCATTAACATCCTCTTCACACACTATACACACACGCACGCGCGCACACACACGCGC
GCGCACACACACAGCAAAAGGAAAAAAGAGGCAGCAGAAATCTCAGCTGTACTTCTAGCCCTTTTAAAAAGTTTGCTCTGTAAATTGGAATGAG
GTCAGATTTGGAGCTTCTCATTGCACGCGGAGATTATTATTGCATCGGGTTCCAAGCCAATGGGAAGCCCGGGGGAGGGGTTTGGCATGAGGAA
GCGTTGGTTACAGCAGCTGATTGGCTGCAGCCAAGACTGTGAAAGGATAAAGAGGCGCGAGGCGGAATTGGGGTCTGCTCTAAGCTGCAGCAAG
AGAAACTGTGTGTGAGGGGAAGAGGCCTGTTTCGCTGTCGGGTCTCTAGTTCTTGCACGCTCTTTAAGAGTCTGCACTGGAGGAACTCCTGCCA
TTACCAGCTCCCTTCTTGCAGAAGGGAGGGGGAAACATACATTTATTCATGCCAGTCTGTTGCATGCAGGCTTTTTGGCTTCCTACCTTGCAAC
AAAATAATTGCACCAACTCCTTAGTGCCGATTCCGCCCACAGAGAGTCCTGGAGCCACAGTCTTTTTTGCTTTGCATTGTAGGAGAGGGACTAA
GTGCTAGAGACTATGTCGCTTTCCTGAGCTACCGAGAGCGCTCGTGAACTGGAATCAACTGCTTCAGGGAAAAAGAAAAAAAAAAAAAAAGAC
TTGCCTGGGAGGCCGCGAGAAACTTGCATTGGAAGCTTCAGCAACCAGCATTCGAGAAACTCCTCTCTACTTTAGCACGGTCTCCAGACTCAGC
CGAGAGACAGCAAACTGCAGCGCGGTGAGAGAGCGAGAGAGAGGGAGAGAGAGACTCTCCAGCCTGGGAACTATAACTCCTCTGCGAGAGGCGG
AGAACTCCTTCCCCAAATCTTTTGGGGACTTTTCTCTCTTTACCCACCTCCGCCCCTGCGAGGAGTTGAGGGGCCAGTTCGGCCGCCGCGCGCG
TCTTCCCGTTCGGCGTGTGCTTGGCCCGGGGAACCGGGAGGGCCCGGCGATCGCGCGGCGGCCGCCGCGAGGGTGTGAGCGCGCGTGGGCGCCC
GCCGAGCCGAGGCCATGGTGCAGCAAACCAACAATGCCGAGAACACGGAAGCGCTGCTGGCCGGCGAGAGCTCGGACTCGGGCGCCGGCCTCGA
GCTGGGAATCGCCTCCTCCCCCACGCCCGGCTCCACCGCCTCCACGGGCGGCAAGGCCGACGACCCGAGCTGGTGCAAGACCCCGAGTGGGCAC
ATCAAGCGACCCATGAACGCCTTCATGGTGTGGTCGCAGATCGAGCGGCGCAAGATCATGGAGCAGTCGCCCGACATGCACAACGCCGAGATCT
CCAAGCGGCTGGGCAAACGCTGGAAGCTGCTCAAAGACAGCGACAAGATCCCTTTCATTCGAGAGGCGGAGCGGCTGCGCCTCAAGCACATGGC
TGACTACCCCGACTACAAGTACCGGCCCAGGAAGAAGGTGAAGTCCGGCAACGCCAACTCCAGCTCCTCGGCCGCCGCCTCCTCCAAGCCGGGG
GAGAAGGGAGACAAGGTCGGTGGCAGTGGCGGGGGCGGCCATGGGGGCGGCGGCGGCGGGAGCAGCAACGCGGGGGGAGGAGGCGGCGGTG
CGAGTGGCGGCGGCGCCAACTCCAAACCGGCGCAGAAAAAGAGCTGCGGCTCCAAAGTGGCGGGCGGCGCGGGCGGTGGGGTTAGCAAACCGCA
CGCCAAGCTCATCCTGGCAGGCGGCGGCGGCGGCGGGAAAGCAGCGGCTGCCGCCGCCGCCTCCTTCGCCGCCGAACAGGCGGGGGCCGCCGCC
CTGCTGCCCCTGGGCGCCGCCGCCGACCACCACTCGCTGTACAAGGCGCGGACTCCCAGCGCCTCGGCCTCCGCCTCCTCGGCAGCCTCGGCCT
CCGCAGCGCTCGCGGCCCCGGGCAAGCACCTGGCGGAGAAGAAGGTGAAGCGCGTCTACCTGTTCGGCGGCCTGGGCACGTCGTCGTCGCCCGT
GGGCGGCGTGGGCGCGGGAGCCGACCCCAGCGACCCCCTGGGCCTGTACGAGGAGGAGGGCGCGGGCTGCTCGCCCGACGCGCCCAGCCTGAGC
GGCCGCAGCAGCGCCGCCTCGTCCCCCGCCGCCGGCCGCTCGCCCGCCGACCACCGCGGCTACGCCAGCCTGCGCGCCGCCTCGCCCGCCCCGT
CCAGCGCGCCCTCGCACGCGTCCTCCTCGGCCTCGTCCCACTCCTCCTCTTCCTCCTCCTCGGGCTCCTCGTCCTCCGACGACGAGTTCGAAGA
CGACCTGCTCGACCTGAACCCCAGCTCAAACTTTGAGAGCATGTCCCTGGGCAGCTTCAGTTCGTCGTCGGCGCTCGACCGGGACCTGGATTTT
AACTTCGAGCCCGGCTCCGGCTCGCACTTCGAGTTCCCGGACTACTGCACGCCCGAGGTGAGCGAGATGATCTCGGGAGACTGGCTCGAGTCCA
GCATCTCCAACCTGGTTTTCACCTACTGAAGGGCGCGCAGGCAGGGAGAAGGGCCGGGGGGGGGTAGGAGAGGAGAAAAAAAAAGTGAAAAAAAG
AAACGAAAAGGACAGACGAAGAGTTTAAAGAGAAAAGGGAAAATAGAAAGAAAAAGTAAGCAGGGCTGGCTTCGCCCGCGTTCTCGTCGTCGGA
TCAAGGAGCGCGGCGGCGTTTTGGACCCGCGCTCCCATCCCCCACCTTCCCGGGCCGGGGACCCACTCTGCCCAGCCGGAGGGACGCGGAGGAG
GAAGAGGGTAGACAGGGGCGACCTGTGATTGTTGTTATTGATGTTGTTGTTGATGGCAAAAAAAAAAAAGCGACTTCGAGTTTGCTCCCCTTTG
CTTGAAGAGACCCCCTCCCCCTTCCAACGAGCTTCCGGACTTGTCTGCACCCCCAGCAAGAAGGCGAGTTAGTTTTCTAGAGACTTGAAGGAGT
CTCCCCCTTCCTGCATCACCACCTTGGTTTTGTTTTATTTTGCTTCTTGGTCAAGAAAGGAGGGGAGAACCCAGCGCACCCCTCCCCCCCTTTT
TTTAAACGCGTGATGAAGACAGAAGGCTCCGGGGTGACGAATTTGGCCGATGGCAGATGTTTTGGGGGAACGCCGGGACTGAGAGACTCCACGC
AGGCGAATTCCCGTTTGGGGCTTTTTTTTCCTCCCTCTTTCCCCTTGCCCCCTCTGCAGCCGGAGGAGGAGATGTTGAGGGGAGGAGGCCAGC
CAGTGTGACCGGCGCTAGGAAATGACCCGAGAACCCCGTTGGAAGCGCAGCAGCGGGAGCTAGGGGCGGGGGCGGAGGAGGACACGAACTGGAA
GGGGGTTCACGGTCAAACTGAAATGGATTTGCACGTTGGGGAGCTGGCGGCGGCGGCTGCTGGGCCTCCGCCTTCTTTTCTACGTGAAATCAGT
GAGGTGAGACTTCCCAGACCCCGGAGGCGTGGAGGAGAGGAGACTGTTTGATGTGGTACAGGGCAGTCAGTGGAGGGCGAGTGGTTTCGGAAA
AAAAAAAAGAAAAAAAGAAAAAAAAAGAAAAAAAAAGATTTTTTTCTTCTTAATCGGAATCGTGATGGTGTTGGATTATTTCAATGGTGGG
GTTAATATAGCATGTTATCCTGTCTATCTTTTAAAGATTTCTGTATAAGACTGTTGAGCAGTTTTTAAAATAGTGTAGGATAATATAAAAAGCA
GATAGATGGCGCTATGTTTGATTCCTACAACGAAATTATCACCAGCTTTTTTTCATTCTTAACTCTTTAAAGGATTCAAACGCAACTCAAATCT
GTGCTGGACTTTAAAAAAACAATTCAGGACCAAATTTTTTCTCAGTGTGTGTGTTTATTCCTTATAGGTGTAAATGAGAAGACGTGTTTTTTTC
CTTCACCGATGCTCCATCCTCGTATTTCTTTTTCCTTGTAAATGTAATCAGATGCCATTTTATATGTGGACGTATTTATACTGGCCAAACATAT
TTTTTCTTTTGTCCCTTTTTTTCTTTCCTTTCTTTTTACTTCCTTTATTTCTTTATTCCTTCCTTTTCCTTTTTTTCTTTTTTTTTTCTTTTTT
TTTTTTTTTTTTTGGTAGTTGTTGTTACCCACGCCATTTTACGTCTCCTTCACTGAAGGGCTAGAGTTTTAACTTTTAATTTTTATATTTAAA
TGTAGACTTTTGACACTTTTAAAAAACAAAAAAAGACAAGAGAGATGAAAACGTTTGATTATTTTCTCAGTGTATTTTTGTAAAAAATATATAA
AGGGGGTGTTAATCGGTGTAAATCGCTGTTTGGATTTCCTGATTTTATAACAGGGCGGCTGGTTAATATCTCACACAGTTTAAAAAATCAGCCC
CTAATTTCTCCATGTTTACACTTCAATCTGCAGGCTTCTTAAAGTGACAGTATCCCTTAACCTGCCACCAGTGTCCACCCTCCGGCCCCCGTCT
TGTAAAAAGGGGAGGAGAATTAGCCAAACACTGTAAGCTTTTAAGAAAAACAAAGTTTTAAACGAAATACTGCTCTGTCCAGAGGCTTTAAAAC
TGGTGCAATTACAGCAAAAAGGGATTCTGTAGCTTTAACTTGTAAACCACATCTTTTTTTGCACTTTTTTTATAAGCAAAAACGTGCCGTTTAAA

CCACTGGATCTATCTAAATGCCGATTTGAGTTCGCGACACTATGTACTGCGTTTTTCATTCTTGTATTTGACTATTTAATCCTTTCTACTTGTC
GCTAAATATAATTGTTTTAGTCTTATGGCATGATGATAGCATATGTGTTCAGGTTTATAGCTGTTGTGTTTAAAAATTGAAAAAAGTGGAAAAC
ATCTTTGTACATTTAAGTCTGTATTATAATAATAAGCAAAAAGATTGTGTGTATGTATGTTTAATATAACATGACAGGCACTAGGACGTCTGCCTTT
TTAAGGCAGTTCCGTTAAGGGTTTTTGTTTTTAAACTTTTTTTTGCCATCCATCCTGTGCAATATGCCGTGTAGAATATTTGTCTTAAAATTCA
AGGCCACAAAAACAATGTTTGGGGGAAAAAAAAGAAAAAATCATGCCAGCTAATCATGTCAAGTTCACTGCCTGTCAGATTGTTGATATATACC
TTCTGTAAATAACTTTTTTTTGAGAAGGAAATAAAATCAGCTGGAACTGAACCCTAAATCTTGACTTTTGTCGTTATTATGCCCAATGCCTAAGA
TTGGAAAGGCCCTACAGTATCTGGACACTACACAATCTGCCTTAGCTTTAAAAAAATAAGTTCTCAGAGGAGTCTTGTCAAATGCTACCTTATC
GAGGAACATTAAATGTCTCTTGGCCAGATTTCCTCTGACCCTGAAAATGATGGCATCAGCTGAATATGTGTCAACTCAACACATGCTTTCTAGG
AATTTTCTGAGTTTACCATATTTAAAAACGCCCTTTGTCTTGGAATCTGAAAGAGGGGGAGGGGCAACGTGGACAGAATTCTTCACAGATGAAA
CTGGCTAGATGATCTTTTTTTTCAAGTTGGTGCTCCTGGAGCTGCTTTCTCCTTGATTTGCCCATGCTTACCTCCAGCAGTGGCTGTAATTGGTT
TTCGTGGGTTAAGGACAAATAAACTGTTATTATCAGTAGATTATACAGGAGGAGGCTTTTACCGATTATGAAATGCAAAACGTATGCATTTATG
CATTTTTTTTTCTCAAGCAGAAAGGTTGATGTGCTACAATCTTCATTTTTTGCCATGCCCAACATGGTGTTAATGTAAGAGAACTGCAGCAATAA
GGATGACCTGGAGAAGCTGGCTGCATGTGGGCTCAGAGGAAAGCCCCCTCTCCAAATAGCACTTACTTTGGCTGCTGGAGATTTGTGCTTTTTC
TAAGAATCAGGAAGGATTGTTGAGACTGCAAGGTGAAAAAGTACTTGGATTTCTTAAGGCCCATTACTCTTGGGTTTGGAACATACAACTTGCT
AAGTGGCACTATTTCCTGTTTATTTTGAGAGTTAACAATTGCTATTAACTAACAAAGCCATCTTCCAAATGTTAATTAAAAATGTGTCTTTTA
CTTGTCTTGAGTTTTTCAGCACTGGAGAGGAGGGGTTAACAAGCAGAAGTGTTTGGAAATTATCCCTTAGTCATTTGGATTGCTTGTAGATAAG
GGAGTAGTATCCTGGAAGGTACATCTGGAAAAAGAGACCTTTTGAAGACTAGTCTAACAGGAGGGGGTTTTGTGGTTGTCCAACGAAAAGCAAT
AATGCACCCCCAAAAACCAGTATAACTTGTGTTTCAATATAATTTATCTCTTAAAGATAGCTACTAGTTTTCAACATTTTTTTCATGTGTGGTG
CTCATATATTTAGTTTTAATTGCATTTGCGTTCTGCAATTGGAATTCCATTTTTTAAAATGACCTTAGAACAACATGGCATCTAAGTTTCTTCA
AAGATCTTTGTAAAAGGAAGAACTCTTCTTTAGAAAAGTGCTTTTAATTTTTGTTCATTGCAGTGATAATATAATGGTTTAGCTTTTTTCAGAT
CCAAGGTATCAATACCATGACATAAATGAAGCCTTAAATGATGCCTTTTTTAAATGATGCATCTCTTTTAAAGCATATTTTTATTTCGGAGGGT
TCTCCTGTTAGAACTGTTTCTTTTCCCTTGACTCTCTATGTAAAAGCAGATGTTTTAAATATTTCCTTTAAGAATTTTGATAACATTGGTTTAA
AAATAAAAGCTGAAATGTGTGTGTCCTTCCTGTCAGGTGGTAAAGTAAGAAGCATTTTTGTACAATGTCTTTTTCTCTGAGTCTGTTTTCATTC
GTAAGGGATACTTACTTGTTAGGTGGTACAAGGCATCCTAAACCTGCGAAACCAAACAGTTTAGTGTGATTTTTTCTTACAGATAATTTGGAT
CAATAGAAAAGAGTAAGTTTCAGATTTTCTTTTAAGAATATCCAGCAATTGCTTCTGGCCCTGTGTTCCATCACAAATGTGAATCAGTGATACT
TGCTTAAGCAAGTTTTGTCAATTCCTAGTTGAATTCCTTTAAGTGCCAAGAAAAAAAATAAAAAGCATGTAAGCTGAGAGGGTGGGCCCAGCTC
CTGGGAAGGCTTTTAGGGTTTGTGTTTACCCTGCTTTTGAGGGTACTAGGGGAGCTAAGGGATTCTGAGGAAAGCAAGAAAGCAAAGGGTTAAA
TGGACATCAACATTTACCAAGGGTTTCCTGTGTTTGTAGGGTACACACAAATTAGAAGACATGGTCTGGGGAATACTATGGGTCAGAATGCTTA
ATCATGAATTTAAAACAAATTCAGGGATCCCAAGGAAGTATTTGAAAAGAGAGAAATGTTTAAAAAAAAATTTTTTTTTTTTAAGAATACAAAC
CCATCTGGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGCGGATCACTTGAGGTCAGGAGTTTGAAACCAG
CCTGGCCAATATAGCGAAACCTCCTCTCTACTAAAACTACAAAAATTAGTTGAGCGTAGTGGTGCACGCCTGTAATCCCAGCTACTCGGGAGGC
TTAGGTAGGAGAATCTCTTGAAGCCGGGAGGCTGAGGTTGCAGTGAGCCAAAATCGCATCAGTGCACTCTAGCCTGGGTGACAGAGTGAGATTC
TGTCTCAAAAACAAACAAAAAAATACAAACCCATCTACCCATTTGGATTTCTCAGAGTGTAAGGTTGGTATGCTTTATTTCTCTTTCTGGTGGT
TTTTGTTTTGTGCCTCCTCCTGGCACCCCTCCTATTAAGGCCTACAAAATACCTCTCTAACCCATATTCACTAGGGTTTACTCCTACCCCTCTG
ATTCTTCCTGAAAAATGATATCTCCATACGCATTTCTCAATTTTCACTATCATTTGAAAGCTAAAGTGGAGGGGTGGGAAGAAAGCATCTCCAG
ACATCCGCATGGTGTTTCAGGCTCTGCCAAGTGTCTACCACCATTCCCCTGTGCCCAGGATAAAGTGCAGAATTCACATGCTGCTCTTCAAGGC
CCTGCACAAAAGGGTTTTAAGCCCAACTTTCCAGTTCTTCCAAATTGCAGTATAACCAAACTGCTCTTTCCTGATAGACTGGAATTCTTGAAGG
ACAGAAACTAGGCATTGAATACTTCTTGCATTCCCCAGTTTGCTTTCCCTGCTTCTTTTCACATAATAAATGCTAAATTCTTATTTCTTGACTT
TACATGGTTTCCATGGGTTCCTAAGAGCTTCCAACAGGCATTTGCATTTTATGCTGCTTGTGGTAAGCGCCAGCGCCGGATTGCATGAAAACCT
GGATTAGAATGCTGCCTCTGAGACCAACAAGCTGGAGGACCTTGGACAGATTTCTCAGCCTTTTTAAGTTTCCGTGTTTTAAATCGTCATATAG
AAAGAGAGCTATCTAATGTAGACAGCTGTGTTGGGAATAGAGTGCAGCGGCACGTGTGTGACATGTCGTAATGCCTGGCCTACCCCATGGGCTC
GGTGAATGCTAGAACCTGACCTCATGGGTGGTTCTAAAAAGCTAATGTGTGTAAAGCCTAACACAGTGCCAGCAACACAGAAGATGCTTTAAAT
TCTAAAAATGGGGAGCAAAGCAGCGTGGCCGGGGTCCGAGCTGGGGTTCTGTCCCCACTGGGCTGTCGCCCCAGCTGGACTACCACCATGGAAC
TCAGGGCCGAATACCTCAGGGAGAAGCTGCAGCGGGACCTGGCGGCGGAGCATGTGGCGGTGGAGGACAACACGACCCTCAACCATTGCGCCTG
TAGCTTCTGGCGGTGTCGGCCAAGTTCGAGGGGAAGCCGCTGCTTCAGAGACACCGCCTGGTGAACGCGTGCCTAGCAGAAGCGCTCCTGCGCA
TCCATGCCTTTGAACAGAAAACCCTAATCCCAGAGCAGTGGGCCCGTGAGCGGCAGAAATGAGGGACTGGGACCTGCACAGCCATTAAATTACA
AATCTGGAAAAAAAAAATTTCTAAAAATAAATCTCCTGAATCAATGTTTCTCAGTCTGCTACACGAATCCCCAGCATCAGAATTACCTGGAGATT
CTTGTTAAGGGTAGCGATTATACAGATCGCCAGCCACCGTCAGACTGTGGGGATGGGGCCTTAATGAGCCCCCCATAGATTTCCAGTGCTCACT
GAAGTTTGGAAATCAGTACCCTCACTGTATTTTAGCATATTCTCACAATAAGTATGCAGGCGAGGGATTATGACGCCCTCATTGTTTTAACATG
GAGAAATTGAGTTGAGAATGGCCCAATGGCTGATCTGAGGTCACAAGATCAGAAGTGCCAGAAAGGGTATTGGAACTCTATCTCCTGAGCCCTA
GAATCAGCCTAGAACTTATTTCTCTAAATAGATGTCTTCTCCATTTCTACCCAAGGCTTGGTCCCTTGGCAAAAATTGGCAGTCCCTGCACTTC
CCTCAGCCCTCTGACTCCTATCCATTTTCTCAAGGATGCCCTTCCACCATCCTTGTTAAAAGTTTAAGTTTGGGCCGGGCGCCCGTCGCTGGTG
CCTGTAATCCCAGCCCCTAGGGAGGCGAGGCAGGGGGATCACCTGAGGTCAGGAGTTTGAGACCAGCCTGACCAACATGGTGAAATCCCGTCTC
CATTAAAAATACAAAAAAATTAGCTGAGTGTAGTGGCACATGCCTTTAATCCCAGCTACCCAGGAGGCTAAGGCAGGAGAATCGCTTGAACCTG
GGAGACAGAAGTTGCAGTGAGCCAAGACTGTGCTATTGCACTCCAGCCTGGGCAACAAGAGTGAAAATCCATCTCAAAAAAAAAAAAAAAAGTG
TAAGTTTAAGTAATTAGCCAAGTTAATGTGTGTGTGTGTGTGTGTGTGTATTCCAGTTAAACAAATGTGTGCTAAAAGATGAACCC
AGGGACTGATTTTTGGTAGAAGTATCCAAGGCAGAGAACAGAAATAATATAAATATAGTGCCTGGAACTTCTGCTTTGTTGTTTAAAAGGCAGA
GCTTCCAGCAAGTGAGAAAATTGGAAATTATTCAGAGCACACTCAGCCTTTATAGAGAGGGCTATCGTCTACCCATTATATCCTAATGAGATTG
ACCGTTGGCTACAGTTAACTTGAAGGGTTTTATGGTTTCCTGCATGTGTTGTTTTCCTTCTCTATGTTAAAAAGAAGAAAAAAAAAAACTCTCA
CATCACTAAACGGTATTTCCCAGGGGGATGTCTGACTAGGCTGCTGCATTTTGGTTTGGGCCTTAGTTAACAATGGACCTCTATGTGTGTATGT
TTGTGGATACAGGTGATAATAAATTTAGCCCATTTTATTTTCTTTTGACAGTTTCAATTCAGGGCAGTTGGTTTATGGGGTACCGCCAAACAAG
CCAGGCCTAAGTCAAGTCATGGCAGGAAGTTTCTTGTAGGGCCTTCCTTTACCCTGCAGATTTTTTGTTGAAGGACAAAGTTCTAAGTCATTTG
TGGACCAATATACACAGCTGCTTTGCATCATACGTAAGACATTCTAAGGGTATTCCATTTGAGTGTTTTTTTAAAGGGCAGGACATTAAGAAA
CAAATGAAATATCATTTACTTAGCCCACTTACTTCTTTAGATATTTTTCCAAATACATAATTCTTTGGATTAGTTTTTAAACACATAATGAATG
TGCTATTTCCTGACATAACATGCAGTTGAAAGGCAAGTGAAAACACTATTATCCTTAGTAGGTAGGCTCTCTCCAGGCAGTGAATGCCCAGCAG
TGTAGGGCGATGGTTGGCTAATACATGTGATGCATGTAACTGCTTTTATAAGAGCTAAGCAGAAGGAGCCTGTTGAATGATCAGTTAGCTCCCG
TTGTATATGTGGTTAATTGTTACTTTCTTTCCTACCGGCCCCTGCCCTAACTTCCTCAGATCAACACCTAAAGCCTGTGAAAATAGTCTCTTCT
GGAACCCCTGACCTTCAGTCTCTGCCCCTGCTTTCTCTCTTCCCATTCCCACACTTTCTATGTGGACCTTTTATCTCTCCTGTTTGCCAATCCC
CCTCAGACTTTGAATAATTTATCTGAAGTTCCTGGGAAGTTGTGGGGCTGTCTGTAGTCTCAAAATACACTGCACTTTGTTCCTTCTCTAGGCC
GAGGTAGGTCCAAAAGCCTGTCTTTGAAAGAGGTGGTACTAAGTACATTGAGGGATTTACTAACAGTTTTAATTTTTTGGATGAGCACCCAATG
AATCCAAAAGCTGGAGGAAAGAAAAAATAAGGGGCAAAAGATGAAGGTGAATACTACTTTGTAATTCTGATATCTCCCAAAGAATGTCAAGTAA
ATTAAGGGAACACTGATTAAGATTTCCAGTTCCTATTGTTATAACAATGTATTTTATACATGTCTTTTCAAATACATGAGAGTTTTCCTTGAGT
AGTTACTAGAAGTGGAAAGTGCTGGATCTTAGTCTTATAGACATAGGCTTTTGACAGTTTCCGTACCCTGGAGCTGGTTAGGCGTAAAGTGGTT

TGAGGAGAGAAAAACTAGTGATATGTCTAAATGAACACAGGTTAAAAAGTAAACCAAACTTTGAAACAATCATTTTAACCCCCGGAGAAGGTGA
ATAGATTATTTTAATATGTAAGCAGATACATCTGCAAATCATACTGAGATGATTTTTCTATCCCAAGTGTCTGATAACATATATGAATAGAAAA
GCGAACAATTACAGAAACAGCCTTGACACTGACATGGTGACAAAGTATGGGGATTTTAGTACTTCCGAAATAAACATCAGAACAGAGATCAACT
CTCTTCGGTCTTTTTCTTCTTCCATTAGAACTCATCAGGCTGATTCCCATTTCTGCATTACTAGCCTTACTTTTTTTTTTGCTAGGCTCTGTGA
TGCAAGGAACAGAATCACTCAAGTAACCTGAAATCATGGGGCTTTATTACAAAGAGACACGGGGCTTTATTACAAAGAAACACAAGACTACAAG
GGAACTGAAAATGTCATGGTAGTTCTGGGAGAAATAGTGTTCAAGATCCACGGCAGCTCTGGAGAGATTAAGTGGTTACCAATTTAGCATTAAG
ATTATGCAGATAATTAATATTGCTCAGGTATTCTCTTAGTATTCCTGTGTGTGTTGATTTTCTCCCAATACCAAATCTTGCTTCTGTTCTCCAT
ATTTTGTCCTTCATATTCCCTTTTAAGACAGCTCTGGGCCGGGCACGGTGGCTCAGGCCTGTAATCCCAGCACTTTGGGAGGCCTTGGTGGGCG
GATCACTTGAGGTCAGGAGTTCAAGATCAGCCTGGTCAACATGGTGAAACCCCGTCTCTATTAAAAATACAAAAATTGTTGGGAGGCCGAGGCG
GGTGGATCACGAGGTAAGGAGATTGACACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAAATTAGCCGGGCGTGGT
GGCGGCCGCCTTTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGACAATGGTGGTGAACCCAGGAGGCAGAGCTTGCAGTGAGCTGAGATCGCGC
CACTGCACTCCAGGCTGGGCGACAGAGCAAGACTCCGTCTCAAAAAAAAAAAAAAAAAATTGGCCGGGCACTGTGGCTCATGCCTATAATCTCAG
CACTTTGGGAGGTCAAGGTGGGCATATCACGAGATCAAGAGATCGAGACCATCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAA
AAATTAGCTGGACGTGCTGGCACAAGCCTGTAGTCCCAGCTACTCGGGAGACTGAGGCAGAAGAATCACTTGAACCCGGGAGACGGAGGTTGCA
GTGAGCCAAGATGGTGCCACTGCACTCTAGCCTGGCAACAGAGTGAGACTTCGTCTCAAAAAAAAAAAAAAAAAAATTTGCTGGGCATGGTGGCA
TGCACTTGTAATCCCAGCTACTCTGGAGGCTGAGGTAGGAGAATCGCTTGAACCCGGGAGGTGAAGTTGCAGTGAGTCGAGACTGTAACCACTG
CACTCCAGCCTGGGTGACAGAGCAAGACTACATCTTAAAAAAAAAAAAAGACAGCTCTGCATGGCAGTTATTTCATCAATTACTTACCAAGCAAT
GAAACGGCTGCTTTGGGGTTGTGTGCCTACTTTTGGACAAATCACTTATTAATGTATTATATTCTTCACTCTCCCATCCCTCTTTGTTTTGCTT
TTGTTCCTAGGGTCTCATGGCCCTCATACGTCCTCTTATATTTTTTCTTTGATCTTCATATACTAAGGGAGGGTGAACCCCAGGCTTCATGGAA
CATCCACCCTTCCTCCTCTACCATCCACAATATCCTCATTTCAAACAGACTGGCTTGGCTTTTATCTATTTAAAATTCTAACCTTTTCCCTATA
GCTCGAATTTTGGCACTCAGGCCTAGAGATATAAAGAGTAGAGATTAAATATGCCACATTCTAAAGGGAAGCCAGGTGATGCCCTTACCCCAGT
AATCCAGAGCAGAAAGGATCCTACCATAGTCAGTATTCCCCTCCTCAACACGG

HUMAN SEQUENCE - mRNA
TTCCCCAGCATTCGAGAAACTCCTCTCTACTTTAGCACGGTCTCCAGACTCAGCCGAGAGACAGCAAACTGCAGCGCGGTGAGAGAGCGAGAGA
GAGGGAGAGAGAGACTCTCCAGCCTGGGAACTATAACTCCTCTGCGAGAGGCGGAGAACTCCTTCCCCAAATCTTTTGGGGACTTTTCTCTCTT
TACCCACCTCCGCCCCTGCGAGGAGTTGAGGGGCCAGTTCGGCCGCCGCGCGCGTCTTCCCGTTCGGCGTGTGCTTGGCCCGGGGAACCGGGAG
GGCCCGGCGATCGCGCGGCGGCCGCCGCGAGGGTGTGAGCGCGCGTGGGCGCCCGCCGAGCCGAGGCCATGGTGCAGCAAACCAACAATGCCGA
GAACACGGAAGCGCTGCTGGCCGGCGAGAGCTCGGACTCGGGCGCCGGCCTCGAGCTGGGAATCGCCTCCTCCCCCACGCCCGGCTCCACCGCC
TCCACGGGCGGCAAGGCCGACGACCCGAGCTGGTGCAAGACCCCGAGTGGGCACATCAAGCGACCCATGAACGCCTTCATGGTGTGGTCGCAGA
TCGAGCGGCGCAAGATCATGGAGCAGTCGCCCGACATGCACAACGCCGAGATCTCCAAGCGGCTGGGCAAACGCTGGAAGCTGCTCAAAGACAG
CGACAAGATCCCTTTCATTCGAGAGGCGGAGCGGCTGCGCCTCAAGCACATGGCTGACTACCCCGACTACAAGTACCGGCCCAGGAAGAAGGTG
AAGTCCGGCAACGCCAACTCCAGCTCCTCGGCCGCCGCCTCCTCCAAGCCGGGGGAGAAGGGAGACAAGGTCGGTGGCAGTGGCGGGGGCGGCC
ATGGGGGCGGCGGCGGCGGCGGGAGCAGCAACGCGGGGGGAGGAGGCGGCGGTGCGAGTGGCGGCGGCGCCAACTCCAAACCGGCGCAGAAAAA
GAGCTGCGGCTCCAAAGTGGCGGGCGGCGCGGGCGGTGGGGTTAGCAAACCGCACGCCAAGCTCATCCTGGCAGGCGGCGGCGGCGGCGGGAAA
GCAGCGGCTGCCGCCGCCGCCTCCTTCGCCGCCGAACAGGCGGGGGCCGCCGCCCTGCTGCCCCTGGGCGCCGCCGCCGACCACCACTCGCTGT
ACAAGGCGCGGACTCCCAGCGCCTCGGCCTCCGCCTCCTCGGCAGCCTCGGCCTCCGCAGCGCTCGCGGCCCCGGGCAAGCACCTGGCGGAGAA
GAAGGTGAAGCGGTCTACCTGTTCGGCGGCCTGGGCACGTCGTCGTCGCCCGTGGGCGGCGTGGGCGCGGGAGCCGACCCCAGCGACCCCCTG
GGCCTGTACGAGGAGGAGGGCGCGGGCTGCTCGCCCGACGCGCCCAGCCTGAGCGGCCGCAGCAGCGCCGCCTCGTCCCCCGCCGCCGGCCGCT
CGCCCGCCGACCACCGCGGCTACGCCAGCCTGCGCGCCGCCTCGCCCGCCCCGTCCAGCGCGCCCTCGCACGCGTCCTCCTCGGCCTCGTCCCA
CTCCTCCTCTTCCTCCTCCTCGGGCTCCTCGTCCTCCGACGACGAGTTCGAAGACGACCTGCTCGACCTGAACCCCAGCTCAAACTTTGAGAGC
ATGTCCCTGGGCAGCTTCAGTTCGTCGTCGGCGCTCGACCGGGACCTGGATTTTAACTTCGAGCCCGGCTCCGGCTCGCACTTCGAGTTCCCGG
ACTACTGCACGCCCGAGGTGAGCGAGATGATCTCGGGAGACTGGCTCGAGTCCAGCATCTCCAACCTGGTTTTCACCTACTGAAGGGCGCGCAG
GCAGGGAGAAGGGCCGGGGGGGGTAGGAGAGGAGAAAAAAAAAGTGAAAAAAAGAAACGAAAAGGACAGACGAAGAGTTTAAAGAGAAAAGGGA
AAAAAGAAAGAAAAAGTAAGCAGGGCTCGTTCGCCCGCGTTCTCGTCGTCGGATCAAGGAGCGCGGCGGCGTTTTGGACCCGCGCTCCCATGCC
CCACCTTCCCGGGCCGGGGACCCACTCTGCCCAGCCGGAGGGACGCGGAGGAGGAAGAGGGTAGACAGGGGCGACCTGTGATTGTTGTTATTGA
*TGTTGTTGTTGATGGC*AAAAAAAAAAAGCGACTTCGAGTTTGCTCCCCTTTGCTTGAAGAGACCCCCTCCCCCTTCCAACGAGCTTCCGGACTT
GTCTGCACCCCCAGCAAGAAGGCGAGTTAGTTTTCTAGAGACTTGAAGGAGTCTCCCCCTTCCTGCATCACCACCTTGGTTTTGTTTTATTTTG
CTTCTTGGTCAAGAAAGGAGGGGAGAACCCAGCGCACCCCTCCCCCCCCTTTTTTTAAACGCGTGATGAAGACAGAAGGCTCCGGGGTGACGAAT
TTGGCCGATGGCAGATGTTTTGGGGGAACGCCGGGACTGAGAGACTCCACGCAGGCGAATTCCCGTTTGGGGCCTTTTTTTCCTCCCTCTTTTC
CCCTTGCCCCCTCTGCAGCCGGAGGAGGAGATGTTGAGGGGAGGAGGCCAGCCAGTGTGACCGGCGCTAGGAAATGACCCGAGAACCCCGTTGG
AAGCGCAGCAGCGGGAGCTAGGGGCGGGGGCGGCCATGGGGGCGGCGGCGGGAGCAGCAACGCGGGGGGAGGAGGCGGCGGTGCGAGTGGCGGCGGC
GCCAACTCCAAACCGGCGCAGAAAAAGAGCTGCGGCTCCAAAGTGGCGGGCGGCGCGGGCGGTGGGGTTAGCAAACCGCACGCCAAGCTCATCC
TGGCAGGCGGCGGCGGCGGCGGGAAAGCAGCGGCTGCCGCCGCCGCCTCCTTCGCCGCCGAACAGGCGGGGGCCGCCGCCCTGCTGCCCCTGGG
CGCCGCCGCCGACCACCACTCGCTGTACAAGGCGCGGACTCCCAGCGCCTCGGCCTCCGCCTCCTCGGCAGCCTCGGCCTCCGCAGCGCTCGCG
GCCCCGGGCAAGCACCTGGCGGAGAAGAAGGTGAAGCGCGTCTACCTGTTCGGCGGCCTGGGCACGTCGTCGTCGCCCGTGGGCGGCGTGGGCG
CGGGAGCCGACCCCAGCGACCCCCTGGGCCTGTACGAGGAGGAGGGCGCGGGCTGCTCGCCCGACGCGCCCAGCCTGAGCGGCCGCAGCAGCGC
CGCCTCGTCCCCCGCCGCCGGCCGCTCGCCCGCCGACCACCGCGGCTACGCCAGCCTGCGCGCCGCCTCGCCCGCCCCGTCCAGCGCGCCCTCG
CACGCGTCCTCCTCGGCCTCGTCCCACTCCTCCTCTTCCTCCTCCTCGGGCTCCTCGTCCTCCGACGACGAGTTCGAAGACGACCTGCTCGACC
TGAACCCCAGCTCAAACTTTGAGAGCATGTCCCTGGGCAGCTTCAGTTCGTCGTCGGCGCTCGACCGGGACCTGGATTTTAACTTCGAGCCCGG
CTCCGGCTCGCACTTCGAGTTCCCGGACTACTGCACGCCCGAGGTGAGCGAGATGATCTCGGGAGACTGGCTCGAGTCCAGCATCTCCAACCTG
GTTTTCACCTACTGA

TABLE 8

MOUSE NOMENCLATURE
ICSGNM Tcof1
Celera mCG6035

HUMAN NOMENCLATURE
HGNC TCOF1
Celera hCG38609

MOUSE SEQUENCE - GENOMIC

TTAAGAAAGCTGGGGCCACTGGACAGTGGTGGCCCACGCCTTTAATCCCAGCAATTGGGAGGCAGAGGCAGGCAGATTTCTGAGTTTGAGGCCA
GCCTGGTCTACAGAGTGAGTTCCAGGGACAGCTGAGACTACACCGAGAAACTCTGTCTTGAAAAAAAAAAACTGAAGGAGAGGAAGAAGAAGAG
GAGGAGGAGGAGAATTNNN

TCCATCAGGCCACCCAGGATCCTGTGGGCAAGTTGCTTGACTCTCTGAATGCTGGCTCTCCCTCCTTCCAACTCCTCACCACCTCTTCTTCACT
CTCAGCAGACCTTGCCTCCCACTTGGAAGAGGAAAATAGAAGTTCAAGATGAAATCTCCCTTAACCTCCCACTGCAAACCCACATCCACATGCG
CTCCCATTCTCTCCACGAGCCTGCTTTGGGCTTCTATTGAAGTCCTCCCTCCTCCGTTCTCAGACCAGCCCTTCACCCACACCAATGCCTCCCT
CCCACGTACCCTCAGACATCGCTTCCCAGCTTCCTAAAATGCCCCCCACCACCCCATCTCTCTCCCCTGGATCTAAGTTGATTTTTAAACCAAC
TTCGGTCTCTTCCATCTCAAAACACTCCTCCCCCAATAACACACACACACACACACACACACACACACACACACAGAGTGTTAGTTCTTTTTCT
CCCCTCCACGCAAACCTGCCCAACAGCCCAGCATCTCCCCAGCCCTCCCACACTTGTGGTACCATTGTCCCTGCCCTGTTCTGCATGCAGCACT
TTCTGAGTCAGTCTTCAGTGATAGCAATCAGACCAAGCATGACCCATGTCCATCTCTTCTGGCCTTAGAGCACTTCCCAGCATTTCACATTACT
GAAACTCTGCGCTCAGCTCCCTCGTGAGCCCCCTCTGGCTTTGCTATTCTGCTGCAGCAGGCTTGTCTTTTGAACAGCCCTACCTGTGGGCATG
CCTCAAAAACACCTCTGGTACTACCTTCTTTCTCTCTGTGTGTTCTTGGTGGGCATGGTGTCTACATCTAGAGTCCCAAAGAACTTCTTTCCAT
TGACAAATTTCTTTCTTTTCTCTGACTCAGACCTCTAATTTGTGCCCAAACCAGGTTTCAAAGTACCTACTAGGGACCTGGGACTCTCTGGACA
CTTGCACAGGCCATGTATAATTCATATGGTGTCCTGTCCCTCTAGGGCTCAAATTGCCCCTGCTCTCCAACCAGCCTCAAGCTAAGGAAACCTC
TAAAATGGAGTCTGTCTTGTGCTGTCCCTTTGCGCCCTTCAGTCCCCACATCGGAGTCCTCCTGTGCCCTGCCAGCAAGGCCTTCACCTGGGGT
ATATAGCTCAGTGGGGAGTTCTTGTTTAGCCTTCACAAGGCTCTGTTCTCCAACCCCAGCACCCCATCCTGGGCAGCACACATACACACAGAGG
AAAGCAAACATCTATTTGCCTTTTGCCCTTTCTAGCCACAGGGTGGATGAAGTAGGACAGATTCTGCTTCTCCTCTGCCATTGCCTCCCTCAAC
CCTTCCCCAAGCCCACTTCCTGCTACCTCATCTAAAAGGTTCCGCCTACCTGTCTGCACAGACACCCCAGAAGACACACAAACACCCCAGAAGA
CACACCCTGAACTGCTTCTTGCTTACCATCCCATTCCAGCCGGAGTTAGTGGTGGCTGGGACCAGCTCTGGGGACCTCCATAGGTCATTGTTCT
ATGCCACAGATGTTGCTCCACCCTCTGTTTGCTACCCTGCTGCCTGCACCTCTCACCATTATTGATTTTACCCCTCACTCTACTCTCTGGACAC
TTGCACAGGCCATGTATAATTCATATGGTGTCCTGTCCCTCTAGGGTTCAAATTGCCCCTGCTCTCCAACCAGCCTCAAGCTAAGGAAACCTCT
AAAATGGAGTCTGCCTTGTGTTGTCCCTTTGCGCCCTTCAGTCCCCGAATCGAAGTCCTCCTGTGCCCTGCCAGCAAGGCCTTCACTCGCCTCT
CCCCTTAGTTGTAACCTTTCCCAGGGCAGAACAAGGTTAAGACAGAGTGTCACTGTATAGGTAGCCATGGTTGTCTTGAACTTATTATGTAAAC
CAGATTCGCCTCCAACTCAGAGCAAGCCTCTGGTCTCTGCCTCTGGAGTGCTAGGATTTCAGGCATTGGACACCACCCCAGCTTCAGCCATAC
CATCTGCCTCAAGATCTTCTACCAGGTGCCCCTCTGACCAGGTGCCTCTGACCAGGTGCCTCTTTTACCAGGTGCCCCTCTGACCAGGATTCTG
CTGATCCAGACTCCCTCACACCTAGCTCAGGTTTCTTCATAAACACCATTTCCTCTGGGAATCCTTCTACTTCCCCTAAGAAGAGAGAGATTCC
TTCTTCCTGTTATTTTACAGTAATTGCTAAGGTACTCAGTTCTATTGCTAAGGAGCTTTCTAAACATTTCTGCTTAGAACGCCCTTCCCCTTCC
TGACAACTCTTGGAGGTAGAAAATGGTAATTATCTCCACTTCTCAGATAAACCAAGGCACAGAGAATGCCTAGAATTGCCAAGCTCACTTAATA
AGAAACAAAGCCAAAATTTAAATCCAGATCGTGTGACTTCAGTGTAGCTTTCAGACACCATACCATTCCACAGGAAGAGGCTATCCACCCTTTG
GTGTACGCTACAGCTATTTGTTTAACAGGTACCTCTCTCATTAGCCTTGGAAGTTCTGCAGACGTATAGACCATGTGGTCTCCAGTAGTAGGTA
TTCAATAAATATCTGCCTGGTGTCTGAATGTAGATTAGTCTCCTGTGTCCTCACACACTACGTACCACCCATTCCTGTCACCTGGTCCTGTGTG
CTTCTCCCTGGAATGTGCATTTGTCACTTTTCTTGTCCCTGTGGCCAAATATCACAAGAACAACTTATATTAGAAAGGTTTATTATGGGGGCTG
GAGGGATGGCTCAGCAGTTAAGAGCACTGACTGCTCTTCCAGAGGTCCTGAGTTCAATTCCCAGCAACCACATGGTGGCTCACAACCATCTGTA
ATGGGATCAGATGCCCTCTTCTGGTGTGTCTGGGGAGAGCAACAGTGTACTCACATATATAAAATAAATAAATAAATCTTTAAAAAAAGAAAGA
GGCCAGGTGGTGGTCGCGCACGCCTTTAATCCCAGCACTTGGGAGGCAGAGGCAGGTGGATTTCTGAGTTCAAGGCCAGCCTGGTCTACAAAGT
GAGTTCCAGGACAGCCAGGGCTACACAGAGAAACCCTGTCTCGAAAAAAAAAAAAAAAAAGAAGAAAGAAAGAAAGAAAGAAAAGAAAGA
TTTACTATGGCTCACAGTTCACAGGCCATGAAGGAAGGAAAGATGGTGGCAGGAGCTTTGGTTACATGTCAGCTGACCAGAAAACAGAGAAAGA
AAAATACAAGCAGGCCCTACCCAGACATATCCACAGGAGTATCTCTTAGGTAATTCTAAAGTCCAGTCACCACTAAGGATTAATTATCATATGT
GCTTATGTGGGTCCTAAACTTTCGTAGAAATGTATGTTGACACATATTTCTAGAGTGAAAGCTATCAGCAGATTTCCAACCAGTCCTTGAGGAA
CAGCCGCCTCAAATATTCCCAGGGTACTCCCATTCTCTCCTGGTCAGTGCCTCCTCAACAAACACAGTAGCCTACATCCGGAGTCTTTTCTGTA
TTTTGGACTTTCTTCTTCTCCCAATTCTACAGCCTAGCAGTACAGGGTTCTGTTTGGGGTTCCCTTACCAAATACCAAGGTGGTTCTCACATTCTG
ACTCACTCAGTACCTCCAGCCTCTCTGTGGTGCTTAAAAGTTCCTGCTGTCTTTGGGGCTAAATTTAAATGTCTCTTGGGGGTTGGGTGCTCCT
CCTCCATGCTTCCATGAGCTCTGACTTCTCTCGACAAGGTGCACCAGACATCTGAACTGTAATTACTAGGTTATTCACTGTGTCTCCCACATGG
GTGATTTTTGAGTCAACTGTTTGCTTTGTTTCTCTTTACGTGCTCCTAGCCTAGCTAGGCGCGATCCAAACATATAGAGCTCAGGTAAGGGTTT
GTTTAGAGATTCAACACACTAGTGACATCTCATGCCTCATTCATGGATCCTAAACACTGTGTGAAATGAATACTCGGAAGCTGGGGACAGTGAT
CAGGAAGTTCAAAACTGAATAAAGGCGCCGCAGGCATCAAAAAACCTAGACAGTAAATCCCTTCAAAGGGTAAGAATTAAGATGCAGGAGACTT
TTTTTTTTTTTTTTTTTTTTTAAATCATGGCGGCCCAGAGGGCGGGTCTAGATCGGGACACGCCTTCGAGCCAATGGCAGAGCTAGTTAGCCTT
CGTGGCTCAGCCCTCTTGGATGGGATTGCCCACTCCAGCTGCAAGACTACACTTCCCAGCGTGCCGCGCGGCCCGGTGACGCGGAGCCGGAAGT
GAGGAACATGAGGTTCTAGGGCGCGAGGGAAGCGGCTAGCGGGGGCGAGGGGGCGTGCACGTGAATCCCCTGGCCAGATCTCTGGCATGGCCGA
GGCCAGGAAGCGGCGGGAGCTGCTTCCCCTCATTTACCATCATCTGTTGCAAGCAGGCTACGTCCGCGCGGCGCGGGAAGTAAAGGAGCAGAGC
GGCCAGGTAAGCGTCAGATGGCCCAGTACAAGATCTAGAGAGCAGTAGCCCGCTCCCCTCCCGGGAGACCTGGCCAGCGGGAGTCAGAGATGCG
GGCTAGGGTGGAGGAAGAACATTAAGCTCTGCTCTACTCCCTGCGACTTATAGCCACTTCCCAGGGCTCAGTTTCCCCATGGGTGCAGTGGGCG
GGCCGGAAACTGGTCCAACTAGTGCAGCTTTGTAATTCCCGCCCGGGTTCCCGGTAGCGGCAGGTTTAAGTTTCCCTAGTATCTGGCCACGTGG
CTCTATGCAGTTTCCCTGGGACACCACATGGGAGTCCAGCTGGAGTGGATTGTCACCACTGTTGTTGGGAACACGGAGACGAAGGTCCCCTAAG
TTGATGATCTAGAATGCAGGGCGTGCAGGCAGGCCCTTGGCTGTCTTCGGTTATGACAAGACTTGAACCCGTGGTGCGGTGATTTCAAAGTTCA
TTCATTTGGCAACTTTTGTTTTGTTTTGTTTTTTTCGAGACAGGGTTTCTCTGTATAGCCCTGGCTGTCCTGGAACTCACTCTGTAGACAGGCTG
GCCTCGAACTCAGAAATCCGCCTGCCTCTGCCTCCCAAGTGCTGGGATTAAAGGCGTGCGCCACCACTGCCCGGCTGGCAACTTTTAATTTGGC
CCTGTCGTGCGGATGATGAAATGGGACGCGCCAGTTTCAGACTCCTCTGCCCGTCTCACAGCCTAATAGCTGGTACAAAAAAAAAAAAAAAAAA
AAAAAACCCAAAGTGACTGTACAGTTAACATATTAAGCTATAGAACGAGAAATTGGAGATGCTAAAACATGGGTGGAAGAACCTGGGTGGGAAA
TATCCAGGACTGCTTCCCTAAGGATGTAGTAGCTGATCTGAGATCTCGAGGGAGATGGGTATTAGAAGCTCTGATGCGAGGCTTCTGAGTGTCC
TAGCCACCAGAAAGTTTGCTGAGCCTGAAGTTTGAAATACATGACTTGGAATGGAGTCTCCCAAAGCAGACAGACAGGAATGGCTGATGGGTAG
TCTTCCCAGAACTGTGTGTGATTAAGTCACTGGTGAAATGGATATTGACCTGGAGGATCCCGGGTGTTGTAGTGTCTGCCTTTAATCCCAGCAC
TCTAGAGGTAGAAGCAGGTAGATCTATTTTTTTTGGGGGGGGGGGCAGGGGGGTGTTTTGAGACAGGGTTTCTCTGTATAGCTGGCCTTGAACT
CAGAAAGCCACCTGCCTCTGCCTCCCAAGTGCTGGAATTAAAGGCATGCGCAACCACCGCCCAGTTGGTAGATCTCTTAAGTTCAAAGCTAGCC
TGGTCTACATAGTGAGTTCAAGACCAGCCAAGGTTTGCATAATGAGACCCTATCTCAAAAAAAAAAAAAAAAACCTTAAGCTGGGGTTGGGTGCA
CCCTGAGTTGGCCCATAACTTTAATCCCATCACTCTGGGGACCAAAAAGGATGGATTTCTGTGAGTTCAAGGCCGGCCTGATCTACATAGTGAG
TTCCAGGACAGCCAAGGCTACACAGAGAAACTCTGTCTTGAAAAACAAAAAAACAGACTTAAAGCCCAAAGTTGCTGGGCCCTTAAGATGTTAT
CTATTGCTTTCTTAATCTTCCTGTATGGTTCTCCATGTCCATTCATACTCAAACTATAAAACAGAGGAAATGGGTTATAGTGCCCATTGTTGTG
GTTCCTGTGCCCAAGCCAGAGTTCCCTGCTCTCACAGAAAAGATGCAAATACAAACAAACATACATACATACTTAAATACATATATGTAT
GTGTATTTAAGTATGTATGTATGTGGCTTAGCATATTGTGGCAGGTGCTGGCCATAATAAGGCTAACAAGTGTCAGCCCTCGGTTATAATTAAG
ATGGTCAGAGAAGCTTTAATGGGGAAGGTGACGTTGGAGTAGAGACTAGAAGGAAATGAGGAGATAGGCTGTGTGGTTGGCAAGAGAGAGAAAG
TCTCAGTAGCAAGAATGGCAAAGCCCTGTTAGGAATTGGTAGCCCAATATACTTTGTCATGACGATACAGTTGGAGCAGGATGGAACTGACTGA
CTGACTGACTGGACTGTGCCCTTCAGACCTGACAGGGTTTCTCTGTATAGCCCTGGCTCTCCTGGAACTCACTCTATAGACCAGGCTGACCTTG
AACTCAGAGATCTGCCTGCCTCTTATCTCCTGGGAGTAGAGGGAGATACTATCCATTTCCCTCTTACATTTATGGTGCTGTGAAGAAGGATCCT
GAAGTTGGCAGAGGTAGAAGATGAGCTGAACGGTCCAATAGGTGCTCTCCCTGACTCCAGGCCAATCTGTTTCGGTGCTAGCATGTTCTTTCCT
TTGCACATGGCTCTTTGGAGTCCATTGGAGCTATTCTTCAGTCTTAATGGTCACACAGAGTGTGTCCTCACCTTAGGCCTGGATTCTACCTGTC

AACCTCTGTTTTAACTCCGACCCTAGCACTCAGTCTCTTTCCAGACATCCACTGGGTTCCGTTATGTCACGTGGAAGCTTTCAGGGTTTGGGCT
GTCTTGTATTTGGGGGAAGATTGACTAGCCAGGAAGCCCTGTCATGTGGCTTCCATCCCTGTACTGTAGTAGGATGCTGGGTAGTGCTAGTTTG
GACTGTTGAGTGCCTACCTCTCAGAGGCGCCCCTTTCCGATGTATCCTATTGAAAGGTTTGTAGCTGGAACTGTTTGTCCTTCTTGACTCTGGA
AGACTGTGAATGGTGCTGGTGAAGCCCAGAGGACCTGGAAGAGCAAACGGCATTTTCCAAAGCACTTGTTGCAGGCCCTGATGTCAGGGAGCAT
CAGGCCCAGGGACGATGCCTATCGTGTTGGGTATTTTTTTTTGAAGCTCTCTCTCTCTCTCCATTTCTCTACAGAAGAGTTTCCTGACTCAGCCC
GTCACCCTTCTGGACATCTATACACACTGGCAACAGTAAGTCTGGTGGAATGGAAGGGAGGGAGCAGGGATACCCTAACACGTCATCTTTGCAT
TGAGCTAATATGTGAATGTGTTCTAATGGCCCACTGTGGGCATACTTGTCACCTTCATTTGGTCAGTTCCACCTCCCCCACTTTCCATGTGTGT
TCTGTTTTAAAGAGAGGATCTCACTATGTAGATCAGGCTACCCTTGAACTCACGGAGATCCTGTTGCTGCTGCTGCCTCTTGCATGCTGGGACA
ATTGGAGTGTGTCTGGGATTAAAGGCGCACGCCTTGGGAGGCAGAGGCAGCCTGGTTGGTCTACAAAGTGAGTTCCAGGACAGCCAGGGCTACA
CACAGAAACCCTGTCTCAAAAAAACAAAACAAAATAAAACAAAACAAAAAACCAAATGCTCACACCTTTAATCCCAGCACTCCGGGGATATTGA
GGTAGTCAGGTCTCTGAGTTCAAGTCCAGCCTCGTCTACAGAGTGAGTTCTAAGAGTCTCAAGAAATAAAGGAAAAGAAATGGAACAGCTGGGT
TTTTATTTTTTTATTTTTGTTTTGTTTTGTCTTTTCAAGACAGAGTCCCTGGGTAGCCCTGGCTGTCCTGGAACTCCCTCTGTAGACCAGGAAT
TCAAAGATCCACCAGCCTCTGCCACCCGAGTGCTGGGACTAAAAGGCATGAGCCTGCACGGCCTGGCTTGTTTCTTCTAGGTTGTAATCAATGC
GGCAGGCACAAGTCAAAGGAGATGCTAGTGGTAGTGAGAACTAGTGAAGGCAGGAGCCTGGCGCCCAACCTGAGCGCTTACCATCTGAGCTGCT
GAAAAGTGAGGTTGGTAGTGACAGTTCTATCATGGCAGCACCGAAGGCAGGGGATGCCAGGCTCCGGAGGAGTACTCGGGTCAGTGAAAATATT
GCCCACCCTCCCTCCATACTTTTCATGCTCCTCTGCTGCTCGACAAGCTCGGAGCACGGGTGCGTCCTTGCCCAGGTGTGTGGGTGTTGCTTTC
TGTGCTTCCTTCCCCAGCAAACTGTTGGAGCTGTGCCACACACAGTTTCCTGCCTCTGCCCCCTCTGTGGGTGAGGGGTACAGAGTGGGCCAAA
GATCTCACCCACTGAGCCAGTCCAGAGCAGCGATTACCTATCAAGTCAAACCCAGTAAACGAGCTACATGACCTTGAGCAACGTTTGTGACCTC
CTAGAATAACATCATCTGTAAAGTGAACTCTATCATCACGTATTGGGAAGAAGTTCAAACACAGTGATCTATTTGATAACAGTCCTAAAACTGG
CCAGTGAGATCTGTCCTGGCACTGGTCCTCAGATACTACATTCTTGATGTTACAGAGAACAAGCAAGAAGGGGGGGAAAAAAAATCCCTGTTCT
TGTGAAATTCACATTCTGTTGGGGGATGGGGTGGGGGGGTGGAACAAACTTATACCTGTAATAAAGCCTCTTCTAACAGCTTCCTGGCAGGTGG
CCTTCCTAGGAAGAAGGAACCTGGGTAACACAGCCCAAACTGTGGACAGCAGTGTCAAACCCAGCTAGGAAGAATGGGGCTTAATGACTTCCTG
CCGGTAGAAGGGTGGAATCAAAGTTCAAGGGACTAAGCTGTCTGAAGACTTACAGCACGCGTGCGCGCACACACACACACACACACACACAC
ACACTCCCCACTCTGCTTCCTTCCAGACTCCAGTTCGATGGTGGTTCCTTTCTCTAGGTGTGTGCCAGATACTGGGTGGGATGCTGTATGCTCT
CTGGGGGCCTGTTTGTATAGTAGTGGAGTCGTCCAGAAATCAACCAGAGAAGGAAACGAAACTGAACGCCAGGGCGGAGTGCTGGGGGGAGGGG
GGAAGGGGTGTCAGCAAAGATGCTTCACGCCAAACTCGAGAGTAACGAGAGTGCTCCTTCCTCTTTGATGACTCTAGCTTGTGTCAAGTTAACT
GGCAAAACCAGTCAGAGCTGGGCGTGGTGGCGCACGCCTTTAATCCCAGCACTCGGGAGGCAGAGGCAGGCGGATTTCTGAGTTCGAGGCCAGC
CTGGTCTACAAAGTGAGTGCCAGGACAGCCAGGGCTACACAGAGAAAACCTGTCTCGAAAACCAAAAAAAAAAAAAAAAAAACCCAGTCAGGAC
AGCACCACAAGAGAAGGACGCAGTTCTAGGGTCGGGAGAACCTGGATGGTTCTGTGCAGCCTATGGGCTGTGGCCAGTCAGCCGATAGTAGTGA
GTGAGCTGCTGCCGTCCTGTCACCTCGTCGGCTGCTTGGGACCCTGAGACTGGTTAAGGTGCATTAGGAAGCGGGTGAAGAACAGATCATTTCT
GCACTGTGTCGGCGCCACTGTTTAAACTCTGTGTGCCCATTTCCTTTGAAAGACTGAATAGGTAAACAGGTATCTTTCCAAACCTCATGGATTT
GTCCCATCTCCCCTGCCCTGCAGGACCTCAGAGCTTGGCCAGAAGCAGAAGGCAGAGGATGATGAGACCCTTCAGGCTAAGAAGTCTCGAGTGT
CGGATCCTGTTAGCAGCTCAGAGAGCTCGGATCAGGAGAAGGAAGAGGAGGCAGCAACCGAAAGGGCCAAAGCCAGTAAGAGCCCTCCTTGCTG
TGTGAGATTGGGACCCGCCTTGGCAGTTGCGGGCTTCTAGTCTGCTCTACCGGGGTGTCTGCCTCTGAATCATTGTTTAGTGTCAAACAAGAAA
AGGTGGGGCTTCTCAGAGGGAGGTTGTAGTACCTGGGAGGCCTTCCTTTGGCAGGCATTTTAACCCCTGAGGGCAGGCATTCTAATCCTCTGAG
GATCCAAGGATGAATCCTAAGATCCCAGGAGGCTGGGTAAAGTGGCGCACACTTTTAATCTCAGCACAGAGACAAGTGAATCTGAGAATTTGAG
GCCAGCCTGGTCAACATAGTAAGTTCCAGGCCAACCAGGGCTACAAAGTGAGAACCTGTCTCCCCCCCCCAATCTCCCTTCCCCCAAACAGGATG
GCCCACACAGTCAGTTGCTCAGTTCACTTCACAAGGACTGTTTCCACAGCTCCTGGATGCTGCTGCTAGGCATGGGGGGGGTGG
GGGGGAGGCATTTGTGCAGGTGTTGAGTCCATTTCAGAAGGTTGATAGTTCTGGCTTCTGTGTGGCCCTGGGGCTGCTTTCAGACTTGCTGGTT
GTTTTAGTTACTGTTCTGCTGCTATGAGGAGGCACCGTGAGCAAAGCAACTGACATAAAAGGAAGCATTTAGCTGAAGGGCTGGCTTACAGTGT
CAGGGGAGTTCATCCATGATCCCCATAGCAGCAGCCAGGCAGGCATGGCACCGTAGCAGTTCCTGTGAGCTTACATCCTGATCTGTAGACAGTG
AACAGAAAGCTGGAGACTGGGCTTGGTGTAGGCCTTTGAGACCTGGAAGCGCACCCCCGTGATACACCTCCATCCACCAACCAGGAACCAAACA
TTCAAATATAGTCTCATTCAAACCACCATACTAATTGTCCTCTTATTTTGGCGGTATGTGGTGGGTCTGGTAGCTATGTGGCCTCTTCTCTCCT
GACAGAAGCAGCTAGAATGCTACACCCAGCAACTGGCTGTGTCTCTGTGTCCCACAAATATCATATTGCTTATACAGAAGACAGTTTCTTGATT
TTTAAGTAGGTTTTCTGCTTATAAAAGAAGTGCAGGATTTATTATAAAATGTTCATTACAGAACATTTGGAAGTTGTTTTAAGAAAAGGCAGGG
GAGAAGTCACCCACATTCTTGACATCTATACCCCCACAATCTTGTCTTTCATTATTCCTCCTGTGTATGTTCTGTCAGATGCTCAAGAGGACAT
TTTCGGTGCATATTTTATATCTTAATCTTAAATTATAAATGCAAAGCAGGTCCAGTTTATAGACAGAAGCACAGAGAAGGGAAATGTAAGAATC
CTTGTTGCCAGCCCCATCACTTCCTACCCATGTCTCTTGGTCGGCAGCCCATAAACCTGCCCTGTTGCTTCCAGTCAAACAGGAGTCCAGCTGT
GTGCATGTGGACTGACCCACAGCGGGCTTCAAACAGAAATGGCAAATGCTTGTGCTATTAGGTATCTGATAGTAATCGGTTTTTTTAAAAATAC
CTTACTCTTTAACAGTTTCATACAGTATGTGTTGATCATGCCCATGCCCAGCTCCCCCGGGGCACGCCCCCAGTATGTCCCCTCTCCTTAGTAC
CCTCTTTTTTGTTTCCCGAGTTTGTTTTTTTATTGTTGCAATCAACTGGCTGGATCCAGTTAGTGCTGCCTGCAGGGTGTTGACTGATCCTGTGT
AGGTCACCGGGCTACATCAGGTTCATGAGTATGACCTTGTCGTGACCATGTTTCATCAGCTTTGCATTCTTTTGTTTTTGTTTTTTTG
TTGTTGTTATTGTTTTGGGTTTTTTTTTGTTTTTCGAGACAGGATTTCTCTATGTAGCCCTAGCTGTCCTGGAACTCACTCTGTAGACCAGGCC
GGCCTCTAACTCAGAAATCCACCTGCCTCTGCCTCCCAAGTGCTGGGATTAAAGGTGTGCACCACCACTGCCCAGCCAGCTCTGCATTCTTTTT
TTTTTTTTAATATTTTTTTTATTAGGTATTTTCCTCATTTACATTTCCAATGCTATCCCAAAAGTCCCCCATACCCTTCCCCCCACTCCCCTAC
CCACCCACTCCCACTTTTTGGCCCTGGCGCAGCTCTGCATTCTTAACACCATCTATTCTATAATGCTCCCTGAGCCATGTAGGCTTGATAAATG
TCCCACTGAGGGCTAAGAGCTCAGGTGTCACTCAGTCTCAACTTTGACAAGTTAGGAGTCTCTGCATTGCTATTGCAGAAAGGTGAATGTGTGT
GCATGCGTGTGTTTGAAATGTTCTCATGGCAAACTGACAGTAGTAAGTCCCATCACTTATACCCCCAGCCTACAGTCTTGAGCTAGTAGTCACT
TTTAAGAATTATTTATTTTATATAT

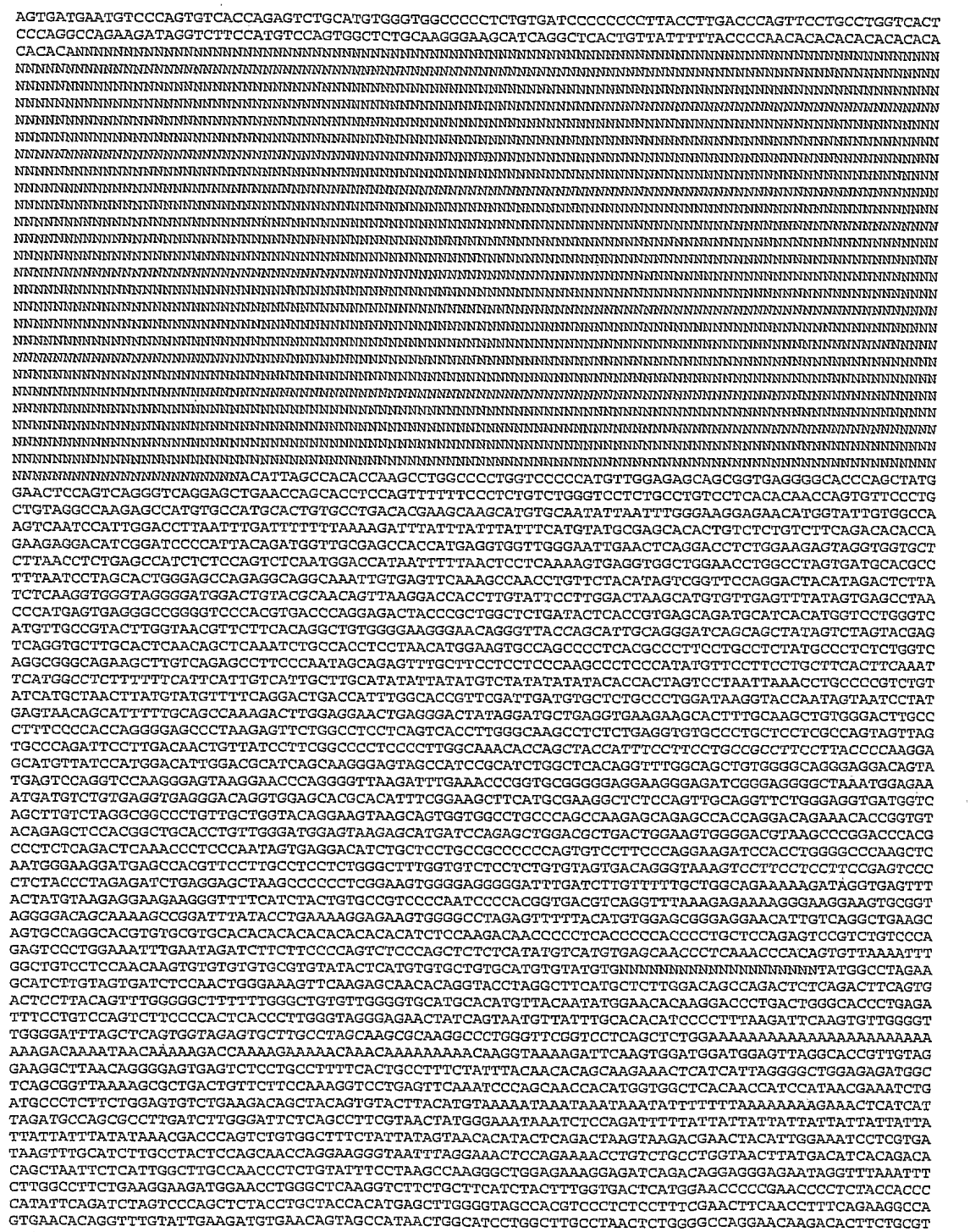
GCTATGCCTCGGGTGCCTTTTCTGTGAAACAGAAGTGATGCCTCAAACCACACACTTGGGCAAGTGCCTTCCTCTGTCGTCCTTGCACCCACTC
ACCGGTTGTATAAACAGCTCCCCTCCAGTCCCTGGTGTGCTACTAGGCCGTCAGTACCATCATAAGGAATGCACTGTACACATTTTCTAGATCA
AAAAATACTTCAAAAATGTCATTTTCCAGTAATCCATACACACTGTTGCAGACACATAAATGATGTGTCACCCGAACCAGGCGATAGCTATCGT
ATGTAAAAGCAATGATGAAATAATAATAGTATCACAGTGAACTATAGCTTCATGTAAAGTAGGAACTACTCTGACCCAGAAGCAGTAATGCTCC
CTTAATGCTTGTGTGGAAGGCATCTTTGTCTTGCTGTAGAGATGAGATGACAAACCAGTGGACTGTGAAAGGCCAGAGCTGGCTGCTCTTAGTC
TGTGGGAGAGGTGGGACACTCAGAGAGCTCGGAAGTCGCCTTGTAGGACCCAGTGTCCTCCTGATGCTTTTCACATGTCCTGTCATGACAGAGT
GCTCATCCCTCCCATACTCTGTAGGGAAAGACCAAGACAGCCAACAAGACGGTGAACTCTGTGTCGCACCCTGGGTCCGGAAAGACGGTGGTCC
ACCTGCTCTCTGGGAAGTCACCCAAAAAGTCAGCAGAGCCCTTGGCAAACACTGTCTTGGCCTCAGAAACTGAGGAGGAGGGCAATGCCCAAGC
CCTCGGACCCACTGCCAAGTCTGGTGAGACCCCCAGAGCCTGGGGCAAGGGGTCAGGACTGAACACTGTGGAGAGACATTCTGAGTGTGGGTTT
GTCTCTGACAGCCAGGGTCTTACAACAGCCATTTCCACCTTTTCTGACTTCCTAGACTATTTTAAATTTACTTTTATTTTATATGCATCGGTGA
TTTGCCTGCATGTACATCTGTATGAGATATCACACTTTGTAGTTATAGACAGTTGTGAACTGCCATGTAGGTGCTGGGAGTTGAACCCAGGTCC
TCTGGAAGAGGAGTCAGTGCTCTTAACCTCTAAGCCATCTTTCCAGCCCGCTATATGGGCTTTTTAGAGGGTGGCGTTTCCGGCCTTCTCTCTC
TGGTGGATTATAGGGAACACTGTGGTCACCTGGAAACTAAATGAAAAGGTGTAGGTCTTGATGCAAAATAGGCCTTTGCCCAGCTTGTCCCCCA
TTCCCCAACTTGATAGCAAATAGTGACTTGATTAACTAGCAGGTACTTCTAGCCTTTCCAAGACCTCAGAGAGGCCTGCAAAAATAGGTAGTGA
GGGTCCCTGTTCCAGCTAGGGGACTTTGGGTCAGAGCAGATAGCAAGCCCTGTACAGTTGAGAAGCATGTGCTACCTAGGTTTGACTAACAACC
TGCATGGAGGCTCTGGGAGGGGAGAGGACTGTGGGAAGGATCCTTAGTCCCCTGTGTCCCCCCCCTCAGGAACGGTGTCAGCGGGCCAAGGCAG
CAGTTCCAGTGAAGATTCCTCCATCTCAAGCGATGAGACAGATGTCGAGGTAATTGCCACCCATCCCCAGGGATTGATCTCTTCCAGCTTCTGA
CCCTCTCTTGCCAGTGTTCAGATCCCAGTGGCCAGTCATCAGCCCAGCAGTTGTGTCCGACAGCTGCATGGTTACAGACAGGGCTAGGCAGTTG
GAGAATGAGGACCTCAGTACTGCTCTGGATATGCTGGGTATCAGAGTCCAGTGCTGGGAGAGGAAGACACGGGAGCAGAGACCTGAGTAGGAGT
AACTGGGACATGTGGCCAGGGGTAGGACTGCCTCGAGGATTCTGAGCCCAGTGGTGAATGTGCGTTTGGGGATAGAATTGGATGGGATCCTTGG
TCTGCAGCCTTGTCTCTTTGTAGGATCGTTGGGGGGGTGGGGGGTCATCACAGGGTTTTATGCACCGAAGTGAGGTGGCCTGGCTCGCATCTCA
AAAAGATTGCTGTAGCGTGGCCTGGAGGAAGATTTAGAGTAAAATTAGTGAGGCCCACTGGCAGACTGTCAGGTAACAGCCACAGGTGCCAGTG
GCAGGAACCAGTATGCCCCATATGTATGACATATATTATTTGGCATAATAACCAACCTCTACCCCAGTACAAAGCCACAAGCTTATAAAAACAA
AAGACAAAAACCATGAGGGTGTTTATATTCCAGTTGTTGGATCTTGGGCATGAACTTTGTAAATCACAAGACTGTATCACACTTTCAAAAGGTT
GGACATTTAAGGGGGTAGCAGGAGCCAGGGATAGACTGTGCCTACGCAGCTGCCCCACCAAACCCAGTGGCCCTGTGTAGCCCGAGCCATCCCC
TTCTGTTCAAGACTTGACCACAGCTGTTCCCTGCCTGCCGTCTCTCTGTTGGGCCCTGAGTGTAATAAGGCCCACGGGATTCCTCTGTGTCCCT
TTACTCCAAGCCTTGCTCCCACAAATCCAGCTCCTACGTATACGTATACAGCACGTGTACAGCACTGGCAACAGGAAACCAGCGCGGAGCTCCT
GCCGCTGCGTTTGAAAGAGGGTGGTGCCATAGGCTGGTGTGGGGCGTGAGGGGCAGCGTGAAACAGGCGCTGACTGGCCTGCTGGCTACCTCAG
GCCTGTCGGGATTTTGGAATGCTAAGGAAGTTCCAGGAAGAAGTTCAAGTCAGTGCAGATCCAGGCTCCTCTGTCCGGAAAGTACCTCAGTCAG
ATGCTTTTTAGTTGAGTGGCCCCTCAGGATGGACCCTCTTATAAACATGTCAGTGGGCAGGCAGGTGCGGTGGCCGAGTTCTGCCCCAAAGGTA
GCCAGGGGTCCTTATAAGCCTTTTGTGCTGCCCTTAAATGATCTGTGCCTTTTTAGGAGAAGGGTGTAAGATTCTGTCTGCCTCTGGGAGATGG
AAAGGAACATGCTTTTAAGAAGGGGCTTGTATTCCTTTTCTGTTGCTAAGAACAGCCCCCATAGGCTCATCTATCTGAATGCTTGGTCACCAGG
GAGTGGAACTATTTGAAAGGATTACAAGGGTTAGGAGGTGTGGCCTTGTTGGAGAAACCCCATCACCGCTGGGGGTGGGCTCTGAGGTCTCAAA
GGTTTCCAAAGTCCTTTTGTCTTTGTCTACCTGTGGATCAGGCTGCAGCTCCCAGCTACTTCTCCAGCAACACGTTCTTCCTTTTAAACGACCA
CCTTGGTCACGGCGTCTCTGCACAGCAATAGGGCAGTGACTCAGACGCCAAAGCAAGTTTTTTAAGAAAAAAGTTTAGTTGAACTTATGGTTTC
AAAGGGTTAAGAGTTTGTGACGGCAGAGCAAAGGCACAAGAACTGGAACCGCTCGGAGCTCGAACCCCGATTCACAAGCAGGAGGCAGTGAGAA
AACGCAGGGCATAAGCCTACCCCAGTGACACACGCCCTCCAGCGGGGCAAACACTTCTCGTAGTTGGGAGCCTATGGGGCCGTTCCCATTCAGA
TTGGCAGAGAGCTGACAGCAGAGGGGGAAGGCTCTCATGTGCTGCATCTCTTGCCTGCTTCTAGGTGAAATCTCCAGCAAAACCAGCCCAGGC
CAAAGCTTCAGCAGCCCCTGCCAAGGATCCTCCAGCAAGAACAGCCCCAGGCCCTACCAAGTTAGGGAATGTGGCGCCCACACCTGCTAAACCA
GCCAGGGCGGCAGCGGCAGCTGCTGCTGCTGCTGTGGCTGCTGCTGCTGCTGCAGCAGCAGAAGAGTCTGAGAGCAGTGAGGAGGACTCAGACA
GTGAGGACGAGGCCCCTGCTGGTCTGCCCAGCCAGGTGAGTCCAGGGGCTGCTATCCGTGACCCGCTGCCTGTAGTTCCCCCCCCCCCCATGCT
GGCAAAGCCACTGTGTGATGGAGAACTCCTGAAGAGGGCCCATTCTAGAGAGAGAAGCAATGGCAACTGGCCAGGGGGCTTCGGTGCCTGTGGA
AACGTCCACTGGGCCCACACCGCAGCCAGAGTGGCTGATGCCTTTGGGGAGTTGGGGGGTTGTCCTGCACCTACTCTGGTGATGATGTTAATTT
TCTTGGTTTTCGTGTGTGGTCAGTGTAGCTGCCCTCAGCACAGCTGCTCGGAAGAGACCTGAGGCTTTCTTCATTCTGAGTCGGTTTCCCTATA
GCCCAAGCTGGCCTCTAACGCATTCTCTTCCTGCCTGAGCGCCCCAAGTTTGGGGGCTACAGGCACGTGCTATCTTGCTGTCTTAAGTTTTCTA
TCGCTTCAAAGAGTCGTCATCACAAAGCAACTTATAAAAGCGAGAATTCAAATGGGTGCTTGCAGTTCCATGGCCGTCCTGACTGAGAACATGG
TGTCAGCCAGGCATGGCACTGGAACAGTAGCTAAAAGCCTTAAAACTGGTCCACAGGCAGAGAGAACGCTACCTTCAAAGCCATTTAGTACACC
TTCTCTAATAAAGCCAGGCCTTCCAAACGCTCCCACCGATGGAAGGGGTGGGGATGGGGGAGACACAGCAAGTATTCAGATATCACATGTGTCC
CAGTGAGTCCTGAGAATGTTCAAGGGCTTGGTTCTCTCTTTAGCCAAACCAGACCCTGAGCCGGCAACCACCAGAGAGAATCTCTTTTGTTCCT
CTTCTGGGGCCTTTCCCATGGAGTGTAATTCAGATAGCAGTCTCACAGTCCTGCACACATGCTGGGCGGAGCAGAAAGGGCTGGAAAGCTTTTA
GAGGTAGAACAAGAAGAAGTGAAGGGGTCTGTATCCAGGACTGGGGCAGGGGTAGGGGGTGGGGCGGGGGCATGGCAGTTATTAAAATGTTAAA
GAAGAGTTGGTTGACAACATGAAGTGGACAAGGAAGGACCCAGAAGGAGATGTGACCACAGACCTATAGTTGAAGGGTGTAGAGGATATAGTTG
GCTGCTGAAGTTCTGTGGCAATAACTTGGGACCCAGCCTACTTGGGGCTGCATTGTGGGTATTGGTTCATGTCTGAAGAGAGGAGCCAAATGCA
GCTTGTGTACAATTACTGCCCCTCCACACAGAAGGCCTTAGAAGGTCCAAAGCCATTTATTTTCTAGGAAGCTTAGGGCAGAGCGGACAAGGCC
GTCATGAGAAGACTGTAGAAGCTTGTAGCCACCCTACCAAACAGGGAGGCAGTGGTGAGCCTTTGGCTGAGAACAGTGAGGAGAATGGATAAAG
AGGAGGCCAGTGAAGGGACTGCATCTAGAACAGTAGTTCTCAGCCTCCCTCATGCTGTGAGCCAATACAGTTCCTCATGTTGTGGGGACCCCCA
ACCACAAAATCATTTCATGGCTACTTCATAACTGTAATTTTGCTACTGCTATGAATCAAAATGTAAATATCTGGTATGCAAGATATCTGATGTG
GGTCGTGACCCACAGGATGAAGACAGCTGATCTAGGAGTCCTGTCTACCACTGGAAGCCCTGGGGAGTTTGAGCCTTTTTCCATGCTCAGGCTG
TTCTTGAAGAACTTTGCATACACCCCTTCTCTGCCTTGAGCATTGCTGGCTAGTTAATGAGCCGGACAGTCTCACAAGCCAGTGCTTGTACCCA
CAGAACAGACTATTCCAGCTAAGGATTTAACCATTTACGTGCTAGGGCTCTGTTCAGGGCCAGAATGAAGGCCACTATATGGTGTCACTGGGTG
CTGAGGAGGTCAGTGCTCAGGAAGCCGAGGGCCAGCCGGGGTGGCTGGGGCACCAGTGAAGATGAGAAAGGAAAGTGTTATCTCCAGAACCTCT
GGGCTTCTTCCTGATGGCATCACCTAAGGACTGAAAAAGAAGAACGGGCTATTCTTTCTCTTCACCAGGTAAAAGCCTCTGGAAAAGGTCCCCA
TGTCAGAGCCGACTCGGTGTCTGCCAAGGGGATCTCTGGGAAAGGGCCCATCTTAGCAACCCCAGGGAAGACTGGGCCTGCAGCCACCCAGGCC
AAGGCAGAAAGGCCAGAGAAGGACTCGGAAACCAGCAGTGAGGACGATTCTGATAGTGAGGATGAAATGCCAGTCACTGTGAATACTCCTCAGG
TAAAGCCTGGGGGGAGAAGGGAGGCATTATAGCCCAGACCTGAAGGCTGCTAACCTGTCTCCTCAGCTGGTCCCAGCCCCTGTCCCTTCTCCTC
AGCTGGGCCCAGCCCCTGTCCCTTCTCAGCTGTGCCCAGCCCCTGTCCCTTCTCAGCTGGTCCTAACCCCTGTCCCTTCTCCTCAGCTGGGCCA
GCCCCTGTCCCTTCTCCTCAGCTGTGCCCAGCCCCTGTCCCTTCTCCTCAGCTGGTCCTAACCCCTGTCCCTTCTCCTCAGCTGGGCCCAGCCC
CTGTCCCTTCTCCTCAACTGGTCCTAACCCCTGTCCCTTCTCCTCAGCTGGGCCCAACCCCTGTCCCTTCTCAGTTAGTCCCAGCTCCCATCCC
TTCTCCTCAGCAGGTCCCAGCCCCCATCCCTTTTTACTGGTAAGGCTCCCTGCTCCTGTCAGGTCTCTGCCCACATCTGCCTAATGATTTACTC
CTCAATTTCTCATACCAGGCAAGGACTTCTGGGAAGAGCCCTCGGGCCAGAGGTACCTCAGCCCCCGCCAAGGAGTCATCCCAGAAAGGGGCTC
CTGCAGTCACCCCTGGAAAGGCAAGGCCTGTGGCAGCCCAGGCAGGGAAACCAGAAGCCAAGAGCAGTGAGGAGTCAGAGAGTGACAGTGGGGA
GACACCAGCTGCTGCGACTCTGACCACGAGTCCTGCCAAGGTGAGGCCAGGTGTGCCTTGTGCTCTGCCTAGAAAGGAAGGCCTCCTTCTTCAA
AACCAGAGCACGTCCCCTGATCTTGCCCTCTGTCACTCCCAGGTGAAACCTTTGGGGAAGAGCTCCCAGGTCAGACCTGTTTCCACCGTCACCC

CGGGGTCATCGGGAAAAGGTGCCAACCTGCCCTGCCCTGGGAAGGTGGGGTCAGCAGCTCTCAGGGTCCAAATGGTAAAGAAAGAAGATGTCTC
GGAGAGCAGCAGTGCAGAGCTGGACAGTGACGGGCCTGGGAGCCCAGCCAAGGTGAGTCCTCAGAGGTCTCAGCCCGGGAGCCTACATGGCCCT
ACACCCCAGGTCTGTCGTCTGGGTCTCTAATTGCTGCCTGTCTCCTACCTGGGGCTCCCACTGATCTCATTCCAGGCAAAGGCCTCCCTTGCGC
TCCCTCAGAAGGTGAGGCCTGTGGCCACCCAGGTCAAGACTGACAGGGGCAAAGGCCACTCAGGGAGCAGTGAGGAGTCATCTGACAGCGAAGA
GGAGGCAGCACCAGCAGCCTCTGCTGCTCAGGTGGGGACCAGGGAAGAGAGGCAGTCTGGCTGTCCTGGCCCGCCCCAGTCAGAAACCCCACCT
CTCAGAATTAGATGGGTTCTGGTTAGTAAGGAGACCAGGGGGAGCTGCATCTCAGAACGAATTAGTCCAGGAGTCTCCCCCAACCTCCATCTGC
ACTTTCTCCACAGGCTAAGCCAGCTCTGGAAAAGCAGATGAAAGCTTCCTCTAGGAAAGGCACGCCTGCATCCGCAACAGGAGCGAGCACCTCG
TCCCATTGTAAGGCAGGAGCGGTGACCTCTTCAGCCAGCCTGTCATCCCCAGCTCTGGCCAAGGGCACCCAGAGGTCAGATGTGGACTCTTCCA
GTGAGTCTGAGTCAGAAGGAGCTGCTCCCAGCACCCCCAGGGTACAGGTAAGGGCTGGATTTACCCAGGTAGGCTCACTCCCAGCCCCCATGGG
GCATCTCTGGCCCTTGAGAAACTCTTTCTTCTCCTTGACTTTCTAGGGGAAGTCTGGGGGTAAGGGCCTCCAAGGGAAAGCTGCCTTGGGGCAA
GGGGTGGCCCCAGTGCACACTCAGAAGACAGGGCCTTCGGTCAAAGCTATGGCTCAGGAAGACTCAGAGAGCCTCGAGGAGGACTCCAGCAGTG
AGGAAGAGGATGAGACCCCAGCACAGGTGAGGTAGGGAGGAAGCAGCCTGAACCAAGACTGGGGATGAGCTCAGTGGAGGCTGCCCTTGGCCCT
AGGAGCACAGAATCCTGGGACTCAGGCTCAACTAAGTCTCACGTTCTCACACGCTCTTGTTTCCTGAGCCCCCTGGCTCTAGGTTCCTACACAT
CTGGGTGTGCCACGCATTCTGCCCACTCTAGACAGAAGTCTGTGGCTTTGGCCTTGGGGAAGTTGCCACCTGGGGCAAGGTGTGATAT
AGTACACACCGTTACAGCAGGATAGGGATGTGCAGTAGGGCTAGCCAAGCATGGTACCCGAGATATTTTAAGAGGAGTGTCATGTCGGTGAGGA
ACTGAAAGTCGTCTGGTGAGGTAGAGGGTAGACTCTTTGCAGAAGCCAAGAAAGTTGGCTCGGGTCGCACCACAAGCAGGATTAAATGGCAGAG
GCCAAGAGCCAGGTTACCTGGGCTCAAGTCCAGTTCTATTCCTGGGGCCTTGGCTACAGTCCCATCTGTCATCAATCCACCCTTGTGGGTATGG
GTAAGGCCTCGCCTGCCGGAAGCCCGGGGACCTGCCTTCCTGGCCGTGGGCTAGGCTGCTGGGGGCAGAGTTGCAAGGCACACCACCTGGCCCG
AGAGAGCAGGAAATGAAAAGGAGCTTGTCACGGTCTGCGCTATGGGGGACCTTCCTTAAGTCCTAACTCTGTCGTACACATGAGAGGCATTGGG
AGTTGGAGCTACTTTGAAACTAACTAGATGGTGATATCTGAGTGAGTCGGGGCCTTTCTCAGGTCCACACTCACCGAATTGCACTCAGAGCCTA
TCAGTGTCTGTCTTACTCTGGCTGAGGCCATAGCTCCTAGCTGGGTGGTATAGTGTTTGCCTACCATGCACCAGGCCCTGGGTTCCATCTCCGG
CACAGCACTGACTCCGTAATGTGGGTTTGTACAAGCTGAACACCCTGACAGGCATGGGGGGGGGGGTGAGATTAAGCAGAAGCAATGACTCTAT
CGTGTTCTGTTAACCTGCCCAGTTCCTAGTTCCTGGGCTGAGACGGATGCTTGAGCTCTGCATTTCAGGGAGAAGAAAGCACAGATTGACGATT
CTATATGGCACTCAGCTTCCATTCTGTAGAGTAGAATTTAATGACAGACACGGAGTCTAGTTGAAAGGGAACCTAAAAAGCAGTTGTGTTTGGG
TAGGAGTATATTTAAAAGGCTTTACAGTGCTGAATTTGAGTGTGTGTTAGTGCCAGTTAGACTACTTAAACACGTAGTCTGTTTAATCTTTGCA
GAAATCCCATAGATAATGTTTTATTTTTACACTCCTTTTATAGAGATGAAAGTGAGGCCTGGTAAGATTAAGTGGCTTCTTCTTGGTTGTGTTT
TGTTTTTGGAATCAGGTCTCACTGCATAGCTCTGGCTGTCATGGAACTTGCTCTGTAGACCAGGCTGGCCTCAGACTCACAGAGCTATGACTAT
CCCTGCCTACCAAGTGCTGGTTAAAGGTGTGCACTGCCATACCTGGCATCAGGGACTTCCTTTTTTTTTTTTTTTTTCTGAAACAGGGTTT
CTCTGTGTAGCCCTGGCTGTCCTGGAGCTCACTCTGTAGCCCAGGCTAGCCTCGAACCCAGAAATCCTCCTGCCTCTGCCTCCCAAGTGCTGGG
ATTAAAGGTGGGCACCACCATCGCCCAGCAATCTTTTTTTTTTTTTTTTTTTTTGGGTTTGGTTTTTCAAGACAGGGTTTCTCTGTGTAGCTCT
GGCTGTCCTGGAACTCACTCTGTAGACCAGGCTGGCCTCGAACTCAAAAATCCGCCTGCCTCTGCCTCCCGAGTGCTGGGATTAAAGGTGTGTG
CCACCATGCCTGGCTTGGCATCAGGGACTTTTTTTTTTTAAACATTTATTTATTTTATGTATATGAGTACACTGTAGCTGTCTTCAGACACATC
AGAAGAGGGCATTGGATCCCATTACAGATGGTTGTGAGCCACCATGTGGTTGCTGGGAATTGAACTCAGGACCTCTGGAAAAGCAGTCAGTGCT
TTTAACCACTGAGCCATCTCTTCAGCCCAAAATATTGGTACATCTTTTTTTTTTTTTTTTTTTTGGCTTTTTCAAGTCAGGGTTTTTCTGTATA
GCCCTGGGCTGTCCTGGAACTCACTCTGTGGACCAGGCTGGCCTCGAACTCAGAAATCTGCCTGCCTCTGCCTCCCAAGTGCTGGGATTAAAGG
CATGCGCCACCACTGCCTGGCTTGGCATCAGGGATTTCTTAAACTCACACTGCTGTTAGTTGGAAGGAGGAGCCAGCATCGGCTCAGTGTCTGC
AGCATCAGTGTTCTTTGATGACTGCTCTGTTGCCCTTTGCCCTTCCTAATTCCCTTCCCTTCCTTCCAGGCCACGCCCTTGGGGAGACTTCCTC
AGGCCAAAGCCAACCCACCTCCCACTAAGACACCTCCAGCGTCTGCATCTGGAAAAGCTGTGGCTGCTCCAACCAAGGCAAGTAGGACCAGAAA
CCACAAGATACGTTAGGATAAAATCTCAAAATCTGTAGTCCCACAGTGATCCAGCATGGACCACCCGCTGTCCCACCCCCTGTGATATTACAGC
CACACACTAGTAGAAGGATGACTGCCGCCCTTTCCTCCTCCAATACCATTGCTACCTCTCGATTCAGGGAAAACCACCTGTTCCGAACAGCACC
GTCTCTGCAAGGGGCCAGCGGTCTGTGCCAGCCGCGGGAAAAGCAGGGGCCCCAGCAACCCAAGCCCAGAAGGGTCCCGTGGCTGGCACAGGGG
AGGACTCAGAGAGCAGCAGTAAAGAGGAGTCTGACAGTGAAGAAGAGACGCCAGCCCAGGTACCCACCCAGCTGGACTTGGGGTTAGAGCACCA
TGTGTTTTGGCCCAGGCCTATAGGCACACTTGACATGCCTCTCCCCTTGCTGTTTCTCCAGATAAAACCTGTGGGGAAGACCTCTCAGGTCAGA
GCTGCCTCAGCCCCTGCCAAGGAGTCTCCTAAAAAAGGAGCCCATCCAGGAACCCCCGGCAAGACGGGATCTTCAGCTACCCAGGCCCAGCCAG
GGAAGACAGAGGACTCAGACAGCAGTAGTGAAGAGTCTGACAGTGACACAGAGATGCCATCAGCCCAGGTGAGCTCTGCCAGGCCCGAGAGCCA
CCGTCACCAACTCTGCTCATAAACAGATCGTGCCCCAGAGGGGAGAAAGAACAGATAGAAGTCCTAACTCCAGGATCCCTTGCCTCCAGGTCCT
CCCCACCATGCCCCTGGATGAAATGAGCTGTAAGTCCCAAACCAAGGCCATCCTAGTATAGGACATCCTAGGTACTCCTACAGCTCCGCAGGGG
CCTCTGCAGCACTGGGCACGGCAGTCCCATGCAAGCTGAGTCAGGTTCTGCTGAGGAACCTGGAGCCATCCTGCAAAGACACCCCTGTCAGAGT
CACCAGGAAGCTTGGGCTACGGCGCAAGTCTCTGTCTAAGAAGGGCCCGTCTCGCTCAGTGATGCCTAGGCCCAAGGAGTGGAAAAGAAAGAGA
AGCTGTCTCATACTCAAACCATTGTCCAGTTCTCGGCCCGGTTGGTTGCAGCGAGCAGTGGGGCTTGCTCTGGCTGACAGTCTCTAGTCTGAGC
TCAGGCAGCCTGGTAGAATCGGTACGTGATGGCCTCTGGTGTCGCACCTTAGGGAGGTGGCAGCAAGATCAGAAAGAAAATGGTTGGTCCTTGT
CAGTTTCAGCCGACCGTGGCTTTATAGAAACAAAGGGAATGTCACATATAAGTGGAGATTTTGTAGCTTCTCCTGAGAAACCCAGTCCTACTTG
CCGATTGAGCACAGGCCACCCGAGCAGGGAGACATAGAGCCCTCCCTGGGCCTCCCTTAAGTTGGCATCACCACCAGCTCTTCTTCACTGATTG
ACAAGTTCTGTGGCTTTGGACCACCCGGCCCGTGAAGAATGCTCTTAACAGGGCTTAAGAAGTGTCACTCTTCCGCATTTTCCCCTCACTGGGA
ACCCTCCCGTGTCACGTGCTTACTCAAGTCTTGTCCCCTCCAAAGGATGCTATCTCCCAGCCTGCCAGAGGCAAAGCGTCAGGTCCAGCGTCCC
CAGAGAAGAGCATAGAAGGGTCCTCAGAGAGCAGTGATGAGGATCTGCCCTCCGGCCAGGTAGGCTGTAGCTACTCTAAAGGCTGCCCCTGGCT
GGGCCAGGCTGCCGCTCTCTGTGAGAGGGTGCAGCTTCCCAACAGGGATAGTCTCACCACATGCAGGTAGCACTTCACAGCTCCTAGCTGTCTT
CTGATACACTCCTGGTGTGGTCGGGCCTCAGGCTTCACACCCCTGGCCCCACTCTGCTGCCCAGGAGCCTTTTAGGACTCTGATGTTTTATGTA
AACTGGAGTTGGTCATGGTGCCCAGGCACCTGCCTGAGCACTGTTAGGCGGGCACGTTGTCCTGGCGGCCTGTTCGGGGCCGGGGTTGAGGCCC
CTTATCTTCTCGTGAAGAAGTTTGAGGAACCCAGAACACTACTGCCCAAGCCTCTCTGGTCCCCATGGACAGTTGGGGCTCTAGATCCTCCCTT
GCGACCTTCGTTGGAATCTGTGGGCCCCACCCCAGGTCAGGCCTATGCAATTTATGGCACCTGCTCATTGTCTGCTGGTCCCCACTCCTGCCTG
GCCTTGTTCCCAAGGGTGAGGTCCGGGACACCTTCTCTGATTTCAGGAGCCCAACATAGCCACCAAGATGGTACAAGCTCTGTGTGAACCCAGG
CCTTTGTAGAGGCAGCACTGCCCTCTTTCTGAGGGAGTAGGGTATTTCCATTTGAAGGAGAGAGGGGCCTGTGACTCTGAGGCAGCTCAGAGAA
CATTTGAATCCTGGCAGTCTGCACTTTCTCCTGCCCAGCTGTCCCTTTAGCCCCCTTCCAGGCTTGGCTTTTGCCCTCTGGCTCTGCAGTCTTT
CTGAGGTACCTCCCTCACTCCTAAAGGACAGACAGCCAGTATGGAAGGTTGCCTTGGTTTTTCTCTGTGTGAGTAGACTTGCACAATTAAAATG
AGCATTATGCTAAAATTGAACCTTTAAAGTGGTCTTGCAGATCTGGGGGTCTCTATTTTGAAAAAAACAAAGCCAATAATTTTCTAGGTTCCC
AGAAGGAATTCAGGGAAACGGGCACAGCCCAGGAAGCTGTGGTTTCCCTCTGGGAGAGTGCTAGCCTACGCGGGATTGCTGTCGCTGTTGGGCA
TTTATGAAGCACTTCTCTATGGAGAGCTGCAGATGGTCCTTCCTAGGGCTCCCCGTCTGGTTGGTTGTTTTTCATTAGCCTGTCCGTGGGAGAA
AAGGCCGGGTAGTCCAGCTCTGGGCCAGCTCTGATCCCAGGTTCTGTCCTGCAGCTCTGTGTAATGCCGTGTGGAGTGTAAGCCTCAAGCTGAG
GCTGGCTGGAACCCGGGGTGGCTACAAGTTAGAAAGAAGTGGGCATGTGAGGTAATGCAGGCACGAGACGGCATGGCTGATCCATTCTGTTGTA
GCCATGTATCGTACTGCGTCACGCACATAGTCATGCGTAACCTCCCACGTAAATTATTATTAAATGTATCAGCGTTTGCCTGCATGTATGTATG
TATGTGCACCACATGCCTGCCCGGTGCCTGTGGAGACGAGAAGAGGGTGTCAGATCCCTCTGGAACTAGAGGTACAGACAGTTGTGAGGTGCTC
TGTGAATGCTAGGAATCAAACCCAGGTCCTCTAACCTCCGAGCCATCTCTCCAGCCCCCTTAAATTGTTTTAAAGGCTACTTCAGCTGCTGTTT

TGCCGAAACAAAGGCATAGGCTATGTCCTTATTGAGTGAGAACAGGGGGCCTGTTAAAAAAAAATCTAAATTTTAGAATTAAGTCAAGGCTTGC
ATGGTTAGGTCTGGCTCCCAGAGCGCTTCCTTCCAGTCCTGTATCTTGAAACCAGTTTGCTGGTCGTCCTGGACGAGGTGCTTGTCCACTCTGA
GAGCCTCAGCCTTAGCTCCGAGTCAGACTGGGGTTTATAAACCTCAGGTCTCCTAGCTGCATCCCCAGAAAGTGTCGTTTCTAAGTCTCATGGG
GAAGGATGAGCCCCCAGGTAATAGTCATCTTCCTCCTCTCTGGGGGGGCGGGGAGGGGTCCTCAGGGGGTCCCAGTGCTGAGGACACACCCTCC
ACTGCACTGCACCTCTAGCCCCACAAAGCTGCTTTGAGGGAAGCTCTCGGTGACTGTCCCCTTCGACAGAGCTCCACCTCCCCTCTCTGCCCCA
GACTAACTGGAATAAGTAGATAGAAGCCCAGCTAAGACAGCGGGCAGTGGGCACCGCCCAAAAGGGCCCCAAATCTGCTTCTGTAAGCATCATT
CCTGCAAATAGGTAGGGTATCCCCCTAATCTGCTCTCAGCACCCCAGGGGGGTGGAGGTGAGATGCTCAGGTGGCTGTGGTGGTAGCGTCCTCT
TCCACCGCTTTGCCTCTCTGATCAAAGCACAGCCCACACCCACTGGGCTTTGTGCTTTCCCCAGGTGACCACACGCAGCACCCACCACAGAATG
AGGAGCAGAGGCGCTACAGACCTAAGCACTGCCCCTGTGCCCAGCCCACCCTCATCAGCCAGGCCGCTGCCTCCTCTATCGCCTGCCCGCTGCC
TCCTCTATCGCCTGCCCATCGCCTGTCGTCCCTGCCTCGAGATGGGGTGGTGTGGGCAGGTGGGGCTGGAGGAGGCTGTGCTGCAGAGCTGCTT
TTAACATTCCAAGACGCTATTGTTTGCCTCAGTGGGTTTGCTGCCTCTCTTGGTCCCCAACAATCTGTTCTTCTGTCTTCTCACATATATATAG
ATCCCCCTCCCTCCACCGCAAGCCTTCTCCCACTTTCCATCCTTCTCCTTCTCATCACGTGGGAAGGGAAGGCTCTGGAAGTGGCAGCTCAGAG
CAGCCGCGGGGGAGGCTGTTTGGCAGGGTAGGGAGGGCCTGAGCGCAGCGGTGCCGCCGCCACACTTGGTGGGTACCATAGTGCTAAAGTTTGT
TGCTTTCTCTGTGTCTCACAGCCCCTGGGGCGGTGGGAGCTTGGTAAAGCACTGCAGGCAGGAGGGTGTCCGTGGATAGAGACCCAGCTACCCC
TCAGGCAGCCCTCTCATTAGCCAGAGCACCAACAGCCTTCAGCCAGCACTGGCGTTTGGAGAGTAGAAAGTGGAATTCTAGTTCCCTAACTACT
GCCTCTGTACCTTCATCGGCTAGGACTCTGAAAGGAAATAGATCTGGAGTCCCCTGGTATGTTGGTGACATATTTGGGAATCTGGTCCACTGCC
AAATTGACCCTCCCAGTACTAGGATCTGCTGCTGCTCTCTGCCGTCTCAGTGAGATACAGAGCAGACCCACAGGTGAAGTGCATCAGGGCATGTTA
GAACATATCTGTAATCCCAGCATCCAGGAGACAAGGTAGGAATATCAGAGGCCAATGTGGTAGGCTATACAATGAGACCCTGTCTCAGGATTAA
AAAAGTAAAACTGAACCCTACGCATTATCCCAACCTGCAGCTGTCCCGGTCCTGAGCAGGTTGGCTTTGTGCACATTCTACTTGAGTCCTTGAC
TTTGAAGCTGGTCTCAGGCCCGTCACGTCATCCATCAGAATTTCAATATGCAACTCAAAATGATAAGAGTCTTCCTAGTCCTTGTAGACACAAC
CACAAGACAGTATCTCGGCTAGAAAGCTGACCGGCAAGCAGGCCTTGTGCCTGTTTCTCCAAAGTATCTGTCTGATGAGTGGCATTTTTCATGC
TTGTCCTGTTTAAGAGTGAGTCTAATAAATAAGGTTAGTATGTGGAGATCTGTTCCTCTAATTCCAGCAGTGGAGGCAGAGGCAGGTAGATTTC
TTCATCCAAGGATAGACTGGTCTACAGAGCAAAACCTGTCTCAAAGCAAATAAGGGCCACATATACACATATATCCTGAGCGCTCTAGTCTGTT
GGCTGGCCTACCCATCCCACCCCCCCTGTTACTCCAGGCAGTTTGTGTACTAAAGAAACTAGTTCAGTATAACTGGGGTCTGCATGCTGAGCCA
CATCTCAGGGAGGATGCTGTCAGGGTCTCTGGGGGAAGGGACAATGAGACTCCAGGGAAATCATACAGTCACACTGTTACAGGAAATGCTTTTT
AGAATTCCCCACTCAGCAGGTGGCCATCTGATGTCACTAGAAGAAAGGCTAAATTAGACATTCCAGCTCTCGCCTTGCTTCCTTCCCATGTGGC
TGTGTGGCCTGGGCGCTCCTCTTCTCCCCTCTGGACTTAAGGCTTTCCTGTTAGGCCAGTGGAGTGGGTGGATACTGCTTAGCTTGGGGTCACT
GTGAAGGTCAGCTGGGCTCTAAGAGCTCTGAAGTGCTGTGCTGTGCTGGGTGTCTGGCTGTTATGGGGTGGGAGTGGGCCTAGAAGACCCCAAC
TCCTTGAAGTTTGCATTACAAAGCCCCTCCCTCACCCATTTCCTCTCCCCTTCCCCTGACCAAGCCTTTAATCAGAGGCGGGATGTTTCTGTTT
TTGGTTTTCAAGGCGATTAAATCCCCTCCAGTTTCTGTCAACCGTAACAGTAGTCCAGCTGTCCCAGCTCCTACCCCAGAAGGAGTCCAGGCTG
TGAACACCACAAAGAAGGCCTCAGGCACCACTCCCCAGAGCTCCTCCTCTGAGAGTGAGGACGGGGACGAGGACTTGATTCCTGCCACACAACC
CTCCACCTATGGTAAGCGCTGCTGCAGTGGGTGCTGTTCGGCCAGGACGGGCCCCAGCCACGCATGCCCTCCCCACTGAGGCCAGAAGGCACTA
ACCAGGTGGCCTAGCAGAGGCATTGGCGAGGACTGGGGACTCAGCCTTAGGCACTGTATTGTTCCCTTAATGAGGAAAGCTCGTCTGCCTCATT
TTGAAGGAATTACATTCGAGGCTTCTGTGTGCTGGCTCCAAGCCTGAAAGCCAGAGGGAGCATTCTGGTGGCTACAGGAACCAGGCTAGTCTAA
ACCAGAGCTCTGCTATAGCCACCTGGCCGTGGGGTACACTATTAGCCTGGCAGTGAGCTTCCATCCCCTTAGCATAGAAAAGGAGACAGGTAA
CATTTTATACTTATTCTCTTCCCAGAACCTAAGGTGACTGAGTGTCTTTGTATGTGGCGAGGCCCTCTGGTAGCGCAATCATCTTCAGTTATAT
ATCAGGACACTGTGTCGTGCCGGGCGGTGGTGGCGCACGCCTTTAATCCCAGCACCTGGGAGGCAGAGGCAGGCGGATTTCCGAGTTTAAGGCC
AGCCTGATCTACAAAGAGAGTTCCAGGACAGCCAGGGCTATACAGAGAAACCCTGTCTCGAAAAACCAAAAAAAAAAAAAAAAAAAAAAGG
ACACTGTGTCGTTAAGTATGGACAGCAAGATTCCTACTGTCAGCAAAATACTGCTGTTTATTTGGCGAGTACATAGTGGTGACATGAGCTCACA
TTAGGCTGTGGTAAACATCTCAGCACCCAGCAGCTCTCCCACTGGTCCTAACTGAGCAGTTGCTCACTGTGACCTGCACAAGAGAAAAAGATGA
GGGTAAGGCTTGGAGTCACCGCCACAGCAGCCATTTTCAAATGACATGGTGACAGCTGCTGTCTGGAAGGCTTGGGAAGCCAGCGTCCCCTTTA
TGATCCCTAAGCTCAGCATAGGTCCGAGGGAAGAGTGATCTGGTAATGCCTTGCTGGGGAGTCCTACGGCTTTGTATCCTGATGTGCCCCCCT
TCTCCTCCGTTTCAGCTCTCAGAACCAGTGTGACGACGCCCGCAGCCCTCTCACGAGCAGCTTCCCAACCCAGCAAGAGTGAGCAGTCTAGCCG
GATGCCAAAAGGCAAGAAAGCAAAGGCGGCGGCGTCCGCTCAGGTACTGTCGGGTAAGAGAGGGCTGTGGTGGGGTCACTCTCTGCTGCCTTGC
CATGTGTCCTCAGGCCACACGCCAGTCACTAGCTTGCTCCCAGCCCCCTGGCACTGTCATACAGGCCAGGAGCCAAGCTCCCAAATCCCATGGT
GTTGTCCGGAAGAGCGGGCTGGGAGCCCGAAGGCAAGCGGAAGCCCCTGTCCTCCCAGCTTGCCTGAGTGTGGATTCGTTTTCTGGATTTGAGA
CGCTGAAACCGACTCTTGAGTTGCTTGCCTCTCTTAGTATTCGTAATGGAAGTGGCCTTACTGTTTCCTCCAGCCTTCACAGTCCAGTGCATTA
TTAATATCTAGGGCAAGATTAGTGGACAATATCTAAATAAAACAGGGCTCATCCCACCAGGGTTGGTCCAGGCCAGAACCTGGGTCCTCCAGCT
CCAAGTTCTTTGCTCTGGAGGCCTAATGGGGTTTGTTAACGTGAGGGAAGAGTCTATCGCACACCCAACACCCTAAGGGGCAGGAGAAGAAGGC
TGTACTGAAGCCCCTCCCAGCTTCGGGGTGCTACTGTGCCACCCTGTTACCCGGTGCATCACAAACTAGCCCAAAAAGAGCCTCTGGCGGCCGG
GTGATCCAGTGGGTAGTGAGATGGCCTGAGCATCTGCCCTGCTGGGCACCGAGGCTGCAGCAGGCACGAGACCTTCACGGAGTCCTAAACCAGC
AGAGACACAGCCATTACACAGAAAAAGCAGCATAAATTAGTTGTCACCAACTGCTAGGTGTTGCAAAGGGAACAGCACAGAAGAGAAATATG
GGTGACCTGCTTTAGAAAAGGCGGGCAGGAAGGCTTCTCTGGGAACATGAGCAGAGCCTGCCCTGCAGGAAGGGAACCCAGAGGTACTAGAGCC
CTAGGTGATTGACATAGGGCGGGTAAGATAAAGTAGCAAGGGGGTCAGGCCATACCTGGACTGCTTTGTGTCTGCAGCTCCAGGAGGCTTAGCA
AAGGCTCATCTATTGTCTGTGTGCTCTTCCTGACTTCTAGCAGGATGGGAAGCAGGGGTGCCCTGAGGGACCACCTAGCCAGGGACACATCCCA
GAGGAGACACAGGCGATGGCCACTGGAGTTGGGGCTGCGCTGTCCTCCCCTGGGCCCAGATTAGAGAACAAAGCCATAGCTCACCACCTGGTAC
CCATCTTTCCAGCTGCGATGGCTCCTCTGTTCTCCACCTTGGCCTCAGGGCTTTTCTTGCTTGAACATCCCTGCCTCTTTACCCATGCCAGTCA
TTTCTGGCTCAGGGTAGCACAGATGCTGTTCTGAGAATCTATGGGTCTCAGGGCCTCCTCGTACCATCAGTGGATAACAGAGGGACCCTGGGTC
TCTCCCACTGGTGTTGAAAGCTCATTCTTAAAAAGCCAGTAAGCCGGGGGCTGGAGAGATGGCTCAGTGGTTAAGAGCACCGCCTGCTCTTCCA
GAGGTAATGAATTCAAATCCCAGCAAATACATGGTGGCCCACAACCTTCTGAAATGAGATATGATACCCTCTTCCAGTGTGTCTGAAGATAGCT
ACGGTGTACTTATATATAATAAATAAATCTTTTTTTTTTTTTAAGCCAGTAAGCATGGGGGAGGGGCACAGCTTACTTACTGTGCAAGCATGAGG
CCCTGAGCTCATTCTCCTGTACCCACAGGGGAAAGCCAGGCATGGTAGTGGGCGTTTGTAATCCCAATACTGGGGCACGTTAACCAGCCAGCCT
AGCCTAATTGGTGAGCCCCAAGTCACATTAAAAGACAGAAGGCTTCATATGACTGGGTTCTCTTCTGCTCCACCTCAGTGAAAGGCCAGCATGG
TTGTGTGTGTAGTCAGCAGCCCCTCTTTCACCTCCCTGGGCCTCAGTGTGCTAGTGCCAGGTAAGGAGCCACAGTGCCCACCAGAGGGCTGTGG
GAAAGTCATAGAAAGCCATGCGTAGTGCTTCCCACGTGGAGCCTGGCCTGCCGTGTCCTTCTCACTGTAACTTAACCTTGTGTTCCTACTTTAC
CAAACTAGACCAGCAGTGCCGTGGAAACACTCCCCATGATGCCTCCCCAGAGCGCACCCATCCAGCCCAAAGCCACCAACAAGCTCGGGAAATC
CAAGCTCCCTGAGAAGCAGCAGCTTGCCCCAGGCTACCCCAAGGCCCCCAGGAGCTCGGAGGACAGCAGTGACACTTCTTCCGAGGACGAGGAG
GATGCCAAGAGACCCCAGATGCCCAAGTCGGCCCACAGGCTGGGTGAGGATTCCCAGAGGGAGGGTGGGAGATGAGGCACAGCCTGGTAGAACT
GTAGGCTCTGGCCTTCTCAGCCCACCCTGGCCTTGTCTCATCCCCTGATAATACCTTTACAACTTCAAAGACCCAACTGCTGTTCGACAGCTGG
CAGCTTCTTGGTATTAAGCTCCGGTTATTGAAGGCCCCAAGTCCCAGGACTCTGCTTCCCTTGGGGGGAGGGGGGGCAGAAAAGTGGGAGCCTC
AGGAACCAGAGGGGAAATGATGCCATTCGTGTGTCGGGCTAGGTGCTCCAGACTAGCATGGGTGGACAGCAGGAGGCTTCGTGCAGGAGGATGA
GGAACAGAGAAAGACCCAGGCCTCGGAGGCCTCCTGGGGAGCTCTGCCTGGCCTGAATAACAGGGCCGCCAGGGACTCACACTCAACGGGAAAC
CTCTGCTTCCACACTAGATCCAGACCCTTCCCAGAAGGAAACTGTGGTAGAGGAGACCCCTACAGAATCCAGCGAAGATGAGATGGTGGCCCCC

TCACAGGTAACTGCCAGGCAGGGCTGGAACTTGGAAGCTGCCTTTAGACTTCAGCCACCCCCTGGATGAGTGTCTAGATCCCCATTCCCAGGGC
CCTGGGTAAGGTCCTGTCAGTGGGGTGCCTCTAATCAATCGGATAGAACCTCACCTCATGCTCTGGGGCCCAGGGAAGAGATTCAGATGGATTC
TGAGACATGACCAGAGAAGACGACTTCTTAGGTCTCTCTTAAGGCTCTTCCTATACAGGACAGACTCCAGTGACTTTCTCACGTGTGGGGAGTG
GGTGCGTGTTGGGGTCAGTCCTCTCCTTCCACTTTCACGAAGGTTACTGGATTGTACTCAAGCTGTCAGGCTCGACTCGTGTCAGTGCCTCTAC
CCTCTGAGCCATCTTGCCAGCCCAAAAAACGTTAACCATCTTCTGTGATGGTACTAGTCCATTGGCAATAAGAAAGTCCCCTTTTAATGTGCCT
TACATATGCGTTAATTCACATAGCTTAGAAGGCACAAGCTGAAGGCCTATGTCCCCCGTGGGCTCAGTGCCGCCCGCTCATGCTTGGCTGGGTT
GGCCTGATCCGGGGTCACCGACTGATTCCCTTGAGCCTTGCCTCTGGGATACGGCTAGGGGCTCGATGCGTCTTTCACACTGGACTTCTTCAGT
CTCTCCTCTCAGGTTACATGACTCCCGGCTTGACTGTGGCTAATTCCCAGGCTTCAAAAGCTACTCCTAGGCCAGACTCCAACTCCTTAGCTTC
TTCTGCCCCGGCCACCAAAGACAACCCGGATGGCAAGCAGAAGTCAAAATCCCAACACGCAGCAGACACCGCACTCCCTAAAACCGGTGAGTGG
GGACAGCAAGACATGGAGAAGCAGGGCTGCTGGTCCCTGCTTGTTATGGGCAGCATTTGTCTGTGTCCCTTCCAAGAGTCTCATATTCGAGCCT
GTGGGGTCCTCTGGGAACTAGAGGTACCCTTAAATGCAGCTGGCGCCCAGGACCAGGTTGCCAGCTCTGGGCAGTCTGGGAACAGATATAGCCA
GCCATTTGAAGCTATTTCTTTAAAGCTTGTGGAGGAGGCCTTGGCTCTCCGTCCGTCCCTACTGACTTCTCAGTCAGTGGACAAGGGTCCTGGG
TATAGGGACCCAGAATGACTCAGACTAGGCCAGCAGCCTTGTTTAGAGAATTCAATACCTAGAGGAGACCCTGGATAAGGGACAGGCCTCCGGG
GGCTGCTCTGGCTCACACTGCTGTAGCCTTGACAAGCTCCTGACCCTGTGTCTTAATCACACAAGGTAAGAGCAATGCCATCGTGCAGGGTCAA
AAGCAGAGCATAAAGAAAACTGTCACATGACATTTGGAGGGACCCAGGGGAAGGGACTGTTGGGAGTGCCCACATCCCTGACTTATATAACATG
AAGCATCCCGTCCCACTCCTGTCCGCTTCTCCTTAACCGCACTCACTGCTAGGGTTCAGCCCCTGTGCCCAGCATGTAGGCATTCCTTGCTGCA
CAGGTGACCTGGGAGGCCAGCGGGGGGTTCTGGGCCCAGGCTCTGGGGGCTGGTAACTTCAGCTTCCCAGCGCTGGGTCAGAGGCGGAGCTGTTG
CTCACTTTCTTCGCCAGTGTTCTTGTCTATGTGAGAGGCGGGTGCGAGCGACAAGGAGACATTTTCGAGGGGGCTGTGGAAGGTTTTTTTTTTT
TTTTTTACACGTGTAGTCAGCACACAATTATCAAAGGCAAGCAGAGGCGTAGAAAATTCTAAACAAAGGCTGCACCAGAAGCCACTCTGGCAGG
CAGTAAACCTGCTTAGTCAGCCACTGCATGCATACACAGCATACTCAGGAGTGCCCCCCAATCTGCCTGTCGCCCCAGCCTTGATGGGCTAAGG
ACCCATGGTGTGTCTACAGACGGGAGCTGAGCATTGGTCTGTAGGACCCCCTCGTGTGTTATAACCCACAGTTCATGGCAGAAGGACATCATTGT
ATGTCTAGCTTCTTCCTCTAAGGTGGGAAACAGCCTTGAGGGACTGTGACGCCTTGAGGGACTGTGACCTGGCCAAAGCCCTACACTAAGTTGA
TAAAGGCAGTCCTAGAACCAGTGTCACCCATGTCCCACCTACTGTGCCCTCCGTCTCATTAGCAGACTTCAGGTCCTCTCCTTAGCATTCTGGG
ATCTCTGTCGATCCACAAACATAGCTAAGCATAGGAGACAGATAGAGCAGAGTGACCCCTGGATCTCAGTTTCCCATTTATGCAGTTGTAAAGT
ACACCCCCTCAGTTGTCATGCATTGTGCAAGATCTCACCCTCAGCTTTCCAGACTTGTGACCTCCAAGACCTGTGATCTACAGGTAGGAAAGAG
GCCTCCTCGGGCTCCACGCCTCAGAAGCCCAAGAAGCTCAAGAAGAGCACCTCAAGCTCGCCGGCCCCCACACAGACACTGCCGAACAGCATCA
CCCAGCGCCTCCTGGAGCAGGCCTGGCCCCTGAGCGAGGCGCAGGTGCAGGCCTCTGTGGTGAAGGTCCTGACAGAGCTTCTGGAGCAGGAACG
GCTGAAGGCCACAGAGGCCATCAAGGAGAGTGGGAAGAAGAGCCAGAAGCGGAAGTTATCAGGGGACCTAGAAGCTGGGGCCCCAAAGAACAAG
AAGAAGAAGGAGCAGCCAGTGCCCAGGGCAAGCGCTGTTTCCCCAGAAAAGGCTCCCATGACTTCCAAGGCAAAATCAAAGCTTGACAAAGGGA
GTGCTGGTGGCAAGGGGAAGGGGTCTCCTGGCCCCCAAGGAGCCAAGGAGAAGCCCGACGGCGAGTTGCTGGGGATAAAGCTTGAGAGTGGCGA
GCAGAGCGACCCGAAGAGCAAGTCGAAAAAGAAGAAATCCCTCAAGAGTAAGTGACTGCTTTCCAGTACGCGCTGCCGGTGCAACCTGGGTGGC
AGGGCCCTGCCCCGGCTCTTTATCTCATTCTTTCCACAGAGAACAAGAGCCTGGGAAGTGGTTTGTCCAGAGTTTAACAAGTGTCTGGTGGCAA
AGGCAAAAGGAGACTGTAGAGCTGGCCTGCGTCCCCTGCCCCCACGGCCCCTTACAATGCCCAGTATTTAGCCTCAGGGTTTGGAAAACAAACT
CAACCCCGGCTTCACAACAGGGAGCTCTCTGCTCCAGCAGAGTCCACGGCCAGTCCCTGGGGTGTGGACTGTCCCCTGGGTTCTCATCCAGAGC
CCATCTTTACTCTAGAATTCAGTTCTTTGGTGAAAACAGCCATTCGTTGCCCTCCATGCGGGAACCTGCACCCAGCAGGACTTCTGAGTCACTC
ACCAGCCCTGGGCCTCGGGCAGTGTTGTTTTCCTTTTCTAAGGGGAAAGCAGGCTCTGAGAAGGAAAGACCACTGGCGCTAGGCAGTCCCTGCT
TTAGTTTTGTCTTAAGACAGGGCCTCACAATGTAGCCTTGACCGGCCTGGAACTTTCTGTGTAGAACAGGCTGTTCTCAAACTTACAGCAATCC
ACCTGCCTCTGCCTCCTGGGTGCTGGGATTAAAAGGGTACTCTACCACGCCCAGCATGGAAGTCCTGAGCACTGCCATTCTGTGGCAGGAGATG
TGTCACCTGATCTCTCCCAGGTTCTTGTCCCTTCCCTCACACTCAAGATTAGATAGATAGACTTGCATAGTTCTGAGGCCAGATTGTGTAGTCC
ACAGTCAGTAAGAGTGGAGCCTGGCACATGGATGGTATCCTGGCCCTATCAGGGCCTGATGTTAAGAGCCGCGAGCTGCCGTGGGCCTCCTGAC
GCTGACCCATCAGTGTCAAAATCTATTGCTCAGGAAGCTCGCTTTCTTCCCACAGAAAAAAAAGACAAGGAGAAAAAGGAAAAGAAGAAAGGAA
AAAAGTCCCTGGCCAAAGACTCTGCCTCGCCGATCCAGAAGAAGAAAAAGAAGAAGGTAGATTGAGTTCCTGAGGGGTCTCAGGGCTAGGAATT
CAAACCCTTCCCCTTCTAACACCTAGACCAGGCCCATGCCACCTTTCCAGTCCCTTAATCTAATGGACCTTGTGAGGAGGAGCAGGGGAGGGGT
GATGGGAGAGACCTCCACAGGCGGGACAATGGTCAGCTTTCAGGTTGGCTGGCCAGCGGGGAGCCCACTGAAGAAACAGCCAGCCAGCCGCTTC
CTGGGATCAGAAGGCAGTTCTGCCCAGGGCTGGTATCAGTGGGTCTCGATCCTTACACCTATGGGGGGCCGTGGATCCTTCGAAGGGAGTTCTG
TCCTGGACCTGTGGGACAGCGGTGGTGAGGAGAAGCCACAGAACTGATAGCTTGCTTCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
GAGGGAGGGAGGGAGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGACTTCTTTCCTCAGGTTGGTTGG
ACAGCAGCTGCTGCAGCATGCAGAGGGTCCACCCTGAGGGAGTCTGGTGCCTAAGCTAGCTGCCGCCCATCCCTCCCTTGGTTTTGTTCCCTTT
TGTGGAGATAAAGGTCGGCAAAGCTGACCAAAGCCTGGTTTGTTTTCTTCTCCTAGAATCTTGGCAGAGTGTGACCATCCATCCCCAGGCCTCT
GACCTCTGGCCAGCGTGAATTGGGCCTGGACTTTTTAACTTTCCCTCCCTCAGCAGAAGATGATGGCTGGCGGCGTGCTGGCCAAACCAGTGAAC
CCGCAGGGAAGCTGCAGTACCAGGAGGAAGCGAGGTGGGACACACACCCCCTCTGAGTGCTACGTGACATGTGTATAGTATATCTATTTTTTTA
AGCGACTTGCCTCTCTCCCTTCAAATCCACCGTGCCCAGAGGCCTCCGGACCTCCCTCCATGTTATCTGCAGAGCCAGCAAGGTCCCGCGTGTG
GTTCATCCCACACCCTGGACCCCTGGCGCAGCCTGAAGCCTTGCCCCATCAATTTTTCCAGCTATTTTGGTTTTGTTTTTTAAAGAACTCAGAA
TAAAAGACTTTAAATATAAAGGTTTGCCTTCCCCATGCATCTGGGACTCGGACTGTTACTGGCTACTTAGGACAGACAGTGTAGTGACCCTGGA
CATGCACAGGTCAGTACTCAGGGCTCCTTCCTGACTTCAAGCCAAGGCCCTAGGTACTGTGAGTAGGACAGTTTGCTAAAGAGGAAGGCTCAGT
GAAGCTCCCCAGGGAGGGAGTTGATGCAGGGACGGCTCCCCGTAGGAAGTGGCCTATAAGCTTAAAAGGAGCTGAAGGTGGGTCAGACGCCAGG
TAGATGGCTCAAGTGACCAGGGGGCCTTTGGAAACAAGTTACGATGTGGAGGGAGGCAGTGGCGAACAGTGGTGGCTGGCATGAGAAGCGGGGA
AGACCCAGTGAGCTAGGCCTTGAGTCACCCTCTGTCTGGGGAACAGTTCTGTGCTGGTGACAGTAAGAAGTGGGCAGAGCTGAAGTATGTTGGA
ATAATCACTGAACATTCACCTCAACAAAACAAAAAACCAGTACAGAGAAGGAGCAGGTGCAAGTCTCGGGGACCCTGTGCTCAGAGCCTTGGGA
CGGGCACGCCATACCCAACAGTCAGCCATTCCATCCATTCTCAAGTGTGGATCAGAGTGTGGGATGTAGGTCTAGATCAGAATACAGAGAGCCT
CTCCTTGGCTCGGCTGACTCGCAGAAGTATTTAAACCTACAAAATGGAACAGCGTCCTTAACGTTCATCTCGGAGTCCCTGGTGGTGAGGGATC
CGCTCCCTTTTCCTGTGACAGTGGGCTAAAGCTGACAAGACACAGGTCCTGCCCAGACAGACCACTGGCAGCCCCCACCTGCATCCATTCC
TGACACTAGGTCCCTGTGTCCACTGCCATCTGTCATCACACTTACGCTGTCCTTAGTCCAGAAATGGAATTGGGGACGGGAGGAATGGAAGCTA
GGACGTGATGAGATGTGATTTTAAAACCGAGCAGGAGTCTGTTTCTTTCTGACTGTTAAGTAGACACCACGTGTGTCTGGGACCCATCTCCCCA
GTCCATGTACGTAGAGGATTAGATTTAAGGTTGTCCTCGGCCTTGGGGTAAACTAACTGGATCCCAACTGAAGAGGCGGAAGCAAGAGTGTTCT
ACTTTCTTCCTTTATTGTCACTTGAACCATGATCCTACAGGCTGCTGACAAGCTTGGCTGAGCAAGGAACCTGAAAGGGGGTGGGGCTTGAGGG
GGGGTGGCAGGATGTGAGGAGGGGTTACTGGGAGGAGGGGCTTGGGTTCTTCTTCCTTGAGGAGAAGGCAGCAAATGTGTCCAGCCTAGGTTAA
GGGTAGGGCATCCCTTGTCCCTGTCTGCGGGCCTTTATCTCAGAGCCCCACATTCAAGACTACTAATGGGTCAGAAATGGGGGTTCCCTTTAGA
TAGCGGTAGCCAGCAAGGCCCTCCAGCGTCCTCCTTCTGTTCTGACTTCATTTGCCGTGTCCTGGGACGATGAAACAGACACCAGTCTCAAGCC
CCAGGGTGCAGGGAGACGGGAAGTGGGGTGTGACATCAGGGAACATAAGAAGGGCTGAGGCACAGGAGAGCAGGGGGCGCTGCTGCTGTGCAGA
GCTGGCCTCTGTCTTCACAGGGTGACTGGGAAGAGAAGCACAGGTTGATACAGCTGGGCCACCAGTTTGTTGTCCCTGCCTCCTCTGCCCAACA
TCTTGGAACTGCAGATCAGTCTGTCCCCCTGCTAAGCTCAGGTAGTACTGTGCTCCCAGCCACCATCCCATTCTAGAAAAACCATCCCAGTGAT

SAGRES DISCOVERY 02-08



ACACACATTTCCTCTACCAGTAATACTGCTCTCAGGAAGGTCACTATCCATAACAATGCTGCCCTCCAGGAGGCTGGATGTCAAGCCCAGCATC
ATCTCTCCTTCCACTTTTATTCAATTTAATATTATTTTGTTTTTCTGAGATGGTCTCATGTAGATGAGTCTGGCCTTGAACCCCTGATCCTCCT
GCCTCCA

MOUSE SEQUENCE - mRNA

TAGCGGGGGCGAGGGGGCGTGCACGTGAATCCCCTGGCCAGATCTCTGGCATGGCCGAGGCCAGGAAGCGGCGGGAGCTGCTTCCCCTCATTTA
CCATCATCTGTTGCAAGCAGGCTACGTCCGCGCGGCGCGGGAAGTAAAGGAGCAGAGCGGCCAGAAGAGTTTCCTGACTCAGCCCGTCACCCTT
CTGGACATCTATACACACTGGCAACAGACCTCAGAGCTTGGCCAGAAGCAGAAGGCAGAGGATGATGAGACCCTTCAGGCTAAGAAGTCTCGAG
TGTCGGATCCTGTTAGCAGCTCAGAGAGCTCGGATCAGGAGAAGGAAGAGGAGGCAGCAACCGAAAGGGCCAAAGCCACCCCAAGACCGACACC
TGTCAATTCTGCAACCGCAGCTTTGCCATCAAAAGTAAAAGAAAAGGGAAAGACCAAGACAGCCAACAAGACGGTGAACTCTGTGTCGCACCCT
GGGTCCGGAAAGACGGTGGTCCACCTGCTCTCTGGGAAGTCACCCAAGAAGTCAGCAGAGCCCTTGGCAAACACTGTCTTGGCCTCAGAAACTG
AGGAGGAGGGCAATGCCCAAGCCCTCGGACCCACTGCCAAGTCTGGAACGGTGTCAGCGGGCCAAGGCAGCAGTTCCAGTGAAGATTCCTCCAT
CTCAAGCGATGAGACAGATGTCGAGGTGAAATCTCCAGCAAAACCAGCCCAGGCCAAAGCTTCAGCAGCCCCTGCCAAGGATCCTCCAGCAAGA
ACAGCCCCAGGCCCTACCAAGTTAGGGAATGTGGCGCCCACACCTGCTAAACCAGCCAGGGCGGCAGCGGCAGCTGCTGCTGCTGTGGCTG
CTGCTGCTGCTGCAGCAGCAGAAGAGTCTGAGAGCAGTGAGGAGGACTCAGACAGTGAGGACGAGGCCCCTGCTGGTCTGCCCAGCCAGGTAAA
AGCCTCTGGAAAAGGTCCCCATGTCAGAGCCGACTCGGTGTCTGCCAAGGGGATCTCTGGGAAAGGGCCCATCTTAGCAACCCCAGGGAAGACT
GGGCCTGCAGCCACCCAGGCCAAGGCAGAAAGGCCAGAGAAGGACTCGGAAACCAGCAGTGAGGACGATTCTGATAGTGAGGATGAAATGCCAG
TCACTGTGAATACTCCTCAGGCAAGGACTTCTGGGAAGAGCCCTCGGGCCAGAGGTACCTCAGCCCCCGCCAAGGAGTCATCCCAGAAAGGGGC
TCCTGCAGTCACCCCTGGAAAGGCAAGGCCTGTGGCAGCCCAGGCAGGGAAACCAGAAGCCAAGAGCAGTGAGGAGTCAGAGAGTGACAGTGGG
GAGACACCAGCTGCTGCGACTCTGACCACGAGTCCTGCCAAGGTGAAACCTTTGGGGAAGAGCTCCCAGGTCAGACCTGTTTCCACCGTCACCC
CGGGGTCATCGGGAAAAGGTGCCAACCTGCCCTGCCCTGGGAAGGTGGGGTCAGCAGCTCTCAGGGTCCAAATGGTAAAGAAAGAAGATGTCTC
GGAGAGCAGCAGTGCAGAGCTGGACAGTGACGGGCCTGGGAGCCCAGCCAAGGCAAAGGCCTCCCTTGCGCTCCCTCAGAAGGTGAGGCCTGTG
GCCACCCAGGTCAAGACTGACAGGGGCAAAGGCCACTCAGGGAGCAGTGAGGAGTCATCTGACAGCGAAGAGGAGGCAGCACCAGCAGCCTCTG
CTGCTCAGGCTAAGCCAGCTCTGGAAAAGCAGATGAAAGCTTCCTCTAGGAAAGGCACGCCTGCATCCGCAACAGGAGCGAGCACCTCGTCCCA
TTGTAAGGCAGGAGCGGTGACCTCTTCAGCCAGCCTGTCATCCCCAGCTCTGGCCAAGGGCACCCAGAGGTCAGATGTGGACTCTTCCAGTGAG
TCTGAGTCAGAAGGAGCTGCTCCCAGCACCCCCAGGGTACAGGGGAAGTCTGGGGGCAAGGGCCTCCAAGGGAAAGCTGCCTTGGGGCAAGGGG
TGGCCCCAGTGCACACTCAGAAGACAGGGCCTTCGGTCAAAGCTATGGCTCAGGAAGACTCAGAGAGCCTCGAGGAGGACTCCAGCAGTGAGGA
AGAGGATGAGACCCCAGCACAGGCCACGCCCTTGGGGAGACTTCCTCAGGCCAAAGCCAACCCACCTCCCACTAAGACACCTCCAGCGTCTGCA
TCTGGAAAAGCTGTGGCTGCTCCAACCAAGGGAAAACCACCTGTTCCGAACAGCACCGTCTCTGCAAGGGGCCAGCGGTCTGTGCCAGCCGCGG
GAAAAGCAGGGGCCCCAGCAACCCAAGCCCAGAAGGGTCCCGTGGCTGGCACAGGGGAGGACTCAGAGAGCAGCAGTAAAGAGGAGTCTGACAG
TGAAGAAGAGACGCCAGCCCAGATAAAACCTGTGGGGAAGACCTCTCAGGTCAGAGCTGCCTCAGCCCCTGCCAAGGAGTCTCCTAAAAAAGGA
GCCCATCCAGGAACCCCCGGCAAGACGGGATCTTCAGCTACCCAGGCCCAGCCAGGGAAGACAGAGGACTCAGACAGCAGTAGTGAAGAGTCTG
ACAGTGACACAGAGATGCCATCAGCCCAGGCGATTAAATCCCCTCCAGTTTCTGTCAACCGTAACAGTAGTCCAGCTGTCCCAGCTCCTACCCC
AGAAGGAGTCCAGGCTGTGAACACCACAAAGAAGGCCTCAGGCACCACTGCCCAGAGCTCCTCCTCTGAGAGTGAGGACGGGGACGAGGACTTG
ATTCCTGCCACACAACCCTCCACCTATGCTCTCAGAACCAGTGTGACGACGCCCGCAGCCCTCTCACGAGCAGCTTCCCAACCCAGCAAGAGTG
AGCAGTCTAGCCGGATGCCAAAAGGCAAGAAAGCAAAGGCGGCGGCGTCCGCTCAGACCAGCAGTGCCGTGGAAACACTCCCCATGATGCCTCC
CCAGAGCGCACCCATCCAGCCCAAAGCCACCAACAAGCTCGGGAAATCCAAGCTCCCTGAGAAGCAGCAGCTTGCCCCAGGCTACCCCAAGGCC
CCCAGGAGCTCGGAGGACAGCAGTGACACTTCTTCCGAGGACGAGGAGGATGCCAAGAGACCCCAGATGCCCAAGTCGGCCCACAGGCTGGATC
CAGACCCTTCCCAGAAGGAAACTGTGGTAGAGGAGACCCCTACAGAATCCAGCGAAGATGAGATGGTGGCCCCCTCACAGTCTCTCCTCTCAGG
TTACATGACTCCCGGCTTGACTGTGGCTAATTCCCAGGCTTCAAAAGCTACTCCTAGGCCAGACTCCAACTCCTTAGCTTCTTCTGCCCCGGCC
ACCAAAGACAACCCGGATGGCAAGCAGAAGTCAAAATCCCAACACGCAGCAGACACCGCACTCCCTAAAACCGGTAGGAAAGAGGCCTCCTCGG
GCTCCACGCCTCAGAAGCCCAAGAAGCTCAAGAAGAGCACCTCAAGCTCGCCGGCCCCCACACAGACACTGCCGAACAGCATCACCCAGCGCCT
CCTGGAGCAGGCCTGGCCCCTGAGCGAGGCGCAGGTGCAGGCCTCTGTGGTGAAGGTCCTGACAGAGCTTCTGGAGCAGGAACGGCTGAAGGCC
ACAGAGGCCATCAAGGAGAGTGGGAAGAAGAGCCAGAAGCGGAAGTTATCAGGGGACCTAGAAGCTGGGGCCCCAAAGAACAAGAAGAAGAAGG
AGCAGCCAGTGCCCAGGGCAAGCGCTGTTTCCCCAGAAAAGGCTCCCATGACTTCCAAGGCAAAATCAAAGCTTGACAAAGGGAGTGCTGGTGG
CAAGGGGAAGGGGTCTCCTGGCCCCCAAGGAGCCAAGGAGAAGCCCGACGGCGAGTTGCTGGGGATAAAGCTTGAGAGTGGCGAGCAGAGCGAC
CCGAAGAGCAAGTCGAAAAAGAAGAAATCCCTCAAGAAAAAAAAAGACAAGGAGAAAAAGGAAAAGAAGAAAGGAAAAAAGTCCCTGGCCAAAG
ACTCTGCCTCGCCGATCCAGAAGAAGAAAAAGAAGAAGAAGAAGTCAGCCGAGCCTGCCGTGTGA

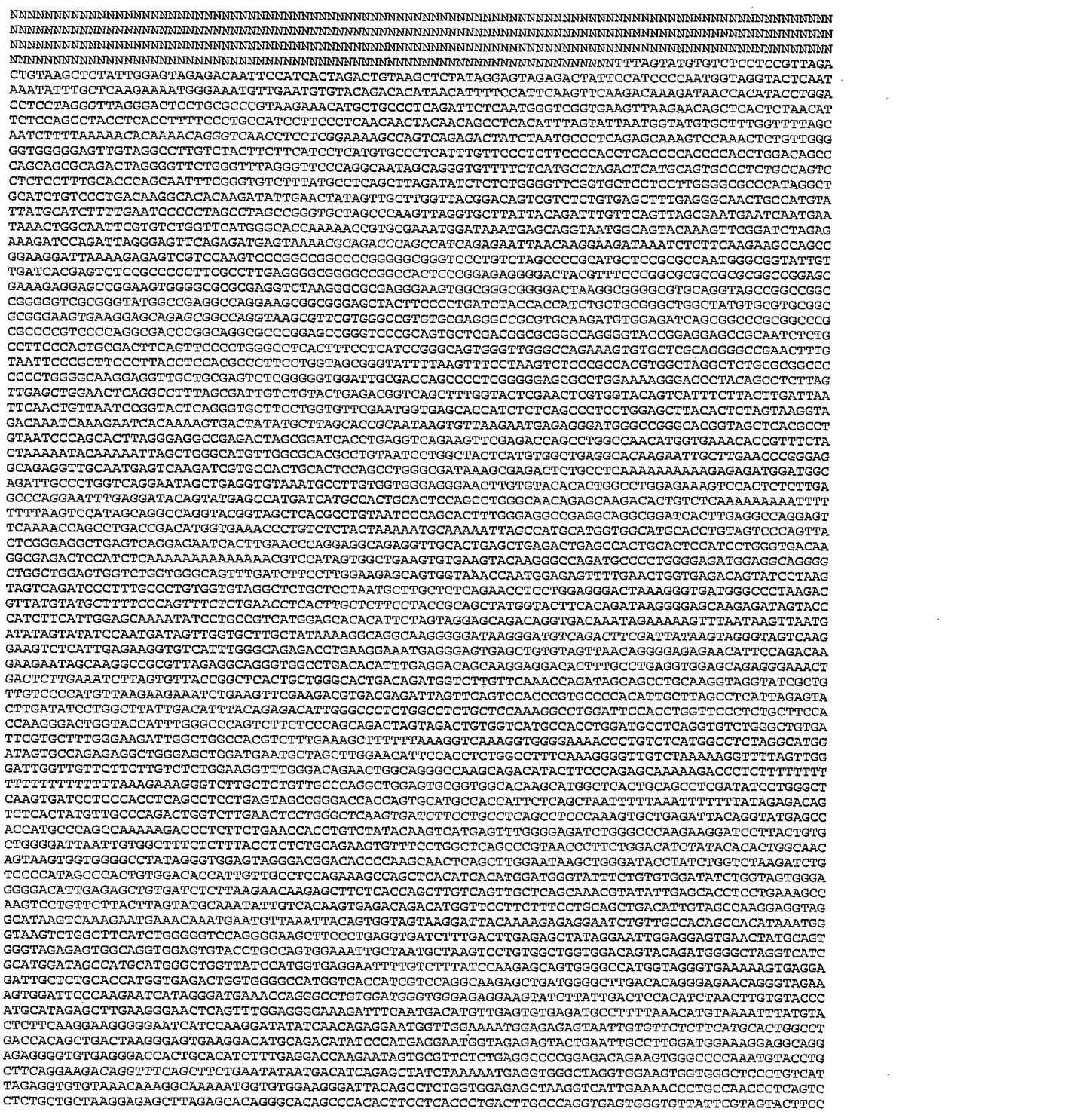
MOUSE SEQUENCE - CODING

ATGGCCGAGGCCAGGAAGCGGCGGGAGCTGCTTCCCCTCATTTACCATCATCTGTTGCAAGCAGGCTACGTCCGCGCGGCGCGGGAAGTAAAGG
AGCAGAGCGGCCAGAAGAGTTTCCTGACTCAGCCCGTCACCCTTCTGGACATCTATACACACTGGCAACAGACCTCAGAGCTTGGCCAGAAGCA
GAAGGCAGAGGATGATGAGACCCTTCAGGCTAAGAAGTCTCGAGTGTCGGATCCTGTTAGCAGCTCAGAGAGCTCGGATCAGGAGAAGGAAGAG
GAGGCAGCAACCGAAAGGGCCAAAGCCACCCCAAGACCGACACCTGTCAATTCTGCAACCGCAGCTTTGCCATCAAAAGTAAAAGAAAAGGGAA
AGACCAAGACAGCCAACAAGACGGTGAACTCTGTGTCGCACCCTGGGTCCGGAAAGACGGTGGTCCACCTGCTCTCTGGGAAGTCACCCAAGAA
GTCAGCAGAGCCCTTGGCAAACACTGTCTTGGCCTCAGAAACTGAGGAGGAGGGCAATGCCCAAGCCCTCGGACCCACTGCCAAGTCTGGAACG
GTGTCAGCGGGCCAAGGCAGCAGTTCCAGTGAAGATTCCTCCATCTCAAGCGATGAGACAGATGTCGAGGTGAAATCTCCAGCAAAACCAGCCC
AGGCCAAAGCTTCAGCAGCCCCTGCCAAGGATCCTCCAGCAAGAACAGCCCCAGGCCCTACCAAGTTAGGGAATGTGGCGCCCACACCTGCTAA
ACCAGCCAGGGCGGCAGCGGCAGCTGCTGCTGCTGCTGCAGCAGCAGAAGAGTCTGAGAGCAGTGAGGAGGACTCA
GACAGTGAGGACGAGGCCCCTGCTGGTCTGCCCAGCCAGGTAAAAGCCTCTGGAAAAGGTCCCCATGTCAGAGCCGACTCGGTGTCTGCCAAGG
GGATCTCTGGGAAAGGGCCCATCTTAGCAACCCCAGGGAAGACTGGGCCTGCAGCCACCCAGGCCAAGGCAGAAAGGCCAGAGAAGGACTCGGA
AACCAGCAGTGAGGACGATTCTGATAGTGAGGATGAAATGCCAGTCACTGTGAATACTCCTCAGGCAAGGACTTCTGGGAAGAGCCCTCGGGCC
AGAGGTACCTCAGCCCCCGCCAAGGAGTCATCCCAGAAAGGGGCTCCTGCAGTCACCCCTGGAAAGGCAAGGCCTGTGGCAGCCCAGGCAGGGA
AACCAGAAGCCAAGAGCAGTGAGGAGTCAGAGAGTGACAGTGGGGAGACACCAGCTGCTGCGACTCTGACCACGAGTCCTGCCAAGGTGAAACC
TTTGGGGAAGAGCTCCCAGGTCAGACCTGTTTCCACCGTCACCCCGGGGTCATCGGGAAAAGGTGCCAACCTGCCCTGCCCTGGGAAGGTGGGG
TCAGCAGCTCTCAGGGTCCAAATGGTAAAGAAAGAAGATGTCTCGGAGAGCAGCAGTGCAGAGCTGGACAGTGACGGGCCTGGGAGCCCAGCCA
AGGCAAAGGCCTCCCTTGCGCTCCCTCAGAAGGTGAGGCCTGTGGCCACCCAGGTCAAGACTGACAGGGGCAAAGGCCACTCAGGGAGCAGTGA
GGAGTCATCTGACAGCGAAGAGGAGGCAGCACCAGCAGCCTCTGCTGCTCAGGCTAAGCCAGCTCTGGAAAAGCAGATGAAAGCTTCCTCTAGG
AAAGGCACGCCTGCATCCGCAACAGGAGCGAGCACCTCGTCCCATTGTAAGGCAGGAGCGGTGACCTCTTCAGCCAGCCTGTCATCCCCAGCTC
TGGCCAAGGGCACCCAGAGGTCAGATGTGGACTCTTCCAGTGAGTCTGAGTCAGAAGGAGCTGCTCCCAGCACCCCCAGGGTACAGGGGAAGTC
TGGGGGCAAGGGCCTCCAAGGGAAAGCTGCCTTGGGGCAAGGGGTGGCCCCAGTGCACACTCAGAAGACAGGGCCTTCGGTCAAAGCTATGGCT
CAGGAAGACTCAGAGAGCCTCGAGGAGGACTCCAGCAGTGAGGAAGAGGATGAGACCCCAGCACAGGCCACGCCCTTGGGGAGACTTCCTCAGG
CCAAAGCCAACCCACCTCCCACTAAGACACCTCCAGCGTCTGCATCTGGAAAAGCTGTGGCTGCTCCAACCAAGGGAAAACCACCTGTTCCGAA

CAGCACCGTCTCTGCAAGGGGCCAGCGGTCTGTGCCAGCCGCGGGAAAAGCAGGGGCCCCAGCAACCCAAGCCCAGAAGGGTCCCGTGGCTGGC
ACAGGGGAGGACTCAGAGAGCAGCAGTAAAGAGGAGTCTGACAGTGAAGAAGAGACGCCAGCCCAGATAAAACCTGTGGGGAAGACCTCTCAGG
TCAGAGCTGCCTCAGCCCCTGCCAAGGAGTCTCCTAAAAAAGGAGCCCATCCAGGAACCCCCGGCAAGACGGGATCTTCAGCTACCCAGGCCCA
GCCAGGGAAGACAGAGGACTCAGACAGCAGTAGTGAAGAGTCTGACAGTGACACAGAGATGCCATCAGCCCAGGCGATTAAATCCCCTCCAGTT
TCTGTCAACCGTAACAGTAGTCCAGCTGTCCCAGCTCCTACCCCAGAAGGAGTCCAGGCTGTGAACACCACAAAGAAGGCCTCAGGCACCACTG
CCCAGAGCTCCTCCTCTGAGAGTGAGGACGGGGACGAGGACTTGATTCCTGCCACACAACCCTCCACCTATGCTCTCAGAACCAGTGTGACGAC
GCCCGCAGCCCTCTCACGAGCAGCTTCCCAACCCAGCAAGAGTGAGCAGTCTAGCCGGATGCCAAAAGGCAAGAAAGCAAAGGCGGCGGCGTCC
GCTCAGACCAGCAGTGCCGTGGAAACACTCCCCATGATGCCTCCCCAGAGCGCACCCATCCAGCCCAAAGCCACCAACAAGCTCGGGAAATCCA
AGCTCCCTGAGAAGCAGCAGCTTGCCCCAGGCTACCCCAAGGCCCCCAGGAGCTCGGAGGACAGCAGTGACACTTCTTCCGAGGACGAGGAGGA
TGCCAAGAGACCCCAGATGCCCAAGTCGGCCCACAGGCTGGATCCAGACCCTTCCCAGAAGGAAACTGTGGTAGAGGAGACCCCTACAGAATCC
AGCGAAGATGAGATGGTGGCCCCCTCACAGTCTCTCCTCTCAGGTTACATGACTCCCGGCTTGACTGTGGCTAATTCCCAGGCTTCAAAAGCTA
CTCCTAGGCCAGACTCCAACTCCTTAGCTTCTTCTGCCCCGGCCACCAAAGACAACCCGGATGGCAAGCAGAAGTCAAAATCCCAACACGCAGC
AGACACCGCACTCCCTAAAACCGGTAGGAAAGAGGCCTCCTCGGGCTCCACGCCTCAGAAGCCCAAGAAGCTCAAGAAGAGCACCTCAAGCTCG
CCGGCCCCCACACAGACACTGCCGAACAGCATCACCCAGCGCCTCCTGGAGCAGGCCTGGCCCCTGAGCGAGGCGCAGGTGCAGGCCTCTGTGG
TGAAGGTCCTGACAGAGCTTCTGGAGCAGGAACGGCTGAAGGCCACAGAGGCCATCAAGGAGAGTGGGAAGAAGAGCCAGAAGCGGAAGTTATC
AGGGGACCTAGAAGCTGGGGCCCCAAAGAACAAGAAGAAGAAGGAGCAGCCAGTGCCCAGGGCAAGCGCTGTTTCCCCAGAAAAGGCTCCCATG
ACTTCCAAGGCAAAATCAAAGCTTGACAAAGGGAGTGCTGGTGGCAAGGGGAAGGGGTCTCCTGGCCCCCAAGGAGCCAAGGAGAAGCCCGACG
GCGAGTTGCTGGGGATAAAGCTTGAGAGTGGCGAGCAGAGCGACCCGAAGAGCAAGTCGAAAAAGAAGAAATCCCTCAAGAAAAAAAAAGACAA
GGAGAAAAAGGAAAAGAAGAAAGGAAAAAAGTCCCTGGCCAAAGACTCTGCCTCGCCGATCCAGAAGAAGAAAAAGAAGAAGAAGAAGTCAGCC
GAGCCTGCCGTGTGA

HUMAN SEQUENCE - GENOMIC

CAGGGAAAGGTAGACAGGTAGTTCCCCTCTGCCTCTAACCTGCTGGGGTCCTTGTCGAGTCACTTCCTGTCACTGGGCCTGTTTCCTTATCAGCA
AGAGGAGTGAGCTGGGCTAGATGCTCTCCAAGGACCCTTCTAGCTCTGAGAAATAAAACCACAAAAATAAGAAATTATGCTGATGAGGCTATGA
ATTGCTACAACCCTTTTGGCAGTTAATTGGGCTTTAGCTATTAAAATAAAACTCATGCATCCCCTCTGGTCCACTTGCAATTACATCATACAGA
ATTAAAGCTCCAGTCTGCAAGGATGTATTTACTAGGATGTTTAGAGCAACACTACTCTATTAGCCAAAAAACTAGAGGCGAATAACCTGTATCA
TATCATCTCCCATCTCTGTCTGTTGATGGCCCTACTGAGGGACTGGTTATGAGCCCTCTGGCAGCTGGAGCCTGTCTTGAGCCTCAGTTTCCTC
ATCTACAACCATTTGACATGCTTTATAGGATGTTGTGAGGTTTTGATTGGTTAGTGTTAGAGCCTGGAAGCACAGCTCCAGCTCACTGCACACA
CTCAACAAATGATAGCTGTTACTATTACTCAAAAGAGTGTGGCAGATCCCAGCATCTAGAGAAATAGCTCTGCTGTATTGTTATTAGGTGAAAA
AAGAGAGTTGCAGAGTTGAGTGTTTAGTATGATTCCCTTTTGTAAGAAAAGAAGCAAAGAAGCCAGGTGCAGTGGCTCATGCCTGTAATCCCAG
CACTTTGAGGGGCTGAGGTGGGTGGATCATCTGAGGCCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCATCTCTACTAAAAATACA
AAAATTAGCTGGGCATGGTGGCACATGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCATTTGAACCCAGAAGGCAGAGGTTGC
AGTGAACAGAGATCATGCCACTGCACTCCAGCCTGGGCAACAGAGCGAGACTCCGTTTCAAAAAAAAGAAAAGAAAAGAAAAAGAAAAAGAAA
AGAAGTAAAGAGAAGTGAAAAAGGAAAAGGAGAAGGAGGACTAAACCTTATGAAGGATGTCTGTGTTTGTCTGGGCAGAGAAAGGATGTGAAGG
GATTGAATACCAGGCTTCTTTCTGATTGGGAAATGAAGAGGCTCTAGTGTGGAGAAGTGGGCAGGGAATGGCTAAGAGGGAGGGAAAAATGATG
GACTTTGTCTTAATATATCTCTGAATTGTTTAACTTGTTACTTCAGTAACAACTTGTAAACCTTTAAAAGCTCCTGTGAGATTAAAGATTTCGT
GTCATTTCACGAAAGGGAAGGAAGTCTTGGGAAATCTACTGGCCAAAATGACTTGGCCCAGGGAAAACCTGTTGTTACAATGGATGAAGGGAGC
TACTGGGAAGGGCACCCTTCCCAGATGGGCCCTTCTCTTAAGAGTTCCACTACTGGAAGGGTCTTTGTTCAACAGCTTCATTTAACAGAAGGTA
ATGCTGAGGACCAGAGAGGGCAAGAGACTGGCCCAAGGTCACACAGCTGAGCCAGGTGAAAAGGGCCTGACTCCTGACAGTAACACAGGGGAGA
GGCCCAGTAACCTTTCCCCTGTATCGCTGCTACCTCCCACCTCTGTGTCAGAGCCATTCCTGCTGGGAGAGACAGGTAGAGTGCCCCATCTGTT
GAGCTTCCTTCTCTTCTGTTGTTCATTCTTCCTTCATTCATTTCCTAAGTGACCTCGCCGTGCCCTGCATGGGAATCCAAGGTGACTAAAGCAT
GCTGCTTCCCCAAGAGGCACTCGCAGTTCAGTGGTCTGGGAGCATCTGGCTTCTACCACTAACAAAGGCATTTTCTCTTACTGGTAGAGAAATG
CTCTGAGGCTAATTTTTTTTTTTAATGCACTGTTTTGTTTGTTGCTGTCTTAATAGTTGCCATGTTATATTTTATCAGTTTAATGTTCTAATTTT
GTGCTTGGGCCCTGAGGCAATTCAGTGAAGGGTATGATTTGGAAAATGAGGGAAATAAAGAAATTGTCCACAGAAGAGACAGCCTCCCAGGAGC
CGAGGACAAAGCATAAGTGCCGACAATGAATTTTATTAGGAGCAAAACAAAAACAACCTGTTGCCAGACAGAAGGTATTAGACAATCCTGGTGT
GGTTTTGTTTTCGTTCTTTAATTTAATTCCAGTTCTGCATTTCTTCCAGGGTCAGCCAAGGATGCACAATCCAGTTCCTTCCCCACTGCCTTCC
AAAGCCTTCCACATTCCTGCCTCCAGGCCTAAACTCAGTGAGCACCTTGCCTGCCCTGCCCTCCCTTCTTCTTCAGGAGAGGTCTGTAACCATT
CCTGCACTTGCCAATACTTATTAAGTGCCTGCTGTATGCAGGCACTGTGCAAAATGTTGGAAATAATGCAACCAACAAGGCAAAGGTAAGTCTG
CCTTCAGGGAGTTTACATTCTACTAAGGCATGCATTCTCAAATGGGGCCTTGATGCCCTCGAGGAAATGAAAACTGGTTCCTGGAGGTGTTGGT
GGAAAAAAATCTTAGATCTTACAATGGTTTGTATGCTCATCATGTACATTCATCACCCATCCAGCCACCCAAGCAGAAACCTGGGTGTCACCAC
CAGTTCCAGCTCCCAGCCCTCTCTGATCTCAGGGGTCCCTCATAAGGCCTGGCCCGTGAAGGATTCCACTCTCTCCCTGCAAACATCCATCTGC
CTTGCTTCCCTCGCTACCCAGTGTAGATCCCAGGACCCAGAATTTTAGCATCTCTTTGCCAATACTTTAGACTCCTGTGCCCTTTTTTCCCCAC
CCATCTGGCAAAGCCCTAGGCCTGGATAAATCCCACTATGTACATACATCTCCCCAGCCTGCAGCTGGGTAGGTGAGCCCTGATGGAGGAATTC
ACTCAGCAGGACAGGACGAGACACACATACACTAAGGACCACCAACCTCAACTGGGGAGCCAAGGCTGTCAGGCAATTGGGGATTTTGTGGGCA
AGTTGCTTCTCAACACTCTGAATGATCATTCTTTCAAACTCCTCACCACCTCTTCTTCACTCTCAGCAGAAGACCTTGCCTCCCACTTTGCAGA
AAAAATAGAAGCTCAAAATGAAATCTCCCTTAACATCCCACTATAAACCTACATCTACATCTGCACCCATCCTCTCTTTGTTCCTGCTTTTGGG
TTCTAGAGAACTCATCCCTCCTCCTCCCCAAGACGAACCCCCCCAACCCACATGCCTGATCCCAGCCCCTCGCACATGCTTGAGAGAACTTTAC
TCGCTGATTATCTCCCCTATTTCTTACACTCTTGGTTAACCTCTCTCCTGGATCTGCCATTCACTTTTAAACAAATCTCAGGTTTCTTCTAC
CTTGAAACACACCTCCCCTAACATACATATTGGCCCTAGCACTTTATCTTTCTCGTCCTTTTTATACAAAAACTTCTCGAAAGACCCACTGCCT
CCCTCATCCCTCCTGCACTCATCAGACCACTGCCATCTGACCCCCTCCATCATGCCACACATAAATAGCCCTCCCTAAGTCCCCAACAATCTCC
ACGCCTGTCCATAAACCAAAGCCCAGGGCTGCACCCTCCTCCTATCTGACCTCTCAGAGCATTCCCTCCATCAAGTCTTCCCAGCTTTCTAAAA
TGTCTCCCTTGGCCTCCTTCCATAAGCCCACTCTCCTGGGCTTTCTCCAAGCTGTCCAGCCACTCCTGATCAGCCTTTGCAGGCAGATCCTTTT
GTACACAGCCCTAATCTGTAGATGTACCTCAAAACTTCATCCTGGGCCATCTCTCTTCTCTCTCCACATTCTTCTCCCTGGGTAAGCTTCTCCT
CATCCACAGCCGCAATTATCATCTGTCTATCGACAACTTCTCATCTTCATCTCTAGCCCAGACCTCCACGCCACGTCCAAACCCAGGTTTCCAA
GAACCTTCTCAACATCTGCATGTGGTGACTGTAAGGCATTTCAAGCTCAAGATGTCTAACATAGAATATATACTTTCACCTCTCTGTCCACATC
CTCCTCTCCTCAATCAAACCACCCCCCTGTCTCAGTCCTCTTCTAGTTTTTTCTATCTCAGTGAAAAATACTGCCTACTTGTTTGCACAGAAAC
CTCAAGGTCCATTCTGACATTGCCTTTTCCTTCCCCTCCCATTCCAACACACCTCTGTGAAAACTTTAGTTCCTGATTAACTCTGGGAACCTTC
CACTCTCTTCAACTCCACTGCCACCAGCACCCTCCCCGCTGCCCCCGCCACCTACCACCCGCCCCCCCCCCCCCACATACACTGTCTTCTCCC
TGGATGCCTGCCTGCACTCCTAACCCTGACTTGTCTTCCCACATCTACTCATACCCACCAGACACACTCCACTCTCCACTGGGCAGGCACACAG
GTCACAGTAAAATTCAGATTTCATCCTGTACCTCTTGGGCTTACACCGTCAGTGGCTTCCAATGGCTCTTAGGATGGAGGAAAAAAAACCCTGA
TGTGGCCAATCCTTCACATGGAGTCTGCCCTCTGCCCACCTTCTACACTCCCCAGTCCCCCTGCTCTCCCTCCGGACTATGCTACAAAGGCCTT
TTTGTGTCTATTCTCTCAGCTGTACCTTCTGCCCTAGGCCCTTTGCACAGGTTCTTCCCTCTGCTCAGGTTTNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN



TTCCCCCAAAAAACTGCTTCAGTGAGCTACTCTGCACACTCTTCCCTGCCACTGGCCCCTTCTATGGGTGAGGGGGACAAGGACCTCAAACCCA
CGAAAGGCAGCCTAGCCTAGCAATTCCCTGCAGAGTTCAAACCCAGCAACTAGCTGTATGTATGACCTTGAGTGGATTTCTTGGCCTCCCTGAG
TCTGTCTTCACCTATAAAATGAAAATAATGATGGCAATTATCTCATTGCATTGTGAGGGTTAGACACAGTGCTCCATATAAAGTGCTAAAACTA
CCGGTTGGAGGCTCCCCGACTTCCTGCACCCGCCTCAGTATTTATTAAGCATCTACTACAACCCAGCAATATTCTTGATATAGCTGGGAACAAA
CCAGAGAAAAATCCCTGCTCAACATTTTTGTTGGGGGAAAAGAGGCAGAATAAATTGATACATGTAAAAATGAAACCTGTTTTTAACAGGAGAA
TCCTGACAAGTGGCTTTCCTGGGAACAAGGGACCCTACTATCACATCCCAAACCATGACAGAGCAGAGTCCATCGCAGCTGGGAAACCTGGGGC
CTAGACAGTGACTCCCTGGGATGGGGGTCAATGGGCGTGAGACTTCAAAGTCCAGGGCCTCAGCCATCTGGGTGCTTATCCTACCCATGCCCTA
GACTCACTTTGCCATGAGCAAGTCACTTAGTTGTTCAGTTTTTGAGACATGTGTGAGGCACTGAGGATACTGTAGTGAGCTGCCAGCTGCCTTC
CTCCCTGGGCCTTTCTGTGTAGGGGAGGAGTCTAGGAAGTAAGTAAAATAACAGGAGATAGAGAAAAGCTATGAAGAAAATGAAACAGGATCAC
AGGGCAGAGCATGCCTTGGAAGAGGGGCAATCTTCGAGGGCCTCTCTTGGGGGGCTACATTAAAGTTGAGACGGGAAGGACGAGGACCTGGGCA
GAGTCTTCCAAGAAGGCACAGTACACACAGCATGTTCTGCAGGGGGAAGAGCCTGGGCGGTTCTGTGAGGTGCCTGCATGGGTCAGCTCCTATC
ACTTAAAGACTGGTAGCTGCTGCAGCTGTTATATAACATTATCCAGCATTCCTGATTATTTTAAAGACTAATCAAGAATTGTAAAAGCACTTTA
TGAAGTGAGTGAAAATGCAGAATACAAAATTGTGCCTATACTGTGTTTTCACCACTGTTTAGATTCTATGCACATTGCCTTTAAGAGCTGGAAG
GATGCGGGAAGGTCTGTCTAGTCAATTCTTGTGGAGTTGTTCTGTCACCCAGTTGGTATAGACAGTCACCCTTGTCCTGCAGAACCTCAGAGCT
TGGTCGGAAGCGGAAGGCAGAGGAAGATGCGGCACTGCAAGCTAAGAAAACCCGTGTGTCAGACCCCATCAGCACCTCGGAGAGCTCGGAAGAG
GAGGAAGAAGCAGAAGCCGAAACCGCCAAAGCCAGTAAGAGCCTTGCAGCTTTGGGAACAGGCTATGGAATATTGATTGTTCTAGGGTAGAGTC
TACCTCCAGCTTCTTCTCTTATCACTAGAAGACCTAAAAGACCCTGGGGAGGAGATTGGGAGGGCACCACATATCTTTGGCAGTATTTGAGCCC
TTCCTCCGTGCCAGGCATTATATCTCCATGCTCTGGGGGTGCAAGGCCGAACCAAAACAACCAGATGGGCCCTTCCAGTCTCATTTGGTGTATG
GGGCCCAGGAGCTGCCCTATTACAGGCTCCCAGGTGATTCTTATTAGCTGGAAAGAAGACACACGTTCAGAAGTACTGCTGGAGGGATTTCAGA
AAGCAGCTAGCGGACACATTTTCTGTGTGACCTGTGGGATGCTTTAGGAATTGCTGATCTTCATGTTCGTTTAGAATTGTACCCATTAGCACTG
GAACGCTGTACTGGGCACTGGTTTTACACCGTTTGCAGGAGTAACTCAGTCAAAGCTTTATAGCCCCTTCTTCTCCTAAGGTCCCAGGGCTCC
TTGTACTTTCCCCAACAGCAGCCATAACTCTACAGAGGAATTGCTGTGTCTCCTTTGCATCGTATTATCTTCTTTTGCTTACATAGAAGACACA
TTTCTTAATACTTATTTTTTATTTTTCAAGACAAAGTCTTGCCATGTTGTCCAGGCTGGTCTTGAACTCCTGAGCTCAAGTGATCCTCCTGCCT
TAGCCTCTTGAGTAGGTGGAATTCCATGCACATACCACCATGCCCAGCTTCCTGAGTCTGCTTTTAAAGTGTTTGAGATCATACTAGGTATATA
TTTTATTATTTTTTTGAGACGGGGTTTCACTCTTGTCACCCAGGCTGGAGCACAATGGCGTGATGTCAGCTCAGGGCAACCCCCGCCTCCTGGG
TTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCATGCACCACTACTGTCAGCTAATTTTGTGGGTTTTCTTTTTCTTT
CTTTTTTTTTTTTTTTTTTTTAATAGAGACGGGGTTTCACAATGTTAGCCAGACTAGTCTCAGGTGATCCGCCCACCTTGGCCTCCAAAAGGGC
TGGGATTACAGGCATGAGCCACTGCGCCCTGGATATATTATTATATCGCTTAATTTTACATTATAAATGCAAAACGAGTTCACTTTGAACTGT
AGAAGAGCATATAGAAGAAAACTTAAAGGTTTTTTGTTGTCCTACCCTGTTCCCTATCATTCCTAAGTGCATCTCCTCATAGGTAACCTTTAAA
ACTTCCTCCTTTGCCTCTATATTCATTCAAACATGTATTCTTACATGCATATATACAGACCTGCATGCTATTTGAAACACAAATGGTAAAATTT
CTTACTGATTGGCTATTTGGTATTAATCAATTTTATAAGCTGTGATAATGGAGGTGTAATTACATTTTTTTGTTTGTTTGGGGCTTTTTT
TGATATGAGGTCTTGCCATGTTGCCTAGACTGGCCTTGAACTCCTGGCCTCAAGTGATCCTCCTGCCTCAGCCTCCGGGTATGTAATTTTATTT
TTTTAAAAGTCTTCACTGGGTTGGGCATGGTGGCTCACACCCACCGGTAATCCCAGCACTTTGGGAGGTCAAGGTAGAAGGATCACTTGAGCCC
AGGAGTTGGAGACCCGCCTGGGCAACATGGCAAAACCCTGTATCTACAAAAAATTTAAAATTTAGCCAGGCATGGTGGCGTGTGCTTGTAGTTT
CAGCTGCCTAGGAGGCCTGAGGTGGGAGGATTACTTGAGCCCAGGAGGTCAAGGCTACAGTGAGCCATGACTGTGCCTGCACTCCAGCCTGGGC
AACAGAGCAAGACTGTCTCAAAAAAAAAAAAAAAAGGAAGAAGAGTCCTCGTTGGCATCCTGGGCAACATAGTGAGACTCCGTCTCTGCAAAAA
ATAAGAAAATTAGCTGGGCATGGTGGCATGCACTGGTGGTCCCAGCTACTCAGGAGGCTGAGATAGGAGAATCATGTGAGTCCAGGCATTGGAG
GTTGCAGTGAGCTATGAATGTGCCACTGTACTCCAGCCTGGGCAGCAGAGCAAGACCCTGTCTCAAAAAAAATTTAAAAACGCATCCTCATTGA
GAGAGAAACATGCTGAAGTATTTGTGGGCAACGTGGTAGGATCTATGGCATTTTCTTCAAAGTAATGCTTGATGGGGAAGGGTGAGTGAGATAA
TACATGAGATGAAAAGATTGGTCACAAGTTGTTAATGGTTGGAGCTGCCTGGTTCTTCCTTTCTATTTACTACTTAAAAATTTTCCATAATTAC
AGAAAGAGAGAGATGGAGTGAAGTGCCAGGAAAAGAATTAGATCATGCCATTCATCTCAGCAACATTCTTCTTAACAAAAAGAAATCTGAGATT
TAAGGAGACAATACCCTGGTATAAAAGCACTGAGAAGCTGGGTGCGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCAG
ATCACGAGGTCAGGAGATCAAGACCATCCTAGCTAACACGGTGAAACCCCGTCTCTATTAAAAATACAAAAAATTAGCCAGGCATGGTGGTGGA
CGTCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATAGTGTGAACCCAGGAGGCGGAGCTTGCAGTGAGCCGAGATTGTGCCACTGCA
CTCCAGCCTGGGCGACAGAGCAGGACTCTGTCCCAGTAAATAAATAAGCACTGAGAATCAGTGAATATCGATATCTAACGGGGCCCAGGTGGCA
TGGTTCAGCCACCTCTCCACTAAGAAGCCATTTGAATTCCAGGCAACTTTCTCTGTGGACCTGAGGCTGGCTGCCTGCCTGACCACTGCCCCTT
CTTGCCGAACAGCTTTCAGGGCTACAGTGTGGTGGCCTGTGTGAATGGTGCCCATTGCAGTGTGCAGTGCCCAGTAGGCAGCAAGAATGTGGGC
CAGTCCTTTTCCCTCCAGGGGCCTCCACGTCTCATGCTGCGGGGGAGTTGGGAATCCATCAAGGATGCAGACACATAGCTTCATGTTACCATCC
TCTTCTCTCTTGCTCCTGGTGGACCTGGCTGATGCATCACAGAGCTCATTCCTGCAAGTCTGGGCTCAGCCTCAGATCCTCATGCCAGCACCAG
GCAGCCAATACCAATAGAATTGTTAGGTGAGATGAAACCTGTTTGCCATTCATAGATGAGAAAAGCTCATCTGGCTCCTTTAGCAGATGTTTGT
TTCTTGCAGCCCCAAGACTAGCATCTACCAACTCCTCAGTCCTGGGGGCGGACTTGCCATCAAGCATGAAAGAAAAAGCCAAGGTGAGTGGGAC
TGCCTTCCAAGCTATTGCCTATGGGATTTAAGGTGCCTGGTAGGGGACAGTCTTACATGTCAGAGAAGGATAGGGTTGTGAGTAATTGCCCCAC
CTGGATTCAGAGCTCAACCTGTGTCACCAGTTGTGGGATCTTAGTCCCTTCACCTCTCTGGGCCTCAGTTTACTTTTCTATAAAGATAAGGATG
ATGCCTGCTGCAGTGGGCCACTGGGCACATTCTACACCTGGGGTAGGCGATTTCTTTCCTCTTTCATGCCTGCGTTCACCCGTTCACTCAACAG
ATCTTGACTAATACCTGTTATGTTCCAGGCACTGTGCTAGGTGTGGAGGCACCGTAGTGATCAAGACATCTGTGGTTCTGAAACTCTAAAAGCA
TTTTCCAAACTGGAAACTGCTCAAAAAACAAGGTGTCATTTTCTAATAATCCAGAAAGCAGAGTTAGATACATACATGTATAAAGAATTGTGCC
TCTGCGATTGCCTGGAGCATTAGCAACAATGTCTCAAAGTAATTATGAAGTAATGATAAGATCAACAACAAACTGCTACTTACCACTTAGTAAA
TAACTACCATGTCCCAAGAACTGGGATTCTGTTTTCTCAACACCTCTGGTGAGAGGAGGTGCTGTTTTTAACCTCACTTTAAAGATTGGGAAAC
AGATTGAAGGGGTAGTTTACCCAAACTCACACAGCTAAGAAGTGGTAAGATTGGGTTCAGATGCAAGTGGCCTGTGCTCTTAGTTCACCATGCC
ATACCAGATGTGTCTGTCACTCTTGTTCTCTGTAGGCAGAGACAGAGAAAGCTGGCAAGACTGGGAATTCCATGCCACACCCTGCCACTGGGAA
GACGGTGGCCAACCTTCTTTCTGGGAAGTCTCCCAGGAAGTCAGCAGAGCCCTCAGCAAATACTACGTTGGTCTCAGAAACTGAGGAGGAGGGC
AGCGTCCCGGCCTTTGGAGCTGCTGCCAAGCCTGGTAAGAAGTCCCCACCTCTAGGAACCTAGTCCCCAGAACTTGGGCTGGTGAGGCAGGCCT
AGGCATTGCTTTAAGTTCTGGGACATTTCTGGAATCAAAAGTTTGTCTCCAGGACAGCCAGGTTCCTGCATCTTAGGACTTTTCTCATCACCTA
GACGAGGGAGGGTCAGCTTACAGGGACCTGGCCTCAGGCTGAACAGCCCACCTGGTGGTTGGAGCATTTTCTGCTTTATGACTCCCTGGTGAGT
TACAGGGACAACTGGCAGCTCAGAGACTAAACTGAAAGGCCTGATTTGCCTCTGTTTCCTATGTAGAGTAGACATCTGTCTGGCCTGCATCAGT
GGATATGATGGTGGATGGAGGTTCTGTAGACTGTCAGGTGCTGGTGCATATTTGTTGGGTCCCCTCACAGCCCTTCCCAGGGCCTCAGAGATGT
GTGGGAACATAGGGATGGTGATGGTACCCACCTCAGAAGGGGGCTTCACAGCTCAGTGCATGTGAGGCACACGAGGGGTGAGCGCTCAGCACCT
GGCTTTGATGAGCAGCTGGTTTGTGGGGAGGTGCTGGGGAGGGGCAGGTGAGGCTGGAAAGGGAGTCCCTCAGTCCCCTCCGTGTCCGATCCTC
AGGGATGGTGTCAGCGGGCCAGGCCGACAGCTCCAGCGAGGACACCTCCAGCTCCAGTGATGAGACAGACGTGGAGGTAATTGCCACCCATCCC
TAGGAGTTGCCCTCTCCCAGCCTCTAACCCTTCCAGGAACCTGTCTGGGGCTTCAGACACCAGTGGGCCCAGATGAGTTCAGCAACTGTGGTAG
GGTGACCAGGAGCTGGAAAGGCTGCAGCCGGAGAGGGGCAGGGAGAGGAGTCTGGTGCTGCTTGCTGCACTCTGAGTGTGAGATCAGCCCTGGG
GGCAGGAGAGGGACACCCTCCTGCCTGTGAGACTAGACAAGCCTTCCTGGGAGAGGTGCCCTGGAGTAGGGCCTCAAAGCACAGTGGGCTTCAC
TGGGAAGGGATGTGGAGGAGGCAGGGCATTCCAGACAGGAAATGGGGCAAGAACAGGGCCCAGAGGCAACAGTGTGGCTGTCGTGGTCTGGCTA

GGGCTGCGGCTGCTGAGAGGGTTCTGGGCCAACTGGTGAATGCCAGGCCTAGACACTTGGCTAGAGTTGGGCAGGACTCTTGGGTTTGTGAACT
TTGACCTGGAAAAGGTCTCCACAGGTTACTTTTTATTGTGTACCTACTAAGTGGCAGACCTGGGGAATATAGTGATGAGCAGGACAGGCAGAGT
TCCTGCTGCCATGGGGCAAGGGAGCGTCCCTCAGATATTTAATTGGTGATGGCTGCTATGAAGTGGAAATGTAGAGGGCCACGCAGGGCAGGAA
CCTGACGTTGATGAGTAGGCGTAAGCAGAAGGAATGGCATGTGCAGAGAAGGCGGCAAAGAGAGTTTGGTGCTTTTAAAGAACATTGATCTTTT
TTTAAGACAGTCTCACTGTGTCACCCAAGCTGGAGTGCAGTAGCGCGATCTTGGCTAGCTGCAACTTCCACCTCCCGGGTTCAAGCGATTGTCG
TGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGCACGCCACCACGCCTGGCTAATTTTTGTATTTTTTGTGGAGACAGGGTTTCACCATGTT
GGCCAGGCTAGTCTCGAACTCCTGACCTCAAGTGGTCCATGTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCGCCACGCCTGGC
CAAAACCTTGATCTTTAAATGAGAGGGAGAAACCAGGCACGGTGGCTCGCACCTGTAAGTGCAGCACTCTGGGAGGCCAAGGCAGGAGGATCAT
TTGAGGCCAGAAGTTTGAACCCAGCCTGAGCAACATAGTGAAACCCTGTCTCTACAAGATGTTATTTTTTAAAAAAACAAATAAATTATGGGGA
AAGTGACACAAGATGAAGTCCTAGGTAGACAGGGGCCAGATCTTCTGTCTGACCTTGAGGACCACCATAAGGAATTTGGGTTTTATTCTAGGGG
CTGTGAGAAGCCATGCCAGCAAGGAGAGATGGCCTGATTTGCATTTAATAAGATTGCTGGCTGCAGCCTGGGTTGGAGGGCAGTGCAGAATAAA
AGCAGTAAGACCATGTAGGAGACTATTGGAGTAATACTGATACTGGCATAAGAGGCTGGGGGCTGGGAGACCAAGGTGTCCACAGTTGGAAAGA
TGTTTTCAAGGGAAAACCAGCACAAGTCAGGGATGAACTGATCTGGTGCCCAGGGAACTTCTCACTTTACTGTGCTGCCTGGCCCAGTAACCCT
GTGAAGGTTGAAAGCTCACCCCCATCTACCCCAGGCCTTACCAAGGGCTGCCCTCCACCTTCCGTCCTCACCCTTGCGCCCTAGATACCACCAG
CTGTAAGGACATCCCTGGCTTCTGTCACCCCAGGCCTTGCCAAAGGGAAGAAGACCACTCCCAGCCCTCCATAAACACACAACCTCAATGGGCT
GAGGCTGTGCAGAGCTCCAGTAGCAGACGCCCCAGAAACCCAGGGCCGCAAGGGGTCTGATGGATCTCAGAGGTAGAAGTAGGGCACTGACTGC
CTGGGAAATGTCTGAATTGTGGAAGTGTAGGAAAGAGCTCACAGAGGGAAGGAATTTGCCCAAGGTGTGGCAAGCCAGTGGCAGAGGTGGTGTT
CACATCCTGAACTCCTGGCCCTCAGGAGGGCTGCTGTGATCAGATACTTGAGTTTAAGGGGCAGACAGGATGCGCTCTCCTGATTGAGATGCAA
GCCCTTCTCTCAGGCCAAGCCCGGTGTGTGCCAGGTGGGAGATGAACGTAATGGTTTTGAGATCTGTTCCAAAGTCAGACAGTCCAGGGTTCCA
ATGGGGCTCTGTCCCTTCATATTGATCATGAGTGATTTTACCTCTTTAAGCCTTGTGTACTTTTCTGGAAAATGGATCTAAAGCTAATAGCCGT
CTCAGGGAGTTGCTTAAAAATCCAGTGACATTAGGAAAGAGCTTTATCAACTGCTGAAGCCCCTAATACAGAACCTTAGGGGGAAACAGTAATT
ATTATTCATTTTCTAATTCCATCCTCTTGTTCCAGGGGAAACCCTCAGTAAAACCAGCCCAGGTCAAAGCCTCATCAGTTTCTACTAAGGAGTC
TCCAGCAAGAAAGGCGGCCCCAGCCCCTGGGAAGGTGGGGGATGTGACACCCCAGGTCAAAGGAGGGGCCCTGCCCCCAGCCAAGAGGGCCAAG
AAGCCAGAAGAGGAGTCAGAGAGTAGTGAGGAGGGATCTGAAAGTGAGGAGGAGGCCCCTGCAGGGACACGAAGCCAGGTGAGGCCTGGAGGAG
GGCTGCCCCTTGGAGGACCTGCGGGTCCCCCAGCAGCCTGAGCACTCTGCCATGAGCACCTCTGCCACTGGAGTTGGGGAGAGGGAGGACTATG
GTGTGAAGTTGAAGAGCAAGAACAGCCTGCTTCCCACAGGGGAGTCTTGCACTCCACTTTGTCTGTGACCAACTTTACCTCAGTTTCTCTGCCT
AGTAAATGGGCCGCTGTCCTCGTCCCAGCCAGTCCTGCTGTGAGGGACTTGAGAAGTTTTGATTGCCTAATCCTCTGACTTCTCAGGACAAACC
AGACCCTGAGCAGGCAAACACTACGTTAGCTAAAGGGAATCCAGTTCCCTTCCCCATCTGCTGGGAGTGGGCAGGGCTGCAGCCCCAAGGCCCT
GGGTGTATCCCAAGGGCAAGACAGGGGGGCTGGAAAGCAATGGAAGTCAGAGCAGGAAGGAGGAAGAGTGAGGGTCACCCACCCAGCCCCAGGC
CTGGGCAGGACAAGGCGGGGGCATGCAGTAGATAAGCAGATCCCCTGCGTTAGCTGCTGGTAAATGGTAAAGAGGAAGTGGGGGACATAGGAAT
GGCAACTTGAAGCAGAGTGCTCTGGGCTGGCCTTGGGAGAAGGCGTCTCAGTAAAGACCAGAAGGAGGAAGCACTCTTAGGAAGGTCATTCCAG
GCAGGGGCTCAGCAAGTGTCAAGGCCCTGAGGTAGAAGTAGGACTACGAATTGTGACAAATTGTTGTTCCCACCCCATCTACAGGGAACTTCTA
CGCCTCGGCTGTCTATTTTGCAGTGTCTGGGGGCTACACAGTGTTGGATGGGCATCCACTTTGAGAAGGAACACAAATGTGAATTTTTTTTTTG
AGACAGAGTCTTGCTCTGTTGCCCAAGCTGGAGTGCAGTAGCGGCAATCATAGCTCACTGCAGCCTCACTCCTGAGTAGCTAGGAATACAGGCA
CACACCACCACACCCAGCTTGTGTGTGTGTGTGTGTGTGTAGACAGGGTTTCACTGTGTTTCACAAGCTGTGGACTCAAGCAGTCCTCCC
ACCTTGGCCTCCCAAAGTGCCGTGATTACAGATATGAGCCACCGCACCTGGCCATAAATGTGAACTTTTATGTAAAATCTGCTTTCTCCATGTT
GGCTCAAAAATTTAAAAAGGAGCTAGCCAAGCAAGACCTGTGTGGAGCAGCCTGCACTTTCTGCATGAGAAGCTTCTTAGAAGATCAGAGCTGC
TGTTTTCTAGGGTTGTTGGCCCAGGGCTGAACACCCAGGGCCTTCCAGGGAAGACAGGGCCTGCAGCCACCCTGCCAAAGCCCCAAGACAGTGC
AGAGCCCCACCGAGGAGTTAGTGAAGAGGGGGCCAGGTGTGCAAACCTTGCCCCATGAGGCTGAGGGTGGGCTTCCAGGGGTCCTGCTGCTGTC
CATGTGCAGAAAGTCCAGTGAGGGCCTCCCTCAGTCCCTTCCCCACTTTCAGACTGCCTCTTCATTCCTTCCCTTCCCTGGGCCTTTGCACACC
CCCTCCCCACAGCCCAGTCTGATGATGCTCCCGATAAGCCAGTGCCTGTGCCTCCAGAGCTCTCTGGCCAGTGGGAGCCCAGCAGAGGACAGGC
TCTAACTACCCAGTGTGCTGGGGCACCAGGGGGAACCATGTTAAGGAAGTGGTGTCTCTTAGGGAGCCAGAGACAGAGGAGGCAGTGGCTAAGT
GAAATGGAACAGGGGGCATGGAGGCTCCAGGAGTGAGAGTGTGTGAAGCTGATCGATTTTTGAGAAACCAGGAGGCCAGTGTGGCCAAAGTATC
AGTCAAGGTGGGGAGTGGGGAGGGAAGCAGGGGAGGTCTTAGGAGCCTCATTAAGGCCTCTGGACTTTATCCTAAAGGCATCACCAGAGAGTTT
TCACAAGCAGGAGAGCAAGCTGCCCTTTCTTTTTCACCAGGTAAAGGCCTCTGAAAAAATTCTCCAGGTCAGAGCTGCCTCAGCCCCTGCCAAG
GGGACCCCTGGGAAAGGGGCTACCCCAGCACCCCCTGGGAAGGCAGGGGCTGTAGCCTCCCAGACCAAGGCAGGGAAGCCAGAGGAGGACTCAG
AGAGCAGCAGCGAGGAGTCATCTGACAGTGAGGAGGAGACGCCAGCTGCCAAGGCCCTGCTTCAGGTGAGGCCTGAGGAGGGAGACTCCATGCA
GCCAGGCCCGTCCCCAGAAGGCCTTCTCAGGACTTGTTCTCCCACTCTGGGCCAGAGCCCCGGGCGTGCCTCAGACCCCAGCCCCTTACTCCCC
TCTCACTGTGTGGCATCATTTGCCCTATCTGGTCTTCTGTACGTGGTGTCCTGTGTCTCCTCACACGTCCATCCTCTGGGCTGTCTCCCCTTGT
CTTGTTTCTCCAGGCGAAGGCCTCAGGAAAAACCTCTCAGGTCGGAGCTGCCTCAGCCCCTGCCAAGGAGTCCCCCAGGAAAGGAGCTGCCCCA
GCGCCCCCTGGGAAGACAGGGCCTGCAGTTGCCAAGGCCCAGGCGGGGAAGCGGGAGGAGGACTCGCAGAGCAGCAGCGAGGAATCGGACAGTG
AGGAGGAGGCGCCTGCTCAGGTGAGGCAGAGGGGAGGGGTGGAGAGTAGCCCCATGCCTAAACCCCAGCACCTGCATGGGTGTGGCCACCTTTG
CCACATCCAGCTCCTGTCTCCACACGTCCACCCTCTGGGCTCTCCCCTCATCCTGTTTCTCACTCCAGGCGAAGCCTTCAGGGAAGGCCCCCCA
GGTCAGAGCCGCCTCGGCCCCTGCCAAGGAGTCCCCCAGGAAAGGGGCTGCCCCAGCACCTCCTAGGAAAACAGGGCCTGCAGCCGCCCAGGTC
CAGGTGGGGAAGCAGGAGGAGGACTCAAGAAGCAGCAGCGAGGAGTCAGACAGTGACAGAGAGGCACTGGCAGCCATGAATGCAGCTCAGGTGA
GGCTGGAAGCCGCCCTGCATGGCCTGTGCCCTGCCTCAAAAGACCTCCTGTGGTTTTGACTTTTCCTCTCTGAACCTAGAGCCCTGTGCGGCTG
GCTTCGTTTGCTCTCCTCCCCTCACTCACATTCTCCTTCTGGACTCCCTCCCTAATCTTGTCCTTTGTGTCTCCCAGGTGAAGCCCTTGGGGAA
AAGCCCCCAGGTGAAACCTGCCTCTACCATGGGCATGGGGCCCTTGGGGAAAGGCGCCGGCCCAGTGCCACCCGGGAAGGTGGGGCCTGCAACC
CCCTCAGCCCAGGTGGGGAAGTGGGAGGAGGACTCAGAGAGCAGTAGTGAGGAGTCATCAGAGAGCAGTAGTGATGGAGAGGTGCCCACAGCTGTGG
CCCCGGCTCAGGTGAGGCCCCTTCCTGTAAGGCTCTTTCTTTTTCCCCCCCACTCAGAGTGGAGCTGCCTGTGGCCTCCCAACCTCACACTGGG
ACTCTGTCTACAATCTTAGTTTCTTAATGTCTGCACACACCTACCCTGGGCTCCCTCTCCCGATCCTGTGTATCTCACTCCAGGAAAAGTCCTT
GGGGAACATCCTCCAGGCCAAACCCACCTCCAGTCCTGCCAAGGGGCCCCCTCAGAAGGCAGGGCCTGTAGCCGTCCAGGTCAAGGCTGAAAAG
CCCATGGACAACTCGGAGAGCAGCGAGGAGTCATCGGACAGTGCGGACAGTGAGGAGGCACCAGCAGCCATGACTGCAGCTCAGGTGAGGCCTG
GGGAAGGAGGCTGCTACATGGCCTGATCTGCCACACCACAGTCAGCACCCCCGGGGAGCTGTGCTCCCTCAGGCAGAGCATGGGTTTTGGCTGG
TGGGGCAGAACAGATGGGGGACTCTGAGTTCAGGAACCTTCTCCAGCCTTTCTTTGGTGTCCCCTCAGGCAAAACCAGCTCTGAAAATTCCTCA
GACCAAGGCCTGCCCAAAGAAAACCAATACCACTGCATCTGCCAAGGTCGCCCCTGTGCGAGTGGGCACCCAAGCCCCCGGAAAGCAGGAACT
GCGACTTCTCCAGCAGGCTCATCCCCAGCTGTGGCTGGGGGCACCCAGAGACCAGCAGAGGATTCTTCAAGCAGTGAGGAATCAGATAGTGAGG
AAGAGAAGACAGGTCTTGCAGTAACCGTGGGACAGGTGAGGCCTGTGTTTTCTGGGCGGGCCTCAGGGCCGCCCCTACGTGGTCCTTTGGACTC
CTGGAGACACCTCTCTTCCCCTTGTCATCCCAGGCAAAGTCTGTGGGGAAAGGCCTCCAGGTGAAAGCAGCCTCAGTGCCTGTCAAGGGGTCCT
TGGGGCAAGGGACTGCTCCAGTACTCCCTGGGAAGACGGGGCCTACAGTCACCCAGGTGAAAGCTGAAAAGCAGGAAGACTCTGAGAGCAGTGA
GGAGGAATCAGACAGTGAGGAAGCAGCTGCATCTCCAGCACAGGTGAGGCCTAGAAGGAGCAGGCCCATCCCACCCACACCTGTTCCTGAGCCA
GGGCTGAGGATGGGCTTGACTGGGGGCTAGTGTTGCCTGCAGGTGTGCAGAAGCCTCAGAGGTAGCCTCAACACAGCTTCCTTCCCTATCTTTC
ACTCCATGTCTCCTCTGCCCATCAGAGCTCCAGGGTCTCTGTCTTGTTTGCCTTTTGAGGTCCTCCTGCTGATTGATTCCCTGTGGTTTTCACA

AGCTCTGGAGTTCCCACCCTGCCAGGTGCTGCCCTTGTCTGGGGTTGCTGAGGCCCTGTTCCTCAGGGAAGTCCTGTCTCTGTGGAGCATGGAC
ATGCTCCTGCAGTGTGGAGCGATGGGGTTGAGATAGAGGGTGTGAGCCTGGGCTGCGCAGCATGACAGGTGAGAGCATCTAGGCCTTTTACAGG
AGGTGGCAGCATCTGAGCCATGGGCTGAAAGAGTTGGCCAGGTGAAATGGGCAGGGAGAGTGTTCCAGGCAGAGGAAGCAGTCTGTGCGAGGCC
AGGGAATGAGAGAGTGCCTGGCTTGGGTGCCTTGCCACAGGCGGCACATTGTGGTGGGATGGCTGGCAGTTGTTTAGAGCCAGACCGCCTGGGT
TCAAGTTTCAGCTCCACAGCCTGGCAAGTGCTGTAAGCCCTCAGAGCCCTTACTCTCCTATAAACAGGAAATCAGCCCTCACAGGTTTGGGTGA
GAATTTAGGTGAGATCTCACCTGCTACACCCAGCAAGGGAGCTGCACACAGCAAGTTGTCTCTGTCACCCTGACGATGGGCCAGGCTAATGTGG
AACAGATCAGGAGTGAGGTCTCCAAGCCTGGAAGAGCTGAGAGAAGATGGCTCACTCCCTGCACTCACCCACCCACTGTTTATTATTTTTAATT
GTCGCTCTGTTTTTTTCTGTAACCACTCAGAAATTAGTCATTTCTTTTTTCTCTGTACCAGAGCACACATTTCTACTGATTTTTTTTTGTCCTC
CTCTCGTTGACTTGTGGGACCTCAGGGCTCTAGAATTCCTCCATTGAGGTTTTTAAGCTCTGCAGGGGCCCCTTCCAGAGCCGCCTCTACTCTT
TCCCAAGCTGCAGGCACATTCCAGACCCAATGCCTTACAGAGTTTCATTATGCAGCTCACTTAAATATTTGTCTTCCCTTCTGAGCCTCCCACC
TGTACCATGAGGTGGGTGTTTTATTTTATTTTTTGAACCATGGGCTATTTTGAAGTAAGCCGTTTAATTTCCAAATATCTGGGATTACCCAGG
TTTCTTTTTGTTGATTTCTAATTTAGTCACATTGTGGTTGGAGAACATATTTTGTATGATTTAAATCCTTTTTTGTGTATTGAGACTTGTTAGG
TCAAGTCAGTCTTGTGTCTTGTTTCTTGTGGAAAACATGGCTCCCCTCTGGAGGATTTACGTGCTCTACTGATGAGCACCTCGGCCTGAGTCAT
ACTTGGTCCACACTGTAGGGAATCTTCTTGAAGTCCTGATTCTTCACCTCATTTGACCTCATGTGTTTGAGGAATGCTGGGGGATGGGGTTGTT
TTCTGACACTGACCAGATGCCATCCCTGAGTGAGGCAGGGGCCTTGAGATGCTGCCAGAGTCCTCATTCTGTTTCACATTAGGCTTGCTGTCAC
TCCTGTTAAGGATCTCACTCTGGGAATTTCCCTTTTTTTTTGTTCTCCTTCTATTTGTTGGAATCCCTGACAGGCCTTTTGGGGGTTCTCTGGA
TATCGGTTAAGGCTAGATTAAGCTGAAGAAAACCTTAAACAACAAGTATCTTGTTCTGCCGTGGCTGCTTGAGCTCCAGCTCTGACCTCAGCAT
TCCATCTAGCCTGGAGGAGGAAGAGACATGTTTCTGACCTTTTATGGCACTCAACTTACATCCTATGAGCCAGAATTTAATGACATTGCCACCT
AGCTGAAAGGGAGCCTGGAAAACATCTGTTTTAGGTAGTCTTGTGCTTAGCTAATGCTAAGGAAGGCACGCACAATGAGTTTGAGTGTTTATTA
TGTTCCAGACATCATGTTAAACTCTGAATCTCCTATTTAGTCTTCATCATAACCCGTAGGTGGGCCTTATTATTATCTCCATTTGATAGAGGAC
TGAACTGAGGCCCAGTGAGATCAAGTGATGAGCTCAGGTTCACACGCCTATTGCATGGAGGAGCCAGAATCCAGACTCGGGCTCCAGCTCCAGA
GTCTGTATTCTTGGCTAGCTGCTTTACTCAATCTCACCTTCTCCCTCCTTAATTCCCTTTTCTCCACTCAGGTGAAAACCTCAGTAAAGAAAAC
CCAGGCCAAAGCCAACCCAGCTGCCGCCAGAGCACCTTCAGCAAAAGGGACAATTTCAGCCCCTGGAAAAGTTGTCACTGCAGCTGCTCAAGCC
AAGCAGAGGTCTCCATCCAAGGCAAGTGGGGCCAGAAGCCACAGGAGGTGTGGAGGGTTGGGGTAGAGAGGAGGACCAGTCACTGAGCCCAGCC
AGGAGAAGGTGCGTGCATGGGCAGGCCACCCACCCAGAGTTGTGCCATAGTGGGGAGTGGGACCTGAAAGGAATCACTTTTGCCTCCAATACTA
TTATCCCCCTGCAATTCAGGTGAAGCCACCAGTGAGAAACCCCCAGAACAGTACCGTCTTGGCGAGGGGCCCAGCATCTGTGCCATCTGTGGGG
AAGGCCGTGGCTACAGCAGCTCAGGCCCAGACAGGGCCAGAGGAGGACTCAGGGAGCAGTGAGGAGGAGTCAGACAGTGAGGAGGAGGCGGAGA
CGCTGGCTCAGGTGAGGGGGAGGGAATGGAGATCATCCCCTACATGGGATGTAACACCTTTGCCACATCCAGCTCCTGTCTTCTCACACGTCCA
CCCTCCAGGCTCTCTCCTCTCATCCTGTTTCTCCCTCCAGGTGAAGCCTTCAGGGAAGACCCACCAGATCAGAGCTGCCTTGGCTCCTGCCAAG
GAGTCCCCCAGGAAAGGGGCTGCCCCAACACCTCCTGGGAAGACAGGGCCTTCGGCTGCCCAGGCAGGGAAGCAGGATGACTCAGGGAGCAGCA
GCGAGGAATCAGACAGTGATGGGGAGGCACCGGCAGCTGTGACCTCTGCCCAGGTAAGACTTGCCAGGCCTCTGAGCCACCAACACTCACTCCT
CAGAACGGGGGTATAGGGCTGGGCGTGGTGGCTCACACCTGTAATCCTAGCACTTTGGGAGGCCGAGGCAGATGTATCACTTGAGGTCAGGGGT
TCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATATAAAAATTAGCTGGGCATGGTGGCGGGTGCCTGTAATCCCAGCTA
CTCGGGAGGCTGAGGCAGGAGAATCCCTAGAACCTGGGAGGCGGAGGCTGCAGCAAGCCAAGATCATGCCACTGCACTCCAGCCTGGGTGATGA
GAGTGAGACTGTCTCAAAAAAAAAAAAAAAGAAAAAAAGAAAAGTGAAAAACCAGGGTTTAGGGCCAGGTAAGGAAAAGAAAGGAAGGCCAGG
TTAAGGCTTAAGGCTCCAGCTCCACCATGCCCTCCTCCGTCTGCTGTCATCCACATCTCCTTAGGTAAAACCTGCTACTAAAACCCCCCAAACG
AAGACTTCCGTAGCTAAAAGTGTCCTGGGTCTATATCTAGGTCGAGGTCTCCACCAGCTCTATAAGCTAGGCCAGTATTTCCCACCAAGGCATA
TGAGACCAAGAATCTACATGTTAGTTATTGTGCATACGTTAACGTTATACAAAATGACTCTCCCTGTCAGAGTCCCAGGGAAGCTTGGAGTGTG
GCACAGGTCCCCCTGAGGTCCTGGAGAGATGGAGGAAGTCTCATCCTGCACCTTGGCCCGGAGCCTCACATAGGCAGGCGCATCTTCTCAGGCA
GGGCTTGTCTAGCTTAGTGCAAAGCCTGGACCCTGGAGAGTGGGGAGAAAGAAAATCTGAACAATTCCCTCTGTCTGCTTGCAGAAGATAGCAG
GGCTTGCTACATCCTACAGAAGTGTAGGATGACAAACTCCAGCACTGCCAAGGCACAGGTGTGTGATGGAAATGACTGATGCAGGCCTGGCAGG
AATGATAGATGTCGGCCGGGTGCGGTGGCTCAAGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGCGGATCATGAGGTCAGGAGTTCGAG
ACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAAAATACAAAAATTAGCCAGGCGTGATGGCAGGCGTCTGTAGTCCCAGCTACTC
GGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAAGCAGAGGTTGCAGTGAGCCAAGATCATGCCATTGCTTTGCACTCCAGTCTGGGCAAC
AGAGTGAGACTCTGTCACAAAAATAAAAAAAAGAGATGATAAATGTCAGGAGAGATGGTAGATAGTGGTAGCAAGTAGGGCAGACCGGAGAGCC
CTTGCCCCATCCAGAGGGGCAGTTCTTATCAGCTTCAGCCAGTCATGACTGTGGAGATGGACCTTCTGTGTGGCCAGGTCTTCCATTTCTTAAG
GGAAGCTGGAAGTCCCTGTGCCAGGCCAAGCTCCATAACCTCTTAGATTTGTTTTCTTCATGAGTAAAACAAGCACTGAGATGAATGCTCCCTA
GCCCTAACCTCTGCCTTTGATACACCAAACCAACAATTACTGGGGGTGAAAGACATTGGCCCCACCCTCAAGGAGCTCACAGTCTGTGGGGCAA
GACAGGTGACCGGATTATCGCAGACTATGCTAGTGGTGCTGACAGCTGAAAGAGCAGGTCTCTGAGAGGCCAGAAAAGGAGGAGATGATTGAGC
TGAACCTGAAGGATGACCAGGCACAAAAGTGGAGAAGGCCCCTCAGTGTGTGCAGAGGGGCTGGGCATGAAGGCACATGGTCACTGAAGGCAGC
TGTCCTGCAGGCCGTAGGCCCTCCCAGGTGCTTGTTACTGGTAGATTTATGGAGGACCTAAATGCCAGACTAAGACATAGGCCCCGGCCATATT
TTGGGCTGTGTAGTTTTTTTGTTTTTAAGTTTTCAATGAGTTCTTAGTCAGAATGGCCTAATCTGTAGGAGAAAGCCCCATTCAAAAGAGCTTA
AATAAGGGGATTGACTGTCTTAAAGTGCACAAAGTCCCAGGTTCCAGCTGCTGAAAAGCTGGTTCCTTTAGCTGAGCGTCAGTGGTAACCAGAT
TTCTTCATCTCTGCACTCCACTAGCTTTATGGTCATAGCAGGGCTGCAGCATCTCCTAAAGTGCTGGGGGCAGGCCAGGCACGGTGGCTCACAC
CTGTAATCCCAGCACTTTGGGAGGCTGAGACAGGCGGATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGCGAAACCCCATCTC
TACTAAAAATACAAAAACTAGCTGGGCCTGGTGGCACCAGCCTATAATCCCAGTTGAGGCAAGAGAATCACTTGAACCTGTGGAGGAGGAGGTT
GCAGCCTGGGCAACAGAGTGAGCAGAGCAAGACTCCATCTCAAAAAAAAAAGAGATTAGGGGGTAGACTTAAGGCTACTCAGACCTCAGGCTGG
ACGTTCTACCGCCTTAGCCATAGACAAGAGGCCGGTAGTTCCCATGACTGGCTGGGAGGAGGGCCCACCCTCCCTGAAGCATGTGGTAGGGGCC
ACTGAACAGAGTGAGGGTTCTATTAGCAAGGAACAGATGGGGGCATGGCTGTTAGGAGGCAGCCTGCAGTGTGCATTGTAGTTGCCCCATTTAA
AAATTGGAAATGACATGTACAAATCTTCCAGCTTCTCTTGATAAATTGGAAGCTCAGGCAGCCTGGGTCCTACTTTTTTGGCTAGGCTGAGTAG
GGAAAAGGGGGGCCCCCATTCCAATAGGGACCACTGAGCTGCCATCACCACCAGCATTTCCACCCAGATCTCTGAGTCCTCCTCTGACTGCAGT
GCTTGCTCATCCTTCCAGCCCCCATCATCACACCTGCCCCAACAGGAGGGGATGGTAGCCAGTGGAACACTTCTAGGTGGCTCCTGCTTTTGGC
TGGGGGTGTTACAACCGGAGGTGAGCTGTGCTGGGACCACTGGCTTGTGCCTGCAACCTTGTCCCAGGCTGCTGTCACCTCTTGTCGAGACATT
GGGCCAACAGCCCTGCAGCCCTCAGGTTTTAGCTGCATCGGAGTCATAAATCCCTTTCATGTTCGGAGTCAGCTCTGGAAGGAGCTAGCAGGGT
GGAAGCATGTTTCCAGTGGCTGTGGGGCAGGTCAGGCCAGCAGGTATCCCTGTGCATGTGCAGGAAGGGGCCACGCTGCCTCCCCTGGAAACCA
GAGTGCCTGAGGGTCATTGCCTACTGGCTGTTTCCCCCTCAGCAAATGCCCCACTCCCCGACCACGTGCTTATCCAGGTCTTGTCCCCTCAGAA
GGACAGTAACTCCAAACCTGCCAGAAGCAAGACCCTGGCCCCAGCACCCCCAGAGAGGAACACGGAGGGGTCCTCGGAGAGCAGTGAGGAAGAG
CTGCCACTGACCCAGGTGCGCCATGCCTTCTCTCTGCAGATGCTGCAGGATCAGAGCTGGGCTGGCAGGCCTTGCAGGAGAGGGCAGATCTTGC
CCATAGGGAAAATCTCGCCATATTTAAACAGCACCTCACAGCTTCCAGAGCTCTTTCCTCTATTGTGACATTCATCTGAGCCCTGTGAGGCAGG
CAGCAGTACACAGTTAAACATACAGGCTTCAGAGCCAGGTGGTGTTGGGGCGAAGCCCAGCTCTTCCACCCAACAGCCCCATGGTCCTGGGCAG
ATGCCTTTTCCCCTGTGTGAGGCTCAATGTTTCAGCCATAAAATGGGGACAGTACTGGCACCTCTCTCCTGCCTCTGTGCACTGGTGCCAGCAC
ACAAGGTACTTGCCACAGTCCCCTGCCTAAGAAAGGGTGCCTGTTAACTGTGAGAAGGGCAGGGAGTGTTGCCCCATTTGACAGATTGGGAATC
AAGCCTTAGAGTTGAAGCAGTTTCCCCAAATTCTCATGATTCATAAGAGGCTGAGGAAAGGTCCAAACGCTGGTCCCCTGGCTCCCTGTATCTC

TCTGTTTTCTGTTTAGGACCAGGAGTCTTCTTGAATCCCATGAGCTCTGCCCAGGACCCTCTCTCAAGCACCTGTGGCATACCTTCATGTGCTC
CACTGCACCCAGAGCTTAAGCCACAGTCCTGCTCAGGCTACACCTCCAAGGGTGGGACCAGGCCCACCTTATCTTCCTGTACTCCAGAGGCCCA
AGTCAGCCATGCTGGTGTGGTCCAAGCTTCTGTGTGAACCCTGGCCCTTCCATCAGACAGCATTACCCTTTGTCCTCCTCTAGCCCCAAGCTCC
CAGAAGCTTCTGCCAGGCACCTCAGAGCACCAGCTCCCCTGTCCCAGGGCCTAACCACAGATCCTGGAGTTCTGCAACCTCCAGACCAGAGCGG
TCTCATGAACCACCTCCCCTTGAATATCACATACCACATTGTTATCAATTCATCAGTAAGGTCAGATGCTGTTTGCACACCTCCAGCAATAGGG
TGCTCACTGCCTCTCACTTTCCAATGGCACAGATTACAAAAGTAAAGAACAACCACCACCAACATCGGTAACTCCCTGTATTCTCATTTTTCTG
TTTAATCTCCACAACAGCCCTATGAGGGTGGCTCCCTTTGTTGTTTGCATTTTAAGGAACTGGGAGTGAGGCTCAGAGAAGTTGAGGGACCTGT
CCCAGCATCACATGGCTGATGACAAGTGGACAGACCTGGTGTTTGAGCACAGGCCATTCACATTCTGACCCGTTGCCTGGTGCTGCCCCGACAC
TCTCCTCTCCTGGGCTTGGGCATTGCCCTCTGGCTCTGTGTGGAGCCTTTACGAGGCCACCTGCCTCTCTGAGGGATCTAAACAACTGGGAGGG
AGGGGACCGCTCCCCCTTTCTCTGTGGGGGTGGACTAACACAATTAAAATGAACATCCTGCTTAAACTGAACCATTTAATTGGTATGTTAGTCC
TGAAGATTCTGGAGTCTCTATTTAAAAAGCAGAAAAGAAGTCAGCGGTTTGTACATTCCCCCAGGAGGATGCGGGGAAGACGGGCATAGCCCGG
GGAAGCTGCAGCCTCTTCCTGATTGAGAGATTTTTAGTTCCTAATCCCCAGCTCACTAATTATGATTATTTTCATTATTGTACATTTATTGAGC
ACCTCTCTATTGACAAGTTTCAGTCTGATTTTATTAGCCCATCAGTGGGGAAAGGGATTGAGGCCAGGGTGGTGGGCAGAGTCCCAGGCTGGGA
GGCAGGGATAGATACCTTGGCTCCATTCCTAGACCCCTCACTGTGCCTCCGCCCTGTTGTGCAGAGTAGACCTCAGGCCAGAGTCTGTGCTGGG
GTCAGGACAGCTTCCAGATTTAAAAACAAGTAGGTGATACATATGTTAAATAACTTAATTTAGCTATTCCACAATGTATATGTGTATCAAAACA
TCATGTTATATACCACAAATATATGCAGTTTCACTTGTCGGTAATATTTTTTAAGGCCAACTTCTTCTATTAGTTTGTCAAAGACGTAGGCCCT
GCTCTCAAAGTTTTAGGTTGAATCAAAGAAAAAGGAAACCTGTAAGAAACTAAATTCTGGTGTTACATTGAGGCCTAGCATAATTGGTTCTAGA
AGGAGCTCCAGTCTGGTGCCTGGAGAACTAACTTCTAATCCTGGCTCTGGCACCAGTTTGCTGGTTGCCCTGGGTGAGGCCACTTGCCTTCTCT
GAGCCTCATTCATCTCAATCTCTGGGATGAGACTTCCTGGGTTGGTGGGGTGGACCTTGAGGCTCCAGGCCACATCCCCAGAGAGTAGAATTTC
TCAGTCCCCTGGAGTGGGGCTGGCCTAGATCTGTTAAGCAGCCTCAGGCAATTCTGAGAGAGGTTCTTGGAGTGTTTGTTGCCTTTGTGGTCAT
GTCCCTTGCCAGGGTCCGCAGCCTAGGCCATCAGCCCCCTCTCCCCACTCTGTGACTTGCTGGAATGAAGGCACAGTTAGAATGAGCTCAGCTT
TGACAGGATGGGGTGAGCACTGTCCAGAAAGCCCCTAGGTTTGGTTCTGCAGGCATCAGACCTACAGGTAGGAGGGGTATCCCGGGGTTCCCTC
TGGGTCCTTACTGCCCAGCACCTATAGGGAGGTACAACCAAATGTTCAGGCCAGTGCTGGTTTTGCTGCTTCACTCCCATCAGTTTTTTTTCTA
ACTGACCCCAGAACTACATTCCTGTGTATACTGTGCTTTCCAGTTTCCACAGTGCATTGGAACCCCTCCAGTGAATGAGCCCAGGCTGGGATAA
CTACTAGCCGTTTCATTAAACGGGAAACTGAGGATCAGAAAGTTGAGGGGCTTGACCACACAGTGAAGTCATGAGAGAGGCGTAATGAGAAGCA
GGTCTTCTCCTATACCCTGGGCAAGCTTCACTGCCCACCTTTATGAACTCTACAGGCTAATGCCCCGCCCCAACCCCCCACAGCCAAGCCCCCT
GCACCACCTCCCTCCTATGGCCCAGAGGCCCAGTGGGGTGGCGTGGGCAGGTGGAACTAACAGGAGGCTTTTGCTGCTGAGCTGCTTTTAACAT
CCCAAGACGCTATTGTTTGCCTCAGTGGGTTCGTTGCTTCTCTTCGTCCCCGACAATCTGTTCCTGTCTTCACATATATATAGATCCCCCCTCC
CTCAACTGTAAGCCTTCTCCCACTTTCCATCCTTCTCTTTTTTATATCGTGGGAAGGAAGGCTCTGGAAGTGGCAGATCGGAGCAGCCGCGGGG
GAGGCTATTTGGCAGGGGTAGGAAAGGCCTAAGCCCAGAGAAGCTTCCACCCTCAGGCAGGCACCTTTCTGTTTTACTTTTTACTTTATGCCTC
TCCACAGCACCTTAGCACCCTGAGGAGCCAGGTGTGCTAAGTCAGGCTCAGGGGGTAAACAGGATGGTGAAACAGAGACCAGTCTGGACCTGAT
TCCACTCCTCTCTTAGCCTCAGGCAGCTCCCTCTTCCTGCCCTCCAGCTCTTCACTGGCCAGAGAGGGAGCAGAGCTCAAACCAGATCTGACAT
TTGGGGAATGGAAAGTAGACCTGACCAGCTCCCTGGCTCACAACCATGTGTGTTCTCGTTAGCTGGAGGTTCAGGAAGGAAATGGGCCTGGAGA
TGCCCTCGTGTGCGGTGAACATGTTCAGGGATGGTGCAGTTCAAAACCAGACTGGCCTGCAGAATACCAGGGAGCTGCTGTTGCTTGTTTGCTT
TTTCTTTTATTGTTTCCTTGGAAAATTTAAAGCATACCCAAAGATAGATAATGTAAAGAACCCCCACGTACCATCCCCAGCCTCAACAGTTAGG
AACTCCTGAGCAGGCTCGTTTCACGCAAACCCTCCACTCAGTTCCCCAACGCCCCTGGATTACTTTGCAGCCAGTCTCAGACATGTCAGCTCAT
CCACCAGGATTTCAGTATGCAGCTCTCAGTTATAAGGACCTTTTTAAGCACAACTACGATACAGTGTCACACCTAATAAGTTGATCTACCCAGT
CAGTGTCCCTATTTCCCTGATTGTCTCATAGAGTTCAGTTAAAGGCCACGTACGGCATTGAGTTATTAATCCTCTAAGTCTTAATCTGTTGGTT
CTCACCCACTCACCCAACCCTTGTTTCTCTTGTGCATTTTTTTGTTGAAGAAACTGAATTGGTATAGCTGGGGAGTTTCATCCTGGGCCATGTA
TCAGGAGGGCTGCATCAGAACCTCTGGGGTTGGGGCAACTAGACTGTAAATACCTCCCCAGGTGAATTGCATATTCCAACCAGGCAGCCTTGGA
AAACTGCTTAGACCACTCCCTGCATTCAGCAAGTAACTGTCTCTGAAGCCAGCCGGGGAAAGAAGGCAGAATTGGACATTCTGGCCGTGGCTTT
GCTTCCAGTAGGGACAGCAGCCTTGGGTCGCTCCCTTTCCCTCTGGGCTTGTGGTTTTCCCACTTTGTATAAGGGAGCTGATCCTGCTGAATGT
AGGGCTTCACTGTGAGGGTCAGGTGGGCTCTGGGAGTTGTGAAGTGCTGTGCTGGGTCTTAGCAGATGTGTGGGGTGGGAGGGGCACCCTGGG
CAGCTGGAATGGCTTCTGTGCCCAGCTGCCCCTGAGCTCAGTGGACCCTTTGCCTTGTAAAACACTCCCTAACCCCATCACCTCCTTTCCCTGG
CCAAGCCTTTAATCACTGGGGGGGTGTTTTGTTTTTGTTTTTCAAGGTGATTAAACCCCCTCTGATTTTTGTCGACCCTAATCGTAGTCCAGCT
GGCCCAGCTGCTACACCCGCACAAGCCCAGGCTGCAAGCACCCCGAGGAAGGCCCGAGCCTCGGAGAGCACAGCCAGGAGCTCCTCCTCCGAGA
GCGAGGATGAGGACGTGATCCCCGCTACACAGTGCTTGACTCCTGGTGAGCGCAGCCCTTATGCAGTGGTGGGAGGGGCTGCCAGCACTGCCCC
ACATTGAGGCCCAGAAGGGACAGGACACTGGCTGAGTCACATAGCAAGGTGTTGGTCGGGAGGGGCTTGGGGTCAGGTCTCTGGGCCCTGCATT
AGCCATTCTGATTAGGGCCTGGCTCAGACCTGCAGTTCTGGGGGAATAGTTGCCAGAGCTTTTTTGTGGCAGCCCCAGTCATGGAGCCCAGACC
AGTGGCTAGAAGCTGCAGGGACCAGGTTCCTACATAGTCTAAGAAAGAATTCTGTATCAGTTGACTGCCTGTGGAACAAGTGGTCAGGGTGGTA
GTGAGCTTCCCGTCCTTGGTGGCATGTAAAGTAGGTTAGGCAATCCCTAAGCCAGAGACATCACAGGGATAGATTTCATCTATCAGAGAGACAG
GACCAATCTGAGGTTTCTTTGACTTCTGAGAATCTGTGATTCTACCAATGACAACAGGAAAAGGGTTAATGTTACTATTACAGTTATTGTAACA
GTTTTACAAGCAATAATACCTGATCCTGATAGGACAATTTAAAAATGCAGACGGGTGCAGTGGCTCACGCCTATAATCCTAGCTCTTTGGGAGG
CTGAGGCAGGCAGATCACCTGAGATCAGGAGTTCAAGACCAGCCTGGGTAACATGGCGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCC
TGGCGGGCGCCTGTAATCCCAGGTACTTGAGAGGGTAAGCCACGAGAATCGCTTGAACCCAGGAGGCAGAAGTTGCAGTGATCTGAGATGTGCC
ACAGCACTCCAGCCTGGGCGACAGTGAGACTGTCTCAAAAAAACAGAAAGCAGGCAAAATAGAGATTACTGCTGGGCATGGTGGTTCGCACCTG
TAATCCCAGCACTTTAGAAGGCCAAGGTAGGAAGATCGCTTGAGCCCAGGAGTTCAAGACCAGCCTGGGCAACATAGTGAGAGCCCTATCTCTA
CCTATCTACCTACCTACATACATATGTACATATACATATACTTATACATATATGTGTGTATGTGTGTGTATATTTTTTTAATAAAAATACAGAT
TAGCACATAAGAAACTATATCACCTGTAATTCTGCCCCAAATAATTACTGTTAACATTTGACAAATGCTAACTTTATAAAAACCTAAAATATAC
GTGTGTTTTTAAAGCAAGACCATACTGTATCTAATGTTCAGTAACCTTCACTGGATATTTTATGACATCGGGTTTTTTTCATCTTTACATATTT
GCAGCACAATTCCTAATGGCTACAGAGAAATCCCTTGGGTGGACATGCTACAGTGTGTGTAGCCAGCACCATGTTGGAGGAAGCAGAGGGTTTT
GTTTCAGGGTGGAGGGGTGAGGGAGTTGGCTGTTATAAACAGTGCTTTGAAGAACATGCATGTAACCAGGCCTCTGCAGATAACCACGGGGACT
CTTAGGAGAGACGATTTTAACTGCAAGGAGAGTCGTTTGGTGCCGGTGCTCTGGCCCATTGCTCAGGAGTGGCAGCCCGACCAGTTGGGAGGGG
AGGGGATGAGGAAGCCTGGGGTCACCCCCAGAGCAGCCATTTGAGCTCCCTGAGCCTTGTCAAATGACATAATGACATCTCCTGCCTGGGAGGC
TTGGAGAGGGAAGTAAACAAGCTTCTACCTCTGTAAGCCCTGAGCACAGCTCTAGATCACCAGCACAGGCCGGTAAATTGGGTTATTGCCGCTG
CTGAGGAGGCGATGGGGCTTTTGTGCCCTGATGTGCCCCCATCTCGCTCCATTTCAGGCATCAGAACCAATGTGGTGACCATGCCCACTGCCCA
CCCAAGAATAGCCCCCAAAGCCAGCATGGCTGGGGCCAGCAGCAGCAAGGAGTCCAGTCGGATATCAGATGGCAAGAAACAGGAGGGACCAGCC
ACTCAGGTACCTGGTGGGCAAGGGAGGGTAATGCAGGCCAGTGGGGTGGGGCCCTACTTCCATACTTACCCACATGTGCTGATGGGATGGCCTG
CAATTGCTGTCACGCCCACACTCCAGAGGTCGTGGCCTCACAGCCAGAGGCTTTCTGGCCTCCTAGCTACAACCCCCCAAATCACCTTTGAGTT
ATGAGGAAGAGTAATCTGGGGACACAGCCTCCTGGCCAAGCAAGCCCTGCAGCACTCGAGTCCCTCATGAGATTTTCCAGCGTAGTGGGGCTTT
TGATTTTTTTTCTTCCAGTTTTGAAATGCCATGAACAAAAGTTGCCCTTTTTTGGTGTTTGTAATAGTGACTTCAGCATTCTTCCAAGCCTTTA
CCATCTTCAGTGCATTTTATTTGGTCCTTGCCTGAATCTAAAAGCTGGGCATTTTAGGGTTAATGGCTGGTGCATTGTTTAGATCATAAAACT
TAGCACACATCCCCACCCCAAGGGCTGCGATGTGACCAGCATTCAGCAAGGCCGGAACCCGGGTCTTCTGAGACCCAGTTCATTGCTCTTTGGG

CCATATCAGTCTGGTTTCCCATCCCACTGAGAGGATGAAGTCCATGACACACTCTGACCTCTCTTCCTGAGGGGTGGGCTAAGGGGGTGTTGGG
GGGCGGTGGGGCTGGTGTGCCACCCACTCCCTGGGCTCATCACAAGCTCCAGGTCAAAAACTTCTGGGAACATGGGTGTCGGATGGGAAGTCAG
GCTGTGGTCACTGCATCCATGAGCATCGGTTCCTGCCAGGCCCTAGGGATACTGCAGGAACCAAGACAGGGACAAGGAATTCCCAGGCCAGTCA
GGGAGTGGTGAGGGGCAGCGATTAAACAAGGAAACCCACATATAAATAAAAAGTATTCACCAGCTGGTAGGAGAGGAAACAATAAAAACTAGAG
AATAGTGGGGTGACCTGCTATATGAAGGCCTCCTGAGACAGCGATGCTTAAGCAGAAAAAGCAGCCAGTCACAGGATGAGCTGGGCCACCCTCC
AGGCAGGGAAACTGCAGGTACCAGGTCTTCGGGGGAAGCGCTTGGGAATGAGGGAAACTGAGAGGTGGGGACAGCTGGATGAGGAGCTGGGGGA
GAGGAGATGAGCCAGGCCGTGGCAAGAGCCACGCCACATTTGAAGGCTCTCAGCAAGGGGTCATGCCCAATTTCCATGCCCACCACTCTCCCTG
ACTGCTAGTGGTTATAAGAAGTAGAGATGGGGGTCCACCAGGTTGGAGATTATCCCCAGTGAAGGTGCAGATTGAGTAGTGGGGCCTAAGCTGC
TTCCCTGCCCTGGGCTGGGAACTGTCCCTTGCTCCTTGAGAACAATGTGATTCGCTCATAACCTGAAGCCTGCCACCAGTTTTGCCCCTTTGAC
TGCCCCTCAGTCCCTGCTCCAGCCCTCACCCCAGCCAGACAGCATCTGACCAGGGTGTGGCACAGCTGGCATCCCAAGGACTTGTGAGTCTGAG
GGCTACCTCTTGCCACCCACAGGTGTCAAAGAAGAACCCAGCTTCCCTCCCACTGACCCAGGCTGCCCTGAAGGTCCTCGCCCAGAAAGCCAGT
GAGGCTCAGCCTCCTGTTGCCAGGACCCAGCCTTCAAGTGGGGTGAGCTTGGGGAGCCAGGGGAAGCAAGCCCACGGAGCGTAGAAGGTGCAGG
CGTGGCCCTGCATTGCGGCACCAGCACTCATCTGCCCCATGACCTCTGCACTTGGTTTGCCTCCCTCGGCCTCAGTGGCCTAATCTGTAAGAAG
GAATTACAGTACCTTTCGTAGTTGGAAGGATCAAATGAGGCTGCATGTGTGCCCCATCTAACACAGTTCCTGGCCCTACTGAAGTGTTCAGGAA
GGACCAGGTCTTACTTGCCCTAATTTTTCCTTCCATTCCTTCTCCTTTCACCGAATTAGGTTGACAGTGCTGTGGGAACACTCCCTGCAACAAG
TCCCCAGAGCACCTCCGTCCAGGCCAAAGGGACCAACAAGCTCAGAAAACCTAAGCTTCCTGAGGTCCAGCAGGCCACCAAAGCCCCTGAGAGC
TCAGATGACAGTGAGGACAGCAGCGACAGTTCTTCAGGGAGTGAGGAAGATGGTGAAGGGCCCCAGGGGGCCAAGTCAGCCCACACGCTGGGTG
AGGGTGCCAGGGGAAAGGCAAGGGTGGGCCAGGAAGAGGGTGTTGTGTGGCCTGGTGGAGCCATAGCTCTGGCCTCAGCTCCATATCTCAGACT
CATTCTGCACCTGTGGCTGAGCCTGGGCCTCAGTTTCCCCACCTGTACAACTTCATGAGGAAGTCAATCCAAATGATTTCAGAGACCTGACTTT
GCTGTTTGACCACTCTCAGCTTTTTGGTATCAGACTCCCTTCACTGGCTCCCAAAAACTCCAGGGCCATGTTTCTGGAACAGTGGAAAGCAGGG
AAATAGAAATGGGGCCTCAGGAATTAGAAATAAGGCTTTGGCATTCAAATGTCGCACCTAGCATGCTGTGACTAGCGATAAGTGTGCAAGGAGT
GTTGAAGCAGTAGGAAGACTTGTGGTGAGGCGGGGCAGGGGATGGGGGTGAGGGACCTGCAGAGAGACCAGGGCCTTCCTGAAGGGCTCTGCCC
TTCCCGGCTGGCAGGGGCCACCTGGGGCTACCAACAGGATACTGTGCTTCTCCAGTAGGTCCCACCCCCTCCAGGACAGAGACCCTGGTGGAGG
AGACCGCAGCAGAGTCCAGCGAGGATGATGTGGTGGCGCCATCCCAGGTAACTGCAAGGGAGAGGACTGGCAGCCCATAGGCCTTAGGGTGGAG
CCCCAGGCCAGGCTCCTGTCTACCCGATCCCTCAGGTCAGGGGTCTGGGTCCCCTCTCTTCACAGAGGCCTTGGGCAAGGTCCTGTCTGCAAGG
CACCACGTGTGGCCCAGCCAGCAGACCACAGCCAGGCTGCCTCCGTCCCCTCATAGAGCCCTGAGTAGCTGACCCTTGGGGTCTGTAGAAGGGA
TTGACCTTGATTCTGGGTGATGTCCGGACAAAAACATTCTTTAGCAGATTTATTTTAAGGTTACTATCTGTATGTGGCAAAAGCTAGTAATTTT
CCATTTGTATTAATAAGAAATTTCCTTTTTAAATGTGCCTGTCTAGAAAGTGTATTAATTAAAATAGTTCAGGAGGCACACGCCAAGGGCTGAA
GTGCTGCTCTGTGCCTTGTTGTCCACCCACTCTGCACTGATAGGGCAGGGTGATCCTAGAGGCCCCAGGCTGCTTTCCTCACAGCAGGCCATGA
CTCGGGCTGGGTTATGGCAGTGGGGTGGGGTGGTGGCAGCCTCTTTCACAATGGGCTTCTTCAGTCTCTCCTCTCAGGTTATATGACCCCTGGA
CTAACCCCAGCCAATTCCCAGGCCTCAAAAGCCACTCCCAAGCTAGACTCCAGCCCCTCAGTTTCCTCTACTCTGGCCGCCAAAGATGACCCAG
ATGGCAAGCAGGAGGCAAAGCCCCAACAGGCAGCAGGCATGTTGTCCCCTAAAACAGGTAAGTTAAGGTCTGCAGGAGGGACATAGCAGGACAC
AGAGGGACAGGGCAGTGGGCCCCTTCTTGCCCTCCTGTAGCAACAGTCCTCCCAACATGGTCCTGTCTGCCCCCAGAGCCTCTCCAAGTGAGAC
CTTGTGGCCTTGCATTGGACCTGAAGATGCTCATCAAAGTGCAGGTGGGGCCAGGTGCAGTGGCTCATGCCCATAATCCCAGCACTTTGGGAGG
CCGAGGTGGGCAGATTGCTCAAGCCCAGGAGTTCAAGGCCAGCCTGGGCAACACAGAGAGACCCCATCTCTAAAATTTATTTTAATTAGCCGGT
GTGATGGTGCACGCTTGTAGTCCCAATTACTTGAGAGGCCAAGGCAGAAGAATGACTTGAAGCCAGGAGGTTGAGGCTATAGTGAGCCATGATC
ATGCCACTACACTCCAGCCAGGGTGGTACAGTGAGACCCTGTCTCAAAAAAAAAGTACAGGTGGGCCCCAGGTGTCTGGCTCCCCAGGTGG
CCCTGGACAGCCTGGAAGTGGGGGTGTATCCAGCCCTGGGTGGTGCTGATGCACCTGGTAGGATAGCCCTTGCCTCAGAGGAAGCTGCGTCTTT
TGGCTTGTGGAGCAAGTGTTGGCTCTCTCCAACCATCACCATCAACTTTTCTTCCCTGTAAATAGGCTCACGGTGTGGGCCTTGGGCCTCAGAG
GATAGCTTAGACAATAGGCTGACAGTCACGTTTGGAGGACACTCAGCACATGCAGGAGACCCCAGGCAGTAGACTGGCCCCAGGCTGTTCTGAC
TCATTGTAAAGCCTTGGAAATCCCCTGGCCACTCTGGACCTCTGTGTCTTAACCATACAAAACAGCAGTTGATGTATCCAGTCTGTGTCAAGGC
ATGGCACATGTAGAAAATAGTCACATTGTATTTGGAGGGCAGACTGGATTATTCAATTCACCTAACCTGGGGCATCCACACTCCCTGACCCTAC
TGGAGCTAAGGGTCAAATATGTACCAGCTGGGCACACTTGGGACAGCTCCAGGGCTTCCCCAGCCTTGGTGTTCTGGGTGTTTGCAGATAAGCA
GCAGAAAAGTGGGCCTGGCGCAGTGGCTCGTGCCTATAATCCCAGCACTTTGGGAGGCCAGGGCGAGTGGCTCACTTGAGGTCAGGAGTTCAAG
ACCAGCCTGGCCAACATGGTGAAACCTTGTCTCTACTAAAAATACAAAAAACTAGCCAGCATGATGGCAGGCGCCTGTACTCCCAGCAACTCAG
GAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGTAGAGGTTGCAGTGAGCCGAGATTGCACCACCGCACTCCAGCCTGGGCAACAGAGCAA
AACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAGGCAGCAGCAGAAACGTAGGCTCTGGGGAGAGAGGTTTCCGGGGCTAACTGCCCTCCCC
AGCTTCCCTCTCCATTGGCTCCTGCCATCTTGAAGAATCCCCAGAGGATGGAATTGGGCCTCCAGCCGTCCCGGGGGCCCCTCTGCCTAACCTG
GCCTGCCCTGCCCAGTCCACCTCCCCCAGCCCACCGCAGCTCTAGAGCCAAAAGTCGCCAGAAATCCTGGTTGGGGCTGAGGGGCCAAGCTCAC
TGCATGCTGCAGGGGGCAGCCCTAGCCTCAGTGTGACATGAGTACCACATAGAGTGTGACATGGAGTATCCACCTGGGCCTTCCTCCAGGCAAA
CACCTCCAGGACCAAACCACCAAGCCACCTTTCAGAGCCCAGCATGCAGGAGTGTTGTGCCCATGAGACCCAGAATGGGGCAGAGACCTCCAAG
TCACTTGGAAGTTAGAGCCGGTGAGGAGACCCAGTCATGGGGCTTTCAGCTGCAGCTTGCCCCAGGCTGGGTCGGAAGAGGAATTGCTGCTCAC
TTTCTTCCCCAACATTCTCTGTGAGAGGCGGTGCGACAAGGAGACATTTTAGAGGGGGCTGTGGAAGGTTTTTTTTTTTTTACACGTGTAGTCA
GCACACAATTATCAAAGGCAAGCAGAGGCGTGGAAAATTCTAAACAAAGGCTGCACCAGAAGTCTCTCTGGCAGGCAGTAAACCTGCTTAGTCA
GCCACCACGTGTATATACACTGCACCCAGAGCTCCCCACCTTGCCTGGACCCCCTGACCAGGAAGGGCCGAGTGTGGGTAATCATCAGTTGAAT
GTCTGCATGGCCCCCACTTTTATTATAAATCTACAATGTATCATAGGAAGCCTTACTGTTCATCCACCCCTCACGTTATAGACAGGGAAACCAA
GGCCCTGGGAGGAGATGGGTCCTGGCCAGAATCACACTGAAAGTGGGTGGGAAAGTCAGACCTAGAACCCAGGTCTCCTTCCTCCCAGCTCCAG
ACTCCATCTCCCTCCTTTCTGAATTTTCATTCCATTGATAGATTTCAGGCCCTTTCATTAACATTCTGGAGTCATTTTCTGTCCCCACCCTAA
CTGGAGTTTTTAGTATAAAGAGACAGGGAAAAGCTGTAAGTTAGAAATGAAGTCAGGGTGTGAAATTGGTGGAAAGGTGTGAGCTTAGGAGACC
AGCTGGGGCAGAGTGACCGCCAAGCCTTGCTCTCCCCATCTGTGCCATTGTAAGAAAAGATGGAGTCACTCCCTGCACCCTCTTCGCTCTTAGG
TACCATAAGATCTGTCCCCCAACTCTCCCAGATCTGTGACCCCACATTCTCTCTCCATAGGTGGAAAAGAGGCTGCTTCAGGCACCACACCTCA
GAAGTCCCGGAAGCCCAAGAAAGGGCTGGGAACCCCCAAGCCTCAACCCTGGCGCTGCAAAGCAACATCACCCAGTGCCTCCTGGGCCAACCC
TGGCCCCTGAATGAGGCCCAGGTGCAGGCCTCAGTGGTGAAGGTCCTGACTGAGCTGCTGGAACAGGAAAGAAAGAAGGTGGTGGACACCACCA
AGGAGAGCAGCAGGAAGGGCTGGGAGAGCCGCAAGCGGAAGCTATCGGGAGACCAGCCAGCTGCCAGGACCCCCAGGAGCAAGAAGAAGAAGAA
GCTGGGGGCCGGGGAAGGTGGGGAGGCCTCTGTTTCCCCAGAAAAGACCTCCACGACTTCCAAGGGAAAGCAAAGAGACAAGAAGTGGT
GATGTCAAGGAGAAGAAAGGGAAGGGGTCTCTTGGCTCCCAAGGGGCCAAGGACGAGCCAGAAGAGGAGCTTCAGAAGGGGATGGGGACGGTTG
AAGGTGGAGATCAAAGCAACCCAAAGAGCAAGAAGGAGAAGAAGAAATCCGACAAGAGTGAGTGACCGCTTCTCCCAGCCCACCCCAAGGGCTG
CTGGGCACCCCACGGGGGCGGGAGGGACCCTCAGCCAGCACCTGGTCTCATTCCTCCCATGTAGAAAAGAGAGGCTGAGACCAGCCTGGCCAAC
ATGGCAAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCTGGATGTGGTGGCGGGCACCTGTAATCTCAGCTACATGGGAGGCTGAGGCAGG
AGAATTGTTTGAACCCGGGAGGCAGAGCTTGCAGTGAGCCGAGATCACGCATTGCACTCCAGCCTGGGTGACAGAGCAAGACTGTCAAAAAAAA
AAAAAAAAAAAAAAAAAGGCTGAGAAGTGGTTTGTCCAGAGTCACAGGGGCAGCTTGTGGCAAAGCCCGAACTCGATTCCAGAGCACTTGAGTCA
GCACTGCCAGGAATGCTCCAGAAGGACGAGGAGTCATGTCCTCTTTCCCCAAGCCCAGTGCAGCAGATCTTGGAGGAACCTGCTTCTCCAGCCA
GCTCCTGGGTGCAGAATGGACCAGGAACCAGACTGTCAGAATCCTCATCCCAAACCCCATCTTGTCTCTAGACCTCAGTTTTCCCTCCATAGTA

ACACTGGCCCTTTACTGAGTGCTGTTCTAGACTCCGCATGCAGCAGGACCTCATTTAGGTAGAAATGAGACTCAGCAGGTAGAAAACTGCGGCT
CGGGCTCGGAGAAGTAGAGATGCTGTTCAGGGCCACAGAGTTTTGCTAGGTGGAGCCAGAGTCAAACCTAGGCAGCACTCTCGAGCATCGCCCT
GGACGGTGGGTTGCCAGTGACGCCCGAAGAGCCAGCTCGTTCTGGAACAAAAGTCGGGCACCCTCAGAGCAGGACTTGCAGCCCCTTGGTGCTC
AGAACTGTGCTAGATTTCCATTTACAGTAGGGATAGATAGTGTCCATTTAAAATAAATTTGCGGGAGTTTTAAAAAGTGAGTTGAGCTAAAGAA
AAATGGTAGTCATCCAGGTGGTCCATGGATGGGACAGAAATCATGAGCTGGCCTCCAGGGGGCAGGTGAACTGGCCCTGCTGGGTGATCACCAC
AGCTGCCAGCCTGTTTTATTTTTATTTTTTGAGACAGGGTCTTGCTCTGTCACCCAGGCTGGAGTTCAGTGTCAGGAACGCAGCTCACTGCAGG
CTCAGCCTCCCAAGCTCAAGCGATCCTCTTGCTTCAGCCCCCCAAATAGCTGGGACCACAGGCGTGCACCACCATCCCCAGCTAATTTTTGTAT
TTTTTGTAGAGACAGGTCTCACTATGTTGCCCAAGCTGGTCTTGAACTCCTGGGCTTAAGCAATCCACCCGCCTCAGCCTCCCAAAGTGCTGGG
ATTGCAGGAATGAACCTCCACGCCCCGCCCTGCTGGCCTGTTGTGATGGCTTCTGGTGGTGTGGGGAAAGCTGGGAGCCCTGCCCTGTGCACCT
CCCAACATTGACCCCAGCACTTAGGATTACCATCTGTTGTTCAGGAACTTTACTTTACTTCCCTTAGGAAAAAAAGACAAAGAAAAAAAAGAAA
AGAAGAAGAAAGCAAAAAAGGCCTCAACCAAAGATTCTGAGTCACCGTCCCAGAAGAAAAAGAAGAAAAAGGTAGAGAGTTCCTGGGGTGTCTC
AGGCCAGAAAACAGACCCAAACCCAAGCCCCCTCCTACACACCCAGACCTGGTTCCTGCCCCCTTCCCATTTTCGGGGCCCAGTCGGGGGCGTC
AGGGGTTGTGACACACCAGGGAAGAGGCTGGCAGGGCATGTTCCCTGAGCACATGGAAGCCGTAGAAGTGGCCTGCCGGAGGTAGAAGGGTGTT
GGGGAAGGAAGGAGAGACTCCCCCCAGCACAGGGAAACCAGGTAGACTGTGGCAGGTTTCCAGGTGAAAGGAAACGTTGCCTGGGCTGCGTGTG
CCCCAGCTGGCAGGCTAGCCCTGAACAACAGCTGTCCTCACGGCCCGGGGCCTTAGCACCTCAGACACAGATGAAGTTCTCACCTTGGCCAGCA
GGGCCTCAGCTGTATTTAGGAGAGCTGAACATCTGTTTGCCTCTGCCCTTGGAGGTCGCTGCAGACCCAGTATCTATTCTAGGGGAATTCACTA
GTCCTCAGGAGGTGGGGGCAGCAGTGGGTGGGGAAAAGCTGCAGGTCTGAGAGCCTCTCGTACTTCCCTCCTCACAGAAGAAGACAGCAGAGCA
GACTGTATGACGAGCACCAGCACCAGGCACAGGTACGCTTCCCAATCATTCCTGAGCATTCAGGGTGGGAGGACAGCTCTGGTGTCCCCTGTGG
TCCCAGAGAGCCAGGCAGACCTGATAGGTGGGCTCTAAGGGGAAAGGAGGCTGGGGAAAGAGGTTCTGTTGCCAAGGGTCCATGGGGCCACTGG
GGTGACATCAGGAGCTGGCACTGCAGCATCAGAAGGATCCAGAACAGTAATGGCAGTGGTGACACCGAGTGCACCTGGGTGCAGGGGTTGTGCA
TGCTTTAGGGGGGTGTGCCCTGGGATGGAGCCTGTTTGTAGGTGAGGTCGGATACAGCTTGGTTCCTCCTTCACTTGTGAGCGGTTCATTTTCCT
CATGATCCTGTAACTTGGGGGCATTTCCTTTTGGGAAGGAAGATGGTTTACTCAAGATGAGCTATCACCATGGATCTATGCTTCCCTATGGAGG
ACAGGCCCTGCCAAGTGGTGGTGACAGTTAGCTGCTCCACCTGGCTCTGCTGGCCCTGTGGTCACCCAGCCTCCTGTAAATGGGGGTGATGCAG
AGCCCGCCTCCTGGGCCAGTGGTGAGGCTTATGTGAAGCTAAACTAAACACTAAAGGACTCAGCCCAGTTCTCAGAACATTCCAAGTGCTAAAA
AATGTCCACTGTGGTTAATGCCTCCCCCCTGCATTGGAGATGCCAGATTTCATTTTCCTTGCAGGGGAAAAGGGTCAGGAAATTTGACATCTGC
ATGTGTTTCCTTCCCCTAGGGATTTCCTAGCCGAGCAGTGGCCATCCCCATGCCTCTGACCTCCACCGACCTCTGCCCACCATGGGTTGGAACT
AAACTGTTACCTTCCCTCGCTCCACAGAAGAAGACAGCCAGCTTCAGGGGTCCCTGTGCTGGCCAAGCCAGTGAGCCTGCGGGGAGGCTGGTCC
AAGGAGAAAGTGGACCAGCTCCCATGACCTCACCCCACTCCCCCAACACAGGACGCTTCATATAGATGTGTACAGTATATGTATTTTTTTAAGT
GACCTCCTCTCCTTCCACAGACCCCACATGCCCAAAGGCCTCGGGACTTCCCACCACCTTGCTCCACAGATCCAGCTAGGCCTGACCTGTGCCT
CATCCCGTGCCGCTCGGTCTCTGGCTGATCCCGAGGCTTTGTCTTCCTCTCGTCAGTTCTTTTGGTTGTGTTTTTTGTTTTTTTTTTAATAACT
CAAAAAAAAAATAAAAGACTTGGAGGAAGGGTGCAAGCTCCCAGTGCATCTGGGGCACATGTTTCTTGGAAGGGACTGTCTCGCCGACACTCGG
GATTCCCTCTTGCCTGCATGTTGAGGCTATGGGTGACCGTGGTTAGTGGGACAGGCAGTGAGCAGTGAAGTGCCTGAGTGCCGAATTGGTGGGG
AAGGCTTCCTGGATGAGGTGGCATCTAAACTAAAGGATGGAACTAAAGGATGGTCATGGTTGATTTCCTGTTGCCAGAGTAAGTCATGTAAATA
CCCAAAGACAAGAAATGGAAGGGGCTGAGAATCCTCGAGTTAGGCCTCGAGCTAGGGGCAGGCTCCCTGGAGGTGCCTGGTGAACAGCTGTGGC
AGGCACAGCAGGTCTAGGAAAATCGGAAGTGAGTTGCCCCTCAAATCGAGCTCACCATGGTTCTGTGGTGGTGAGGGCAAGAAGTGGATGAACA
TGAAAGACAGGATGATGTCTTGGGTGTGGACTGAGGGAGGGGAGGGATAGCAAAGGAGGTGGTCTGCTGCTCCAGCCTGGAAATGCAGAAGCCC
ACTTCCCTGGGCCCAGAGCCATGTGGAACACCAGGGGTCCTGGAGATGGTCTCCAGAGCTTTTAGCCTCATGCTGGAAACAGCCAGAGGCAGTG
CAGAAAAGGAATGCATGGCTGGAGGTGTCGGAGACCCAGGTTGGCATCCAGCTGCACCCTTGACTCGGGGCCCGGGGCCAGACCCTCCACCATC
TGGCCTCTCTCCTCTCAAGCATGTTGCTCTAGAACAGAACTACAGAGTAGTGTCCTCATTGGGCCTTGTTGACCCACAGCAAGACTTTAAACTT
AAAAATGGGGTGATTTCACTGCAGTTCTTGATTTCTGGCTCCTCTTAAAAAGATAACATCTGGCAACGGGGGCTGTGCTTCCTCCTGGCAGCAA
CCAGATAGAGCTGAGTAGCAGTCAGCCCCTTAGGTAAGGCATGGGCACCCAGTTCTCCACAGTCCCCTACTTCCTGTCCATCCTGACACGGAGG
CCCTATGTCGGTTGCCATCTGTCATCACATTCACACTGTTCTTAGTATAGAAATGAAATTGGGGACATAGGAAAATGAAAGCTGTACCAAGAAG
AGCTTGTGCTTAAACTAGGCAAGAGCCTATTTCTTTTTGGAAGTAGAGTGTTCGTGTGTGTTAAACATGTAATCAAGTATGTCTGTGTCCAAAG
ACTACAAGCCCCCCCCCAGGCCTGCCTGGCCCCGCAGGCATCTCTGTGGGTTACTTGGGCTGCGTTCTCCCACCTCAGTGACTGGATTTAGCGT
CTTTAGTTACCTCTTTAGGATAAATGAACTGGATCTCAACAGAAGAGCCAGGAGCCAGAGTGTTCTAATTACTACCTTTTATTCTAATGTGAAC
CATGGCCCTGAAAGCTGATAACAAGCTTGGCTGAGCAGAGGGAACTAGGGGTCGGCAGAAAGGATTATGGGTGGAAAACATTGGCTCTTCCTTG
GGGAGTGATGCTGGGGAAAGGGAAGAGAGTGGCTCAGCCTGCAGGTAAATAGGCTAGAAAAGCCAAGGCCAAAGGCTGGAGGGGAGAGGACAGT
CAGCATGTCCAGCCTGGGGTCTGGGTGTAGGGTTATCCCTTCTCCCTGTGCCTTCCCATCTCGTCCATGAGCCTAGGTCTTGGAGCCTTGTGTT
GGAGGCTGCTGTGATGTCAGGAACGGGGATCTGTCTAGCTTTTGGCCACTTCCTGGGACCTCACGCCCCTGTTGACAGATGGAGATTGGGCAGC
AGGGCCTTGCTGCATTGTTATCTGCTGTTCCGACTTGGTTTGTCTTGTCCAAGGGTGACGAAAGAGCCAGGCACCAGGGTCTCATGGGATGAGG
TACAGGGTGGGAGATGGGGGAGGGGCTGGGGGCTGAAGGGAGCAAGAAAGCTGTAGCTGTGTGGGGCTGGCAGGATGTTGAAGACCGCCTCTGC
TGCTCTCACATGGGGACTGGAGAGAGAAGCAGCAGGTTGAGGTTGGGGTCACCCATTTGTTGTCCCTGCCCCTTTCTAACATCCTGGACCTGCA
GAGCAGTTAAGGACTGTCCACCCTCCCCTGCCCCCTGCTCAGGTCCAATAATGACCATCATGGATTTGTGTAACTCCCCACAGCCCCCCAACCC
TGTTCCTTCGTCTGTGAAATGGACATCCCAGGAATGTTGGAGAGTGGCCCAGCGTCACACTCCTTCACCTGCCCACAAAGGAGCTGGCCCTGCT
GGGGATGAGCTGCTGGTGACCAGATGCCCCTCTGCAAGGCCCTTACCTGGGCCCAGATCCTGCTTGGTCACACCCAGCCCAGAAGACGGGTCCT
CCAGTTCCAGTGACTCTGCAAAGGAGCAGCAAGTCCGTTTGTCACTTGAAGTGCAGCCTACCTGACCCAAGATGCCTGAGGGCAGTGCTTCCCA
CCTAGCCACAGGCTTAGTGCCTGGGAAAGCAGGTACCCAGGGAAGGACAGCTGCAAGCAGCAACAAAGAGGTGTAATGGGGGCTCGAGTGAGAA
GGGGGTGATGAAATGAGATGGGTGGGTCTGTAGGACTCCTGGATGCTAGAGGATGGCGCGTGGATGGATGAAATTCACAGATGAAAGGACTGAC
GGATAAGTGAACAAATATGAGTGCATGTAAGAGGAGAGATGATAAATGGACAAATAGGAATGCACAGGTGGGTGGATGGATAAAGGGCTGGACG
CATGACTACGTCACTGCCCCCAGGAGCTGCCATCCTGGGTGTCCTGGTCCCATGTGCTTCAGAGGGGACCTCTTGCCCCTCAACCTTCCTAGTC
CTTCCTGGTCCTCTGACACTGGCACAGTGCCACTGCTTACCACTGCAGTTATGGTGCCCGCGGCTTCTGGTGTTGGGGACCTCCGTGCCGTTGG
GGAAGACACACCAGCAGTAGCCGATGCTCCCATAGCACTGGAGTGGCAGATAGTTGCCGTTCTCGTCGCACTTGGGCCTGAATGAACCCGGGTG
GACAGCAGGGATGTGGCTGACCTCTTCCTGGCACTTGGTCAGTACTGAAGCGACAGGCATGATGAGGACACAGTGAGTGAGTGAGTGAGCTCTGAACC
AGGGTCTGAGCAGAGCTAAAGACCCACACACCACTGCTGTGGGCTTAATGCCTTCTTCCCAAGTGGCTTTACTCACTCCAGCCATCACACGGAT
GGGAAAACTGAGGCCTAGACCAACAAGGTCTGAGATCAAAAAGGAAGTGAATGGCCATGTGTCCAATTCACCTCAGAAGTTGATGGTTTCTTCT
GACACTCAAAGCCCATTACAGTTTTGGGCCAGGCACAGTGGCTCATGCCTGTAATCTTAGCACTTTGGGAGGCCGAGGTGGGCGGATCACTTGA
GGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAGCTGGGCGTGGTGGCACATGCCTATA
ATCCCAGCTACTCGGGAGGCCGAGGCAGGAGAATTGCTTGAACCCGGGAGGCTGAGGTTGCAGTGAGCTGAGATCGCACCACTGCACTCCAGCC
TGGGCGACAGAGCCAGACTCTATCTCAAAAACAAACAATCAAACAAAAAAACACCATTACAGTTTGGAATTGCACTTGCGATTCTGATTCTAGA
GAAAAGCAATGGGCACCTTGGTAAGTCTAAGCTTCCTGTTACTGGGAGTTCTCAAGTAGAAATGGGGTTTACCGTTTGTTGGAGATGTCTTAGA
GGGGTTTAAGCATCAGCTAGGAGTTGGAGATAGCATGTAAGGTGCCTTCTATGAATCTGATGCAGAAACTGAGGCCCCAGGCAGGGTGGCCCTT
TGACCTTCTACTTCAGGACCCTGAATCCTAGAGGGAAGGGGACTTGTCCAAAGTTACATAGCAAATTAGAGACAGCACCGGGATAGAAACAGCA
CTCTGTCTTTGGGTCTAAAAACATCCTAGTCTGCATTGTCCATGAGGTGGGAAACGCCCAAGGCTCTCTTGGCAGCAGCTGTGACCTTGGCGCC

SAGRES DISCOVERY 02-08

CTCACTGGATTGCGGGCAGCACTGGGGCAAGGTCATTACAAGGATTCCTTTCTGCAGTGTTTCGGGCAGGTTCTACCCCAGGCACCCTGTGCTG
TACCATCCTCTATGAGAGAGGTCACCTGTACCCTGTGGTGACAGGCCTCTGTGGGCCCTTAGGAACCCTTAGACAAGATGGGGGTGGGTCAGGG
GAGGGGGACAGCCAAACCAAGAAGGAACAGACAGGAGAGAGAGAGAAGTGAGAAAGAAGTGAGAGGATGGGAGATTCCGCGGTGCTG
GGACCAGGGAGTGCTGGAGGCCCCGGCCTCAGCAGCTTCAGGAGAGCCCCGAGGGTCCAGAAGCCCTGGCACGCTAAAGCTCCCACTCCCTGTA
CCTTTCGGTGGAGCGTCAGTGGGCTTTTGCTCCAAGGAGTGCCTGCTCATTTCAAACAGGAGCCAATGGTGCATCCAGCTCTCAAAGACCTAAT
ACGGATAGAGGTGGAGGTCAGGTTCGATGGCCACCACCAAGCCCCTACACTGCCTGGCTTTGCCCCTGGGGACAGAAACATGCAGGGCCAAATA
GGGCCCCAACACCCGGGTCCAGCTGCAGCCTGGTTCCCTCTTAAAGACCCCTGGGGCTGAACCCCACATACTCTGCAGCATCCAGGTTTTGGAA
GTGCTGGTAAACCCCTTCAGCTTCCTGAGAATGGCTTCCCCAGCCCACCCTCACCCCACCTCTCCTAGCCCTGCCCTAGACACCAGAGGAAAGA
GAGAGTTCCCATGCAGGGAAACCTGCTGACCTTCCAGTCTATGGTCTCCATGGTGTTCTTAAGGTGTCTCAGGTTCTCCGGGAAGCTCCCCTTC
AGTGGCGGGTACACCTTCAGGGGGTCAGCATTCTACAGGGTAGCAGGGCAGGAAGGATGGTTCAAGAAGAGCTCCCTGGCAGGCAGTGTGAAAT
GTGTAGCCCACGTTCCCTTGGTCTTCCATTCTGAGGAATGGACCAGAGCTACACCAAGCCTAAACCCTGGACTTCAGCCATGATGGGAGGGGAG
GGGAGGGTACGGGTAAGGGTAGTCCAGCTGTTCAGCTACGAGACTGCAGCGTTGCGAGTCGAGTTCCAGATTCCAGGCCAGCTCTACCAACAAG
CCCCAGTGTCCTCCCTGTGGATGGCTGCTCAGCTTTCAGGTCTTACCTGCTCCAGCAGGTGAGGACCCAACCTTGACTGCCCCCAGCTAGGTTG
AGTCCTCTGCCTCTTTCTTCACAAAGCCCCCTGCACTTCTGTCATCACCTGGTCACTTGTCTGTCTCCCACACTAGCCTGGGATCCCCATGGCT
TCAGGAGCTGGGTCCAATTGCTCCCCATTGTGGGCCCAGAGCCTTGCACAGTGCTGGCATAGGACAGACACGCAGTACAAATTTGGGGAGAAAA
AAAGGGTGTCTTGAGCAAGTCACTTCCAAACTTTGAGCCTCAGTTTCTTTTTTTATTTTTATTTTATTTTATTTTTTGAAATGGAGTCTCACTC
TGTCACCCAGGCTGGAGTGCAGTGGCGTGATGATCTCGGCTCACTGCAACCTCCACTTCCCGGGTTAAAGCGATTCTCCTGCCTCAACCTCATG
AGTAGCTGGGATTACAGGTGACTGCCACCACATCCGGCTAATTTTTGTATTTTTAGTAGAGACTTTCACTATGTTGGCCAGGCTGGTCTCGAAC
TCCTGGCCTCAGGTGATCTGCCTGCCTAGGCCTCCCAAAGTGCTGAGATTACAGGCATGAGCCACTGCACCCAGCCGAGCCTGTTTATCTCAAA
AATGCAGAGGCCAGACTACATATAACATTTAAGGGTCACCCTTGTATTCAGTAATCCAGAGAGCACATGTTGAAAGTCTGCCATGAGCCAGGTA
TACAGGCCTTGGAGCTTGGCCCGGCCAGGGTCCTGGGTGGGCAGGCAGGACCACCCAGCTAGCTCCCTGCACTCACCTGGAGCAGGTGCATCAC
ATGGTCCTCTGTCATGTTGCCATACTTGGTGGCATTCTGCATGGGCTGTGGGAGGAAGTAACAGAAGGTTACCAGAGCTGGTCCCTGGAGCAGG
GGGTATGGAGCAGGAGCCGGTTGCTGGGATCTAGGTAAGAGACTGGAATCGCAGGCACTTGGTCAATGGTTCCATCTCTGCCACCTCCAAACAT
GAGAGCTCGAGCAAGTCACTTTAGCTTCCTGCCTCAATGTCCTCATTGGTCAAACTGGCATAAGCTTTCCTGCCCAGGGTTTTGTCCACAGCAC
AGTATTGTGAATATAAATATTGTCAATGCATGATAGCAAGGTCTTTGAGAATGGGAGAGGACAGTGAGATGCTATAGGAAATGAGAAGCACTTT
GTAAACTGTAGAGGGCTGAGCCTTCCTCCCAGGGATGGCACCAAGAGACTCTTCACCTGTGCCCTCCACACCTGGGGAGCCCGATTCTTCCTGA
GGCAGGCACTGTCCCTCCCGCAGCAGTCAGGACCCCTCCCCAGGTGGGCTCTCTTCCCTGCCCCTCCCCTTGGCACTGTCCTCCATCCAGGCGG
GATAACCTTGCCCCTCCCACCACCCTGGGGCTGTCCTTACCCCCTGGGGCAGGGCTCCCATGGGCAGCGCCTGCATCAGCAGCGGGGTGGCCAT
GCGCATCTTGCTCACAGGCTTGGGAGCTGTGGGGACAGGAACGAGGGTAAGTGTGGCCCCGGTGCCCAGGGAGGAGGGTATCAGACCCAGATGA
GGAAGGGCTGGAATTCCAAACCGGAGGGAGAGGACAGTGGGCCCAGCTGGGTGCAGGGATGCGGGTCTCTGAGTTGAGGGATGGTGGGAGGTGG
GGGGTATCAGGATGTAGGGGTGCACGCACGCTTGGGAAGCTTCATGCGCAGGTTCTCCAGCTGCAGGTTCTGGGAGGTGACTGTCAGTTTGTCC
AGCCGGCCCTGCTGCTGGTACAGGAAGTAGGCGGTGGTGGCCTGGCCAGCGAGGAGCAGAGTCACCAGGATGGAAAAGCCTGTGTACAGGGCTC
CGCGGCTGCACTTGCTGTGGGAGGTGGGGAGGATAGGTCAGAGGAGGATCCACAGTGGTGGCTGCCCCAAGGGCTGGCTAGGAATGGGGAAATG
TATACCCCCATCTCCATTAGACCCCTAAGCCACCCCTAATAAACAATGCATTTGAAGCACAAACAGTAAGCTGGCTATGGAAACACAGCTTGAA
GACCTCACCCCACCCCTCCTTCCAACCATCGATGTGCCTGAAGTCTTCCCTGGCAGAGACCCTGCAGCTGCCACGGGCCTGAGTTGAACAGAGA
AGAGCAAAGAGGCATGCTCTTTGTCCTCTCTGGACCTTAGGGTCCTGCCTGTGCGATGAGGGGTTGAGGTGGGGGGGTCTTCCCAGGCTCCCTT
TGCCGTGCGGATCTCCTGATGATCAGGGCTGCCCTCAAGGGGAACAGGTTTGGTTTTTGTTTTGTTTTGTTTTGTTTTGTTTTTTTGAGACGGAG
TCTTGCTCTGTCGCCCAGGCTGGAGTGCAGTGGCGCGATCTCGGCTCACTGCAACCTCCACCTCCTGGGTTTATGCCATTCTCCTTCCTCAGCC
TCTCCGAGTAGCTGGGACTACAGGCACCCGCCACCACGCCTGGCTAATTATTTTGTATTTTTGATAGAGACGGGGTTTCACCGTGGTCTCGATC
TCCTGATCTCGTGATCCACCCACCTCAGCCTCCCAAAGTGCTGGGATTACAAGCGTGAGTCACCGCGCCCAGCCTTTTGTTTTGTTTTTTTTTT
CTGCTGGCAGGATCAACCAGGTATGTTATTTTTTTTAATTGACAAAACCAAAAAAAATTGTATGTGCTTACCAAGTAAGGGGAAGAGGGTTTTC
ACCCCTCTGCCCAACCTCCCACCCTCACAGTGAAATCAGATTTAAGGAGAAAAGGTAAGGAAGTGGGACCGGGACAGCAGAAAATGTAGCCCAC
CTGGGAAGAAGTGGGGCCTGGCCATTTTAGGAGTGGGCTGGGGGAGGCTTGGACAATGTCAGGCTGAAGCAGGGCCAGGCACCACCCACTCTGG
GGCCATCCTCTGCCCAGGCTCTCCATGTCTTTGAGCATGTCCCTGCCAATCTCTGTGCCTCTGTTCCCTCATTTGTCACATAGGTGCCCCCACC
TCTGCGATTCTAGAATTTGGTGGGTTTCTTCTTTTAAGCAAGATCTCACTGCAAGCGCCAAAGTATTTCAAATGGTAATATCCATCCTGCAGGG
GGTGGGCAGGAGTATAGGTGCCTGAGCCTGTGTGGCCTGGATGAATTTCTCATGCTCCCTGGACTCACCATCCAGACCCTCGGACCTCAGCAAG
CCCTTGTATCTGTGGGACTTGGATGCGACTGGGGGGTGCATGCATATGTTACAGTACAGGGGATGTAAGGATCCTGCCCCTACACCCCAGGAGT
TTCTGATCTGTTCTTTGACGACCCCAGGGGTGGGACTACTAAGACCCTAGTCCAGGTGTTGCCAATGTGAAGGTGTTGGGAGGTGATCGGGCCA
CAAGGCCTTCTCCCTCACGAATGGGATTAGGTGCCCTGTAAGACGGCTTGATGGAAGGAGTTGGTTCTCTCTTGCCCTTCTGCCTTCCACCATA
TGAGGACACATCAAGGAAGCCCCTCACCAGGCTGGGTGTGGTGACTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGTGGATCACT
TGAGGCCAGGAGTTCGAGACCAGTCTGGCCAACATGGCGAAACCCCGTCTCTACAAAAAAATACAAAAAACTTAGCCAGGCATGGTGGCGTGCA
CCTCTAGTCCCAGCTACTTGGGAGGCTGAGGTGGGAGAATCACTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCCGAGATCACGTCACTGCACT
CCAGCCTGGGTGACAGAAGGAGACTGTCTCAGAAAAAAAAAAGAAAGCAAGCTAGGCCGGGCGCGGTGGCTCACACCTGTAATCCCAGCACTTT
AGGAAGCCAAGACAGGTAGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACGTGGTGAAACCCTGTCTCTACTAAAAATGCAAAAAT
TAGCCGGACGTGGTGGCGAGCACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCCCTTGAACCTGGAAGGTGGAGGTTGCAGTGA
GCTGAGATCATGCCATTGCACTCCAGCCTGGGCAACAGAGTGAGGCTCCATCTCAAAAAAAAAAGAAAAAATTAGCCGGGCGTAGTGGTGGGCA
CCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCTGGGAGGCAGAGGTTGCTGTGAGCCAAGATCACACCACTGCATT
CCATCCTGGGGGATAGAGTGAGACTCTGTCTCAAAAAACATAACAAAAAAAAAAAAAAAAAACAAGAAAGCCCCTCCAGAACTGTGAGAAATAA
ATTTCTGGGTGTTTTTTGTTTGTTTGTTTGTTTGTTTGTATATTACGCAGTCTGTGGTATTCTGTTAAAGCGGCACAAAACGGACTAAAACAGA
CCCATTGGGAACTGCAAGGATGAGGCTGCACCCTGCCTACTCCAGCAACCAGCAAGGATGGTTTAGGACGCTCCAGGAGTCCCTTGTGCCTGGT
AACTCATGACATCACAGACTGGCTCATTCTCATTGGCTTGCTGCGTGCCAGTCTGTGCTTTCTGGGATAAGGCCCAGCCCAAGGGAGAGTTATT
CGGGAAGGAAACAGCAAAAACCCGACGGTGGGCGGGGGGCGGGGGGGAAGTGGGGAGACCAGACAGGAAGGGAAAACAAATTCTACTTCTTGGC
CTTCTCAAGGAACACGGGTGGCCTAGCCTGTGTTCAGGCTCTCCAGCCTCATCCTCCACCTGTTCAGTGCTTCTGCAACCCCACACCCAATTCT
AGCCCCAGCTCTACCTCCCACACACGACATGGGACAGTACCTTCCCCTCTCTGCACCACAGTTCCTCAGGAG

HUMAN SEQUENCE - mRNA

TAAGGGCGCGAGGGAAGTGGCGGGCGGGGACTAAGGCGGGGCGTGCAGGTAGCCGGCCGGCCGGGGGTCGCGGGTATGGCCGAGGCCAGGAAGC
GGCGGGAGCTACTTCCCCTGATCTACCACCATCTGCTGCGGGCTGGCTATGTGCGTGCGGCGCGGGAAGTGAAGGAGCAGAGCGGCCAGAAGTG
TTTCCTGGCTCAGCCCGTAACCCTTCTGGACATCTATACACACTGGCAACAAACCTCAGAGCTTGGTCGGAAGCGGAAGGCAGAGGAAGATGCG
GCACTGCAAGCTAAGAAAACCCGTGTCAGACCCCATCAGCACCTCGGAGAGCTCGGAAGAGGAGGAAGAAGCAGAAGCCGAAACCGCCAAAG
CCACCCCAAGACTAGCATCTACCAACTCCTCAGTCCTGGGGGCGGACTTGCCATCAAGCATGAAAGAAAAAGCCAAGGCAGAGACAGAGAAAGC
TGGCAAGACTGGGAATTCCATGCCACACCCTGCCACTGGGAAGACGGTGGCCAACCTTCTTTCTGGGAAGTCTCCCAGGAAGTCAGCAGAGCCC
TCAGCAAATACTACGTTGGTCTCAGAAACTGAGGAGGAGGGCAGCGTCCCGGCCTTTGGAGCTGCTGCCAAGCCTGGGATGGTGTCAGCGGGCC

AGGCCGACAGCTCCAGCGAGGACACCTCCAGCTCCAGTGATGAGACAGACGTGGAGGTAAAGGCCTCTGAAAAAATTCTCCAGGTCAGAGCTGC
CTCAGCCCCTGCCAAGGGGACCCCTGGGAAAGGGGCTACCCCAGCACCCCCTGGGAAGGCAGGGGCTGTAGCCTCCCAGACCAAGGCAGGGAAG
CCAGAGGAGGACTCAGAGAGCAGCAGCGAGGAGTCATCTGACAGTGAGGAGGAGACGCCAGCTGCCAAGGCCCTGCTTCAGGCGAAGGCCTCAG
GAAAAACCTCTCAGGTCGGAGCTGCCTCAGCCCCTGCCAAGGAGTCCCCCAGGAAAGGAGCTGCCCCAGCGCCCCCTGGGAAGACAGGGCCTGC
AGTTGCCAAGGCCCAGGCGGGGAAGCGGGAGGAGGACTCGCAGAGCAGCAGCGAGGAATCGGACAGTGAGGAGGAGGCGCCTGCTCAGGCGAAG
CCTTCAGGGAAGGCCCCCCAGGTCAGAGCCGCCTCGGCCCCTGCCAAGGAGTCCCCCAGGAAAGGGGCTGCCCCAGCACCTCCTAGGAAAACAG
GGCCTGCAGCCGCCCAGGTCCAGGTGGGGAAGCAGGAGGAGGACTCAAGAAGCAGCAGCGAGGAGTCAGACAGTGACAGAGAAGCACTGGCAGC
CATGAATGCAGCTCAGGTGAAGCCCTTGGGGAAAAGCCCCCAGGTGAAACCTGCCTCTACCATGGGCATGGGGCCCTTGGGGAAAGGCGCCGGC
CCAGTGCCACCTGGGAAGGTGGGGCCTGCAACCCCCTCAGCCCAGGTGGGGAAGTGGGAGGAGGACTCAGAGAGCAGTAGTGAGGAGTCATCAG
ACAGCAGTGATGGAGAGGTGCCCACAGCTGTGGCCCCGGCTCAGGAAAAGTCCTTGGGGAACATCCTCCAGGCCAAACCCACCTCCAGTCCTGC
CAAGGGGCCCCCTCAGAAGGCAGGGCCTGTAGCCGTCCAGGTCAAGGCTGAAAAGCCCATGGACAACTCGGAGAGCAGCGAGGAGTCGTCGGAC
AGTGCGGACAGTGAGGAGGCACCAGCAGCCATGACTGCAGCTCAGGCAAAACCAGCTCTGAAAATTCCTCAGACCAAGGCCTGCCCAAAGAAAA
CCAATACCACTGCATCTGCCAAGGTCGCCCCCTGTGCGAGTGGGCACCCAACCCCCCCGGAAAGCAGGAACTGCGACTTCTCCAGCAGGCTCATC
CCCAGCTGTGGCTGGGGGCACCCAGAGACCAGCAGAGGATTCTTCAAGCAGTGAGGAATCAGATAGTGAGGAAGAGAAGACAGGTCTTGCAGTA
ACCGTGGGACAGGCAAAGTCTGTGGGGAAAGGCCTCCAGGTGAAAGCAGCCTCAGTGCCTGTCAAGGGGTCCTTGGGGCAAGGGACTGCTCCAG
TACTCCCTGGGAAGACGGGGCCTACAGTCACCCAGGTGAAAGCTGAAAAGCAGGAAGACTCTGAGAGCAGTGAGGAGGAATCAGACAGTGAGGA
AGCAGCTGCATCTCCAGCACAGGTGAAAACCTCAGTAAAGAAAACCCAGGCCAAAGCCAACCCAGCTGCCGCCAGAGCACCTTCAGCAAAAGGG
ACAATTTCAGCCCCTGGAAAAGTTGTCACTGCAGCTGCTCAAGCCAAGCAGAGGTCTCCATCCAAGGTGAAGCCACCAGTGAGAAACCCCCAGA
ACAGTACCGTCTTGGCGAGGGGCCCAGCATCTGTGCCATCTGTGGGGAAGGCCGTGGCTACAGCAGCTCAGGCCCAGACAGGGCCAGAGGAGGA
CTCAGGGAGCAGTGAGGAGGAGTCAGACAGTGAGGAGGAGGCGGAGACGCTGGCTCAGGCGAAGCCTTCAGGGAAGACCCACCAGATCAGAGCT
GCCTTGGCTCCTGCCAAGGAGTCCCCCAGGAAAGGGGCTGCCCCAACACCTCCTGGGAAGACAGGGCCTTCGGCTGCCCAGGCAGGGAAGCAGG
ATGACTCAGGGAGCAGCAGCGAGGAATCAGACAGTGATGGGGAGGCACCGGCAGCTGTGACCTCTGCCCAGGTGATTAAACCCCCCCTGATTTT
TGTCGACCCTAATCGTAGTCCAGCTGGCCCAGCTGCTACACCCGCACAAGCCCAGGCTGCAAGCACCCCGAGGAAGGCCCGAGCCTCGGAGAGC
ACAGCCAGGAGCTCCTCCTCCGAGAGCGAGGATGAGGACGTGATCCCCGCTACACAATGCTTGACTCCTGGCATCAGAACCAATGTGGTGACCA
TGCCCACTGCCCACCCAAGAATAGCCCCCAAAGCCAGCATGGCTGGGGCCAGCAGCAGCAAGGAGTCCAGTCGGATATCAGATGGCAAGAAACA
GGAGGGACCAGCCACTCAGGTGTCAAAGAAGAACCCAGCTTCCCTCCCACTGACCCAGGCTGCCCTGAAGGTCCTCGCCCAGAAAGCCAGTGAG
GCTCAGCCTCCTGTTGCCAGGACCCAGCCTTCAAGTGGGGTTGACAGTGCTGTGGGAACACTCCCTGCAACAAGTCCCCAGAGCACCTCCGTCC
AGGCCAAAGGGACCAACAAGCTCAGAAAACCTAAGCTTCCTGAGGTCCAGCAGGCCACCAAAGCCCCTGAGAGCTCAGATGACAGTGAGGACAG
CAGCGACAGTTCTTCAGGGAGTGAGGAAGATGGTGAAGGGCCCCAGGGGGCCAAGTCAGCCCACACGCTGGGTCCCACCCCCTCCAGGACAGAG
ACCCTGGTGGAGGAGACCGCAGCAGAGTCCAGCGAGGATGATGTGGTGGCGCCATCCCAGTCTCTCCTCTCAGGTTATATGACCCCTGGACTAA
CCCCAGCCAATTCCCAGGCCTCAAAAGCCACTCCCAAGCTAGATTCCAGCCCCTCAGTTTCCTCTACTCTGGCCGCCAAAGATGACCCAGATGG
CAAGCAGGAGGCAAAGCCCCAACAGGCAGCAGGCATGTTGTCCCCTAAAACAGGTGGAAAAGAGGCTGCTTCAGGCACCACACCTCAGAAGTCC
CGGAAGCCCAAGAAAGGGGCTGGGAACCCCCAAGCCTCAACCCTGGCGCTGCAAAGCAACATCACCCAGTGCCTCCTGGGCCAACCCTGGCCCC
TGAATGAGGCCCAGGTGCAGGCCTCAGTGGTGAAGGTCCTGACTGAGCTGCTGGAACAGGAAAGAAAGAAGGTGGTGGACACCACCAAGGAGAG
CAGCAGGAAGGGCTGGGAGAGCCGCAAGCGGAAGCTATCGGGAGACCAGCCAGCTGCCAGGACCCCCAGGAGCAAGAAGAAGAAGAAGCTGGGG
GCCGGGGAAGGTGGGGAGGCCTCTGTTTCCCCAGAAAAGACCTCCACGACTTCCAAGGGGAAAGCAAAGAGAGACAAAGCAAGTGGTGATGTCA
AGGAGAAGAAAGGGAAGGGGTCTCTTGGCTCCCAAGGGGCCAAGGACGAGCCAGAAGAGGAGCTTCAGAAGGGGATGGGGACGGTTGAAGGTGG
AGATCAAAGCAACCCAAAGAGCAAGAAGGAGAAGAAGAAATCCGACAAGAGAAAAAAGACAAAGAAAAAAAAGAAGAAGAAAGCAAAA
AAGGCCTCAACCAAAGATTCTGAGTCACCGTCCCAGAAGAAAAAGAAGAAAAAGAAGAAGACAGCAGAGCAGACTGTATGACGAGCACCAGCAC
CAGGCACAGGGATTTCCTAGCCGAGCAGTGGCCATCCCCATGCCTCTGACCTCCACCGACCTCTGCCCACCATGGGTTGGAACTAAACTGTTAC
CTTCCCTCGCTCCACAGAAGAAGACAGCCAGCTTCAGGGGTCCCTGTGCTGGCCAAGCCAGTGAGCCTGCGGGGAGGCTGGTCCAAGGAGAAAG
TGGACCAGCTCCCATGACCTCACCCCACTCCCCCAACACAGGACGCTTCATATAGATGTGTACAGTATATGTATTTTTTTAAGTGACCTCCTCT
CCTTCCACAGACCCCACATGCCCAAAGGCCTCGGGACTTCCCACCACCTTGCTCCACAGATCCAGCTAGGCCTGACCTGTGCCTCATCCCGTGC
CGCTCGGTCTCTGGCTGATCCCGAGGCTTTGTCTTCCTCTCGTCAGTTCTTTTGGTTGTGTTTTTTGTTTTTTTTTTAATAACTCAAAAAAAAA
ATAAAAGACTTGGAGGAAGGGTAAAAAAAAAAAAAAAAAAAAAAA

HUMAN SEQUENCE - CODING

ATGGCCGAGGCCAGGAAGCGGCGGGAGCTACTTCCCCTGATCTACCACCATCTGCTGCGGGCTGGCTATGTGCGTGCGGCGCGGGAAGTGAAGG
AGCAGAGCGGCCAGAAGTGTTTCCTGGCTCAGCCCGTAACCCTTCTGGACATCTATACACACTGGCAACAAACCTCAGAGCTTGGTCGGAAGCG
GAAGGCAGAGGAAGATGCGGCACTGCAAGCTAAGAAAACCCGTGTGTCAGACCCCATCAGCACCTCGGAGAGCTCGGAAGAGGAGGAAGAAGCA
GAAGCCGAAACCGCCAAAGCCACCCCAAGACTAGCATCTACCAACTCCTCAGTCCTGGGGGCGGACTTGCCATCAAGCATGAAAGAAAAAGCCA
AGGCAGAGACAGAGAAAGCTGGCAAGACTGGGAATTCCATGCCACACCCTGCCACTGGGAAGACGGTGGCCAACCTTCTTTCTGGGAAGTCTCC
CAGGAAGTCAGCAGAGCCCTCAGCAAATACTACGTTGGTCTCAGAAACTGAGGAGGAGGGCAGCGTCCCGGCCTTTGGAGCTGCTGCCAAGCCT
GGGATGGTGTCAGCGGGCCAGGCCGACAGCTCCAGCGAGGACACCTCCAGCTCCAGTGATGAGACAGACGTGGAGGTAAAGGCCTCTGAAAAAA
TTCTCCAGGTCAGAGCTGCCTCAGCCCCTGCCAAGGAGTCCCCCAGGAAAGGGGCTACCCCAGCACCCCCTGGGAAGGCAGGGGCTGTAGCCTC
CCAGACCAAGGCAGGGAAGCCAGAGGAGGACTCAGAGAGCAGCAGCGAGGAGTCATCTGACAGTGAGGAGGAGACGCCAGCTGCCAAGGCCCTG
CTTCAGGCGAAGGCCTCAGGAAAAACCTCTCAGGTCGGAGCTGCCTCAGCCCCTGCCAAGGAGTCCCCCAGGAAAGGAGCTGCCCCAGCGCCCC
CTGGGAAGACAGGGCCTGCAGTTGCCAAGGCCCAGGCGGGGAAGCGGGAGGAGGACTCGCAGAGCAGCAGCGAGGAATCGGACAGTGAGGAGGA
GGCGCCTGCTCAGGCGAAGCCTTCAGGGAAGGCCCCCAGGTCAGAGCCGCCTCGGCAAGGAGTCCCCCAGGAAAGGGGCTGCCCCA
GCACCTCCTAGGAAAACAGGGCCTGCAGCCGCCCAGGTCCAGGTGGGGAAGCAGGAGGAGGACTCAAGAAGCAGCAGCGAGGAGTCAGACAGTG
ACAGAGAAGCACTGGCAGCCATGAATGCAGCTCAGGTGAAGCCCTTGGGGAAAAGCCCCCAGGTGAAACCTGCCTCTACCATGGGCATGGGGCC
CTTGGGGAAAGGCGCCGGCCCAGTGCCACCTGGGAAGGTGGGGCCTGCAACCCCCTCAGCCCAGGTGGGGAAGTGGGAGGAGGACTCAGAGAGC
AGTAGTGAGGAGTCATCAGACAGCAGTGATGGAGAGGTGCCCACAGCTGTGGCCCCGGCTCAGGAAAAGTCCTTGGGGAACATCCTCCAGGCCA
AACCCACCTCCAGTCCTGCCAAGGGGCCCCCTCAGAAGGCAGGGCCTGTAGCCGTCCAGGTCAAGGCTGAAAAGCCCATGGACAACTCGGAGAG
CAGCGAGGAGTCGTCGGACAGTGCGGACAGTGAGGAGGCACCAGCAGCCATGACTGCAGCTCAGGCAAAACCAGCTCTGAAAATTCCTCAGACC
AAGGCCTGCCCAAAGAAAACCAATACCACTGCATCTGCCAAGGTCGCCCCCTGTGCGAGTGGGCACCCAACCCCCCCGGAAAGCAGGAACTGCGA
CTTCTCCAGCAGGCTCATCCCCAGCTGTGGCTGGGGGCACCCAGAGACCAGCAGAGGATTCTTCAAGCAGTGAGGAATCAGATAGTGAGGAAGA
GAAGACAGGTCTTGCAGTAACCGTGGGACAGGCAAAGTCTGTGGGGAAAGGCCTCCAGGTGAAAGCAGCCTCAGTGCCTGTCAAGGGGTCCTTG
GGGCAAGGGACTGCTCCAGTACTCCCTGGGAAGACGGGGCCTACAGTCACCCAGGTGAAAGCTGAAAAGCAGGAAGACTCTGAGAGCAGTGAGG
AGGAATCAGACAGTGAGGAAGCAGCTGCATCTCCAGCACAGGTGAAAACCTCAGTAAAGAAAACCCAGGCCAAAGCCAACCCAGCTGCCGCCAG
AGCACCTTCAGCAAAAGGGACAATTTCAGCCCCTGGAAAAGTTGTCACTGCAGCTGCTCAAGCCAAGCAGAGGTCTCCATCCAAGGTGAAGCCA
CCAGTGAGAAACCCCCAGAACAGTACCGTCTTGGCGAGGGGCCCAGCATCTGTGCCATCTGTGGGGAAGGCCGTGGCTACAGCAGCTCAGGCCC
AGACAGGGCCAGAGGAGGACTCAGGGAGCAGTGAGGAGGAGTCAGACAGTGAGGAGGAGGCGGAGACGCTGGCTCAGGCGAAGCCTTCAGGGAA

SAGRES DISCOVERY 02-08

GACCCACCAGATCAGAGCTGCCTTGGCTCCTGCCAAGGAGTCCCCCAGGAAAGGGGCTGCCCCAACACCTCCTGGGAAGACAGGGCCTTCGGCT
GCCCAGGCAGGGAAGCAGGATGACTCAGGGAGCAGCAGCGAGGAATCAGACAGTGATGGGGAGGCACCGGCAGCTGTGACCTCTGCCCAGGTGA
TTAAACCCCCCCTGATTTTTGTCGACCCTAATCGTAGTCCAGCTGGCCCAGCTGCTACACCCGCACAAGCCCAGGCTGCAAGCACCCCGAGGAA
GGCCCGAGCCTCGGAGAGCACAGCCAGGAGCTCCTCCTCCGAGAGCGAGGATGAGGACGTGATCCCCGCTACACAATGCTTGACTCCTGGCATC
AGAACCAATGTGGTGACCATGCCCACTGCCCACCCAAGAATAGCCCCCAAAGCCAGCATGGCTGGGGCCAGCAGCAGCAAGGAGTCCAGTCGGA
TATCAGATGGCAAGAAACAGGAGGGACCAGCCACTCAGGTGTCAAAGAAGAACCCAGCTTCCCTCCCACTGACCCAGGCTGCCCTGAAGGTCCT
CGCCCAGAAAGCCAGTGAGGCTCAGCCTCCTGTTGCCAGGACCCAGCCTTCAAGTGGGGTTGACAGTGCTGTGGGAACACTCCCTGCAACAAGT
CCCCAGAGCACCTCCGTCCAGGCCAAAGGGACCAACAAGCTCAGAAAACCTAAGCTTCCTGAGGTCCAGCAGGCCACCAAAGCCCCTGAGAGCT
CAGATGACAGTGAGGACAGCAGCGACAGTTCTTCAGGGAGTGAGGAAGATGGTGAAGGGCCCCAGGGGGCCAAGTCAGCCCACACGCTGGGTCC
CACCCCCTCCAGGACAGAGACCCTGGTGGAGGAGACCGCAGCAGAGTCCAGCGAGGATGATGTGGTGGCGCCATCCCAGTCTCTCCTCTCAGGT
TATATGACCCCTGGACTAACCCCAGCCAATTCCCAGGCCTCAAAAGCCACTCCCAAGCTAGATTCCAGCCCCTCAGTTTCCTCTACTCTGGCCG
CCAAAGATGACCCAGATGGCAAGCAGGAGGCAAAGCCCCAACAGGCAGCAGGCATGTTGTCCCCTAAAACAGGTGGAAAAGAGGCTGCTTCAGG
CACCACACCTCAGAAGTCCCGGAAGCCCAAGAAAGGGGCTGGGAACCCCCAAGCCTCAACCCTGGCGCTGCAAAGCAACATCACCCAGTGCCTC
CTGGGCCAACCCTGGCCCCTGAATGAGGCCCAGGTGCAGGCCTCAGTGGTGAAGGTCCTGACTGAGCTGCTGGAACAGGAAAGAAAGAAGGTGG
TGGACACCACCAAGGAGAGCAGCAGGAAGGGCTGGGAGAGCCGCAAGCGGAAGCTATCGGGAGACCAGCCAGCTGCCAGGACCCCCAGGAGCAA
GAAGAAGAAGAAGCTGGGGGCCGGGGAAGGTGGGGAGGCCTCTGTTTCCCCAGAAAAGACCTCCACGACTTCCAAGGGGAAAGCAAAGAGAGAC
AAAGCAAGTGGTGATGTCAAGGAGAAGAAAGGGAAGGGGTCTCTTGGCTCCCAAGGGGCCAAGGACGAGCCAGAAGAGGAGCTTCAGAAGGGGA
TGGGGACGGTTGAAGGTGGAGATCAAAGCAACCCAAAGAGCAAGAAGGAGAAGAAGAAATCCGACAAGAGAAAAAAAGACAAAGAAAAAAAAGA
AAAGAAGAAGAAAGCAAAAAAGGCCTCAACCAAAGATTCTGAGTCACCGTCCCAGAAGAAAAAGAAGAAAAAGAAGAAGACAGCAGAGCAGACT
GTATGA

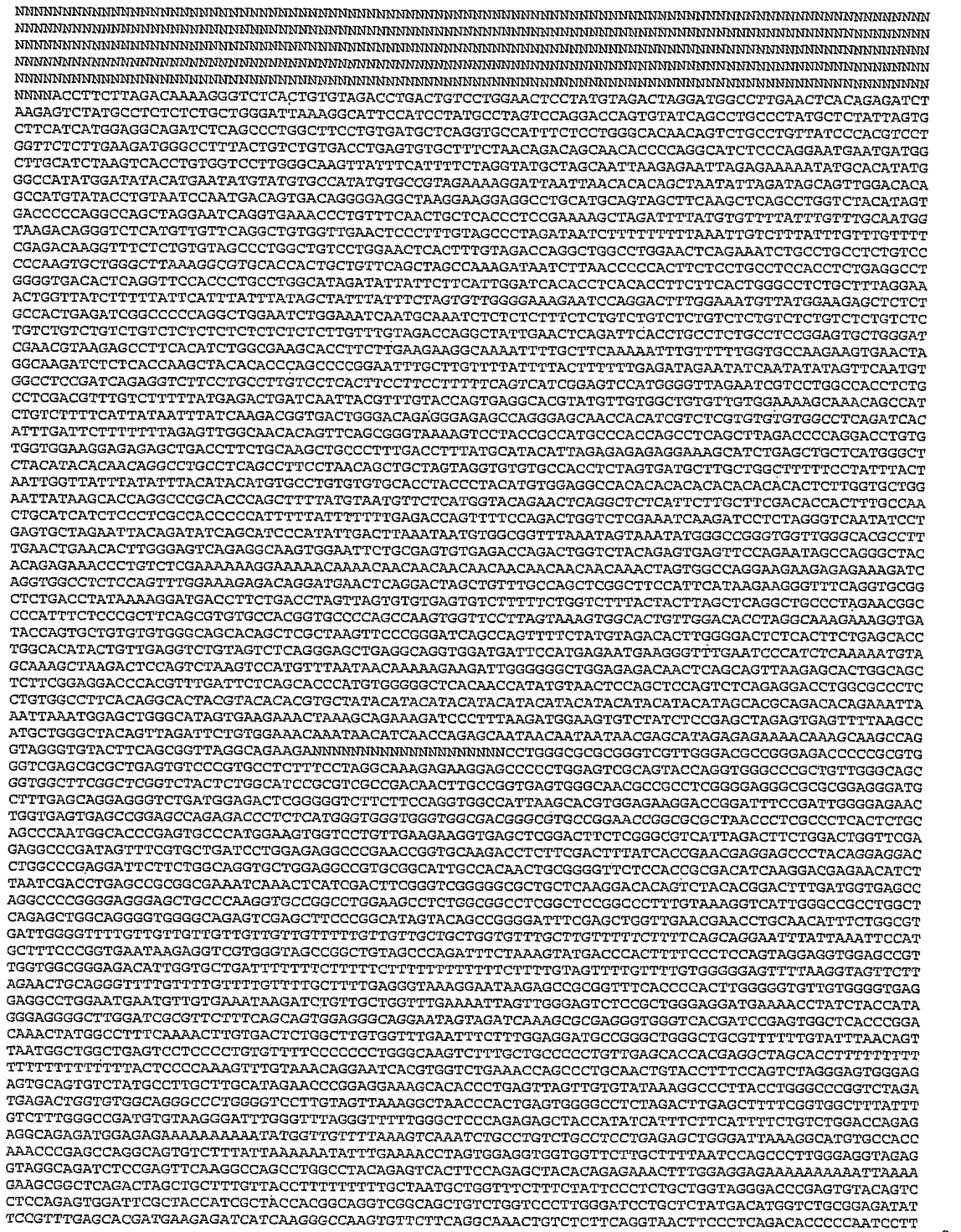
TABLE 9

MOUSE NOMENCLATURE
ICSGNM Pim1
Celera mCG21141

HUMAN NOMENCLATURE
HGNC PIM1
Celera hCG33220

MOUSE SEQUENCE - GENOMIC

TAGGGAACACCAATTGAGAAAACACCTCCATAAGATGCAGTTATAAGACATTTTCTTTTTCTTTTCTTTTCTTTCCTGGAAATCACTTTGTA
GACCAAGCTGGCCTCAAACTCAGAAATCTGCCTGCCTCTGCCTCCTGAGTGCTAGTATTAAAGGCGTGCACCACCACACTGGGCAAGACATTTT
CTTAATTAGTGATTGGTAGGGGAGGGTCCAGCCTAGTGGGTGGGGCTATTCCTGGGCTGGTGGTCCTGGGTTCTGTAATTAAGCAAACTGAACA
CACCATGAAGAGCAAGCCAGGAATGAGAACTCTCCATGGTCTCTGCATCAGCTCCTTCCTCCAGGTTCCTGCCCTGCTTGAGTTCCTGTCCTGA
CTTTTTGATAAACAGGTATGTGGAAATGTAAGCTGAATAAACCCTCTCTTCCCCAAGTTCTGGCCATGGTGGTTCATCCGGGCAATTGTAATGC
TAACTCCGAGTCTTTCTCTGGGTTAAATATAGCCCAGGTTGGCCTCAAACTTGCTATGTATCTGGAGACAACCTTGAACCCCTGATCCTGCATG
ACAGACATGTGCCCATAACCAGCTTATGTGGTGCTGGGATTGGAATGAAGGCTTTGATGGTTCCACGCCTGCTAGGCAGTATTCTACCAACTGA
TTTACATCCCCAGCCCCAAAGAATTCCCCAAAGAATTATCGGGACAACTTCAAGTCTTTCCTTCTCTTATGGCTGCACTGGAGACTTCCCACCT
TGTTAAAGAGCCAGTGCTGTTCCCCTGGAATGTGAGTGTATGCCCCCGCGCTACTGGACTTTCGCTGTTTCTTTTTGAGTTTTAAGGTGCACAT
GAGATACCTCCAATGCCCTTTAAAGTCCCTAGTCTTAGCTGGGCGTGGTGGCGCACGCCTTTAATCCCAGCGCTTGGGAGGCAGAGGCAGGCAG
ATTTCTGGAAACGCCCTACATAGACCAGAATGCTCCACCCCTGCCCCGCACCCTGTGTGGACAAGAATGTTCCACCACCTGCACACACACACAC
ACACACACACACACACCCTTTTAAATTTTGACACAGGATACTATGTATCCCTGACTGTCTGGGAACTCACTATGAAGTTATGATGGGCCTGGAC
CTCTCAGAGGTCCGCTGCGCCTCTTCCTTGAGCCCTGTGATTAATAAACATGTGCATTACCACGCCTGTGCCACCAAAGTCCCTACCATTTTTA
ACATTTATTTTCAAAGGTCACTTTGCAGCAATTTATTGGGATTAAACAAACGGTTCCTGATTCCAACTGAACATCTTATTTTTGTAATTTTAGG
GAGAGGTGTCTCCTCTAAACCCCTGGCCCACAGGGCTCTAGAGTGGATGCCTTGAAGTAACACATATGGTGTAATCTCTGCTTCTGAGCCCTGC
TGGGGGAAAGGGCAGCCCTGCTTCCTGTGTCACCCTAGAGTATAGCTAACTGCATGCCTGGGAAGTTGCCAGGTCATGTGGGATGGGCAGCTGT
CTGCATGGTGTCATTGGTGGGTTTGAGGAAATCCCCCTGCATAAAAATATCTTCTCCCGTCCAGGGCCTTGGCACTTACCCTAAATGTATCTCT
TACCATTGGTTGCAAGGTGATGTGGGAGGCCAATTGTTTACCAAGTTTGGCCAGAGAGTCCCACTAGCTCTCAGCGATGCTTCTTGCATCCAAA
TTCACCAGCCAGGATGAAGTGTACAGGAGACAGTTCCTTTTAATTAGGGACTTGATTCTTCAATGTGAGAAATCTGGGGTGATGGCCACTCAGG
GGAAGGACCGTGACGAGGACTCTTAAGTTACCTTCTGACTGATCACAAGACCAGTCCAGGAGATGGAAAGAGACGACTGCTTATGTTCCCAAGA
GAATTCCAGGCTGCCATGATGGCCTGGGAGTCTTTAATCCCAGCACTCAGGAGACAGAGGCAGGTAGGTCTCTGTCTCTATAAGGTCAAGGCTA
GCCTATAGTGAGTTCCAGGGTTGTAGTGAGACTTTATCTCAAAACATACAAACAAGCCGGGCAGTGGTGGCGCATACCTTTAATCCCAGCATTT
GGGAGGCAGAGACAGGCGGATTTCTGAGTTCAAGGCCAGCCTGGTCTACAGAGTGAGTTCCAGGACAGCCAGGGCTACACAGAGAAACCCTGTC
TGGAAAAAAGAAAAACAAAACAAAACCGAAACAAACAAACAAAAAACTATACAAACAAAAATAAAACACACATAAAAATAAGTAAAAAACAAAA
ACAAAAAACAAACTCACCACAGAACCCTAGGCGTGCTGAACAGGTGTAAGAGTGTCAGCCAAAACCTTACTTGAGGTGCCACAGCGAACAGGTC
GGTTAATTACCAGGCTAAGTCACCATGTCCCAGGTACCTGTGATGTCCTTGGCAATTACAGAATTGTGTCTAGGAGGGAGGGAGCTATTATTAG
CCTCAAATTACAGGTAAGGAAACTGAGTCTTCAGAGAGGTTCAGCTTGCTCAACCTCCAAATGGCTGAGTCAGGACAGAGGTAAAGGCAGCACA
CATGGGAAACCTGGCACAGCCTCCTGCTCCAGGGCTGGACAGACAACTATGACTTACCCCGAGTCATCTCAAAAGGAAAGGACCTTGTCCTGCC
ATAGCCTTGATGGGGCCTGGATCAGAGTCAGGTTTGGGTTTTGTTTTGTTATTTTTCTCTCTAAGGCCTTGCGTGTGCTTGAGCAAGTGATCTT
CCTTTGAATATAGAACCGTCTCTCATTTAAAAAAAAAAAAAAAGTATTTTCAACTGAACAGGCAGGGGTGCTGCACACCTTCAGTCCCAGCATTC
AGAAGCAGAGGCAGGCAGATCTCCCAGTTCAAGACTAGCCTGGTCGACAGAGCGAGTTCTAGCCTGGTCTACAGAGCGAATTCTAGCCTGGTCG
ACAGAGCGAGTTTCTAGCCTGGTCTACAGAGCGAGTTCTAAGACAGCCAGGGCTAAGCAGAAAAACCATGTCTCACAAAGCCAAATAAAATANN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NN



CCCAAACCCTGGTTCAGGGTTGGTTTGGGGATTACAAGAGTGAGAGAGTATTCCTATCCACCTTTTTATTTTTATTTATTCATTTTCTTTGGGG
GAGAGTAAGGCCTTAGCCTGCCTCTGACCCCCAACTGCTGGGACTCAAGAGATGGTGGGTTTTCACTGGGTCAGAGTACTCCATTTGGGCTCAA
ATTGGAACAAGTTTTATATACATCCCACCCCAACCCCCAGACCCTGTAAAATCTAAGTACCAGCAGAGACCCAGTCTCTAAACAAAGTTTAAAA
AAAAAAAAAAAAAATGAAGGTTCCGGATAGTGTCAGTGGAAGGCGTGAGGTAGGTAGGTGAATTGAATCACCTCATCTTGCTCACTGGTGGCTC
ATCAAAACCCTTGTCATCCTTCCTATTTCTAGTGAGTGGGTGTCATGGGAAAGGCCCGAGCTATTGAAGTCTGAAACCACAGGTTTAAGAGGGG
AGGCACTTTTTTAACTGAAAGCTGATTGCTGGAGGCTTTCGGTATCCGTTCTTTCCCACCGGGCAGTGTTTGGTATAAAAAGTACCGTGCCTCT
TTAAAAACCCCAGACTTGTAGGTCTGGGGAAGAAGACCTTTGCATTACAAAAACAAGTTGAGTCATCTTTAACCTCTGTCTGCCCCGCCTTCTG
CAGAGTGTCAGCACCTTATTAAATGGTGCCTGTCCCTGAGACCGTCAGATCGGCCCTCCTTTGAAGAAATCCGGAACCATCCGTGGATGCAGGG
TGACCTCCTGCCCCAGGCAGCTTCTGAGATCCATCTGCACAGTCTGTCACCGGGATCCAGCAAGTAGCAGCCTTTCTGCTGCTGTCTGTCAGAC
CCTCCAGGGAGGGAGAGCTTGTCTTCTGGCCTCCAACAGGACCCTGCGTGACGATGCAGGGACAGCAATGACAACTCATTCCAGACTCCAGGTC
CCTGGAGGAGCCTCCCACAAGGGAAAGAGACTACTTCACTGGTCCTGGGCCCCTCTTTGCGCGCCCCGCCCCCAGACTCAGCGTCTAGTGTTGC
TGGGCTCCCCTGAATCCATCCCTGGTTGGGGGTGGGAGTGGATCAGAGCCCTGTCAATGGAACTTTAATCACCATGGAGACTGGGTCACCAAGA
TGGGCCAGGGGGGAGGGGAAAACAGTCTGGGGGGGTGGGATAAAAACTAGCACCATATTTAAGTCCCTGTCACCTCTTCCAACTCCTGAGTGCC
TTCTGTGGGGACTCCGCCTGTGCTGGGAGAAATACTTGAACTTTACCTCTTACCTGCTGCTTCTCAAACTCTGCCTGGGTTTTGCTTCCTTCCT
CTCCTCTCCTTTCCCATCCCCCACTTCCTATGAAAGGTGCCATGGGAGAGGCTACAGGGCCAACTGCTGAGCCACCTGCCCCTTTTCTGTCTCC
TTTAGTAAAATTCCCAAGCAAACTGGTCTTCCTTTTTTGTTTCGACTTAACTGTTTCAAAACCAAGACCTCACACAGAACGCACAACCAATGCA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAACCAGACAAGCTGTAAATGTGTGTATAGTTCCGGCATGGTAGCCTGCAAAAGGACTGTAGATGATAA
CAATTTTAAAGAAGAAAAAAAAATGCCTTTAAGTTATTTTATGTGTTGGGGGGTTTGGTTTGGTTTTTTTTTTTTTTTTTTTTTCTTTTTTATT
CTTTTTTGCTTGTTTTTGAAAGATGGCACGTTCTACCCCGGAAGTTTTAATGTATTTATTTATTTATTTATTTGGTTGCCTTCCTGTCCAAGCT
TCCACTGACTGTTGCCCCCGGTTTATTGTCATGTTCTGCCTTTTTTTTTTCTTTCCTTCCTCCTGACTTGGGGACCTTTTAGGGGAGGGCTGTG
ACGCTTGCTGGGGTGTTGGGGCTCCGGTGGGACAGCTGCTGTAGCCCCCTTCTCCAGGGGCCCCCTTGGCTGCTTGCTGGAGTGGGTCTAGGGT
CTGCTGACTGTACATAAGACAGTTCCGGTGTGGTGTGCCTTCCGGATCCTCTCTGGGGCTGTGCTTTGAGCAGCGTGCAGCCCGCTGGTTTTAT
CTGAGTAAAGTATACTGTACAGGGGAATAAAAGAGATCTTATTTTTTTTTTTTATACTTGGCATTTTTTGAATAAAAACCTTTGTCTTAAACCT
TGAGTTTTCCATTCATTCATACAAAGNNNNNNNNNNNNNNNNNNNNCTGACGTGTCATGTCAGAGCTAGCATCGAACACTTGAGTTCCATCAGA
CAATGTGGTTGCAGGAATTACTACAGGTAGCACTTGAGAGTTTGATTTGGTTTTTGTTTTAAAGATTTTATGTATGTGAGTACACTGTAGCTGT
CATCAGAACAGGGCATCAGGTCCCATCACAGATGGCTGTGAGCCACCATGGGGTTGCTGGGAATTGAACTCAGGACCTCTGGAAGAAGCAGTCA
GTGCTCTTAACCATTGAGCCATCTCTCCAGCACCCTGGTTCTTGGTACCTCATAGCAGGGTTTCTCTTGAGCTCTAGCTGTAACTAGGGCTGTA
GATGAGGCTGGCTTCAAGCTCAGACCTACCTGCCCGGCTTGGTGAGTGACCAGAAGCCTAGTGTTTTTGACACAAGGTTTGAAGTCTGTGTAGC
CTTGGAACTTGATATGTATAGACCAGGCTGGCCTGAAACTCCTGGATCTGCCTGCCTTTGCCTCCTAAGTGCTGGGATTAAGGGCATGTATAGT
TCCACTGGAAAAGATTTGGGAGCCACGAGTCCTAGCATCTTCCTAGCAGAGTGGTGTAATCCTATAATCCCAGCACTTGGGAACTAAGAGGATG
AGAGTCAGGAGTTCAAGGTCAGTCTCAGTCTGGGATACTCGTGACTGGTCTAATCAGCTGGAAAGATGCACTCTGGTAGACAGGACCAAAGGAA
TTCCTATACATTCAAGGCTGAGCCTGGGCTGGAGTTCCAGGTCTATCCTATCTCGATAAAAGGGGATGAGGATGGGCAGGGGAAGTGGAGAGAT
GGCTCAGCAGTTAAGAATTCTTGCAGAGGGCCTGGGTACAACTTCCAGCACCCACATGGTGGCTCACAACCATCTGTAACTTCAGTTCCAGAGG
ATCCAATGCGCTCTTCTGGCCTCCAAGGGCACTAAGCGTGCATTCATACAAATACACAGATAACACACCTATTAAGAAAACATTTCAGCCGGGC
AGTGGTGGCGCATGCCTTTAATCCCAGCACTCGGGAGGCAGAGGCAGGCAGATTTCTGAGTTCAAGGCCAGCCTGGTCTACAGAGTGAGTTCCA
GGACAGTCAGGGCTACACAGAGAAACCCTGTCTCAAAAAACCAAACAAGAAAGAAAGAAAGGAATAAAGAAAGGAAGAAAGAAAGGA
AGAAAACGTTTGCTGTTCTTGCAGGGGACCCAGAATTGGTTCCCAGCACCTGTATGACCTCACAATTGTCTGGAAGATGGGGCCCCCAGTTTGC
CTCATGTTTGGTCTGAGTATGTCCTAATAGTTGAACCACTGCTGATCCAGGTCCTAAAAGTAATTCTTTCTTTCTTTCTTTCTTTCTTTCTTTC
TTTCTTTCTTTCTTTCTTTCTTTCTTCCTTCCTTCCTTCCTTTCTTTCTTTCTTTCTTTTTTTTTTTTTTTAGGCAATT
TCTCCTGTAGCCTAGGCTTAAATAGCCCAGGAGAGCCTTGAACTCCCGATCTGTATCTAGGATCTGGGGCTTGCTGCCACCACACCCAGGTGTA
AACATTGCTTTCTTGTTGCTTTCTGCCCATTAGTAACAGTTCTAACATTCTTCCCTCCTGCAGGGGCATCTTGACCTCTTCCTCCCCTCTTGCC
ATAATCTCTTAGGAACTTGGCCCCATTGCATTGCGCTTGTGGAGGATCCAGGCCACAGTGCCCTCCCTTCATCGAGAGATCTCCTCTACCACCA
CATCTTGGACTAGGTCCCAAACCCCAGCACAGCCTCGGTGTGGCTCAGAAAGGAAGGAAGGATTTCTCAGCTCTTGGGGGCTGATTTTCTGAAG
TTCCCCTTTTCCCTACCCTTCTGTCCCCTCCTCCTTCCTGTATACACACTGCCCGGCAGCTGGGTGTCTAAGCACACTGTGGGACCTTTCCAGT
CAAGTTGCAAGTGAACAATTGAAAGTTGCTAGAAACTTTATTTATTTATTTCATGTATGTGAGTACACTGTAGCTGTCTTCAGACACACCAGAA
GGGTGCATCAGATTTCATTGCAGATGGTTGTGAGCCACCATGTGGTTGCTAGGAATTGAAATCCCCTGCTAGAAATGAAATCCGGCAGAGCCTT
GCCCTTCTTGCCTTTGAGATGAGTTGGGGGGGGCCTTTCTGTGGCTGTTGAGACTGCTGGGGGCCATACAGTGTGTCTGTAGAAAGTAGGTTCT
CAGGGGCTAGAGAGAGGGCTCAGTGGTTAAGAGCACCGACTGCTTTTCCAGAGGTCCTGAGTTCAATTCCCAGCAACCACATGGTGGCTCACAA
CCATCTGTAATGGGATCTGATGCCCTTTTCTGGTGTGTCTGAAAATAGCAACAGTGTACTCATATACATGAAGTAAATAAATAAATCTTAAAAA
AAAAAGAAAGAAAGAAAGTAGGGTCCTCGCTAAGTAGAAGAGGTCAGAGGTTGTAGGAGATGCTTTTAGGTTCTGTTTGTTTTGTTTGTTTTT
GTTCTTTATGTAAACCAGGTTGGTCTTAAAGTCACAGAGATCTACTTGCCTTTGCCTTCCTGAGTGCTAGGGTTAAAGGTCTGTGCCACCACAC
CCTGCATTATTTATTTTTTATTTTATTTTAATTTAATTTAATTTTATTTTTTATTTTGAAATAGCATCTCCTGCATTCTAAGCTAGACTTGAAC
CCTGGCATGATAGGTGTGTGTGAGCTGAAACTAGGCATTTTTTGAGAAGGGGAAAGGTCCTTGATCTCTCTCTCTCTCTCTCTCTCTTTT
TTTTTTTTTTTTTTTTTTCCAGACAGGGTTTCTCTGTGTAGCCCTGGCTGTCCTGGAACTCACTTTGTAGATCAGGCTGGCCTCGAACTCAGAA
ATCTGCCTGCCTCTGCCTCCCGAGTGCTGGGATTAAAAGCATGTGCCACCACCGCCCGGCGTGGTTGTCACTTCTAAGGAGTAAGAAGAGGGTT
GTGATCTGGGGAGAGGGACCGGCCCAGCTATCTTCGCATTAGTTCCCATCCAAGAGATGGAGACAGATCTGTTTATGTCCCTGTTGATTTGCTT
TTTAGCTGTATGACATGTTGTGACATTATGGACAGACCTGTGTTTCCAGGAGGCAGAGATGGGGATGGATGTCCTTGGCGGAAGAGATTGGGAA
ATCTCCCCAGGGAAGGCAGCTTCTCACTGTTTTGTTTTGTTTTGAGTCAGGGTCTCCATACATGTAGCATGGGCTGGGTTCTGATGCTATGGTG
CCCTGGGAGCTCAGAAAACAACTTGNNNNNNNNNNNNNNNNNNN

GTACAAGACCGGCTGTTATTGAATTGTATCCTGTTGTTTGGCGAGTCTAACACCAATAGCAAGCAAGTTGGTGGTGTGGCTCAGTGGGTAGAAC
GCTTACCAGGCATGCACGAAGCCCTGGGTAGGGTGTTTTTTTTTTTGTTTTGTTTTGTTTTTTTTACTTATTATATGTAAGTACACTGTAGCTGTC
TTCAGACACACCAGAAGAGGGCATCCGATTTCATTACAGGTGGTTGTGAGCCACCATGTGGTTGCTGGGATTTTGAACTCAGGACCTCCGGAAG
AGCAGTCAGTGCTCTTAACCCCTGAGCCATCTCTCCAGCCCCCTGGGTAGGGTTTGTAATCCCTGTGCTGGGGAGGTAGAAGCAGGAGGCCCAG
ATGTTCAAGGTCATGCTCAGCCTGCATTATAGGCCACCCTGGACTACAGGCAGGACAGTAACAGTCACGTCTATGTGACCCGATGGTTTTCTTA
GTTTGTGTCCCGATGCCCCCAGATAGACCCTGCTGTCCTGAATGCCAGGTGTAGCTTTTTTTTTTACCTTAAAATAAATGCTTTGCCAGGCAGTA
GTGGCCCACGCCTTTAATCCCAGCACTTGGGAGGCAGAGGCAGGTGGATTTCTGAGTTTGAGGCCAGCCTGGTCTACAGAGTGAGTTCCAGGAC
AGCCAGGGCTGCACAGAGTAACCCTGTTTTGAAAACAACAACAACAAAGAAATAAATGCTTTTACATTCATTTACTTTGATGTTGTTGGTTTTA
AGATTTATTTTCAGTTTGTAATTATTTGTGCACTTGTGTGTGTCTGTGCGGGGGTGTGCCTACAGTCGGGCACAAGTACTTGCAGAAATCAGAA
GGGGACACTGGACCCTCTGGAATTGGAGTTGCAGGCAGTTGTGAGCTGTCAGATCTGAATGGTGGGAACCAAACTTGGACCTTCTGTAAGACTG
GTATGTATCTTAAGCCCTGGACTATCTCTACTGACCCCATCCGTGATCATGATCGTGTCACCATCACCATCATCAGCACCACCATCATCATCAC
CATCTCTGGCTAGCCTTGAATTTTTTTTTTTCTTTTGAGACAGGGTTTCTCTGTGTAGCCCTGACTGTCTTTGAACTCACTCTGTAGACCAAG
CTGGACTCAAATAGTGCTGGGGACAGAACCCAGGGTTCCTGCAATGCTAGGTAAACCCTCTTATCAACTGAGCCACATTGCCGCCAGCCCATGA
GTTTTGAATAAACAATTAATTTTGTGTTTTCCAAAGTTTTGTCATTGTATATAAAATACCCTTTTAATCTAACTCCCTGGAACCATGAGGGCCC
ACATGAAATCAGGGGCAGTAGCAGCGTGGTGTGTAAGGGACCCTTCCTTGACTTGGAGACATATTGTCACAGTTGAATTCCGCTCCAACTTTGG
TCTTCACGTGACCTTGGCAGATATTTAGTTTCTGAGTTTTGTTTTTTTTCTTCTCATCCACGACAGAGAAATGGTCCGGAGTTTGTGAAGCCTG
TGCCACCCAGCCAACGGTCATTGGTACAAATGAGGCACAGCTTAAACAGGACACCGTCGAAAGGAGATTTTAGAATGAGCTAGTCTGAATCTCG
GTGACCTGGAGCTAGTGGGGTCCAGAGATAGACTGAAAAGGGCGCCAGGAACTTCAGGGGAGGGAGTGCGGACTTGTTTTTCAAGTATGGTAAT
GTTTATTCGGCTGTGAAAGGCTGTCAGAAACACACCCTACTGAGCTAATGCTTAAAATGCATGCAGTGTCTTATGTGTATAAATTACCCCTGGG
TAAAATGACTTAAAAAAAAAAAAGTTAATTTCTTTTCCTTTTCCCCATCAATGAAAACACGTCCCTGAGCCAAATATACCACGGAAGTCTCCTT
TCCGGTTAGATTATTCATGTGAGTGCGAACATTCTCCCCGTGGATTGATATAAATAAATGAGAATTGGCTTAATTTCCCACCTTACTTTCTGAC
TGTAGTGCAAAATTAGAGAGATGTGTCATCAGGGGGTGGAGGGGGCCGACGCTGCGACCACGCTACGACGGAGATAAACTTAAACGCCGCATTT
TTTTTTTTCTTCAAAGTCATAAACTTAAAGGGAAAAGTTTTGTTTTTTGTTTTTTTTTTTCCTGGCGAAGCACTAAAGCAAAGTGATGGTTGCTC
GCGGTGGCGGAACATGTCTGGGAACCTCGCACCTTGGGAGGTAGAGGCAGGAAGGTCAGGCAGCCAACACTTGGTGAGTTCCACGCCAGCCTGG
GCTATGTGAGACCCAGTTGCTAAACAGCAAAGCGAGATGGTGCGGTGCGGCACAGGCTGACAGCTCTGCAGTAGCCAAAGGAATCACGTGATCC
ATCTGGTTCTATCTCCCATCATCCCTCATTTCTTTCCCCTTTGGGGTGAAATGTACACATGTATCTTTGAAGGAATTTTTTTCTTTAATATCTA
CTATTAACATTTTTGCTTACAACTCCTTGGCTTTTATTGTCTCCACACCTAGTCAAAGAGAAACTAGACATTTTAATCTATTTTTCAGGTAGCC
ACGTAACTAGAGATGAGAAGATGAGAACGGATTTTGCTGTAGATGTCTATCCATCTCTGTGTCTTTGGGTTTTTTAAGATTTACTTTATTATAT
ATACACAGTGTTCTGCCTGCATGTATGCCTGCAGGCCAGAAGAGGGCGGCAGATCACCTTATAGATGGTTGTGAGCCACCATGTGGGTGCTGGG
GATTGAACTCAGGACCACTGGAAGAGCAGCCAGAGCGCTTAACCTCTGAGACATCTCTCCAGCGCAGTCCATCCATCTCTATGCATATGTAGGT
TAGGAGTAGTGCAAGGTCAGAGCTCAAGGTCCTAAGCAGGTGGTGCACACTTGTCAGCCTAACTCTAGGGAAAAGGAGGCACGAGAATCAGGAG
TTCAAGGTTAACCTTGGCTATGTAACAAGTCTGCAGCCAGTTTGGGCTCCAAGAGACCCTGTCTTGGTAAAATGAAGCTGATAAGCACACTTGC
TGCTCATCCAGAGGACCCAAGTTCAAGTCCCAGCACCCACACAAATTGGAGGGCAAATTGGTATTTAATTATTTACTATCTGTTTGTGCTATTG
GGATTTAGAACTGAGCTAGGCAAGTGCTCTACTCCTGAGCTCCACCCGTTGCTGCAGTCTTACATATCCAGGTGAGCACGTGGAGGTCAAAGGA
CAACTGGAGAATTGCTCAGAAGTAAAGAGCACTGGATGCTCTTCCAGAGGTCTCAAGTTCAATTCCCTCACCCATATAGTGGCTCACAACCATT
TGTAATGTGAGCCAGGTCTCTCCTGGCTCAGGGGTGCAGGGTGCAGGAGGTCTAACTTAGCCCTCTCGTTTACTTTGTGCCACAGGGTCAGTTG
TCCTTGTCACTTGGCTCTTCAAACAGTTACATCTTTTTGATCACCTGGGATTCCTTCAGGCTGGGTTCTGTGCTCTTTATTTTAAGAATATTGT
TATATTTTAAGGGGGTGGGCTGTGGATCAGGGGAGTGGGAGTCATTTCTTCTAATCATTTTGGTCCCGGGGATGTAATTCAGGTCCTCATCTCT
CTCTCTCTCTCTCTCTCTCTCTCTCTGTCTGTCTCTGTCTCTCTGTGTCTGTCTCTCTGTTTCTCTGTCTCTCTGT
TTCTCTGTCTCTCTCTCTTTGAGACAAGGTATCCCTGGGTGATGTGAAACTTGCTGTGTAAACCAGACTGGCCTCAAGCTCATAGGGATCACCT
GCCTTAGCTTCCCAGTGCTGGGGTTCAAGATGTACAAGGCCTGGCTGGAGAGATGGCTCAGTGGTTAAAAGCACTGACTGCTCTCCCAGAGGTC
CTGAGTTCAAGTCCCAGCAACCACATGGTGGCTCACAACCATCTGTAATGGGCTCTGATGCCCTCTTCTGGTGTGTCTGAAGACAGCTACAGTG
TACTCATAT

MOUSE SEQUENCE - mRNA

TCTAGAGTCGACCTGCAGCCCAAGCTTCCTTAATGGAATCTTCTGGTTTATTTATTTCTCACCTTTGGCCTTATTTTTTCCTGTGCTCACTTAA
TATCCTGGTTGCTGTTGTTGTTGTTGTTTTGTCTGCTTGGTTTTTTTTTTTTCTTCCCTTGTTGATCATGAACCCCAGGCATGCTAGATGACTA
TCTGATCATTGAGCTACATCCTCAGCCATAAGGCTTTTCCTTTTGACATATGGTCTTGGTTACACCACTGTCTGGCTTCACTATACTGCTCAGT
TTGGCAGTCCTCCTGTTTCAGCCTTCCAAATATTAGAATGACAAGGATGACCCACTACATCAGGTTCATGAATTGCTGTTAAGTGTTCTTTACG
TTGGGTCATCTCCCATCAGAAACGGTTGGATAAAGGGTGGTTGTGCTTGCAGTGTGGGCAAGAGGGAAGGCAGAAGCAAACGATCCATGAATTT
GAGAACTGTCCTGGCTTTGGCATGCACAGTGAGATTGTATATTAAGAAGCAGAAAAAGGAAACAAAGCAGGTAGACAGTATAAATCAACGAAGA
GATAGCATACAGAAAGTCTTCTTGTTTTAAGGCAGGATCTTTTGTGTCTCTGACTGACTTTGAACTTTGACCTGACTCTACCTCTTTGTCCTGG
GATCAAAAGTACCATTTATGCAGTGCCCAGGGATCAAACCTAGGATTTTCTTCTGTATGCCAAGCAAGGACCCTACCAACCGAGCAGCATCCCC
AGCCCAGAAAGATTTTTTTTCTTTGTAAGAACCCCACATGACCATCAGATGGGCGGCAGTGAACGAAGGCTTAGAATTTGTTCAGCAAAAAAAT
GTGGAAATACACGCGCCTTGTTCAGAACGCAAGGCTTTGAATAAGCGACAGGACTGGAGTGTATGTAGGTTGGTGACAGGGTGCATGTGTAAGA
CCCTGGATTTCCCAACATCAGACACATTCCGAGAAGAGGACAGGGCACTTTGGACAGGTGGACTTAGTTTTCAGAGGCACAAAGTCTGGAATGT
GCTGGGAGATTGAAAACAAGTGGAAATAGTCCTGTTTGGACAGAGCTGAGGGCCTGATAGGGAACTGGAGGTAGTTGTACTGGTGTTTAACACA
TATTTATTTATAGACAGAGTTTCTCTTTGTAGACAAGGCTGGCCTGGTTAGAATGTTGTGGTTTTAACGTTGGGCACCACTCTAGGCATACCTG
TTTTCTGATTGCCTGCTCAATACCAGTGCCATAGATGTTTTTAGGCTGATTAAAGGGAGAGCTCTGAACCCTCAGGAGCAGAATTTGGGCCATT
CTCTCTGCTGTCGTATGACCCTGTGTCATCCCAGTGACGAGTCATTTTCCTATCTGCAAAAAAGGAAGTAATTCTCCTTCCCCTGGGTTTTTCT
CCTTTCGTCATCAGAAATGAATGAGTTAGTCCACAGAACACAAACAAAGGGAAATATGTAATGTTTTGTAAGAGGCATCCATAAAAGTTATGGA
GTCTCTGGGCATCTTTATAAGCAGCATGGAAAACTTGTAAAGGAAGCATTTAAACGCGTGCGCTAATGACTACATCCACAACAGGCTCGTTCCT
CCTTTAAAGATCTCTCAGACCTAAGAACAACAACAAAAATAACGAACAAGGGGTGTAGCTGGCTGTCCATGACTCTGGCCACCAGTATCTCAGT
TTATATGGATTACACAGAATGAGAGTTTACCCATTTCCACACGTCGTTATCAACTCTCCATGAAGTTCAAAAGGACAAAAGATGAAAGCGGACT
CGGCTAGCTTTCCGTGGTATTTCCACGTGCATGTGGGGACTTTCCTTTGAGACAAGGCTGGGGTGGGGGCCAATAATATCTGGTATCGCCTGAC
TGCTAATACCAAGCTGATGAGAAGGTAACTACCGCAACAACCTCTGATTAAACCCAGCGGCACCCTCCCACCCTCGCCCGCGATCAGGAATTTT
CCTGCTCCTCCCGCCCTCTCAGAAGGGGCTGAGGCAGCATTTGGCAAGAGAAAGCTAACGTTTGTGTCGTGATTTCCTCTCTCAGGCGCTCGGA
CATGGACCGAGGGGATCAGGTACCCCGGGTCCCTTCTAATTCTCTCTGCATTTCTAAATTGAGAATCTTTGTCACCGGCTCCTCGCATCCCAGG
TCTCCCCCACTTTTCCTCGCAGGCCTGTGACTGGCCTCGGTGTGCAAAATGCCGGTGACTCACGTCTTGCACAGCCTTCGCCCCCAAAAACACA
ATCATCACCCCCAGGATCTAGCCCACATAGCATCGTCAACCCGCCCCAGCAGCCTTGGAGGTCTCCGGGCTGAGTCACACCAGAGGACCACCCT
GGTCGGCATCCACACACACGCGGTCCCTACTCATGGCTTCCGCGCCCGCCACACCAACGCCCTTCCATTTCTCACAACTTGCTACGCTCCAGCT
CCAATCCTCGACCCCCCTCCACAACCCAAATCTCCGGGAAACACAGAGCCGGCGGAGCTGGCCTCGGGCGGCCTTTGATGGCTTTGTTATTGTT
TGGGTTTGAATCGATACCCCCTCCCCATCCTTCCACCCCCGCCCGCGCGCGCCACCCAGCTCCCGCCTCCCTGCACGCCCAGGCCCCTCCCCCT

SAGRES DISCOVERY 02-09

CCGTTTTGGCGCCTTTTCCTTCCCGCCAGTCGGCTTAGACCATTCTGACCGCGAGGCGAGAGGCGGGGCCCGCAACGCCTTATGCAAATAGGGC
GTCTTCTGGTTGGCTGAAGCGCGCCCGAGGGCGGGGCCGGGGAGAGGGGTGTAGCCGCGAGGGGCGGAGCGGAGGGGGAGGGCCCTGGTCCCG
CCGCCTCCCCGCCCCCTCTCCGCCCTCCGCGCCGAGCCAGCCCGGCTCCCCACCTCGCTCCCGGAGAGGCCCCGCCCCGTCCCCGCCCGCCGCC
GCCCTCCCCAGCGGCGCGTCCGCCCCTTTACTCCTGGCGGCGGGGCGAGCCGGGCGTCTGCAGCAGCGGCCGTGGCGGCGGAGGAGGCTGGAGG
GGAGTCGGCAGTGCCGGCGGCGGGATCGGCAGTAGCAGCAGCAGCAGCAGTCACAGTCAGCAGCAGCCCTGGGTCCCGCAGCGCCTCTCGCCCT
GCCGCCTCCCGCACTGCCTGACCCAGCCGGCGAACCCGCCCGCGGCCAGCCCCGCCAGCGCCCTCAGTCGTCCTCCGACTCGCCCTCGGCCTTG
CGCGCCAGCCGCAGCCAGAGCCGCAACGCCACCCGCAGTCTGAGTCCCGGCCGTCGCTCAGCCCCAGCTCGCTCCGCCGCCGCTGCTGCTCGTC
CCGGCACCGGCGCCGCACCGACACCCTGGAGGTGGGGATGCTCCTGTCCAAGATCAACTCCCTGGCCCACCTGCGCGCCCGCCCCTGCAACGAC
CTGCACGCCACCAAGCTGGCGCCGGGTGAGTGTCCCCACCCCACCCTGGGCGCGCGGGTCGTTGGGACGCCGGGAGACCCCCGCGTGGGTCGAG
CGCGCTGAGTGTCCCGTGCCTCTTTCCTAGGCAAAGAGAAGGAGCCCCTGGAGTCGCAGTACCAGGTGGGCCCGCTGTTGGGCAGCGGTGGCTT
CGGCTCGGTCTACTCTGGCATCCGCGTCGCCGACAACTTGCCGGTGAGTGGGCAACGCCGCCTCGGGGAGGGCGCGCGGAGGGATGCTTTGAGC
AGGAGGGTCTGATGGAGACTCGGGGGTCTTCTTCCAGGTGGCCATTAAGCACGTGGAGAAGGACCGGATTTCCGATTGGGGAGAACTGGTGAGT
GAGCCGGAGCCAGAGACCCTCTCATGGGTGGGTGGGTGGCGACGGGCGTGCCGGAACCGGCGCGCTAACCCTCGCCCTCACTCTGCAGCCCAAT
GGCACCCGAGTGCCCATGGAAGTGGTCCTGTTGAAGAAGGTGAGCTCGGACTTCTCGGGCGTCATTAGACTTCTGGACTGGTTCGAGAGCCCG
ATAGTTTCGTGCTGATCCTGGAGAGGCCCGAACCGGTGCAAGACCTCTTCGACTTTATCACCGAACGAGGAGCCCTACAGGAGGACCTGGCCCG
AGGATTCTTCTGGCAGGTGCTGGAGGCCGTGCGGCATTGCCACAACTGCGGGGTTCTCCACCGCGACATCAAGGACGAGAACATCTTAATCGAC
CTGAGCCGCGGCGAAATCAAACTCATCGACTTCGGGTCGGGGGCGCTGCTCAAGGACACAGTCTACACGGACTTTGATGGTGAGCCAGGCCCCG
GGGAGGGAGCTGCCCAAGGTGCCGGCCTGGAAGCCTCTGGCGGCCTCGGCTCCGGCCCTTTGTAAAGGTCATTGGGCCGCCTGGCTCAGAGCTG
GCAGGGGTGGGGCAGAGGCGAGCTTCCCGGCATAGTACAGCCGGGGATTTCGAGCTGGTTGAACGAACCTGCAACATTTCTGGCGTGATTGGGG
TTTTGTTGTTGTTGTTGTTTTTGTTGTTGCTGCTGGTGTTTGCTTGTTTTTCTTTTCAGCAGGAATTTATTAAATTCCATGCTTTCCCGGT
GAATAAGAGGTCGTGGGTAGCCGGCTGTAGCCCAGATTTCTAAAGTATGACCCACTTTTCCCTCCAGTAGGAGGTGGAGCCGTTGGTGGCGGGA
GACATTGGTGCTGATTTTTTCTTTTTCTTTTTCTTTTTTTTTTTTTTTTCTTTGTAGTTTTGTTTTGTGGGGGAGTTTTAAGGTAGTTCTTA
GAACTGCAGGGTTTTGTTTTGTTTTGTTTTGCTTTTGAGGGTAAAGGAATAAGAGCCGCGGTTTCACCCCACTTGGGGGTGTTGTGGGGTGAGG
AGGCCTGGAATGAATGTTGTGAAATAAGATCTGTTGCTGGTTTGAAAATTAGTTGGGAGTCTCCGCTGGGAGGATGAAAACCTATCTACCATAG
GGAGGGGCTTGGATCGCGTTCTTTCAGCAGTGGAGGGCAGGAATAGTAGATCAAAGCGCGAGGGTGGGTCACGATCCGAGTGGCTCACCCGGAC
AAACTATGGCCTTTCAAAACTTGTGACTCTGGCTTGTGGTTTGAATTTCTTTGGAGGATGCCGGGCTGGGCTGCGTTTTTTGTATTTAACAGTT
AATGGCTGGCTGAGTCCTCCCCTGTGTTTTCCCCCCCTGGGCAAGTCTTTGCTGCCCCCTGTTGAGCACCACGAGGCTAGCACCTTTTTTTTTT
TTTTTTTTTTTTTACTCCCCAAAGTTTGTAAACAGGAATCACGTGGTCTGAAACCAGCCCTGCAACTGTACCTTTCCAGTCTAGGGAGTGGGAGA
GTGCAGTGTCTATGCCTTGCTTGCATAGAACCCGGAGGAAAGCACACCCTGAGTTAGTTGTGTATAAAGGCCCTTACCTGGGCCCGGTCTAGAT
GAGACTGGTGTGGCAGGGCCTGGGGTCCTTGTAGTTAAAGGCTAACCCACTGAGTGGCCTCTAGACTTGAGCTTTTCGGTGGCTTTATTTGTCT
TTGGGCCGATGTGTAAGGGATTTGGGTTTAGGGTTTTTGGGCTCCCAGAGAGCTACCATATCATTTCTTCATTTTCTGTCTGGACCAGAGAGGC
AGAGATGGAGAGAAAAAAAAATATGGTTGTTTTAAAGTCAAATCTGCCTGTCTGCCTCCTGAGAGCTGGGATTAAAGGCATGTGCCACCAAACC
CGAGCCAGGCAGTGTCTTTATTAAAAAATATTTGAAAACCTAGTGGAGGTGGTGGTTCTTGCTTTTAATCCAGCCCTTGGGAGGTAGAGGTAGG
CAGATCTCCGAGTTCAAGGCCAGCCTGGCCTACAGAGTCACTTCCAGAGCTACACAGAGAAACTTTGGAGGAGAAAAAAAAAATTAAAAGAAGC
GGCTCAGACTAGCTGCTTTGTTAACTTTTTTTTTGCTAATGCTGGTTTCTTTCTATCCCTCTGCTGGTAGGGACCCGAGTGTACAGTCCTCCA
GAGTGGATTCGCTACCATCGCTACCACGGCAGGTCGGCAGCTGTCTGGTCCCTTGGGATCCTGCTCTATGACATGGTCTGCGGAGATATTCCGT
TTGAGCACGATGAAGAGATCATCAAGGGCCAAGTGTTCTTCAGGCAAACTGTCTCTTCAGGTAACTTCCCTCAGACACCCCCAATCCTTCCCAA
ACCCTGGTTCAGGGTTGGTTTGGGGATTACAAGAGTGAGAGAGTATTCCTATCCACCTTTTTATTTTTATTTATTCATTTTCTTTGGGGGAGAG
TAAGGCCTTAGCCTGCCTCTGACCCCCAACTGCTGGGACTCAAGAGATGGTGGGTTTTCACTGGGTCAGAGTACTCCATTTGGGCTCAAATTGG
AACAAGTTTTATATACATCCCACCCCAACCCCCAGACCCTGTAAAATCTAAGTACCAGCAGAGACCCAGTCTCTAAACAAAGTTTAAAAAAAAA
AAAAAAAAATGAAGGTTCCGGATAGTGTCAGTGGAAGGCGTGAGGTAGGTAGGTGAATTGAATCACCTCATCTTGCTCACTGGTGGCTCATCAA
AACCCTTGTCATCCTTCCTATTTCTAGTGAGTGGGTGTCATGGGAAAGGCCCGAGCTATTGAAGTCTGAAACCACAGGTTTAAGAGGGGAGGCA
CTTTTTTAACTGAAAGCTGATTGCTGGAGGCTTTCGGTATCCGTTCTTTCCCACCGGGCAGTGTTTGGTATAAAAAGTACCGTGCCTCTTTAAA
AACCCCAGACTTTGTAGGTCTGGGGAAGAAGACCTTTGCATTACAAAAACAAGTTGAGTCATCTTTAACCTCTGTCTGCCCCGCCTTCTGCAGA
GTGTCAGCACCTTATTAAATGGTGCCTGTCCCTGAGACCGTCAGATCGGCCCTCCTTTGAAGAAATCCGGAACCATCCGTGGATGCAGGGTGAC
CTCCTGCCCCAGGCAGCTTCTGAGATCCATCTGCACAGTCTGTCACCGGGATCCAGCAAGTAGCAGCCTTTCTGCTGCTGTCTGTCAGACCCTC
CAGGGAGGGAGAGCTTGTCTTCTGGCCTCCAACAGGACCCTGCGTGACGATGCAGGGACAGCAATGACAACTCATTCCAGACTCCAGGTCCCTG
GAGGAGCCTCCCACAAGGGAAAGAGACTACTTCACTGGTCCTGGGCCCCTCTTTGCGCGCCCCGCCCCCAGACTCAGCGTCTAGTGTTGCTGGG
CTCCCCTGAATCCATCCCTGGTTGGGGGTGGGAGTGGATCAGAGCCCTGTCGATGGAACTTTAGTCACCATGGAGACTGGGTCACCAAGATGGG
CCGGGGGGGAGAGGAAAACAGTCTGGGGGGTGGGATAAAAACTAGCACCATATTTAAGTCCCTGTCACCTCTTCCAACTCCTGAGTGCCTTCTG
TGGGGACTCCGCCTGTGCTGGGAGAAATACTTGAACTTTACCTCTTACCTGCTGCTTCTCAAACTCTGCCTGGGTTTTGCTTCCTTCCTCTCCT
CTCCTTTCCCATCCCCCACTTCCTATGAAAGGTGCCATGGGAGAGGCTACAGGGCCAACTGCTGAGCCACCTGCCCCTTTTCTGTCTCCTTTAG
TAAAATTCCCAAGCAAACTGGTCTTCCTCTTTGGTTTCGACTTAACTGTTTCAAAACCAAGACCTCACACAGAACGCACAACCAATGCAAAACA
AAAAACAAAAAAAACAAAAAAAAAACCAGACAAGCTGTAAATGTGTGTATAGTTCCGGCATGGTAGCCTGCAAAAGGACTGTAGATGATAACAA
TTTTAAAGAAGAAAAAAAAATGCCTTTAAGTTATTTTATGTGTTGGGGGTTTGGTTTGGTTTTTTGTTTTTGTTTTTTTTTTCTTTTTTATTC
TTTTTTGCTTGTTTTTGAAAGATGGCACGTTCTAGCCCGGAAGTTTTAATGTATTTATTTATTTATTTATTTGGTTGCCTTCCTGTCCAAGCTT
CCACTGACTGTTGCCCCCGGTTTATTGTCATGTTCTGCCTTTTTTTTTTCTTTCCTTCCTCCTGACTTGGGGACCTTTTAGGGGAGGGCTGTGA
CGCTTGCTGGGGTGTTGGGGCTCCGGTGGGACAGCTGCTGTAGCCCCCTTCTCCAGGGGCCCCCTTGGCTGCTTGCTGGAGTGGGTCTAGGGTC
TGCTGACTGTACATAAGACAGTTCCGGTGTGGTGTGCCTTCCGGATCCTCTCTGGGGCTGTGCTTTGAGCAGCGTGCAGCCCGCTGGTTTTATC
TGAGTAAAGTATACTGTACAGGGGAATAAAAGAGATCTTATTTTTTTTTTTTATACTTGGCATTTTTTGAATAAAAACCTTTTGTCTTAAACCT
TTGAGTTTTCCATTCATTCATACAAAGATGTATGCTTGGTACAGAGCCAGGTAGACTGGGCACTTTCAGACTAGATCTGATTTCCTGCTGGGGC
ACAGAGAAGTACCAGGCTTTCTGAACAAACCATGCTGGATAAAACCCAGGCCTTCCGTGCCCACTCTACCAAGGAAACTCCCTGACTATGACCA
ATTCCCTTTAACAAAAGTTTAGGGATTGTCACCTTTTCAAAGCAGGTGCAACCAAATTACAGCACCAGGAACATGGGGACAAGACTTGGCTAGG
ACTAAATTTTTCTGACGTGTCATGTCAGAGCTAGCATCGAACATTTGAGTTCCATCAGACAATGTGGTTGCAGGAATTACTACAGGTAGCATTT
GATTTGGTTTTTGTTTTAAAGATTTTATGTATGTGAGTACACTGTAGCTGTCATCAGAACAGGGCATCAGGTCCCATCACAGATGGCTGTGAGC
CACCATGGGGTTGCTGGGAATTGAACTCAGGACCTCTGGAAGAAGCAGTCAGTGCTCTTAACCATTGAGCCATCTCTCCAGCACCCTGGTCTTG
GTACCTCATAGCAGGGTTCTCTTGAGCTCTAGCTGTACTAGGGCTGTAGATGAGGCTGGCTTCAGCTCAGACCTACCGCCCGGCTTGGTGAGTG
ACCAGAAGCCTAGTGTTTTTGACACAAGGTTTGAAGTCTGTGTAGCCTTGGAACTTGATATGTATAGACCAGGCTGGCCTGAAACTCCTGGATC
TGCCTGCCTTTGCCTCCTAAGTGCTGGGATTAAGGGCATGTATAGTTCCACTGGAAAAGATTTGGGAGCCACGAGTCCTAGCATCTTCCTAGCA
GAGTGGTGTAATCCTATAATCCCAGCACTTGGGAACTAAGAGGATGAGAGTCAGGAGTTCAAGGTCAGTCTCAGTCTGGGATACTCGTGACTGG
TCTAATCAGCTGGAAAGATGCACTCTGGTAGACAGGACCAAAGGAATTC

MOUSE SEQUENCE - CODING

SAGRES DISCOVERY 02-09

ATGCTCCTGTCCAAGATCAACTCCCTGGCCCACCTGCGCGCCCGCCCCTGCAACGACCTGCACGCCACCAAGCTGGCGCCGGGCAAAGAGAAGG
AGCCCCTGGAGTCGCAGTACCAGGTGGGCCCGCTGTTGGGCAGCGGTGGCTTCGGCTCGGTCTACTCTGGCATCCGCGTCGCCGACAACTTGCC
GGTGGCCATTAAGCACGTGGAGAAGGACCGGATTTCCGATTGGGGAGAACTGCCCAATGGCACCCGAGTGCCCATGGAAGTGGTCCTGTTGAAG
AAGGTGAGCTCGGACTTCTCGGGCGTCATTAGACTTCTGGACTGGTTCGAGAGGCCCGATAGTTTCGTGCTGATCCTGGAGAGGCCCGAACCGG
TGCAAGACCTCTTCGACTTTATCACCGAACGAGGAGCCCTACAGGAGGACCTGGCCCGAGGATTCTTCTGGCAGGTGCTGGAGGCCGTGCGGCA
TTGCCACAACTGCGGGGTTCTCCACCGCGACATCAAGGACGAGAACATCTTAATCGACCTGAGCCGCGGCGAAATCAAACTCATCGACTTCGGG
TCGGGGGCGCTGCTCAAGGACACAGTCTACACGGACTTTGATGGGACCCGAGTGTACAGTCCTCCAGAGTGGATTCGCTACCATCGCTACCACG
GCAGGTCGGCAGCTGTCTGGTCCCTTGGGATCCTGCTCTATGACATGGTCTGCGGAGATATTCCGTTTGAGCACGATGAAGAGATCATCAAGGG
CCAAGTGTTCTTCAGGCAAACTGTCTCTTCAGAGTGTCAGCACCTTATTAAATGGTGCCTGTCCCTGAGACCGTCAGATCGGCCCTCCTTTGAA
GAAATCCGGAACCATCCGTGGATGCAGGGTGACCTCCTGCCCCAGGCAGCTTCTGAGATCCATCTGCACAGTCTGTCACCGGGATCCAGCAAGT
AG

HUMAN SEQUENCE - GENOMIC
GGCTAATTTTGTATTTTTAGTAGAGATGGGGTTTCTCCACATTGGTCAGGCTGGTCTCGATCTCCCGACCTCAGATGATCTGCCCGCCTCGGCC
TCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGTGCCTTGCCAACCCGTCTCTTTAAAAAAAATTTTTTTTACGGCCAGGCACGGTGGCTCA
CGCCTGTAATCCCAGCACTTTGGAAGGCCGAAGCAAGTGGATCACTTGAGGTCAGGCGTTCGAGGCCAGCCTGGCCAACGTGGTGAAACCCTGT
CTCTACTAAAAATACAAAAATTAGCCAGGTGTGGTGGTATGCGCCTGTAATCTCAGCTACTCGGGAGGCTGAGGCAGAAGAATTGCTTGAACCA
GGGAGGCGGGGGTTGCAGTGAGCCAAGATCATGCCATTGCACTCCAGCCTGGGCGACAGAGAAGACTCCATCTGAAAAAAAAAATTTTTTTTTT
TTACAATATGATCTCTGCACTTGAAGAGCTGATGGTCTCATTGGGGAAACATGAGTCCTTTCAAAGTGGGTATTAAATTAATGCTTGCTGCTCC
TTAAAATGATGCTATAATGACAGTAACTACTTAGATAACAAAAGAATATGATTGTATCAGATTAGTATTACAAGTAACTGCTGTGAGTTTAAAA
ACTATTGGCTGGAGTGGTCAGGGAAAGCTGTAAGAAGTCCAAATGGCCTTCAGTTGGTCTGAAAGGACAGACAGAATTTGGGGATGTGTGTGCA
ATTTGGGTTAAAGAATGTAATCTGTGTTGTCTTTAAGCCCTGCATCAGAGGACCAGCTATTTGCCAACATAACTCCCATTTACAAGAGTAACTT
CAGATAAAACCCTGATGACTGCCAAGTCTGACTTTCTCATCTAGTGAGTGGGTGTCTCTCTAATAAAGTAGCATCACTGAACACAGAAGCAAGC
TTAACCTATCCAGGGAAAAGTGACACCATTTCTATAAAGGGAACAGCACAGCTCCCTAGTTCTCCAGAGTGAGCAAGATTGTATTTAGACATGC
AAAGAATCTCTGACAAAGTAATACATTGAAGGCCATAAAAAACAGCTCTGTATCTGTAGTATAGTTGTTCTAGTTCTGGCTGTGGTGAGCTGTC
ATGTTTGTTTTAGCAGCATGCCACCTAAAAAGAGAAGTAAAACAGAGTTGGAAAAGAGGAAGTATATGTTGAAAATGTAAGTTTCTCCAAATTA
TTGAGTAGATTTCGTCCAATAATGTTACTACATGTCTTTTTTATCATTTGGAACTTGGAACACTCTGTGTATTAACCACGATATAAGCAAATAT
TCCTAAACTATAAGCTTCAAAGGATTATTTGAATAGAGAATCTTCCTAGTTTCTTCTTCAGTAGACTGAAATAGCCAGGCACAGTGGCTGACGC
CTGTAATCCCAGCACTTTTGGAGGCCGAGGTGGGCAGATCACGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATAGTGAAACCCTGTCTCTA
CTAAAATCACAAAAAGTAGCTGGGCATGGTGGCGCGTGCCTGTAGTCCCAGCAACTGGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGAGAG
GTGGAGGTTGTGGTGAGCCGTGATCGTGCCACTGCACTCCAGCCTGGGCAACAGAGGGAGACTCTGTCTCAAAAAAAAAAAAAAAAGACTGAAA
TAAAATATCTGTCATCTTTTGCAACATGACATCAGGAGCTCCTACTAATTCTCTCTGGCTTCTTGCTTTTGATTTAAAAACTTTTGAGGCCGGG
AGCGGTGGCTCACGCCTGTAATCCCAGCATTTTGGGAGGCTGAGGTGGGTGGATCACAAAGTGAGGAGTTCAAGACCAGCCTGGCCAAGATGGT
GAAACCCTGTCTCTACCAAAAATACAACAATTAGCTGGGTGTGGTGGTGCACACCTGTAATCCCAGCTACTCGGGAGGCTGAAGCAGAAGAATC
GCTTGAACCCATGAGGCAGATGTTGCAGTGAGCCGAGATCGCGCCACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCCGTCTCAAAAAAAAA
AAAAAAAAAAAAGAAACTTTTATTCATTCATTTCATGCGTATTGGGGAATACAAAAAAACAACACAAAGCATCTTTTGCTTCACTTCCTGACTC
TACTCACCGTGTTCTCTCTCTCCTTCCTACTTACTCGTATTTTACTCATTAAGACCTGAGTTAAGATCTACATCCTCCATGGAGCCTCCCCGGA
CCTCTTCAGCCTCCTCTGAACCTTGACTTTGTGGATGATGCTATCAGAACTTAATCACAGAAGCACTTGTTAAATCTCTTTTTTTGTTTGTATG
TTAGAGACAGGGTCTGACTCTGTCGCCCTGGTTGGAGTGTAGTGGCACGATCAAGGCTCACAGCAACCTCTGCTACCTGGGCTCAAGCAGATCC
TCCTCCCGAGCTCAGCCTCCCGAGCAGCTGGGACTACAGGTATATGCCATCACATCCAGCTAATTTTTGTATTTTTTGTAGAGACGGGGTTTCA
CCATATTGGCCCACCTGGTCTTTAACTCCTGGGCTCAAGTGATCCACCAGCCTCAGCCTCCCAAAGTGCTGGGATTACAGTCATGAGCCACTGT
GCCCGGCCGTTAAATCTCTTAAACTCATTTTGTGTTCCTTGGAAAGGCAGAATGGCATGGTGGGTAGGAGATTGCTCTGCCACTTAACAGTGTA
GCCTTGGGCAAATTACTTATCTCTGTTCCGTTTATTTATCTGTAAACCAATGAAGATAGTAAAAATGCCCACCTCATAGGATTTATATGGGGAT
ATAAATAGAACAATGCCTAGCACATCATTGATGCTCAATATTGGCTTTTAGTACCCTATCTCTTTTGCCCCTCCCGCCAATGATTTTCATTTCT
TAGCCTTTATGTTCAATTAAAGGATGATGGTTTCTGCCTTCAATATATTTATAGTCTAGTTGTAGAGATGAGACAAATACAGAAAAATAAGACT
ATATACTATTAGATGACAAATTAGATACACAATAAAGAAATGTTTTCATCACTTTCTTTGTAGTGCTTACAAGGATGTTCCATGAAATCTTTTT
TGCACTTTTTTTATTTTACCTTGATGAACTTTGTGGCTTTTCCAAAGTCTTACATCAGCAATTTTATTTTACTTTTAAAAGATGGTAGACAATC
CCCTCACCAGCTCCTAGATAGAAGACATTCTCTCTCTCTCCCTCACACACACACACACACACACACACACACACACACGCACAGACACGATGGC
CCTTTTCTTTGTTAGTTAGACATGCAGCGTTTTTGTTCATGTGTCTGCCTGGTTGTTCTGATCTGAGGGATACATTTTCTTAGTCTTCTAATAA
GGTATTTTATAACAGTCTCCAGGCTTCCTGTAGCCTTTATATGTTCTAAGCTACTCCTTTTTATATTCATCTATCCAGCAATACTCAGGAACTA
TAAAATCTTTGTGTATAATGCCTTCAGTAAATATTATTTTTACTCAAATTGTCAGTATCTAATGTGCAAAATTCCAAAAATAAATCTAGATTAC
TTTTATTTCCTCTGAAAAACAAAACAAATGAATTGGTAATAATTTAAATATACTTTATTGTAAAATAGCCCTTTCTTTTCCCAACCTTGCTGGC
TAAAATAGATTTATAAAACTGAAATAGGCCAGGCGCAGTGGCTCATGCCTGTGATCCCAGAACTTTGGGAGGCCGAGGCGAGCGGATCACGAGG
TCAAGAGATCGAGACCATCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCTGGGCGTGGTGGCGCATGCCTGCAGT
CCCAGCTACTCCGGAGGCTGAGGCAGGAAATCCCTTGAGCCCAGGGGCCAGAGGTTGCAGTGAGCTGAGATCGCACAACCGCACTCCAGCCTG
GCGATAGAGACTCCGTCTTAAAAAAAAAATGAAATAAATATCATATCCTTATCAAGGACAAGAACTAGCTAGGCATGGTGCCTCACACCTGTAA
TCCCAGCACTTTGGGAGGCCAAGGCGGATGGATCACGAGGTCAGGAGCTCGACACCATCCTGGCTAACACGGTGAAACCCTGTCTCTACTAAAA
ATACAAAAAATTGGCTGGGCTTGGTGACACACGCCTATAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCGGGAGGTGGA
CGTTGCAGTGAGCCGAGATCGCACCACTACACTCCAGCTTGGGCGATAGGGTGAGACTCTGTCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAG
GCCAAGAACTAGTTCTAGTGACTACATAGATTCCTTGATCATTCTGAAATTGGGACATGGTGGATTTCCTAAGTGTCTCCCACTATCACAATGA
TTTCAATTTAAAAAGGTTTTCAGCTGGGTTTAGTGGCTTATGCCTGTAATACCAGCATTTTCGGCCGGGCGCGGCGGTTCACGCCTGTAATCTC
TGTAATCTCAGCACTTTGGAGGCCTAGGCGGGTGAATCACCTGAGGTCAGGAGTTTGAGGGCAGCCTGACCAACATGGTGAAACCCGTCTATA
CTAAAAATACAAAAATTAGCCGGGTGTGGCGGCAGGCTCCAGTAATCCCAGCTACTCTGGAGGCTAAGGCAGGGAGAATGGCTTGCATCCGGGA
GGCAGAGGTTGCAGTGAGCCAAGATTGCGCCACTGCACTCCAGCCTGGTAGACAGAGCAAGACTCCATCTCAGACAACAACAACAACAAAAGAA
ACGCATTTTGGGAGGCCAAGACTGATGGATCACTTGAACCCAGGAGTTTGGGACCAGCCTTGGCAAAATGGTAAACCTCATCTCTACAAAAAAT
GTGAAAATTATCGGCCGGGTGCGGTGGCTCAGGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGTCAGGAGATCGAGA
CCATCCTGGCTAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCTGGGCGTGGTGGTGGGCGCCTGTAGTCCCAGCTACTCGG
GAGGCCGAGGCAGGAGAATGGCGTGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATCACTCCACTGCACTCCAGCCTCGGTAGCAGAGCGA
AACCCCGTCACACACACAAAAAAAGAACAAGTGAAAATTAGCCCGGGCGTGGTGGCTCACCCCTGTAATTCCAGCTAGGTGGGAGGCTCAGGCAG
CAGGATCGCTTGGGCGCAGGTCTAGGCTGCAGTGCGCCGTGATCCATTGTGCCACTGCACTCCGGACCCTCGGTGACCAGAGTGAGACTTTGTC
TCAAAAATAAATAAATAAAAATTAAAACAAAAAAAGAAATATTCAGTTTTTGTTTTGTAAAGACAGGGTTTCCCTATGTTGCCCAGGCTGCTCT
CCTGAGCTCAAGCAATCCGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCATGCCTGGTCTTTTTAAATTTAGAATGTT
TCCTGTCTGGCCAGGCGCGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCCGCCGGATCACTTGAGGTCAGGAGTTTGAGACC

AGCCTGGCCAACCTGATGAAACCCGTCTCTACTAAAAATACAAAAATTAGTCGGGTGTTGTGGCGGACGCCTGTAATCCCAGCTACTTGGGAGG
CTGAGGCAGGAGAATCGCTTGAACCCGGGAAGGGGAGGCTGCAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGGCGAGAGTGGGACTCT
GTCTCAAAAACAAATAAACTAAATAAAATAAATAAAAAACTGAGTAAATTTTTTTTAGGAGATAAATGAGTGATGCAGATTCAATACGTCTCTA
CCTGATTAATTATAAATAGCGTATAGAGTCTTAGTTATACAATCCTAGTTATATAAATGCATTGACTAGACTTACAGACACTTTAAAAAATTGT
GTACCGATATCACTTTCAAACTTTCTTCTAAACTTGTTTTTTAAAAAAATTTCGTGACTACAGAACTTGCTGAAGTCATTGTTTTTTTTGTTTTT
TTTTTTTGCATAAGCATATAGTCCCTGGATGAAGTCATTCCTTTGACAATGACTTGATTAAACCCATATCAGGCAGAATATGAAAACCACCTAA
GGATTAATTTGGATATTGTTCAAATTAATATTAATAAATGCTCCTCTTCCCAGAGAACTGTTAGCATAATTGTGGCCTTTTATCCTTCCAAAAG
CACTTGTCATTTAATTATTAGGGTGATTTTTCTGATTCTTTGTTAGATTCTTTGAGATAGCACAAATAGTGCTAATTTTATTAAGACTATATTT
CGATAAATCAAAACATCAAGTTCCCTACTCTCGAGGAGTAACTTTTGACCCACAACACATCTGAATGTTTACTAATTATCTTTTAAAGCAGTTT
TAAGTAAATCAAAGCTGTTTGCCAAGCAAGGTCCATGTTTTGTAACTTCCAGCTGTGAAGCCCCCACTATACAAAGTAGATATATTAAATGTTA
ATCACTTTAGCTCTAATTAAATATTTAGTCCTTCAAAGACCTAGAAAAAGTGAAAAAGGTTGAAGTTGATACATATTTTTTTTCTAAAAGGCC
TAAAAGATCTACTAGAAACAACTATTTTAAATCACATCTCTCCCCAAATGGTTAAAAATCGAACTATTAATCCAGTAGTTTACCTTTGGTACCT
TCTAGGTGTAAGACCGTTTGGGCTGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTCTGGGAGGCCAAGGCAGGTGGATCACAAGGTCAGGA
GATCGGGACCACCATGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATATAAAAAATTAGCCAGGCGTGGTGGCAGGCGCCTGTAGTCCCAG
CTACTCGGGAGGCTGAGGCAGGAGAATGGCGTGAACCTGGGAGGCAGAGCTTGCAGTGAGCCAAGATTGCGCCACTGTACTCCAGCCTGGGAGA
CAGAGCGAGACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAAAGGCCGTTTTAAAAAACATCATCATCATAACCACGATCAACATTATTGCCATC
ATCATTGCTAATATTTATTAGAAGTTTACTCTGTACTGGGTTATATGCTTTACAAACAAGAGTTTTATTTGCTCCTTACAACAACCCTATGAGG
TAGATGCTGTTATTATCTCCATTCTGTCTAAAGCTTAATAAGGTTAAGTAACTTGACCAATGCCTAACTAGTAGCTGCCAGATCCCGGAATTGA
AACCAGGCTAACTTAGTTTAAAGCCCTTGCTCCCAACTTTTATGTTCCCGAAGCCCACTTAATTCATTTAAATTTGGTATAAATTGACTTTAAT
TATGGCCTTTTTGTTAGAATCCATTATAGTCTTCTCTTTTATCAACAAATGTTGGATAAAGTATGCATTCAGGGAGGCTGGGCATGGTGGCTCA
CACCTGTAATCCAAGGAGGCTGGGCATGGTGGTTCACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGCGGATCATAAGGTCAGGAGTT
CGAGACCAGCCTGGCCAACATGGTGAAACTCCGTCTCTACTAAAAATACAAAAATTAGCTGGGCATGGTGGCGGGCGCTTGTAATCCCAGCTAC
TTGGGAGGCTGAGGCAGGAGAACCAATTGTTTGAACCCGGGAGATGGAGGTTGCAGTGAGCCGAGATAGTGCCATTGCACTCTAGCCTGGGTAA
CAGGGCGAGATTCCGTCTCAAAAAAAAAAAAAAAAAAAAGGGCATTCAAGGAATAGGAAGACAAAGTATAATGGAAAAGTAAATGAACAAAAAGGA
TTTAAAAAAACAAATCCCAACTGTCAGATTAGTGGACAGTGAACCAATGCTCTGAGTTTGTTCATCAATCTGTGGTAGAACTACAATTGTTTCC
TAAAGAGTGGAAAGGCTTTGAATAAAAGTGGAGAGGTAGAGAGGGCTCTCCCAGGACAGGTTGATTGCTTCCGCAAAGGCAAAGGGTCTGTAAA
GTGCTAGGCGAGTGGGAACAAGTGGGAATAGTTCTGTTTGACTACATTTGAGGGTTTGAGAAAGGAAAGGGAGGGTAGAAGGGATGGAAGTGGG
AATCACATATGTTTAATGATGTCTTGTTCGGTGCCAAGGACAGTTTTAGACCCTGATAAGCGGAAAGCTTTGAATACTCAGGAGGTGAATTTGG
GTCATTTCATCTCCTCTCTTAGCTGCTGTATGACCCTGTGCCATCCTATTTATGTTTCATTTTCCTATCTGCAAAAAGGGAGTAATTCTTGTTC
CCTTGGGTTTTCTCCTAGTCATAAAAAATGAATGAGTTCGGCCACAGTACACAAACAAAAGGAAAATATGTAATATTTTGTAGGATAAATTCAT
AAAAGTTGTGGAGGATCTGGGCACTTTTATAAAGCAAGCACTGTAGAAAACTTTCAAAGGAAACATTTAAATTCACTAATGACAGCTATAGGGA
TCCTGATTTTTCCTTTAAATGGCAGGCACTTCAAAAAATTAAAATAGAATGTAGTTAGCTTTCAATTACTTAGGCCACTGACAATTCAATTTAT
GGATTATATAGTATTTTAATTTACTCATTTCACACGTCGTTATCAACTCTACATGAAGTTTAAAAGGACAAAGGATGCAAGTGGAATTGGTCAG
TGTTCCGGGTTATTTCCAAGGGAGGCAGAGGGTGGGGGGTTTCCTTTGAGACAAGACTTGGGGTTGGCCAATAATTGCTGGTATTGCCTGCCTG
GTAATAACAGGCTGATGAAAAGGTGACTACAACGTGAAAACTGGTTAAATCAAGCGCACCCTCCCACCCTCGTTTTAGATGAGGAATTTTCCGC
CCTCACAGAAGGGGCTGAGGCAGCATCTGGCATCACAACACTAACATTTGCTTCGTGATTTCCTCTTTACCCGGCCCTTTGACACACATCCCTT
CCCAGAAATCAGGATTCGCTGGTGCTTTTGCATTTCTAAAATGGGAATCCCGTGGCTGAGCTTTTAGCCGGCCGGAACGACTGAGGGCTGCATC
CCTTTCCCGCAGGAGCGGGGCTCCCGCCTCCAGTTCTGTTCCAGGCCTGACTCCTCCACTCCCTCCGTGACTCATGTCCTGCGGATCCTTCGCC
CCCGACGCGCCCCCCAACACACAAACCCCCAGAATCCGCCCCCAGCCTACAGCGCGACGTCAGCCCGCCCCAGCCGACTTGGAGGTCTCGGGTC
TGAGTCACACAGAAAGACCACCCTCGTCGGCATCCCCACACACAGTCCGACACCCGGCGCGCCGGCCTCCCCGCCTGACACACTAACGCCCGTC
GTCTCCGCGCAACTTGTTATGCTCCGGCTCGAGCCCTTGACCCAAAAACCTCAGCGAAACGGAGAGCCGCAGAGCCGGCCTCGGGCGGCCTTTG
ATGGCTTTGTTATTGTTTGGGTTTGAATCGATACGCCCCTCCCCATCCTTCCTCCCTCGCGGCCCTACACCCAGCTCCCGCCTCCCCTCACGCC
CCGCGCCCCTCCCCCTCCATTTTGGCGCCTTTTCCTTCCCGCCACGTCGTGGCGGCGTAGAGACCATTCTGACCGCGAGAGCTGGGCGGGGCGG
GGGCGGGGCGCGCCGAGTTATGCAGATCAATCGGCCTCTGGTTGGCTGGAGTAGCGCTGGCAGGGGCGGGGCCGGGGCGCGGCCACAGAGCGCG
CGGGGCGGGGGCCGAGGGGAGTCGCCCAGTCCCGCCGCTTCCCCACCCCCTCTCCTCCCTCGGCCGGCCCGGCAGCCCTGCTCCCCGCCTTGGC
CTCCCGGAGAGGCCCCGCCCCGTCCCCGCCCGCCGCGCCCTCCCCGCGCGCCCTCCCCGCCGGCGCGCTCCTCCCCTTTACTCCTGGCTGCGGG
GCGAGCCGGGCGTCTGCTGCAGCGGCCGCGGTGGCTGAGGAGGCCCGAGAGGAGTCGGTGGCAGCGGCGGCGGCGGGACCGGCAGCAGCAGCAG
CAGCAGCAGCAGCAACCACTAGCCTCCTGCCCCGCGGCGCTGCCGCACGAGCCCCACGAGCCGCTCACCCCGCCGTTCTCAGCGCTGCCCGACC
CCGCTGGCGCGCCCTCCCGCCGCCAGTCCCGGCAGCGCCCTCAGTTGTCCTCCGACTCGCCCTCGGCCTTCCGCGCCAGCCGCAGCCACAGCCG
CAACGCCACCCGCAGCCACAGCCACAGCCACAGCCCCAGGCATAGCCTTCGGCACAGCCCCGGCTCCGGCTCCTGCGGCAGCTCCTCTGGGCAC
CGTCCCTGCGCCGACATCCTGGAGGTTGGGATGCTCTTGTCCAAAATCAACTCGCTTGCCCACCTGCGCGCCGCGCCCTGCAACGACCTGCACG
CCACCAAGCTGGCGCCCGGTGAGAGCACCCCCCGCCTCCGGCCCGGGGATGCGGGGCGGCGGCAGGATCTCCTGGGTGGGGAGCTGGCGGCTCG
CGGGCCGGCACTGAGTCCCCGTGCTTCCCCCTTTCCTAGGCAAGGAGAAGGAGCCCCTGGAGTCGCAGTACCAGGTGGGCCCGCTACTGGGCAG
CGGCGGCTTCGGCTCGGTCTACTCAGGCATCCGCGTCTCCGACAACTTGCCGGTGAGTGGGCGCCCCGCGGTGGGGAGGGCGCGCCGGGCGGGG
GGCGCACGGGCGTGCTTTAGCCCGGACGAGGGAACCTGACGGAGACCCTGGGCTTCCAGGTGGCCATCAAACACGTGGAGAAGGACCGGATTTC
CGACTGGGGAGAGCTGGTGAGTGCCCTGCAGGAGCGACCCCCAGGATGAGTGGGTGGGGTGAGGGGCGCCCCCGACTCCCGCCCTAACGCGGCC
CCCTCGCCCCTGCAGCCTAATGGCACTCGAGTGCCCATGGAAGTGGTCCTGCTGAAGAAGGTGAGCTCGGGTTTCTCCGGCGTCATTAGGCTCC
TGGACTGGTTCGAGAGGCCCGACAGTTTCGTCCTGATCCTGGAGAGGCCCGAGCCGGTGCAAGATCTCTTCGACTTCATCACGGAAAGGGGAGC
CCTGCAAGAGGAGCTGGCCCGCAGCTTCTTCTGGCAGGTGCTGGAGGCCGTGCGCACTGCCACAACTGCGGGGTGCTCCACCGCGACATCAAG
GACGAAAACATCCTTATCGACCTCAATCGCGGCGAGCTCAAGCTCATCGACTTCGGGTCGGGGGCGCTGCTCAAGGACACCGTCTACACGGACT
TCGATGGTGAGCCAGGCCCGGGAGGGAGCTGCCCAGGTGACTCGGCCCGGCCCGGCCCAGTCCGGAGGCCTCGGCCAGTCTCCCGCGCCAGCCT
TTTGTAAAGGTCATTGGGCCGCCTGGCTCGATGCTAGCCGGGGTGGGACGCAGGAGAGCCTCCCAGCGTAGTAAAGCCGGGGATTTTCAGCCAG
CTGAACCTGTAATGTTTCTGGCATGATTTATTCTTCAAGTGGAATTCAGTTAGTTCCAGGCTTTCCCGATGAATAAGAGGTTGTGGGCAACCG
GCGGTAGCCCAGATTTTTCTAAAGTCTGACCCAGTTTCCCCGCCAGTAAAAGGATGGGGGCGGGGGAAGAGGTGGAAATTGATGCCGGTTTTGT
AATTTTGTTTTATTTTATAAGGGAGTTAGTTTTCTGTATGGTAGTTTTAGAGCTGCAGTTCTTAACTCCTTTCTGATCTAGGGAAGGTTAAGG
AATAGGAACTATATTATTACTGGTGGCTTTTTTTTTTCTTTAGTGTTAAGGGGAGAGAGAGTCCAGGAATGAATGTTGTGAAATAAGATCTGTCG
CTGGTTTGAAAATTAGTTGGGTGTCTCCGCAGAGAGGATGAAAACCTATCCTAGGGAGGGGCTTGGAGCGGGTTCTTTCAGAAAAGAAGGAATG
GAGAGCCTGAGATCAAAGCTGCGGAGGGTGGGTCATCATCTGAGCGGCTTAACCTAACAAACGACAGCCTTTCAAAACTTGTGACTCGGGCTTG
TGGTTTATGTTTATTTGCCCTTGGAGGACGCTGGGTTGGGCTGCATTTTTTGTATTTAACAGTTAATGGCTGGCCGGGTCCTCCCATGTTTTTT
CTTTCAAGTCTTTGCTGCCCCCTGGTGAGCACCAGCGGCATGGCCCCTCCTTTTTCTTTTACTACCCAAAGTTTGTAAACAGGAATCACGTGGT
CTGAAACCAACCCTGCAGCTCTGTCTACCTTTCCAGTCTAGGGAGGAAAGGGTGTGGGTGTCTGCTCCTGCTTGCATCGGGTGGGGAGGAAGGC
CTCCCAAAGGGCACCCTGACTTAGGATGTTGTGCAAGCATCCTTGCTTGGATCCTGTCGGCCATGAGAATCTCACCCGGGCTCCTGGGCAGTGG
TGAATGCAATTTAAGGATAGTCTATGAGATACCTTTCTTGGTTGTGCAGACATGCATCCCTTCATCCTTCGCAGGCGGTCCTGCCTCACAGGGC

SAGRES DISCOVERY 02-09

CTCAAGTTTTGGGTCTGCGGCCAGCTGTGTTTGTTTCTTGGAGCAGTTCATAAAGAATTTCAGTTTATGGTTTGGGCTAGCAGAGAGGTGGGTA
ATGCTTTGGGTTGGAGAGATGCCGTAAGGTGCGCCTCCACTCTCCTTAGCCCAGAGGGAAAAATGGAGTTCACCTAGCTCCTGAGAGAAGGGAT
TTTTTTTTTTTTTAAAAGAAAGAGTTATATATACCACCCAGCTTCTTTGTGCTTGTTTTTGCTAAAAGTGTGTTTTCTCTTCTATTCCCTTGGC
TCACAGGGACCCGAGTGTATAGCCCTCCAGAGTGGATCCGCTACCATCGCTACCATGGCAGGTCGGCGGCAGTCTGGTCCCTGGGGATCCTGCT
GTATGATATGGTGTGTGGAGATATTCCTTTCGAGCATGACGAAGAGATCATCAGGGGCCAGGTTTTCTTCAGGCAGAGGGTCTCTTCAGGTAAC
TGATGGAAACCCCTGGCCATGGGGTTATTGGTCTTAATGGGGCTATTAGTCTTCATGGGACAGTCTTTGAAATTCTGGAGAGCTTCACTCTCCA
GTAGATTCTGTCACCCTTGGCTTAGAATTGTAGGTGAGTGATTTACACTTGAGCTGGCCTCATAAATCACATGGTTTGCACTTGAGCTTTCCTT
GGGAGGTCAGAGGAAGGCATGTGTGAGCATATTAAGAAGAAAAGACAATCTGGCTTCTCCAAAAACTTTTTTAAAGGTACCAACAGAAACCTGA
TAATTCCTGGCTGTTTTGCCAGGGAGTAAAAAGTTAAAAGCTCTTTTAGCATCTTCTTTAAGGCAGCAGCTCCAAATATTTTGGTACCAGTGAC
CTCACTGTGGGTGGTGTTCGTGTTTGTAAGTTGGTAGGTGAATTGAATCATTTCATCATGCTCAGTGGTGTCTCATCAAAATCTCTTGTCATCA
TCCTTCCTATTTCTGGTGAGTGGGTGTTGTGGGAAAGGCCCCCACTATTGAAGTTTGAAAACCACAGGTTTAAGAGGGGAGTCAGTTTTTAGCT
GAAAGCAGACTGGAGGACCCAGATATTAGTCAATACCTTCCTATTGAAGGGTACCCAGCACAGTGTTCTAGAAAATGCTTGGCCTCCCTGGGAC
CCCAGACTTGTGGGCCTCTGAGAAGCAAATGGGGAAGACCTTTGCAGTGTAAAAACAAGTTGAGTCATTCATAACCTCGTCTATCCTCCTTTCT
GCAGAATGTCAGCATCTCATTAGATGGTGCTTGGCCCTGAGACCATCAGATAGGCCAACCTTCGAAGAAATCCAGAACCATCCATGGATGCAAG
ATGTTCTCCTGCCCCAGGAAACTGCTGAGATCCACCTCCACAGCCTGTCGCCGGGGCCCAGCAAATAGCAGCCTTTCTGGCAGGTCCTCCCCTC
TCTTGTCAGATGCCCGAGGGAGGGGAAGCTTCTGTCTCCAGCTTCCCGAGTACCAGTGACACGTCTCGCCAAGCAGGACAGTGCTTGATACAGG
AACAACATTTACAACTCATTCCAGATCCCAGGCCCCTGGAGGCTGCCTCCCAACAGTGGGGAAGAGTGACTCTCCAGGGGTCCTAGGCCTCAAC
TCCTCCCATAGATACTCTCTTCTTCTCTATAGGTGTCCAGCATTGCTGGACTCTGAAATATCCCGGGGGTGGGGGGTGGGGGTGGGTCAGAACCC
TGCCATGGAACTGTTTCCTTCATCATGAGTTCTGCTGAATGCCGCGATGGGTCAGGTAGGGGGGAAACAGGTTGGGATGGGATAGGACTAGCAC
CATTTTAAGTCCCTGTCACCTCTTCCGACTCTTTCTGAGTGCCTTCTGTGGGGACTCCGGCTGTGCTGGGAGAAATACTTGAACTTGCCTCTTT
TACCTGCTGCTTCTCCAAAAATCTGCCTGGGTTTTGTTCCCTATTTTTCTCTCCTGTCCTCCCTCACCCCCTCCTTCATATGAAAGGTGCCATG
GAAGAGGCTACAGGGCCAAACGCTGAGCCACCTGCCCTTTTTTCTGCCTCCTTTAGTAAAACTCCGAGTGAACTGGTCTTCCTTTTTGGTTTTT
ACTTAACTGTTTCAAAGCCAAGACCTCACACACACAAAAAATGCACAAACAATGCAATCAACAGAAAAGCTGTAAATGTGTGTACAGTTGGCAT
GGTAGTATACAAAAAGATTGTAGTGGATCTAATTTTTAAGAAATTTTGCCTTTAAGTTATTTTACCTGTTTTTGTTTCTTGTTTTGAAAGATGC
GCATTCTAACCTGGAGGTCAATGTTATGTATTTATTTATTTATTTATTTGGTTCCCTTCCTATTCCAAGCTTCCATAGCTGCTGCCCTAGTTTT
CTTTCCTCCTTTCCTCCTCTGACTTGGGGACCTTTTGGGGGAGGGCTGCGACGCTTGCTCTGTTTGTGGGGTGACGGGACTCAGGCGGGACAGT
GCTGCAGCTCCCTGGCTTCTGTGGGGCCCCTCACCTACTTACCCAGGTGGGTCCCGGCTCTGTGGGTGATGGGGAGGGGCATTGCTGACTGTGT
ATATAGGATAATTATGAAAAGCAGTTCTGGATGGTGTGCCTTCCAGATCCTCTCTGGGGCTGTGTTTTGAGCAGCAGGTAGCCTGCTGGTTTTA
TCTGAGTGAAATACTGTACAGGGGAATAAAAGAGATCTTATTTTTTTTTTTATACTTGGCGTTTTTTGAATAAAAACCTTTTGTCTTAACTCGT
GGCTTCTAATCGTCTGTGCGGAGGCATTGCTAACCTGCATTTATTGAGCATTTGGTAAGTGCCAAAGAATTGTAGGAGAAAGGAATTCTCAGCC
TAAATCTGGCTTCCTTCAACATTGGGATTTCTAGGATAGTCATCTTCCTGAAACGAATGTATGGTCAAGGGGTAGGACCAGTATTGTCAAAATT
TGGGCAATATCTGGCATGGGAGGCCTAATAAAATAACCTTTTCCAGATTACAATTTTAAAGCTATGCAAATAGGATAGATGTGACAATTTTCAA
GTGTTCAATAGCCATTTATGGCTAGTGGCCACCTCATATAAAACATCATTGCAGAAAGTTCTATTGGATGGGGCTGATCTAGAGATAACAAATA
CATACCTATTACCAAACTAACCCTTGAAGCTTTTATCAGTTGTCTGCCACTGATAGTAAAACATTTTGAGCATGTCCCCTTGGTACACGTGAAG
TTTATTGAAAAACTATTGCCTCTATTACTCTCGGTTCCTGATTCAAGTTTCCTTCACCTTTAGTGTGAGGTTTAGTTTCTTTTCGAGACTGAGT
CTCTGTCAACCAGGCTGGACCAGCTGGCGTGCCACTGCCAGTGGCACGATCTCGGCTCACTGCAACTTTCACTTCCCGGGTTCAAGCAGTTCTA
CCTCAGCCTCCTGAGTAGCTGGGATTACAGGCGCCCGCTGCCACGCCCAGCTAATTTTTGTATTTTAGTAGAGACAGGGTTTTACCATGTTGGC
CAGGCTGGTCTCGAGCTCCTTGACCTTATGATCCGCCTGCTTCAGCCACCCAAAGTGCTAGGATTACAGGTGTGAGCCATCGTGCTCCGCAGCC
TTTTTTTTTTTTTTTTTTGAGATGGAGTGTCGCTCTGTTGCCCAGGCTGGGGTGCAGTGGTGCAATCTAGGCTCATCGCAAGCTCCGCCTCCCGG
GTTTTAAGTGATTATCCTGTCTCAGCCTCCCGAGAAGTTGGGATTACAGGCATGTGCCACCAGGCCAGCTAATTTTGTATTAGTAGATACGGGG
TTTCGCCATGTTGGCCAGGCTGGTTTGGAACTCCTGACTTCAAGTGATCTGCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGGGCC
ACCGCGCCTGGCCTAGTCTTTAACAATAGTATAATTTATTATGCAGCATAGAAAAAATAATAGAACGGTGTGGTGACACTAAAGTCGTGACCAG
ATAAGACCCAGTCTACAAAAAATAAGTGAAAATTAGCTGAGCGTGGTGGCATACACCTGTAGTCCTACCTATGCAGGAGGCTGAGGCAGGAGGA
TCGCTTGAACCCAGGAGCTCCAAGGTTGCAGTGAGTTATGATCACGCTATTGCACTCCAGCCTGGGCAACAGGTAACCCCACTTAAAACACACA
CACACACACACACACACACACACAATAGTGGATGGGTAGAAATGTGAGTTTGACTTAAGGTTTCCCCCTCTGATGTGTTTGACAAAGGGCTAAT
ATTGGGAGTAGGTGAAATGTTAGCTCTGCCATTTTCTTACTGCTTATTCTTGAATAATTAGTATTTTTAGTCCATGGTTTCTTTGCAGGGATCT
GTTTAATAGGCCCTTTGTCCATTTTGTGTGAGTTTAGTTAAACTGGATGGCAAGACCCATGAATCCACTTTGTACGTGTGGCCTGAATACATCC
TGATATTTTGAAAGCACACTGGAGTGCCATTGTCAATTCATATATTAAGTATTGGTAAATGTTGGTTTCTTGTTTCTTTATAAATATCCACAGT
TATAATACTCCCTCCCTGGGGGTCATCATGCTCCCAACCCTCAATGCATCCACACACCCTTTGGACACTGGCCCATATGCACCCTCGAGGTTGC
TGGAGGGTGCAGACTATAATACCCCTCACTCCTCATTGGGTTCTGGTGTATGTCTACCCTTAAGCTTAGACTAGATCCCATACCTCAGCTCAGC
CCCCATGTGGCTATAAAGAGGAAGGAAGGATGTCTTGGTTCTGGGGGGCTGATTTTCTGAGGTTCCCCTTTTCTCTAATCTCTCCCATCCCCCA
CACAACATACACACTACCAACATCTTGGAGCCTGAGGGTTGCATGCTTCGTCCTTTCCAGTAAAGCTGACACTTGGATAATTAAAAGTTGCC
GCAAACTATTAACGAAATCAGGCAAAGCCCCACCCTTCTCTTTCTCGAAGTGAGTTTCTGGCAGTTTCCCCATCTAATGAGACTGCTGCGGGGG
AATAGAAGAAAGTATCTCTGAATAAAGACAGATCGTGCTCCTGTTGGATGCAAGAGATTAAGAGTTTTAGGGGGAGGGTGAAAGGTCATATTTA
ATCTCTTCTCAGGGGCAGTTTGACATCTAGCGTGGAAAGGGAATCAGATAACCAATAAGTCTGCGGGGGATCAATGTCATGGCCAGAGGAATAT
AGAGAGCAATGGTTAAAAGCATTGACTTGGGAATCAGCCTTGAGCTTACTTATCTAGAAACCTTGGGCAAGTTATTACACCCTCTAAAACTAAT
CTCTAAACAGAGATACTCCTGGATTGGATTATTAGGAGACTGGGTTAAATAACAGATATACTTACATACAGAAAAACTACTATCTCCCGCTTAC
GGATGCATACACATGTAGCAAAAGTACAAAGAAGTACAGGGTGGGGTAGGGTGTGGTAGTTCACACCCATAATCCCAGCACTTTGGGAAGACAA
GGAGGGATGATCACTTGAGCCCAGGAGTTTGAGACTAGCCTGGCCAACATGACAAAACCCCATCTCTACAAAAAAATAGAAGCATTAGCCGGAC
GTGGTGGTGCGTGCCGGTAGTCCCAGCTACTTGGGAGGCTGAGGTGGGAGGATCAATTGAGTCCGGGAGATGGAGGCTGCAGTGAACCAAGATG
GCACCACAACATTCTAGCTTGGGTGAAAGAGCGAGACCCTGTCTCAAAAAAACAAAACAAAACAAAACAAACAAAAAAGTACAGGGTGATAATA
AGTTTCCAGAGTCAGGGAAGTGGTTATTACCTTTGGGGAGAAGGGAGGGAGGTTGTGATTTGTGGAAAGAGACCTTCAACTATTTTGGCAATGC
TTTATTCCATAAACTAGATGGTATGAGTAAGGTGTTTGTATTATTCTTTTCAACTTTTGGGTTGTTTTAAATGTTTTATGATAAACTTTATTTT
TAAAAATTTTTCTCTGGCTGGGCGCGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGCGGATCACAAGGTCAGGAGATCG
ACACCATCCTGGCTAACACAGTGAAACCCCATCTCTACTAAAAATACAAAAACTTAGCCAGGCATGGTGGCATGTGCCCATAGTCCCAGCTACC
CAGGAGGCTGAGGCAAGAGAATCGCTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCCAAGATAGCTAGCCACTGCACTCCAGCCTGGGCGACAG
AGTGAGACTCCGTCTCAAAAACAAAAAAAATTTTTTTTCTTTGTTCTTTCTTTTTAAACATTTATTTATTTATTTTAGCTGGGAGTGGTGGCTC
ACGCCTGTAATCCCAGCACTTTAGGAGGCTGAGGCGGGTGGATCATCTGAGGTCAGCAGTTCAAGACCAGCCTGACCAACATGGTGAAACCCAG
TCTCTACCAAAAATACAAAATTAGCTGGGCATGGTGGTGCATGTCTATAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAATCC
AGGAGGTGGAGGCTGCAGTGAGCCACGATCACGTATAGCCTGGGCGACAGAGCGAAACTCTGTCTCAAAAAAAATATATATATTTATATATATA
ATATATAATATATATTATATATTATATTATATATTATACATAAATTATATATTATATATAATATATAATATATAATATATTATATATTAT
ATATTATATATTATACATAAAATATATATAATATATTATATATTATATTATATATTATATATAAAATATATATATAATATATATAATATTAT
TTATTTATTTTGAGACAGGGTCTCACTCTGTCACCCAGACTGGAGTGCAGTGGCATAATCTCGGTTCACTGCAACCTCCACTTCCTGAGTTCAA

GCAATTCTCGTGCCTCAGCCTCCCAAGTAGCTGAGACTACAAGCGTGTGCTACCACACCTGTCTACTTTTTGTATTGTTAGTAGAGATGGGGTT
TCACCATGTTTGCCAGGCTAGTCTTGAACTCCTGATCTCAAGTAATCCACCTGCCTTGGCTTCCCAAAGTGCTGGGATTACAGGTGTGAGCCAC
TGCGCCCGGTCCATTTTTTTTTTTTCTTTTGAGAGACAGATTTTTGCTCTGTATCCCAGGCTGGAGTGCAGAGGCATGAACTTGGCTCACGGCA
CCCAGGTTCAAGCGATTCCCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGGACCTGCCGCCATGCTTGGCTAATTTTTGTATTTTTAGTA
GAGATGGGGTTTCATCTTCTTGGCCAGGCTGGTGTCAAACTCCTGACCTCAGGTGATCCGTCCACCTCGGCCTCCCAAAGTGCTGGGATTACAG
GCACGAGCCACTGTCCTCAGCCTTTCACTTTTTCTTTTAATTGAGACAGGGTCTCACTACGTTGCTCAGGCTAATCTTTAATTCCTGGCCTCAA
GTGATCCTCCCTCCTTGGCCTCCCAAAGTGCTGTGATTACAGGTGTGGAATATCATGCCCAGCCTATGATAAGCTTTTAAAAGTGATGAATATA
TTTGTGCGTATCATGTAGGAGGCAGCAGATGGAGTTATTACTGCCCTTGGCTGAGGGGATCTGGGAAGGCTTCAAAGAGGAGGTGGCATTTCAC
CTGGATTTTGAAGGATGGAGCCTTAGCCTGCTTCCCTGTAAAATAGGCACCAAACATGCAGATGGAGCAGAGAAATCTGGATGTGCTAAATGTT
TTTCCCCCACTAGACCAGGAATCAGCAAACTATGGCCTGCTGCCTGAACTGGTCCCTGTACAGTTTTTGTACGGCTTGCAAGCTAAGCCTAGAT
TTTACATTTTTAAGTAGTTGAAAATCAATCAAATGAAGAATAATATGTTGTGATATGTAAAAATTATATAATACTTGGCTGGGTATAGTGGCTC
ATGCTTATAATCCCAGCACTTTGGGAGGCCGAGGTGGGAGGATTGCTTGAGGCCAGGAGTTCTGGACCAGCTTGGGCAACCTAGCAAGACTTCC
ATCTCTACAAAAAATAAATAAAAATTAGTCAGGCATGATGGCCTAGCTACTTGGGAGGCTGAGACAGGAGGATCACGTGAGCCCAGGAGTTTGA
GGTTACAGTGAGCTATGATCTCACCACTGCGCTCCAGCACTCCAGCCTGGTTGACAGAGCAAGACTCTATCTCTAAAAGAAAAAGAAAAAAAAA
GAGGCCAGGTATGGTGGCTCATACCTGTAATCCCAGCACTTTGGGAGGCTTAGGTGGGCGGATCACCTGAGATCAGGAGTTTGAGACCAGCCTG
GCCAACATGGTGAGACCCTGTATCTACAAAATACAAAAATTAGCCCAGTGTGTTGGTGCCTGCCTGTAATCCCAGCTACCAGGGAGGCTGAGGC
AGGAGAATTGCTTAAACCCATAAGGTGGAGCTTGCAGTGAGCCAAGATTTCTCCATTGCACGCCAGCCTGGGCAACAGAGTGAGACTGCATCTC
ACAAAAAAAAAAAAAAAAAAAATATATATATATATATATATATACACACACACACATTTGTACACACATATGCAACTCAATTGTCTGTGTT
CATAAATAAATCTTGTCCATTTACATATTGTCTATGGCTGCATTTGTGATACGATGGCAGAGTTGAGTAGTTAAGACACTCAGTATGGCTGGCG
AAGCTGAAAACATTTACTATCTTGTCCTTTACAGAGAAATTTGCTAATCTCTACACTAGATTATGGTCCCATTGACTCATTTTTTGTTGTTGTT
GTTTTTTTGGGGTTTTTTTTTTTGAGACAGGGTCTTACTCCGTCATCCAGGCTGGAGTGCAGTGGCTCGATCAGGGCTCACTGCAGCCTTGACT
TTCCAGGCTTAAGCAATCCTCCCACCTCAGTCTCCTGAGTAGCTGTGACTACAGGTGGGCCCCACTGTGCCCAGCTAATTTGTTTTTTTGTTTG
TTTGTCTGTTTGTCTTGAGACAGGGTCTTGCAATGTTGCCCAGGCTGGAGTGCAGTGGTGCGATCACGACACACTGCAACCTCAACCTCCTGAG
CTCAAGTAATCCTCTTGCCACTGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCATTGTGCCTGGTCTGAACTACATCTTTGATAACTCTTT
TTTTTTTCTTTTTGAGATGGAGTCTCGCTCTGTCCCCAGGCTGGAGTGCAGTGGCATGATCTCGGCTCCACCTCCTGGTTCAAACATTCTCCT
GCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCGCCTGCCACCACGCCTGGCTAATTTTTGTTTTTGTTTTGTTTTGTTTTGTTTTGAGATGGA
GTCTCACTCTGTCACCCAGGTTGGAGTGCAGTGGCACCATCTCGGCTCACTGCAAGTTCAGCCTCCCGGGTTCATGCCATTCTCCTGCCTCAGC
CTCCCAAGTAGCTGGGACTACAGGCACCCACCACCACGCCCGGCTAATTTTTTTTTTTTTTTTGGTATTTTTAGTAGAGACGGAGTTTCA
CCATGTTGTCCAGGATGGTCTCAATCTTTTGATCTTGTGATCTGCCCGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGC
CCGGCCTGATAACTCTTAACCTAGTGCCAGGCATGTAGTAGTTCCTTAGTGATAATAGCTAACATACAGTACCTACTATGTGCCCAGCACTATT
CTGCATGCTTTGCATGCATTAACTTATTTATCCTTAAAACAACTCTATGACACTATTGGAAAGTACAGGGGGAAACACTGTTATTTGTTTTATT
TTATTTTATTTTATTTTGTATTTTTATTTATTTATTTTTTTTTGAGACAGTCTCGCTGTATTGCCCAGGCTGGAGTGTAATGGCGCGATCTCAG
CTCACTGAAATTTCTGCCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTTCTGAGTGGCTGGGATTACAGGTATGTGCTATCACGCCCAGCT
AATTTTTGTATTTTTTTTTAGTAGAGACTGGGTTTTGCCATGTTGGCCAGGCTGGTCTCAAACTCCTGACCTCGGGTGATCCACCCGCCTCAGC
CTCCCAAAGTGCTAGGATTACAGGCATGAGCCACTCCGCTCTGCCTATTTTATTGTTTTAGAGATGAGGGTCTTGTCATGTTGCCCAGGCTGGC
CTCAAAATCTTGGCCTCAAGCAATACTCCTGCCTCAGCCTCCTGAGTAGCTGACTGTACAGGTACATGCCACCTAGCCCGGCTTGATGCAGTTA
TGTATCCACATTTCACAGATGGGGATAACAGATGTGCAGAGCAGTAAATTTCATGTCAAAGGCCACATATTAGGTAGTGGTCAGGTCAGAATTT
GGACCTAGGCCATCTGTGGTTCTATGGTCATCCAGACTCCGCGATCTTGGCTCACTGCAAACATTTGTGTGGATTAGCCACCTCAAGGTCCCTT
CAGGGCCCAGGATCTGGAGGTGAGAATGGTTCTTCCCCAGACTCCAGAGTTGGGTAAGCCATTCTGTTCTGTGGAAATAGTCATTATGAACTCC
TGTAAACTATCTTTCACTTGGGCCTGGCTGGGGAGGAAGAGTTGGAGGCTGAAAAGGGAGAAGAAAGGGACCCGGGGGGGTTGGGGTGGGGCA
GGGGCACATTTCTTGTAAATGTTGCTCAGCTCCTTCAACTGCTGTGCTGGTTCTTGGAAACCTTCACCACAAAAGACCTATCAAGAACAGTGTT
AAAAAAGATATGGCCTCATCCCCCAGTTCATTTCCTGCCCAGCCTTGCACTACTAACCCCGATTGCCAAGAGCAAGGTTGCAGTGTCCCCTCAG
CAGTGCTGTGGGAGGAAGTGCAAAAATAAGCAGAACTAGGGGCAAGACCAGAGGACTGTCTTTATTTTTATTTATTATAACAGGACATCCGATG
TACAGAAGTGGATTCATCATAATCCTTGGCTCATCGTATATTCTCATCCTTGGTCCAAGAATGGTCTTTTGTTTATATATATATATATATATAT
ATATATATATATATATATATATATATATATATATATATATATATTTTTAAATCGGAGTCTTGTCACCCAGGCTGGTATGCAATGACGTGATCTC
GGCTCACTGTAACCTTCACCTCCCAGGTTCAAGTAATTCTCCTGGTTCAGCCTTCCAAGTAGCTGGGATTACAGGCGCCTGCCACCACGCCCGG
CTAATTTTTTGTATTTTTAGTAGAGACAGGTTTCGCAATGTTGGCCAGGCTGATCTCGAACTCCTGACCTCAGGTGATCCACCTGCCTCGGCCT
CCCAAAGTGCTGGGATTACAGGCGTTAGCCACCGCATCTGGCCCGTTATTATTATATTTTATCATACTGGGTAGTGAATCCACCACCCAGCTCA
AAAAACAGAATATTAACAATGACATCCATCTATCTATATGATCCTCTCTTAGTCCATTTCTTACCTCCCCCAGATACAACCCACTGTCCTAAAT
TTTGTGTTTGGCATTCTCTTACTTTATATTTTATTTATTTATTTGAGACAGAGTCTCACTCTTGCCCAGGCTGGAGTGCAGTGGCATGATCTT
GGCTCACTGCACCCTCATCTTCCTGGGTTCAAGCGATTCTCCTGCCTCGGTCTCCGAAGTAGCTGAGATTACAGGCATGTGCCACCATGATTTT
TGTATGTTTAGTAGAGACAGGGTTTCACCATGTTGGTCAGGCTGGTCTTGAACTCCTGTCCTCAGGTGATCTGCTCGCCTCAGCCTCCCAAATT
GCTGGGATTACAGGCATAAGCCACCATGCCCGGCTTATTTATTTATTTACTTTGAGCTTGTCACCCAGGCTGGGGTAGTCGCGCAATTGAGGCT
CACTGCAGCCTCAAATTCCTGGGCTCAAGTGATCCTCCTGCCTCAGCCTCCCAAGAAGCTGAGACACAGACATGTTGCCACCACACCTTGCTAA
TTTTTTTTTTTTTGAGATGGAGTCTTGCTCTGTCGCCTCGGCTGGAGTGCAGTGGCACAATCTAGGCTCACTGCAAGCTCCACCTCCTGGGTTC
ACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGTGCCCACCACCACGCCTGGCTAATTTTTTTGTATTTTCTAGTACAGACA
GGGTTTCACCATGTTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGC
CACCGTGCCCAGCCCACCTTACTAATATTTAAATTTTTTGTAGAGATGGGTGTCTCACTATGTTGACCAAGTTGGTCTTGAATTCCTGGCCTCA
AGCAATCCTCCAAACTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGACCACTGTGCCCGGCTAACTTTTAAAATTTTTTATAGAAATAGGAT
TTTGCAATGTTGCCCAGGCTGGTCTCAAATTTCTGGGCTCAAGTGATTCACCCGCCTCGGCCTCCCAAATTGTTGGGATTACGGATGTGAGGTA
CTGCACCTGGCTAACAGCATAGCAGCATTCTTTCACTTTAAAATAACATTTTATTTTATAGGTATGTATCCCTAAATTATGGAGTATTTAGTAT
TTTTATTTTGTCTTATTTTATTTCATTTCATTTTTAGATGGAGTCTCGTTCTGTCGGCCAGGTTGGAGTGCAGTGGTGCGATCTCGGCTCACTG
CAAACTCTGCCTCCCGGGTTCAAGTGATT

HUMAN SEQUENCE - mRNA
GAGGAGGCCCGAGAGGAGTCGGTGGCAGCGGCGGCGGCGGGACCGGCAGCAGCAGCAGCAGCAGCAGCAGCAACCACTAGCCTCCTGCCCCGCG
GCGTTGCGACGAGCCCCACGAGCCGCTCACCCCGCCGTTCTCAGCGCTGCCCGACCCCGCTGGCGCGCCTCCCGCCGCAGTCCCGGCAGCGCCT
CAGTTGTCCTCCGACTCGCCCTCGGCCTTCGCGCAGCGCAGCACAGCCGCACGCACCGCAGCACAGCACAGCACAGCCCAGGCATAGCTTCGGC
ACAGCCCCGGCTCCGGCTCCTGCGGCAGCTCCTCTGGCACGTCCCTGCGCCGACATTCTGGAGGTTGGATGCTCTTGTCCAAAATCAACTCGCT
TGCCCACCTGCGCGCCGCGCCCTGCAACGACCTGCACGCCACCAAGCTGGCGCCCGGCAAGGAGAAGGAGCCCCTGGAGTCGCAGTACCAGGTG
GGCCCGCTACTGGGCAGCGGCGGCTTCGGCTCGGTCTACTCAGGCATCCGCGTCTCCGACAACTTGCCGGTGGCCATCAAACACGTGGAGAAGG
ACCGGATTTCCGACTGGGGAGAGCTGCCTAATGGCACTCGAGTGCCCATGGAAGTGGTCCTGCTGAAGAAGGTGAGCTCGGGTTTCTCCGGCGT
CATTAGGCTCCTGGACTGGTTCGAGAGGCCCGACAGTTTCGTCCTGATCCTGGAGAGGCCCGAGCCGGTGCAAGATCTCTTCGACTTCATCACG

SAGRES DISCOVERY 02-09

GAAAGGGGAGCCCTGCAAGAGGAGCTGGCCCGCAGCTTCTTCTGGCAGGTGCTGGAGGCCGTGCGGCACTGCCACAACTGCGGGGTGCTACACC
GCGACATCAAGGACGAAAACATCCTTATCGACCTCAATCGCGGCGAGCTCAAGCTCATCGACTTCGGGTCGGGGGCGCTGCTCAAGGACACCGT
CTACACGGACTTCGATGGGACCCGAGTGTATAGCCCTCCAGAGTGGATCCGCTACCATCGCTACCATGGCAGGTCGGCGGCAGTCTGGTCCCTG
GGGATCCTGCTGTATGATATGGTGTGTGGAGATATTCCTTTCGAGCATGACGAAGAGATCATCAGGGGCCAGGTTTTCTTCAGGCAGAGGGTCT
CTTCAGAATGTCAGCATCTCATTAGATGGTGCTTGGCCCTGAGACCATCAGATAGGCCAACCTTCGAAGAAATCCAGAACCATCCATGGATGCA
AGATGTTCTCCTGCCCCAGGAAACTGCTGAGATCCACCTCCACAGCCTGTCGCCGGGGCCCAGCAAATAGCAGCCTTTCTGGCAGGTCCTCCCC
TCTCTTGTCAGATGCCCGAGGGAGGGGAAGCTTCTGTCTCCAGCTTCCCGAGTACCAGTGACACGTCTCGCCAAGCAGGACAGTGCTTGATACA
GGAACAACATTTACAACTCATTCCAGATCCCAGGCCCCTGGAGGCTGCCTCCCAACAGTGGGGAAGAGTGACTCTCCAGGGGTCCTAGGCCTCA
ACTCCTCCCATAGATACTCTCTTCTTCTCATAGGTGTCCAGCATTGCTGGACTCTGAAATATCCCGGGGGTGGGGGGTGGGGGTGGGCAGAACC
CTGCCAATGGAACTCTTTCTTCATCATGAGTTCTGCTGAATGCCGCGATGGGTCAGGTAGGGGGGAAACAGGTTGGGATGGGATAGGACTAGCA
CATTTTAAGTCCCTGTCACCTCTTCCGACTCTTTCTGAGTGCCTTCTGTGGGGACTCCGGCTGTGCTGGGAGAAATACTTGAACTTGCCTCTTT
TACCTGCTGCTTCTCCAAAAATCTGCCTGGGTTTTGTTCCCTATTTTTCTCTCCTGTCCTCCCTCACCCCCTCCTTCATATGAAAGGTGCCATG
GAAGAGGCTACAGGGCCAAACGCTGAGCCACCTGCCCTTTTTTCTGCCTCCTTTAGTAAAACTCCGAGTGAACTGGTCTTCCTTTTTGGTTTTT
ACTTAACTGTTTCAAAGCCAAGACCTCACACACACACAAAAAAATGCACAAACCAAGCAATCAACAGAAAAGCTGTAAATGTGTGTACAGTTGGCA
TGGTAGTATACAAAAAGATTGTAGTGGATCTAATTTTTAAGAAATTTTGCCTTTAAGTTATTTTACCTGTTTTTGTTTCTTGTTTTGAAAGATG
CGCATTCTAACCTGGAGGTCAATGTTATGTATTTATTTATTTATTTATTTGGTTCCCTTCCTATTCCAAGCTTCCATAGCTGCTGCCCTAGTTT
TCTTTCCTCCTTTCCTCCTCTGACTTGGGGACCTTTTGGGGGAGGGCTGCGACGCTTGCTCTGTTTGTGGGGTGACGGGACTCAGGCGGGACAG
TGCTGCAGCTCCCTGGCTTCTGTGGGGCCCCTCACCTACTTACCCAGGTGGGTCCCGGCTCTGTGGGTGATGGGAGGGGCCATTGCTGACTGTG
TATATAGGATAATTATGAAACACAGTTCTGGATGGTGTGCCTTCCAGATCCTCTCTGGGGCTGTGTTTTGAGCAGCAGGTAGCCTGCTGGTTTT
ATCTGAGTGAAATACTGTACAGGGGAATAAAAGAGATCTTATTTTTTTTTTATACTTGCGTTTGGAATAAAAACCCTTTGGCTTT

HUMAN SEQUENCE - CODING
ATGCTCTTGTCCAAAATCAACTCGCTTGCCCACCTGCGCGCCGCGCCCTGCAACGACCTGCACGCCACCAAGCTGGCGCCCGGCAAGGAGAAGG
AGCCCCTGGAGTCGCAGTACCAGGTGGGCCCGCTACTGGGCAGCGGCGGCTTCGGCTCGGTCTACTCAGGCATCCGCGTCTCCGACAACTTGCC
GGTGGCCATCAAACACGTGGAGAAGGACCGGATTTCCGACTGGGGAGAGCTGCCTAATGGCACTCGAGTGCCCATGGAAGTGGTCCTGCTGAAG
AAGGTGAGCTCGGGTTTCTCCGGCGTCATTAGGCTCCTGGACTGGTTCGAGAGGCCCGACAGTTTCGTCCTGATCCTGGAGAGGCCCGAGCCGG
TGCAAGATCTCTTCGACTTCATCACGGAAAGGGGAGCCCTGCAAGAGGAGCTGGCCCGCAGCTTCTTCTGGCAGGTGCTGGAGGCCGTGCGGCA
CTGCCACAACTGCGGGGTGCTACACCGCGACATCAAGGACGAAAACATCCTTATCGACCTCAATCGCGGCGAGCTCAAGCTCATCGACTTCGGG
TCGGGGGCGCTGCTCAAGGACACCGTCTACACGGACTTCGATGGGACCCGAGTGTATAGCCCTCCAGAGTGGATCCGCTACCATCGCTACCATG
GCAGGTCGGCGGCAGTCTGGTCCCTGGGGATCCTGCTGTATGATATGGTGTGTGGAGATATTCCTTTCGAGCATGACGAAGAGATCATCAGGGG
CCAGGTTTTCTTCAGGCAGAGGGTCTCTTCAGAATGTCAGCATCTCATTAGATGGTGCTTGGCCCTGAGACCATCAGATAGGCCAACCTTCGAA
GAAATCCAGAACCATCCATGGATGCAAGATGTTCTCCTGCCCCAGGAAACTGCTGAGATCCACCTCCACAGCCTGTCGCCGGGGCCCAGCAAAT
AG

TABLE 10

MOUSE NOMENCLATURE
ICSGNM Wnt3a
Celera mCG11700

HUMAN NOMENCLATURE
HGNC WNT3A
Celera hCG42253

MOUSE SEQUENCE - GENOMIC

TGAGCTGTTGATCACATGCTGCATTTAGAGAGAGTTCTGGGACTAAAGCTCAGAGAGAAGACACAGGCCCATGGCCAGAGAGGCCTTAGCTATG
TGGGCCTTGCCACCTGTACCCAGGAGCACACCACTCCCTTTGGAAAGAGCACCCTTCTAACACCTATCATCAAAGTCAAGCAGACCCAGTCAGT
ACAGCTTCCTTTCTCTCCCCTGGCCTTGCTCTTTTGCCCTTTGCAGCCAACCAGTGGGTTGAGTTGAGTGGATGCCCGAACAGAGTCTTTCCAG
TGGACAATAGGCGCTGTACTGAAGCATGGTGGACGCGGGGACATGTTTGAATATTTCTGATACTTTCCCCCATCCCACCATGTGACAACCTTCC
AGCTCTGAGACCTAGAGGAACCTGGCCTCTGCCTCTACCTAGGTCTCCCTCCAGGGCTCCCCAGGTGACACCCTCGAGGTGTCTGATACATTAG
TGCTTCCACATTCCTTCACCAGCAGAACGTGCCGCTGCCGCCCAGAGAGGCTGGCAAACACATGGCCGCCGGCGCGGGAGCCTCCCGCCTGCCA
GGACTCGTTCAAAGTATGTGTCAGTAATCCTGCTGGCCCGGCGGGGCAGGACAGGCGCTGGCTGGGAAGGCTTCAGGCAGGGCCCTGTGCTGAC
TGGAGTAAGGACTTGGGACCCCTCCCCAACTCAGAAAGTGCTGGATCCTCAAGGAGGGCTTCCATTTTCTGGGGATGCTGTCCATTCGTGGGAA
GGCAGCGGATTGTTGGGGATCTCAGGAACACAGGTACCGTGGGGACAGCTCTCCATCTGAATGGTTCCTGGACAGCCCCATTCAAAAGAGGACA
GTGTGCTTTGTCCATGAACAGAGTGAGTCCCATACCCTGGGTCTCAGGTATGAGTGTGGAAGCCTGGTGATGTCACTGAGAGGCCCAGTGCTCC
AGAGAGAAAGGCCTGAGTGGGACCCACAGCATTCTGGCCCAGGACCCTTATCAACAGAGACTTCTCTACTCATGATCCTCCTTGTTCCCTCTGG
GCCTGGGCAGAGCCTTAGGAACCCTACCTGCTAGGATCCAACTCAGTGCTTACTGTGCCTGATTCCATGCCAGCAGCGGATAAGAGAAGTCAGG
CAAGCAAGGCACTTCCTGCACCAGATATAGATGCAGGGAGAGGTGGACAGACACAGTCCCAGACAGGCAGGTAGCGCTCGCACACACACACAAA
CACACACACACACACACANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NGGGAGCCTTGGCCCAGGGAGGCCAGTGCTGGCCCAGGCTGGGCTGGCCTGCTGCCCATCTCCCAGTCCTGGACCAGCCTCCTTCCTCTACTGC
ATGTCACAGCCAGCGTCTCTGCTATATCCCTGGCCAGGTGCCCGGCCTTTCAACAGGAGCAAGGGAAGGAGGAGGGAGAAAAACCATTAGTGTT
TGCCGGCTGCAGGCGTGGCTCACGTGGCTGCAGCCACAGGATGAAACTCCTAGTCTAAGGATGGGGCTATGTTCCAAAACATAGCGAGCTCTAA
GTAGACGGCGATGCCTACCCCTTTAAAGACAAACTAGGAACAAGTAATAAAAAATTAACAGCATTAGTGAAAATGAAAGCAAGAGGAGTCTGAG
ATCTGATTGGCATAACACGGGCATTTTCACTGGTGTGGCTTGTTCTTGTTTGACACACACACACACACACACACACACACACACGCTC
GCGCGCGTGCGCGCGCATGCTTTTGTAAGGATAAAAAGTTTCAGCCTCACTTTCTAAGGCATAGTTTAAACATCTGCATTTTGGGATCATTTTG
AGGGCGGCCTCAGCAGTTACCTGAGGTCTGAAGTGCTTAGGGTCCACTGCCTAACTTTGGCTGCCAGTCCTTCTGCTAGGACCCAAGAAAAGGC
TTGGGGTGGGGTGGGGTGGCTGGACCTTTCAGAGAAGGAATGGCAGGAGAACACTAATTTTATTTGGTGGGGGTTTGTCCAGAGGACCTTACAA
TGTGATGTCAAGTTGGACAGTTAAAATTCTAGCTGAAAGTAAGATTGTAGGCTTCTCCCAAGAGGCTGTCCTCCACCCTGGTTGGCAGAGAGAG
GGGAAATGGAATGAATTCCTCCCACCGTGAATCACAAAGGCCAGGTGCAGAGAAATGGGTGCAGCGAGGGTGTGCCTCCTCCCAGCTTCTCCCC
AGGCCCAGGCAGGGCCCTCCTGCCCTAGCTGTTTCCATCACCCCAAGGCAGGGTTCAGACCTTACGGTGACCTCACAACTGGAGGAGCTGGATG
TGGATTGGAAGTGACTGGTTACAGGGTCTTCCATTCTTAATGCTCTTCCTGGGCAAAAGATAAGGGCTCAGCCTAAGTCAGGACACGGGGTCCT
TTGAGTAACCTGAGGGTTCTCTGTCTTTGTCTGCACATGGGTTTACACACGTTAGAGGGATTCTGTGTGAAAGGGGAGGGAAGAGTTCATACAA
CACTCCTGGAGGCTCAGGGCGGGCCCAGGGGCTCAGGAAAGACTAGGTGCGTTCTGGATGGGATGAAGACCCCGTTTGTCTGGCTGGTAGCTG
TCTCTTGGGCCTTGTAAGCAGGCAAGGGCGACTGGCTAACTGCCAGGGCTCAGGTCCCACTGGTCCCTGTCCCTTCTCCAACTCCTGATATCTC
TTGGGGGTTGGATCTGATAAATATTGGCCTTTAAGAGAGAGCAATGGCTCAAGAGGGCAGTGGAATTTCAGATGTCTAGGGGAAATTATGTCTA
TCATTAAGTTCTGGGAGAATCAGGTGGAGAAAGCAGAAAAGGCAGGTGGCAAAGGCCAGGTCAGGGCCCAGGAAGGCACTCAGGTGTTTCGAGT
TTGGACTCAAGCCTTAGCAAAATGCTTGTCTTTGGAGTATCTTTACAGTTATGGAATGTCAGGCTAGAAGAGACCTCAGATCAGCAGCTTAAAA
CTGTGTTTCTGTCACTATGCTCCAACCCTACGGTTGGTCACCTACGGTTCAGCTAGGGACACTGAGGCTCCAAGAGTCTCAGAGGGCAGACCAG
AATAGACCAGCACAGTGATGAGATGATGAGATGAGTCCTCACAGTTAAGATCATTGCTCTCATCTCCCTTGGTGACTCTCCCTTGATGGAAGTG
GTCCTGTAAGTGAAGCCTGCCTCTTTTGTAACACTGTCTCATTTTGATGTGCTAGCTGCACAGTTGGGCTTGATGCATTTCTCTGTATTGGACT
CATTCATGAATGTTACTTTGCTTAATACATTTTAAGACTATTACAGTGTATCAGGGCCAAGAGGATGGCTCAGTCAGTAGATTATGTATCTGTT
ACACAAGCACAAAGACCTGTGTTTGATCCTTAGGACACACATAAAAAAATTATCTGGTAGTATAGTTTTGAAATACCAGTGTTGAGGATGGAAA
GACAGGCAGGCCCCCGAAGTTCACTGACCAGCCAGCCTAGCCTAAAATAAGCTATAGGTTCCAATGAAAGACCCTATAACAAGACATAGTTCCT
AAGGAACAACATACAGGATTGATCCCTGCCCATCTAGTGCATGTGTTCACACCTGAACAGGAATGCGTGAGGGGGTGCCCTTGGGAGCCAGTGT
GCCTTGGGGACCATTGTTTTTGCCATATCAACCTGAAGTCTTGATATAGGCTCCACTCACCAAGCCTTGGTTTCTTGTCCCAGGTGGTCTTGGG
TCGCACCTGTCCTAGTTTGTCACATACAGGGTCTGTGAACATATCACTCGTGAGCTCCACCCAGGGCAACTGGAGCTGAGGGTGGGCAGATATG
GGAATGGGACAATGATGAGAGATCTGAAGGGACACACACAGCAAGAGATGATCTGTGGAAAGGTCCTGAGTAGCATCAGGAAGGGGCAGCTGTC
CACAGGCTAAGCCAACAAGCTTGTGGCATGTCGTTGTGTCATGTGCCCCTGGAGCTTGGACACAAGGTGCCTAAAAGGTGGCATCTCCCAGAGA
TGCCTTTTTGTTCTGGGTGTTGGGACTCAGGTAGGGGTAGAAGAATCCAGTGCAGTGAGAAGGACAGTGCTGTGCCCCTTGGTTCTTGTCAGAG
CAGAGCAGATGCCCCAGATTTAAGAACTTTTGCAGCTCAAGGTGTCAGCCAGACCAGGAAGCCACTTCTAACCTCACTCGCATTGTTGGGGCTC
ATTTTGTGTTTTTGTAGGACTGAGTTCTCCAGGACTGGGTGGCTGTGGCTTAGGGTAGCCCCTGAGAGTCCCTCTGTGGTCTCAGAGCCAGAAA
CTCGGAGGCAAACTCCATGCTTTGGATCCAACTTCTGAAAGCACACATGAGTAGCATAAACTTAGAACTCCAGACTCAGTGTATGCCCCAAAGT
CCTGACATTCTGGGCATAGTTTTGGACCTCAGAACTCTGGGAATACCTCAGAATTTGAGGTGCTGCTAGATTCTGGGCTTGGAGAGGCTTCTGG
GGATAGGGGATGGAGTCAGGCAGCTGTGTGTGCTAGAGAGCAGCTGTACTCAGCCTAAGCTGTAGAAACCTGGTGGGCATAGGGACCGCTGAAT
CATACTCCTGTGCAGTGTCTCAGTGCTAATCTCGTGCCCATGCTCCCAATGGGACAAGAAATAACATTCTCACCCCCAGCTCTGCTCATTGCCA
TGGGACCTCACCCTGGATCACAAAAGGAGATGACACGCTGCTGTTACAGCCACATCACTGAGGGAAGACAGCTATCATCATAGTGGGTGAGAAC
TGGAGAAGAAGTTACAGATGCTGTTGCTGTTTAGCGTAGCCTATAGAAGTCTAGCACACACAATAGCAGGACCTCCCCCCGCCCCTAAAAAATT
CCACCTTGCTCGCCTTCCTATAGCTCAGCTGATTTGGTTCCTCATAGCTGTGCTGTCTCCACTTTCCTTCTGGGCTGTTTTGTTTAGTTTTTCA
TTTTAAATATATTTTATTTATTTATTGTATGTGTTCATTTGCACTTGTGCACAGGCCACAGCATGCTTGGGGTGGGGGGTTGGAGGACAACTTC

AGGAATCTGTTCTCTCCGTCCACAGTGTAGATTCTAGGGAATCAATGATGTTTGTCAGGCTTGGCAATAGGCACCTTTAGTCACTGAAATCTCT
CTCCCACCCTGGAATGTGTCTTGATGACTGTACAAAGGGCTCCTGGCACTCACCTTGGAGACAGTGTCCCCTCATTCTGATGTTAAGAAAGAGT
AAACCAGTACATACTTGTGGTCCCCGGTGAGGGAGGTTGAGTCTAAAGAATCATGAGTTTGAGGCTAGTCTGAGCTACCTAGCCCGGGCTAGCC
TGAGCTAGGCTGAGCTTGTTGCTTAGTAGTAGTTGCCTGGCTGGGGCAAGTCTCATTAGTGGAGAAGGAGGAGGAGGGAGAGAGCCAGGAAATG
GTAAGTTAGCCAGAAGTTTAGGAGAACACTTGAGAAAGTCCTGGGGAGGGTCAGAAATTCATTGGCTACATGAAGAATTAGAGACTGGGATATA
TGGGACTCTGTCTCAAAAACAGAAAAATAAATAAATGAATAAATGTTTGACTTTGTACAGCTTTCCTTCTGTATTCTGTAGGCACAGGCTTAGC
CAGCTGAAAATTGAACATGTTTGGAAAAACTGGGCATGGTAGCACATGCCTTCAATTCCAGCACTCTGGAGGAGGCAGAGGCAGGTGGATCTCT
GTGAGTTTGAGGCTAGCCTGGTCTAGAGAGTGAGTTCCAGGGTGGAGTTTAGTTAGTAGAATGCTTGCCTCACACACACTTGGGAAGTAGAGAC
AGGGGGAGGAGGATTTTAAGGTCATCTTTAGCAACTTAGCAAACTGGAAGTTAGTCTGCACTACATGAGAGACAGACAGGCAGGCAGGCAGACA
GACAGACAGAACTAAACAAACTAATACAAACCTAAGCTGACCATCACAGCCCAGCTGAAGTCCAGAAGTTTATCGAACCTCCTCAACCCTGCCT
GCCCGTCTCCATCGTATGACAGCCACCCTGTTCAGTCTTCAGCATTCCTTCCCACAAGGCCTCTGTGCCTGGGCTTTCCTGATGGTCCAGCTCT
CAGGGAACAAGAAATGATCCAGGCTGCGATTCAAGGCACTTCAGAGGCTCTTGGGTCCAGAGAATGTTCTCTTCCACCTTTCTAAGTCCATGAG
AGAGAGCAGGAGGGATCCTGCTGGTGCTGCCCACACCCTGGCCTCCTAGCTAGGGGAGGTGGCGAGCAGGGACCTGCCCAGAGGAAGGGAAGCA
GAGAAGGCTGACTCAGCATCTCCAGAGGAAGGGGGCTGGGGCGCTGCCATGGACCTGGGAAGTCCCTTCTCTGCCTTCCTTGGGGGCCACTCCC
AGCAAGGTGGGTGGGGAGCTGAGGTCTGACCACTCCATGCCATTGGAAGGAGCCCCCTCTTCAGCAGCATCCTCTTCTTCCGAACCCACATCAT
CAGCACCCAGGATGAGTGCTGGTTTCTGGCATCTAACAAAGGAGACCACCTACTCTTGGGAACTGGCCACTGGCCTAGGCAGTTCCTCCTGGGA
AGACAGAAATGGCCAGGTTCTGGCCAGGTTCTCTTTTTTCTGCTATTTGAGAATGGTCATGCTTTCCATTGTCTCTAAGTCTCCTAGTTAACTGC
ATTCACAGAGTGAAGATTGTCTTCTTTTTGGATGGATAGACAGATGCCCTTACCCTCTTTCTGGGAGCTATGAATGTGGCTCAGTGGGTAGAAT
GAATGCCTAGCATCTGTGAAGTCCTATGTTTGATCCCTGGCACTGCAGAGGCAGATGGATCTCTGTGAATTTGAGGCCAGCCTGATCTACATAG
TGAGCTCCAAAACAGCCAGGGCTATGTAGAGAAAACTTGTTTCCAAAAAACCACAAGAGGCTGGGCGATGGTGGCACACACCTTTAATCCCAGC
ACTTGGGAGGCAGAGGCAGGCGGATTTCTGAGTTCGAGGCCAGTCTGGTCTACAAAGTGAGTTCCAGGACAGCTAGGGCTACACAGAGAAACTC
TGTCTCAAAAAACGAAAACAAACAAACAAACAAAAATAGAGGAGGAAGAGGAGGAGGAGAAGGAAGACGAGGAGGAAAGGAGTAAGGTAGGGGG
AGGGGGGACATTGCCCAGGCCAAAGGAAAATCTTGCTTTGCCACAGGTAGGAGAGTCTTGGTGAGTGTGGGTGCAGTGGGCAGTGGGGTTCATG
GGTGCTGAAAGAAGGAGAGCTGAAGTACTTCTGGATGTGGGTAACAGGCAGAGAGCAGATGAGCCTGATGGGACATGATGGGACCTCTGGTTTT
AGGGTGACTAGCCAAAAGTGACAAGGTACAGCAGTGGCTTTCCACCTTGGTCTAGTTTCTTCCTCTCTACTCAGAGCACCTAGCCAGGCCCCTC
CTCTCTGCCATCCTTGAGGGCAAGGAGCACAGATCCCAGTCCACTCCATATGGACGTGTCTCAGCTCTCAAGCCAGGACCTTGGACAGTGATTT
CTTCATTTCCCACCAAGTGTCTGCTCTCCCCATACTCAGAAGTGCCTCTGTGGCCCATCTAGTGCCACCAGGGACACACAGACAGCCATGGTGG
TCTGTACCTAGAGAAGAAAGTGCTGATTCCGCCTGCAGGCAGGGAGGAGGGCATCTCTGAGCCAGACTAACCATGGAGGTCAGGGGCCTGGAGA
GGAGAGACAGCTGCTGAGAGTGGAAGCAATCCCCAGCCTACACAGGGCTGGACTTCTTATGAACGTGGGGCAAAGAGAGGAAGGATAAAGGAGC
AAAGAGCAGGCTCTGTCATGGTGTGCACAGGGATGCACGCTGCACCTAGGCCAGGCATGTGATGATGTGTGACGCAGGTCTCTGGAGTATTTCA
GGAGATAAGAGAGGCCAGCTCTATGGGAAGTAGACCACAAGGATGGATGTGCTGGGGACAGCCAAATCTCTGCATGTGAGGGTTCTACAGTCAC
AGACTTAGCTCCAGAAAAGTCCTAAGTGTTTGGAAAAGCCGTGTACAGCAACACAGACCTGTAATCCCAGGATGCTGAGACTACACAGTGAGAA
CCAGGTCAGCCAGTGGTACATAACAAGACCTTGTCTCAAAGAAAGGAAAGAGGAGAGATGGGTGTTGGAAGCCAGGCCCAGGGGCTCGTGCCTG
TAACTCCAGCCAGAGGCTCAGAAGATCAAGGTCGGCACTGGCTACACAGCAAGTTTGAAGCTAGTCTAGGCTACATGAGACCCTGTCTCAAAAA
TAAGAAAAACAAGGGCTGGAGAGATGACTCAGCAGTTAAAGATCGCTAACTGCTCTTCCAGAGGTCCTGAGTTCAGTTCCAGGCAACCACATGG
TGGCTCACAACCATCTGTAATGGGATCTGATGCCCTCTTCTGGTGTGTCTGAAGAGAGCAATGGTGTACTCATGTACATAAAACAAATAAGTAA
ATCTCTTTAAAAAAAATAAGAAAAACATGAAAATGAACATGGTGGGGGGAGAGGGAGAGAGAGAAACACTATTTGGGAAGGTTGCTGCATGTGT
ACTGACCGACTGACCGTGTGTGGGCTTCCGGTGCTGGCTTTCCCTGCAGTGTAGTGTGACAGTCTGTGGCCTTAGAATCCTTGTCATCTAGGTT
TGGCATGGACAGAAAGGTGTGTGGACTATGTGCAAATACCATGCTACTTAATACAAAAGATCCAAATGTCTGCTGTGAGCGTGTGGGTACGTGT
GTGTGTGTGTAGGCCAAAAGTTGATGTTGGATGTCTTCGTCACTCCCCACTTTGATTTTCGGTACAGGGTCTGTCACTGAACCCAGAACTCCC
CTGGCTGCCTTTGCTCCCCACCTCAGTGCTATGGCTGCAGACATTTGCCAACCTGGTTTTTACATGGGTGCTAAGGATTGTATCTCAGGTCCTC
ACACTCACCTGGCAGGCATTTGACCAACACCTTCCTCCCCATCCCCTCCTCACATGTTTTTTTAGAGGACATTTGCTTCTCCCCCTCCCCCACG
CCTGAGTTGGCTAGTGCCCCACTCCACTGAGACACCTCAGCAGCCATCCTCATCCTATGTTCTCCGTCAGTGTCTGTATCCTCCAATGCCTATA
GAGGTCTTAGCCACAAGCTGAGGGTCCCAGGAATGCAGGTCTGGTTCTTACACACCGTGAGTCATGACAGTGTGACATGTGGTCTACATCCTGG
GTACATGGTCAACATGCTGTCTCTAGGTGCCCTTCCTGTCGGAAGCAGCTCCGGGCCGATCACATGCACATAGCCCAGAGTCTGTCCGTTTCCA
GAGATGGTCTCAATCACCTCCTTGTCTTTCCACCAGGTCCTTGGCTGTGGGACCCCAGTACTCCTCTCTGAGCACTCAGCCCATTCTCTGTGCC
AGCATCCCAGGCCTGGTGCCCAAGCAGCTGCGCTTCTGCAGGAACTACGTGGAGATCATGCCCAGCGTGGCTGAGGGTGTCAAAGCGGGCATCC
AGGAGTGCCAGCACCAGTTCCGAGGCCCGGCGTTGGAACTGCACCACCGTCAGCAACAGCCTGGCCATCTTTGGCCCTGTTCTGGACAAAGGTA
CCCTGGGGTGGTTAGGGTCATCTCTATATGGACATCATAAGGCCTTCCAAACTCTAACCTGGCTGGGCTTGCTCCTCCCGACCAATGGAGGGCC
TTGGAGAAGAAAGGGGGAGGGGAAGGGAACCGTAAGCCCACCAGGCGGGCGGGAGAGGCTTGGAGTATGTTGGGGAGGTGGTTCACCAGCCAGC
ACCCCTGGGCTGGTTTGGAAAGGAGAGACCGGCAGGAGAGCTAGGTGTTAGTTAGCTGCTGGCAAAGAGCAAATTATCCTAAAGTGTAGTGGTT
AAGGCAGTAATTACCATGTGTTGACCTCCTGCTGCCGGGGGTCAGGGGCTGGGTTGGCTCTGCTTCCCATCCACAGGGAGGGAGGTCCATGGGA
GGCTGTCTCAGCACCAGTTGCTAGAGAGGGCTCTGAAGTGGGGCAAAGGCTTCTTTCTGTGGTCTCTGGGACCCAGGTCTGAGACAGAGAGGGA
GACAGAGATAGAGGAGGCAGAATCAGAGAGGCAGAGAAATAGAAGAGAGACAAAGATGGCAGAGACTGGGTGGGGGGGAGGGGGCCGAAAGGAG
AGAGAACACACACCAAATGAAAGCTTTCATGCCTTGAACAAGAAGGGAAAATCATATAATTTAAATCACTTTAGAACATACAATCTCAGCACAC
TTAGCACACCCACAGAATTGCGACACTACCACTCCTAATTCCAAAATATTTTCATCCTCTCGAAAGGAAATCCCAAACCCATTATGCAGTGCCC
CTGGCAACCACTGGTTTGCTTCCTACCCCTGTGGTTTTCTTATTCTGGACATTTCCTCTCTGTGTAATTATGCACTCTGTGGCCCTTTGTAGCT
GGCTCCTTTCACTGAGTGTGAGGTTTACAAAGTTCATCTATGTTGCCACACATATCAATGCTTCATTCCTTTTGATGACTGAATACTATTCCAT
TTCAGTGTGTGTGTGTGTGTGCACGTACTCGTGTGCACCTTAAATTTTACATGTCAAAAAAGAATTTTATATGTAAAAGATGATGCCAT
CTGTGGATTTCATTTCTTTTATTGGTATATGTTTATTGTATTGGGTTTTATGTATATCTTCATACACATATAGAATGTATTTTGACCTGACTTA
ATTCTGCTGCCCAGGACATCAGTCCCCTGTGGGACCAAAGTGGAGAGAGTGGGTCAAAACTCTAAGCAGTGGATGTCCGTGTTTCCTGAGTCAC
CCAGCCTTTGTGTTTGCTGCAGAGGTCAAAATACAGCACCTGTGGCTTTGCAAGCCTGGCTAGGAAGCATGGACACTGAACTGTCCCCAAGGAG
AACAGCATTGTGGAGAAGAGGCTGGGGCTGGGTTCCTGCAGTGGTCTTCCTGTGACCCTGAAGGTGTTTAAATTCTTTCTTCTGGTGAGGTCAA
AGCAGATGACCTCATGAGCCTTTGGGGTGGAAGTAACTCTGTTCCCTGCAGTCTGACCCTCCCCTGACTTTCACTTCCAGCAGTCCACTGTCGG
CATGGCTCCACCCAGTCCCATCAGCCTCCATTCACAAGCCAGCTCTTCACTTCATATAATGACATCATGCCACCAGTCCTGACCCTATGGTTCC
TCTGACCCCCTTTCACCTAACGTCATGACCCACCATTGATTGTCCTTCCTGGTGGCATTCACCAGCTCACTTCCAGGGGTGTTAGCGTCCCTAT
CTATAAAATGGGAAAGTAATTGCAGCTTGCAACTTGAGAGCTGTGAGTCAGGCTAATTACACAGTTGCTCCCCACAGAACAGCACTGCTGTATA
CAGGGGAGGATCAAGTCCCTAGGCCGGTACAGTTTACCAAGCATGCCTTATAGTATGTGCACGGGTGGTCCATCCTGTGTCTTCATGGGAATGT
GATGTGTGTACGTGCAGCAGTAAAAATGCTAGTGTGTACACATGTTTTCCTACATGACCACATATGAGCAGCACACGTGTATTCTGTTGCTTTT
TGTTTTTGTTTTTGTCTATTTGTGTTTTGTTGCTATTACAATGTACCTGATACTAATAATTTGAAGAGGGAAGATCGATTTTGGCTCTTGGTTT
CCGAGGGTTCAGCCCATGGTTAGAAGACTTCACTGCCTTAGGCAAGGCAGTCACAAGGTAACTGGAATGTGTTACCAAAGGTTTCTTCCTTCAC
TGGAACCAGAAAGCACAGAAAGCAACAGGAAGGAGCCAGAGGTGAATATCTTTCTAGGACATACCCCAAGCACGCTTCTACCTTCTTCCCCCAT
GAGCTCCCTGTCTCTTAATGATACCACGATATCCTCACTCTGTCAAGTCTGCTCATTAGTTCCAAGCTCAGGTTCCAATCACCTCAACAGTCCT

TCCCAGACAACACTCCATTTCAAAACATAGCAGCACGTGTGGTTATGGTATGTACATACGTGTGCACACATGGCTTCAGAGTGGGGCTGCACTC
ACATGTGAATCTGTGTGCACAGGTGTGGGAGGAGCTGAGAGTTCTACATCTTCATCTGAAGGCTGTCAGCAGAATACTCACTTCCAGGCAGCTA
GGACAAGGGTCTTAAATCCACGCCCACAGTGACACACCTACTCCAACAAGGCCGGCCATGCCTTCTAATAGTGTCCACTGCCCAGGCCAAGCATA
TTCAAACCACGACAGTTGAGGAGCCTTTAGAGATCCTGAGAAGCTGGCCTTTGAAGGTTTCTGCCTGAAGTCTGTGCTGCAGTGAACAAGCCTG
ACTCCCATTACCACAGACAGAGCCCCTCCAACCTCCTGCTTCTCTGTGATTGACTGAAATGAGCCAAACATTACTTCTGTTGGGTATTTTATCA
CAGCAATTATAACTAATACATCCACCTCCATGGGGGAGTCTGTGGGAGCATGCACACACACCACCTCCCTCACAATGCTAAAGTGAGTCTCTCA
CAGGAGCAAGGAGGGCACCCCATGATTCGTCCAACTATGTTTAGAGCTGAGGAAGGGGCAGGCTTTTATATCCTGTCATGCTAACAGAGCGGGTA
GCGCTCAGTTTCTCCTCTTCACCAGCACTCGGTATTGTTATTTTCTTGCAGCTGTCTTCATGGGCGTGAGCATTTTTTCTTGAATTTATCAGTT
ATGTGTGCCCTTTATAAAAAAATCTATCTATTCAGTTCTTCTATTCATGTTTTAATAAGGTTATTTCTATTTAGTTTGAGTTTTGATTATTTGT
GTTTTCCTTAATCATAGTTTTAGTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTGTGTGTGTGTGTGTATGTGAATGCTTATGTCTGC
CTTGGTGAATATGTGAAAGTCAGACAGTCCGAATCTGGTTCTCTTCCTAACCTGTGGATCCCAGGGATTGAACTCAGATCGAATTGGGTTCANN
NNNNNNNNNNNNNNNNNNCAAGCCTCCACAACATGGAGACAAAAACATGCAGACATTTAAAGTATTTTTTTATTTTTACTTTTAAAAAATGTAA
AAATTCTTTTAGTGTATAGCCTGTGTATGGTTTAGTGTACCTGTGTGAAGGTGCCCTTGGAGGCCAAACAGGGTCCAGACCCTCCCTGAGCTGG
AGTTACTGGCAGTTGTAGCTGTCCAGTATGGGTGCTGGGAACTGGACTTGGTCCTCTGCGAGAGCAGCCCATCTATCAACTGCTGACTGGTCTC
TCTAGCCTCCTACAGGAGTCTTTAACTTTGATGACAAGTCCCCAACTCTCTCTTTGGCTTTTTAGCGCTAAGAAAATCTGGCTGAACCCAAGGT
CACAGATGTTTGCTCCTCCCTGAGCCCCCCACGCCCGAGACAGGGTTTTTCTGTGTAGCTCTGTCTGTCCTAGAACTCACTTTGTAGACCAGGC
TGGCGTCGAACTCACAAAGATCCACCTGCCTCTGCCCCTCGAGTGATGGGATTAAAGCGGTGCACCACCATATCAGCTACAGAAAGCCTGCTTT
TTCTGTTTCCTCGAAAGAGTCTTATAGCTTCAAGCCAGAAGTGATGGCATGTGGCTCTATTCCTACTCAGCAGTCAGAAACCTGAGCTCTATAC
ATTTGAGAACAACCTGGTCTATATCCTGGTCTGTATGGTGACTTCCAGACCAGTCAGGGCTCAGCTCACAGTGCTTTTACATCAAAAAAAAAAA
AAAAGAAAAGTCCTATAGCTTTTAATCTGACATTAGGTCTATGATTTTGTTTTAATATTTTGATTAAATTTATATTTTGTGTGTATGGGTGTTT
GCATACATGTATGTTTATGTACCACATGCCTGGTGCTCACAGAGGTTAGAAGATCCCCTGGGACTGGAGTTATATACAGTTGTTGCCATGTGGC
TGCTGAAAATTGAACCCAGGTGCTCTGGGAGATCAGCCAGTGTTTTTAACCCCTGAACCATCTCTCCAGCCCTGCTTGATATATATATATATAT
TATGTTATTTTTATTTGTGGTATGAGAATGGGATCCAACTTCATCTTTTTTTCTTTTTTAACTTTGGCTTGTTTGTTTCTTTTTTCAAAATAAA
GTTTCTTTGTGAAGACCCGGTCGTCCTGGAACTCACCATGTAGACCAGGCTGGACTCCAACTTAAAAGAGATCCATCTGCCTCTGCCACGTGCT
GGAATTTAAAGCTTGTACCACCACCACCCACCTCCAACTTCATTCTTTTTTTTATTTTCATTTTTATTTTTCTTTTTAGTATAGAATAGAGT
TTATTTAGGGCATGGGGAGGGGAGCTAAGAGAGTAGTAGAGGCAGAGAAAGGCGGAGAGAAGGAGAGAGTAGAGAAGTGGAGGCCAGCCATGAC
CACGTGGAGAGAGGGGGGACAAGGGGACAAGAGGCAAGAGCATAAGCAAGCAAAGCTCCAACTTCATTCTTTACTGTGTTGAAATGCAGTTATT
CAAACAGCGTTTGTTATAAAGAGTATTGTTCCTTCTTGAATGGCCTTAGCTCACTCATTGAAAATCACCTGGCTTTGTATGTTTGCATTGATGA
ACATATAGGCTGTTTGCTCCATTCCACTGGTCACTGAGTATTATCATAGCAGTGTCATGCAGTTTTCCTGTCTATAGCTTTGTCCTGTGTTTTT
TTTTTAAACTCAAAGTTGCTTTGGTATCTGAGGCCGTTTATGTATGTTATCATATGTATGTTAGGATCCACTGGTAATGTCCGTTTTTTTTAGAC
TTATTATTTTTAGTGTGTACGAGTATTTTGCCTACATGTGTGTATGTGTACCATGTGTGTTCTTGGTGCTCACAGAGATCAAAAGAGAACATTG
GATCTGCTGGAACTAGAGTTATAGATAGTGGTGAGCTGCCATGTGGTACTGGAAACTGAACCCAGGTCCTCTGGAAAAGCAGCCAGTGCTCTCG
ATTCCTAAACCATCTCTTCAGCTCCCAGTTGGATAAAATCTTGGAGATCTTAGGGACTGTGTGGGAGAAGGGGGGGGGGAGAAGAAGGGGGAAG
AAGGAGAAGGGGAAGGAAGAGGGAGAGGAGGAAGAAGAGGAGGAGGAAGATGAGGAGGAAGGGAAAGAGGAGGAAGAGAAAGAAAAGGAGGAGG
AAGAGGAGGAAGAGGAGGGAGAGGAGAAAGGGGAGAGGAGGAAGCAGGAGAAAGAAGAGAGGAGAAGGAGGAAGAGGNNNNN
NNNNNNNNNNNNNNNNNN

CTCAGGTGTCTGTCTCTGTGTGGGTGTGACCATGTACACGGTACAGGCGTGTGTGCATATGTATATGCATTGAGCATGCATGTGTGAATGGGTG
CCTGTGTGTATACAAGGCAAGTGTTTGCTCATATCTAATCCCAAAACCATCTGCCCTGTGTCAGCCTAAAACTCAGGATGCTAACCTGAGCGTG
AGGAAGCTCTAGCCCTTGAATGCAGAACGAGGTCCTAGAGGGCTCTGCTCTTGCACCCAAAAGTAGCAGGGAGCGACCTACCTACCTACTCGGG
ATCAGAAAGCATTTGAAGAATTTTGAGTACAGGATGATTGTGAACCGTTTATATCCCTTGAGGCAAGCCTCAGACACTTGGAGGCAGGTACTAG
GTGACTCCCCTGTATTGACCTCTGGCAAGATGAAATGGGTGGGGTGGTTGCAGGGCCAGCCTGGGCCAGAGGTAGGGGTCACAGGACGAAGGTC
AATAAAACAGCTGGTCAGGCTGGAAGGGGACAAGTGGGAGGCTCACAGGATTGGGGGGTGGGGGCAGAGTCCAGGAAGCAGGTTATTAAACACT
ATGTGTCCTTGTGAGGGGACAGCTTTCTTTTGGCTGTGTGTGACATTTGCATGTAAGACATAAAGGCACATGGTCTGGAGCCCACAGCCATGGA
AACTGGGGTCTCTACCTGCCTGTGTACGGGGGTGGCTGTGCCTGGAGTCCTCAGAAGCTCCTAGCTGGCTTCCCTATGAGGGAGGAGCATCTTC
TACCCACCTTGCAACACTCCACCCCACTTGGGGGTGGTCTCCCCAAGTCCCTAAGGACTCCTGGGGGCTCACTGCTTGTACAGGCAACCTTTAT
TCACTGCGAAGTCTTCATTTGGGCCTTGCTGGCCTGGACAGTGTCTCCAGCCAGAGCATCTTACCTCGTGTTGGGTGTGGTCCCTTCCTCCAGC
CTGTGACATACCTCCAGGCCAGCCATACCCTCAACCCATAGTGGCTGGACTTTGTTGGGTCCCCCAAACCTCTGCCACAACTATTAGCAGAGTT
GGTTGCTTTTGAACATCAGACTCTCAGTATCTGCTGAACTCACCCCAAGCCCTACTTGGCTTCTGGGCAGGGAACAACAGCTTGGCCTCTTCCC
CTCCCCCAGGCAAAACCCCTTCCTGATGACTGGCCTCAGCTTCGTGGCTCCTCAGGGGGTGGTCCTCCACCTCTCTGTGTGCTCAGCCTATGGA
AGGATCGACTCCAATGAGACTAGCCTGCAAGACAGCCGGAGCTTAGGGGTTCCGGAGGGACAGAAAGGGCAGCTTTTTAGGGAAGCAGAGTCCC
CAAATCCAGGTTGCGACCCCTGACCCCCCCATCCGAAAGTGTTACCATTTACGATGCGTTGGGGGTGGGGGGGCTCCCCTGGCTCCGGGGGCCT
CTCCGGTATATCATTAACTCTCCGCTGTGGGAGGGGGACCCCGGCCGATATCCCACTGCGCTCGGCTCGGAGCACAATGTCCCTGCGAGGACG
ACAAGATTAAGCACAAGGGAAAAGTGAAAATGCTGTTGGCGATTCACACGCCCTTCGGGGTGTTGAATTAAAGCGTCTGAAAGAGGATTTCCCC
TCGCGCCCGACGGCGCGGCGGGCAGCGCATACTTCCAGGTTGCTATGACTGGCCGGCGATCGCCTAATCACCGGCCAGGGGGAAATTCATATAA
AATATCGCTGGCCATTGTGGGGCTAACGCGGCGTGACAGTGTCGCACAAAGCCGGATTCATCAGCCCCAGCAGGTCAGCCAGGCGCCCGGCCGC
GCGGGCCCGGGCGGTGTCAGGGGCCGCGGCCACGGTGGGGCACCGGCGCATTCCGCTCTCAGGTGGCTCCGGGGCCTTTTGTGCCTCCGTGTGA
TTACCAAATGCCACCGCGACACCCCCTCCGGCCGCCCGGCTCCTCGAGGCCAGGAAAAGGGCCTGGGGAAGGAGGGACGGTGGGCAGCCTTGG
AGGGGAGGCGCCAGGGCGGGGCCTGGGCTGCAAGCTACCAGCTGGGGCTGCTCGGTTCTCTCGTCTGCCCTCTGCCTGCTGTGCTGAACACGGG
TGGGGGAAGGGATGCCCACCCACTGAATGTGTTATGGAAGCACTTTCAGACATCGGGATGGGAATGGGATAGATAGATGGTTTGTCTTTCCTCA
GCGTGACAGGAGAGTGACACTCCCAAGGGAGGTGATGCCCCATGACCTGCAGGCTCTGGCCAGTCTGAGCAATTATGGCTATGCCATAGTTGGG
CCTTCTTCCCACCAGTGGTCGGATAGTGATCTCCCAGTTGGAGTCTGGAAATTGAGAGGACAGAGACCATCTGGAGGTTGTTGCCTGACAAACT
CAGCCCAGGCTGCCAACCCTAAGCCTTCTGTGGTCTCCAGGAGGGTGTGGTGGATGTAATGTGCAGACATAGGTAAGGGTGAACCTTCTGTCTG
CTGGGATTCCCTGGTTCTAGTCCTGTGCAGGGAAGCTTCAACAGAGATAGAGGGTCCTAAATAAACGCATACATAGCATATGATCCTAAAGGTT
CATGCACCAAACTTTGGTGCACCCAATTTCAAAAATAAATAAATAAATAAATAAAAATATAAAANNNNNNNNNNNNNNNNNCCAATT
TAAAAATAATAATAATAAAAATATAAAAATAAAAATAAAAATAAAAAGGTACTACTGGATTTAAAGGCACAGATTAACCTCAACTCATTAATAG
TAGGCAATTTCAATAAGCCCACACACACATGCACACACGGACACGCACACAGCTCGTACCTGGTTCTGGAGAGTAGACACCTTCCATATGATTC
ATTTCACTTCTAGTTCTGAGCCTAGTGCCTAGCTCATTATGGACTCTCATATTCTGGATAGGTGATGGACGGATGGACAGATGAATGGATGAGT
GGGTGGATGGATGATAAATGGGTAGTAGATGGATAATGAGTGCGTGATAGATGGACAGTAGACAGATAATTGAGTGGGTGGTATTTTGGTGGAG
GATGGGCGTATGATAAATAATGAACTAGATGAAGGGAAAGGAAGGAAGCCCAGATAGTGATACTTTCCTTAAACCCAGTAAGAGCGCAGCAAAG
CTGAGATTGTTTCTGCAGGGGGACTTTGCTCCCCACCTCCCAGGATCTGGGTGAAGAGACAGTGGCCTCAATTCATAATCCTCCCACGTCAGCC
TTCCTGGTGCTGGAATTACAGGCCTGAGCCATGACACCGTTTTTGGAATTTGCTTCTTTTATAGAACAACTTCTTCAGGTAGTTTCTTTTCTTT
ATCTTTACCTGTATCTGATAAATAGACAGTATCTCCAGCCCTCCAAAAGCTCTTCTTAGCTCTGCCCCCCAGATGACTGGCCCAGATGGGCAACA
CTAGTCTGTAAGAGTCCTGTGCTCAGGCACCCACCCCCTCCTCATTTGATGATCAATAGCCATTTGAAGGGTCTGATGTCATGCACTTGTTTTC
TGGAGGGAGGTGTGCTCTTGGAAGCCCTCACCTTTATGCTGGCCATTTCTGCTGAGTCAACAGAAACTGAAAGGTGCTGTGTGTGCCAGGAACT
TTGCTGTGGTGTGCCCCATTCCCATTCACTCTCTGCAAAAGAGATAGCTCTGGGAGAGTGCTTCATAGCTCTGGTAGAGTGGTTCATTCACCAT
GGTTGTCCTAAAACCCTATGGGACTCTGATGGAAGCAAAGGGTTTCCTCTCTGAGAAAATGTGTTTGTTCCCAAGATCCACGTTTTGCCTCTGA
CTCCTGGGTAGACCCAATCTTGTTGGATTAAAATCCCTGCCATCCTAGGATGTCACCTAAACATTCTGGAGCCTTTCCTTTCTAGGTCTCCTGC
AGACATGTTCTCAGTTATTATTAAGTATCTTAAGTATAGCGAAGCATTGCAGGAATGGTGTGGAATCTCAGGTCCCTGTCTTCCTCTCCACACA
CACAGCCTTGCACACTGCTGTGGTACATGGTAATTGATCATGAAAGCCAACCTGACTTGGATAACCCAGGTCTTTGTGCCTCCATGTCCCTTGA
GTTCCACCATCCTTCCCTTTTGTACTGCCCAAATCATCACCATTTATAGGAAGGACCTTAATCTGGCTTTAGCAGCTGCCTCCAATTCATTTAA
GTAGAGACTATACATTTTTAGCAAGAAAACATTGAAAACGATACAATCTTTCCTAGGAGGTAGATGGTATCTATTCACTGCTAGGAATGTGAAC
TCCACTCCTTGCATAGTGTGTGATGGTGATATCTTGGGAGGTGGGGTTGGGGTGGGGAACTGCTTAAGACTTTTGGCTGCAGCTTGCCTCCATC
CTTCTTTTCCAAGCATGTTCCATTTCACATTCACCTAGCCAAATGTGGGTTTGCAGCCCACAGTTCCTCCCCTGGCTTCTCAGATGGAGTTTCT
GGACTACTTGGACTTTCTTACTTCTGGCCTTTATTTCTTCCCCAGCCTGTTGAAAGCCAGCTCCAGAACTTGCCCTGCCTTGACTTGATCGGGA
GCCCCCACCTCCTCATTTGACAGTAGAGGAAACTGAGGTTCAACAGAAAGGGAGGACTTCCCAGCCTGCTGGTGACAGAGCTGAGCAAGAATGA
ACTCTTGCCTACTTCAAGTTCTATGTTGTTCTCTCCTTCTCCCAAGGACCCTTCCCCTCGAGTGTGCCTACCAGCTCCAGGCTGTTTGCGTGTG
TCTTGATAAGCAGGGAGCCTGAAGGCCTTGTTCTGGGCAGGGCAAGGCCTAGAGTGCTGGGCCCCCTTATCTTTTGGAGCCAAGAAGGATGGGG
GAGGAGCGTTTGGGTGACACTTGAGCTGGATAAGGTAACCAAGGCTGCCTTGAGACTTGGAATGTGAGGGTGTAGGCAGAGAAGTAGACTTCTG
AGTCGCACCCAAGAGAAGGTAGCTCAAGGCCTCTGGCCCCAGACTCAGGTTCTATGCAGAAAGAAAGAAGACTGGAGTCTTAGGGGCACGAGGA
GGAGTGCCTTGGCTCCTTCAAAGATCAAATAGGGGTTAGAGATGTAGCTCAGTTGGAAGAATCTTTGCCTGGCATGGACAAAATCCCCAGGTTT
CATTTCCAACACTACGCAAAGCTAGGCGTGGTAGCACACAGCTGTAATGTTAACACCTGGTGGAGTTCAAGGTCCTTCTAGGCTACACAGTAAG
CTCCAGGCAAGCTTGGGCTGAAGTCCCTGCCAAAAAGAAAACAAGAAAGAAAAAAGAAAAATGACGGCTCGAAGGGGTAGCCTGTGCTCTGGAA
TGGAAATAAACAGTGAACAAGATGCAGATCCCACCCGTGGGGAGGATCTGGACTGGAAGTGGATTCCAGAAGACAAGTCTTCCCGAGGAATAGG
CACAGCTGACATGTTGGGTAGATAGTGCCCAGGACCTTGGCTGCCATGCTACAGAGTGAAGCTGGTAACACTGAGGCTGGGGTAGAGCTTGAGC
CCAGGGAAGAATGAAGGCTGAGTGTGACCAGAGGCCAGTGAGTGCTGAGAAGAGGAGGAAGACAAGGCTGGCGGCAGGAAACCTTTAGAGAACT
TTAGGAAGGCTGTGTATCACACTGGCTCTGGGCACGGAGCTGGGCCTGCAGTGGGTGGCTGTGTGCTTGGCCAGTGGAGGCTACTGAATACTGG
GTGACAGTTCAATTGAGAGCTTCTCTGTGGTTCTGGTAGTTCCTTGTCCATCGTAATGTGGGAAGAGTGGGAAGCAGCTGGACTCCTAGATACC
TGCAGAAGTTGTCCAGGCTCTGACAGTGCCCCAGGTTGCGGGCAGAACAGCTGGAGTCTGCTCAGAGATGAGAGTAAATGTGTGTTCTTTGATT
CTATGTGTGGACGCTGACTGAACTTTGTGGGTCAGTCTGAGTGTGAGTGTAGTTGTTTGCAGTTTCTCTGTCCCTGTTTGGGCTTTGGGACACA
CAGAGTCCCGAGAGTCTAACCTCTTAGATGCAGCTTGAGGAAATATGGAAAGCTAGTGTGTGCAGGAGGGGTGAAGAGGCCACAACTTTTTATG
AAAAGTCTCACAATCCCAAGAGGGTCACCCGGCCCAAGAAATCCTGCGCAGGCAGGCCTGCGAGGCTTTCTGTCTGGAATGGTTTCTAGCCGGG
TGTGTAAAATCTCTGCTAGTCAACAAGTCAGATTTGTATCCATCTTACTCAGAACACCGTGCTTATCATACAGCAAGCACTTGGCACACCTTTA
TCTGGTGTCAAGTAGACGAGGGAGTGTCTTCTCTTAGGAAGAAACTCCTATGCACAATTGGTGTGTGTGTGGTGGGGGGTGTGAATCAATGCAA
CCACTATAGAAATGTTTGTGGATTCTTAAAAAATGAAAAATGGAACTACCACAAGACTCTATTTCACTTCTGGACCTATATCCAGAGAACTCTA
TACTCTATCATAAGGATATTTGTACCTCCGTGTATAATGCTGCTTTATTCACTATAGCAAAGAATTGGAATTAACCTAGTTGTCCATTAGCAGA
TGAATCGATAGTGAACATTTTGCATATATATATAAAAATGGATACTATTCATCTCTTGATTTATTTTTTGCTGCCTTTTGTAGTCAATATTATATT
TCGTTATCACAATATTATCATTTCAAGATCCGTCCACATGATTTGCCCTCTCAATCTGAGGCCCCTGGTCTAGACCTACAGTGGATGCCTACTG
CCGGGAATAATGCAAAGTCTGGACTGTTGTTTTTCCTGTTTATGCAGACCGGTGATAAAATATCAGATATGTTAGACACAGTCAGATTTAATGA
CCAATCTCCAAACAGAACAGTTACAGTACAGCTGTGGTANNNNNNNNNNNNNNNNNNNNNCTAGTCTACTTGGCTTGCAGCAAGCTAGGTAGTTC

TGGGACCTTAATGTAGTCCTCCTTGGGACTCTCCAGGAAGACAGAAGGGATAGAGTGAATCACTCTCCATACAAAAAGGATTTAGTAGAGTGGC
TTACAAGCTGTGATCTGGATAGTACAATGGCTGTCTTCCAACAGAAAGCTCAAGAATCCGGTGTTGTCCATAGACTGGATGTCTCAGCAGCTCT
TCAGTATACACTGGAATCCCAAGAAATGGGCTCTAAACTCAGTGAAGGAATAAACTTACCAGGGAGAGTGAGGGCAAGCAGGCCAAAAGCAGAG
GTGCTTCCATGTCCTTTGCATAGGCTGTCACCAGCAGGCATGGCCCAGATTTAGGGTAGGTTTTCTGACCTCAAATGATCCAATCAAGAAAAAT
CCCTCTCAGTGTGTGCTTTGCACACCGTTGATCCCATCGCTCAGGAGGCAGAGACAGGCAGATCTCTGTGTGACCTAAGGTAGCTTGGTCTACA
TAGTGAGTTGCAGGCCAGCCAGGGCTATGTAAAGGCTCTGTCTTAAAGCAAAAAAGCCAGACAATGTTGACACACACCTTTAATTCGAGCACTT
GGGAGGCAGAGACAGGCAGATCTCTGAGTTCAAGGACAACCAGAGCTACATAGAGAAACCCTGACTCAAAACAAAAACAAACAAATCCCTCACA
GACATACCCTGCAGGTTCCCCTTTAATTAACTCTAGATATACTCAAGTTGACAACCAAGAATAGCTGTCCTGGTTGGACTTGAACTCAAAGCAA
TCCTCTTGCCTCAGTTTTCCACATGCAGGTATTACAGGTGTGTAACATAAGTTCTGGTTTAAAAATCTCTCGTTACCTTAATTTTTAATGTTTA
TTTATAGATCTAATTTTATGTCAAAGATCTAATTTTCCTTTTGTTGTTCTGAGATGGGGTATCATGTAGCACAGGTTAGCCTTGAGCTGTCTCA
AGCTAAAGATGAACCTGAAGCTCTGCTCTTCAGCTTCCACCTCTGGAGTGATGGGATTTCATTATAGGCCTTCACAAGCTCACTTCAGGCAGGG
CTGGGGTTTGATCTCTATTCCTTTGGCATGTCTCTACCCATTGAGCCATATCCCTAGCACACTCATTTTATTTGTTTTTTTGAGACAGCCTCAT
GTAGCCCAAGCTGGCCTCTATGACCTTGAATTTTTTATCTTCCCGCTTCCTCCTCCCTGATGCTGGAATTACAGAGTGTACAGCTATGCCCCAG
TTCATGTGCTGCCAGGGATGTGAACACAGGGCTCCATTCATGCCAGGCAAGCACGCTAGCAGCTGAGCTGCACCCAAGGCCCTACTTCTGTTAG
CATAATTGTAAGTATTTTTAAGGTGCTGTGCAATATTTCAGTATAGGATTATGTTTTTTAAATGACCCAATAAGGGTTCTTAACATGTCCATCA
AGAACATTCAAAATCCTTTTCAAGTGATTTTTAAAAATACGATCACTTGTCCACTGTCCTCACATGACTGTTCAGTGGCACACCAAGACCCCTT
AACCATCATCTGAAATTCAGACCCACTGATCATCTTCCCTCCACCACCGTCCCAGGCCCTGCCTCCGTAAGTAACCCATTCCACTTCCTGCTAG
GAACGGAGTGCTTTTAGATTCCACACCTGAATTAGAACATGAAGTTCTTGTCTTCCTGTGCCTGGCTCATTCACTTATGTCCTCTGGGTCTGTC
AATCCTGCTGCAAGTGACAGGGTCTCATTCTTTTGTAGTGTAGCCTTGGCTGCCCTGGAACTCACTCTGGAGACCAGGCTGGCCTCAAACTCAG
AAATCCACCTACCTCTGCCTCCCAAGTGCTGGAATTAAAGGCATGCACCACCACTGCCTGGCTAGGGTCTCGTTCTTATTTATGACTAAATAAC
ATTTCGCTGTGCACACTACAGAGCTATCGTAACAAAGCACATACATACAGTGCTGGCATAAAGGGACACACACAAGCTGACGACTCAGGACAGC
AGTTCGAGAGCTAACTCCACATAGTCCCGCCCAATTGTTTTTTCAGCAAAAGGTATGAACGTACATTGGAGAAAAAAGTCTCTCTGACGAATGG
AGCTGGGAAATTGGATATCTCTATCTACGTAAGAACAAATTCAGTCCCTCCTGTTTCCTATGCACAAAACCCAACTCCGTGTAAGACCTGAAAC
TACTGGGACAAAAAGCATAGGCCTGGGCATGGTGATGATGCCTTTGATCCCTTTTGTGAGTTCGAGGCCAGGCTGGTCTGCATAGAGCATCCCA
GGCCAGCTTGAGAGATAGAATGATTCCCTACCTCAATAACAACAACAACAACAGCAACAACAACACACACACACACACACACACACAC
ACACACACACACACACACACACACACACTCACTCACTCACTTAGGAAAAACACTTGGGTCATTTGGGTCAATATTCTTCATAAAAGATCCTCAGAA
GAGCAGTGGTGAGACCCTGTGAGCACTGAGTTCTCCTCTCTTGGCCCTGGTTTTGGATTCCTGCCTTTTGGACTACAACCCTCCTCACCTGGCC
TCCATAACCCCCTATCTCCTTCCTCTGCAGCCACCCGGGAGTCAGCCTTTGTCCATGCCATCGCCTCCGCTGGAGTAGCTTTCGCAGTGACACG
CTCCTGTGCAGAGGGATCAGCTGCTATCTGTGGGTGCAGCAGCCGCCTCCAGGGCTCCCCAGGCGAGGGCTGGAAGTGGGGCGGCTGTAGTGAG
GACATTGAATTTGGAGGAATGGTCTCTCGGGAGTTTGCCGATGCCAGGGAGAACCGGCCGGATGCCCGCTCTGCCATGAACCGTCACAACAATG
AGGCTGGGCGCCAGGTATGTGCACAGAAGCCCAGGGCTGTAGAGCAAGGGCTGCTTTTTCACCGGGATGTCCAGTGGGGCAGGACAAGGGGTAG
AGGGGAGGTGCTCTTGGTGACCAGGCTGCTCTGCTTGCCTTCTATCAAGGGACATTGTGCCCAGCTGTACCTCAAGTGTCCAGTGTGCTCCCAG
AGAATGCCAGACTCACCTGTGGACATAGGGTTCCTGGAAGTAGACAGGTGGCAGAAGTAGCTGCAGAGCACATAGTCTCTGAGGATTCCGCGAT
GAGGAGATGTCCATGAGAGGACAAGACGTGAAGGGAGGAGAAGAGGGATGGAGGGCAGACACGTATAGTAGGTACAGATTGAACTGAGATAGAG
GGTTAGAGTGATAGAGATGATTGATACAGGCTACTGAAACAGACGAGAGGGTGAGAGAGGGGAGGGGAGAGAGAGGCAGACAGACAGACAC
AGACAGACAGAGAGAGAGGAGAGAGACAGAGACAGACAAATAGAGAGATAGAGAGATACAGAGAGATAGAAAGAGACAGTCAGGCAGACAGAGA
GAGAGAGAAGGGAGACAGAGATAGACAGAAAGACAGAGACAGACACAGAGAGACAGACAAAGATATAGGAAGACAGAGAGAGAGGAGGGAGAGA
GACAGAGACAGAAAGACAGACAGAGAAAGGCAGACAGAGAGACACTCACAGAGAGAGATTATCACAAGGATCTGGAAATACAGAAGGGAGCCAT
GCTAACAGAACACTGTTGAAGGTTCCCTCCCTCTGACCAGGTTATACCTGGATCTCAGGAGCTAACACTGGGATTTCAGGAGAAGCAAAGGTCT
GAACTTTCATGCACAGACAGTGTTTTACCACAGCAGCTCATCTTCAAATACGCTTAGCCTCCCTCACCCAGAGAGCCCTGCTTCCCTTCTCTGA
GAGTCCAGATAGGTAGTGCTCAGCAGCATAGCAGAGCCAAGAACTGAGTAATGGGCTGGAGAGCGACCTCGAACCACTCAGGAATGCATATCAT
CAGGTGTCAGGTATGGAGAGAAACAGAGCTGACTGTGGGGGTCAAAACAGAGAGACTTCTTCACAGTGTATTTTAAAGGCATTTTAAGCTAGGT
ATGATGGTGCAGGCCTGTAATCCGGACGCACAACAAAGGCAGGGCAGGAGGATGAGAAGTTCAAAGTCAACCTCACTATGTGTTTGAAGCCAGT
CTCATACTTAAGACCTAGTCTCAAAAATAAAGAAGAGAAAGAAAAGGAAAGAAAAGGAAAGGAAAGGAAAGGAAAGGAAAGNNN
NNNNNNNNNNNNNNNNNGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGATACTGTAGCCAGGCACCTGCCTATCTTTCTCTGTAGCAGACATTCA
GAGATGTGCTTTTCTGAGGACAAACTGTCACAGTGAAACTTACTTCCATACATAACGAACTTCAGACCTTTGACCTCTTCCTAAAGCCCAACAC
TAGCTCAAAGGCTCTGACCCTTCAGACAAAGAACAGGATACTCTCTCTGGAAAACCCAGCTCTTCCAGCATGAACAGAGGGGTGCCTAGAACAG
GGATCACTTTACAGTGAGTGTGTTGGGAGTGACAACTGCCTCCCACCTGCAGGAATTTCCAGAAAGCAATGTGGGGTGCAGGGGTAGTGGTGCA
AGTCTTTAATCTTAGCACTCCAGAGGCAGACTAGTGGTTTTCTGGGTTCAAGGCCAGCCTGGCCTATCTAGAGAGTTCTAGGACAGCCAGGATC
TCTGAATTTGAGTCTAGCCTGGTCTACAGAATGAGTTCCAGGACAGCTGGGCACAAATTTAATAATGTAAATACATAATAACAACATTTCATCA
GGAGTTTTGAAGGGTATGTTCACGAGAGACAAGGGAGGACATGAGGAGAAAGGCAAAGACATAAGGCAGGAGCTTTCCTAGAACTGATGTTTTA
GACCACACAGGCCGGACTGCAAGGATGGGGATAGAGAGAGAGATGACTTGGGTCAAGAGCTCTTGATGTGCTTTTTAGAGGAACAGCATTTGGT
TCTCAGCATCTACACCAAGGGACTCATAACTGATTGTAACTCCAGCTCCTGCTACCTTCTGGCACATGCACACACATGGCAGCACCTTAACACA
CACACACACACACATAAAACATTTTTAATCTACAAAAATAGGGAAGCCATCTTCCCCAAGATGTATTATGAAATTCAGAGCACAACCTAAAGAA
ACCCTCCAACCTTCAAAGAGACCACTTGATGTCCCTGCAAAGGTTGAGGGTGGGAGGAGGAGAGCAACAAGAGCATCATTGGAAGCTAGAAGAA
ATTTGAGCAACACTTTGGGATTCCGAGTGATAAAACGATTTTAATCCAAGAATTTTATTCCCAGCCAGAGTATGAAAGATTTGCTTTTCTACTA
CATTAGAAAAGGTTTGACTTTAGACAGTATCATTTCCCAAGGTTTACCAGGTGGCTGTGAGTACGTAGGGGTGTGTGTGTGTGTGTGTGTGT
GTGTGTGTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNGTTTCTCTGTATAGCCCTGGCTGTCCTGGAACTCACTCTGTAGACCAGGCTGGCCTCGAACTCATAAATCTGCCTGC
CTCTGCCTCCCAAGTGCTGGGATTAAAGGCGTGCGCCACCACCGCCCTGCAAAAGTTGCTTTTCTTATTTGACCATGGACTTCCTGTGATAGGA
CACGGGTAACTAGCTTAGTGGTAGATCTTTACCCACTGAGCCACCTTACCATCCCTTTAAAATTTTTTTTCTTTTTTGAGACAAGGTTTCATG
TCTTCCAAGCTGACTTGAATTTTCAATGTAGCCATCTTCCAACCTCTTGCTTCCACCTCCCAAGTGCTGGGACTGCAGACATGTACTACCACTT
TTAGCTTATGAGATGCTGGGGATCCAGTCCAGGCCTCCATGCCCAGCACGCAGGGACCCCATCAACTGAGCTTCATCTCCAACCCTGGCGATTG
GACATCTTAAAGATTGGATTGCTTAGAGAGGAGAAAATACAGGGCTGACCCATAACGAGTGTGTTAATCACATAACAGAAAGTTGTATGGGAAA
GGAAATGTCACCTTAGAGTAAGCCTGCTAACACAGCCAGAACCGTGGGCAGTGAGTACTGAAGGGAGAGATCACGCTACTGTTTTCAGGGCGGG
AACGGGGAGGGTTTGGCTGTATAGTGGGAGGTAAGAGGGCGTAATAATTTTCACACTTCATGGTAAGAAAGCAACAGAAAATACCTCCCATTCA
AAAATCAAGACACAGCAAGACAAGTGCTGTGACAGCCCGCATACCACAAGGCACTTCCTTGCGTGGTCAGGAAACACACCACACAGGCAAGCAC
CGGCCCCATCCCTGTTTTAACAGCAGGTCTCAGTGGCTATTGAGATTCTTGACCAAGTAAAACAAAACCAAGAGAGACTGAAAAAGGAGAGATG

GCAAGAGTCTCCTCTCAGAAAGCCTGGCTGCAAGAGAGAGGGATGTGGGCGCTGGACTAGCTGGATAAGCCAGGCATGGTGTTATTCTTCCATG
CCCATGGGCCAGTTTGATAGGCAGGAAGGGTAAAGAAGCAGTGGAAAGTCAGGTGAGGTGCAAGCAGGGCCGAAGCCAGAATGATCAGAGCATT
AAGCCCATGCTGTCCAATATGAATCCTTGCAAGCCACAACCTGAGCTGCTTGGATAGTTACTAGCTCTCAGGTAGTTATAGTGAAAGGATAGCT
AGAGCTGGACGGTGGTGGCACTTGCCTTTCATCCCAGCACTCTGAGACAGAGGCAGGTGGATCTCAGTGAGTTAGAGGCCAGTGGTCTACAAAG
TTCTGAGACAGCCAGGGCTGTTACACAGGGAGACCCTGTCTTGAAAAACAAAACAACAAAAAAGAATACACTGAGAGTTTGGAGAGATGGCTCA
GTGGTTAAGAGCACTGACTGATCTTCCAGAGGTCCTGAGTTCAATTCCCAGCAACCACATGGTGGCTCACAACCATCTGTAATGGGATCTGATG
CCTACTTCTGGTGTGTCTGAAGTCAGCTACAGTGAACTCATATACATAGAATAAAAAAAATCTTTTTAAAAAAAGAATACACAGTTAAAATACA
CTTGGAGTCCTTTGAAAGGCAGTCTTACGGTGTAGCTCAGACTGGCCTCCAGCCCTCAGTACCCCAGCCTTAGCATCTCCAGTGCCACTGTGAT
TGTTCATAGTCATGCTCCTCCAGCACGCTGGGCTGGCTTTGATCTTTCATCACTCTCTCCTCCTTCTGTCCATTTTATGACAAATGACCTGTCA
CCATAGGGAAGGCAGTGGCCAGTGACACGTGGATATAACCCATGTCTCAGACTCATGGTAGTTTTACAGAGCAGGTGGGAAGCAGGCAAGGTCC
TTGAGAAGGAAGCTTCTAGCAACCTAATAGTTTCCTGCCTCGGTTTAAAATGTTTTAGCTGTCATGGTAATGGAACAGACTTACTGGGTAAAAT
GAGACCTTCAATATGTGAACATAATGCACTGTGGCCAAGCAGGCTAGGAAGCATCCTTATCGCCTGAAAAATCATTTCAACTAGGCATGATGAT
GCTTATCTGCCATTCCAGCACTTGGAGGCACAGACAGGAGAACTGCCACAAGTTCAAGGCTAGCCTGGGCTATGTCACTGAGTTCCAGACCATC
CAGGGGCTACATAGTGAGAACCTGTCTCAAAATGAATTTTTTTTTCTGTTTGAATGTTCAAAACCTACTCGTCATTTTGAAGCAGTACTTTGTC
TACTGTGGTGGACGCTTTGTGCTATAGAATACCAACAGATATCTATTCCTCCCTTCCAATGATGACCTCTTCAAGCTCCTACTACTTCTTAGCA
TTGCCACACTTGGGACCCAGCATCCAGCATGAGAACCTTGGCCACAGCCAGATCTAAACAATAGCTAACCCCATGGCCAGCTTGTTATTTCAGT
AGTGCAGTGGATGTTGAAATTATGAATGCAGTATCCTGCATGTGTTTCCTACTTTGGGGCTTAAAAGACTCAGTGTGTGCTTTGCACATAACGG
TGCTTGTTGGAATGTAAGAGGAAAGACACCAGGAGCTGTCCAGAGCAGATGCTTACAGCCTGGGCAGGAAGGCTACATGTCTGGAGCAGAGGAA
CTGGGATGGTCCCTGTGGTGGAGGGGGCTTGGAATCTGAGGGCAATGGACAAGGCCCCCTTGTCCCCACGCATTTCCCTACAGAAAAGGAGGTA
GGAGTCCCTACTTCTTGAAACACCTATTTCCTTCCCTGTAAAGGGAGCAAGGTCTACATTGTTCATAGGGAAAGCTGCTGTCCATCCCGGCCCT
GTGAGTATAGGGAGCACTCTAAGCAGCCCAGCTCAGTCTTCACACCGTAGCATCTGCTCTCCACATTGTCCCTCCAGCATCCCCAACCTGAAGC
TCCTTGCTTCCTGTACTCCGTCCTAGACACTCCTGCAAAGAGAATTAGCTAGACCCACAGGGAGAAAGCAGCTCCCAGGCTCCTGAGGGCTTGG
ATCTGGCAGAGAAGACCCAGGTCACCATAGAGAAGATAGTAGCACTAGGTGACCAAAGAGAGGAGTCTGGGGGCGGGGGCTTATGGAGAAGGTG
GGCTGCAGAGAGCAGACCCCCTGGTTGAGCCGCGCTAGGGACCAGTGCAGACACACTTCTGTGCTTGCCTCCTCAGGCCATCGCCAGTCACATG
CACCTCAAGTGCAAATGCCACGGGCTATCTGGCAGCTGTGAAGTGAAGACCTGCTGGTGGTCGCAGCCGGACTTCCGCACCATCGGGGATTTCC
TCAAGGACAAGTATGACAGCGCCTCGGAGATGGTGGTAGAGAAACACCGAGAGTCTCGTGGCTGGGTGGAGACCCTGAGGCCACGTTACACGTA
CTTCAAGGTGCCGACAGAGCGCGACCTGGTCTACTACGAGGCCTCACCCAACTTCTGCGAGCCTAACCCCGAAACCGGCTCCTTCGGGACGCGT
GACCGCACCTGCAATGTGAGCTCGCATGGCATAGATGGGTGCGACCTGTTGTGCTGCGGGCGCGGGCATAACGCGCGCACTGAGCGACGGAGGG
AGAAATGCCACTGTGTTTTCCATTGGTGCTGCTACGTCAGCTGCCAGGAGTGCACACGTGTCTATGACGTGCACACCTGCAAGTAGGAGAGCTC
CTAACACGGGAGCAGGGTTCATTCCGAGGGGCAAGGTTCCTACCTGGGGGCGGGGTTCCTACTTGGAGGGGTCTCTTACTTGGGGACTCGGTTC
TTACTAGAGGGCGGAGATCCTACCTGTGAGGGTCTCATACCTAAGGACCCGGTTTCTGCCTTCAGCCTGGGCTCCTATTTGGGATCTGGGTTCC
TTTTTAGGGGAGAAGCTCCTGTCTGGGAGCCTCCTGCCCGAGGGTGGGGCTCCACTTGGGGATGGAATTCCAATTTGGGCCGGAAGTCCT
ACCTCAATGGCTTGGACTCCTCTCTTGACCCGACAGGGCTCAAATGGAGACAGGTAAGCTACTCCCTCAACTAGGTGGGGTTCGTGTGGATGGG
TGGGAGGGGAGAGATTAGGGTCCCTCCTCCCAGAGGCACTGCTCTATCTAGATACATGAGAGGGTGCTTCAGGGTGGGCCCTATTTGGGCTTGA
GGATCCAGTGGGGGCGGGGCTTCACCCCGACTGGGTGGAACTTTTGGAGATCCCCTTCCACTGGGGCAAGGCTTCACTGAAGACTCATGGGATG
GAGCTCCACGGAAGGAGGAGTTCCTGAGCGAGCCTGGGCTCTGAGCAGGCCATCCAGCTCCCATCTGGCCCCTTTCCAGTCCTGGTGTAAGGTT
CAACCTGCAAGCCTCATCTGCACAGAGCAGGATCTCCTGGCAGAATGAGGCATGGAGAAGAACTCAGGGGTGATACCAAGACCTAACAAACCCC
GTGCCTGGGTACCTCTTTTAAAGCTCTGCACCCCTTCTGCAAGGGCTTTCCTAGTCTCCTTGGCAGAGCTTTCCTGAGGAAGATTTGCAGTCCC
CCAGAGTTCAAGTGAACACCCATAGAACAGAACAGACTCTATCCTGAGTAGAGAGGGTTCTCTAGGAACCTCTATGGGGGCTGCTAGGAAGGAT
CCTGGGCATGACACCCTCCTACGATAGCCTGCATCCGCTCTGACACTTAATACTCAGATCTCCCGGGAAACCCAGCTCATCCGGTCCGTGATGT
CCATGCCCCAAATGCCTCAGAGATGTTGCCTCACTTTGAGTTGTATGAACTTCGGAGACATGGGGACACAGTCAAGCCGCAGAGCCAGGGTTGT
TTCAGGACCCATCTGATTCCCCAGAGCCTGCTGTTGAGGCAATGGTCACCAGATCCGTTGGCCACCAGCCTGTCCCGAGCTTCTCTAGTGTCTG
TCTGGCCTGGAAGTGAGGTGCTACATACAGGTCATCTGCCACAAGAGCTTCCTGATTGCTACCACTGTGAACCGTCCCTCCCCCCTCCAGACAG
GGGAGGGGATGTGGCCATACAGGAGTGTGCCTGGAGAGCGCGGAAAGAGGAAGAGAGGCTGCAAATGCGTGGTGACTGACTGTCTTCTGCCTGG
AACTTTGCGTTCGCGCTTGTAACTTTATTTTCAATGCTGCTATATCCACCCACCACTGGATTTAGACAAAAGTGATTTTCTTTTTTTTTCTTT
TCTTTCTATGAAAGAAATTATTTTAGTTTATAGTATGTTTGTTTCAAATAATGGGGAAAGTAAAAAGAGAGAAAAAAATAAGTTTGTGGTTTGT
TCTAGATTTTCCCTTTTATTAACAAGCATTAGGTGTGCATACTAATGGAGTTTGGTATGGAATTCTTCGATGATCCTCCCCACCCCCAAGGGTA
ATTCACACCTCCCTGTCCCTTATCACTTGTGGGTCTGCACTATGCTGAGAACCTAAACATGCCAACTCAGGTTCAGGGTCCCAGAGCCAAGTAG
AGACTGTCGACAAGCCTCCAGGGAGGGAGGTGGGGTCAGAATTCCAAGAAAAGAGAATTGAAATAGCTAAGTCAAGAAAAGAGCCGGTCAACTG
TAGAAAAATCTGGAACAGGGTAGATCTGAGAGCTTGAATAGAGGGGTGCAGGTGGGTTAAGTTTAAGCAAGTATGGGAGCGGGGTAAGCATACA
GTAGTTAGGATACTTTGGTAGTTCCAGTGAACAGATGAAAAGTCACAGGAGAAGAGGCTTAACCAAGACCCCCTCACACGCTGGGGATGCAGAG
GAGACGTGGAGCAGATCGCCTCCCTGTGACTTCATGTTCTCACAGCCCATTCCCCAGAATCATGTATTTAGGGTGGACAGCCCTTGGTATTTGA
GGACAGTGGCCTGGCTTGCTGCTGCTGGCTTCTTATGTGTAAAGTCAACAGATCTTAGACTTTAGTCCTCAGACCCTGTCACCAGGAATGTTTC
AGATTCTCACCCAAAGAAAGCAATGGGAGGGAGGGGTCTTTGCCTCAGGAGCTGCCATGTTCCCACTTGCTTTCACAGGGGCGCCAGGGCCTCA
GTCAAGACAGGCAAGGCTAATCATCCTGTTGGCAAACCAAATGATGGGGCAGGTGTCAGGGCGCCCTGGGAGTGAGGCTAGAGATCTCTCACAA
AGCCATACTTCTTTTAAGGCCACACATCTGCCCAAGCAAGCCTACCATGTCTCTGCTCCTCTCCCTGGTCCCCCATCTCCATCCCCATACTGTC
CCCACCTCTGAGTCCTATTCTGATGTCCAGATGTCAGGGCAAAGGATGCCCTGCAAAGCTGAGAGCAGCAGTCCCAGTCCTACCTCTCAAAACC
CAAGCTGAAGCCGAGTATAGCAGTGCACGCCTTTAATCCCAGCACTCGGGAGGCAGAGGCAGGTGGATCTCTGAGTTACAGGACAGCCTGGTCT
ACAGAGTGAGTTCCAGGACAGCCAGGGCTACACAGAGAAACCTTGTCTTGAAAAACCCCAAGAAATAAAAAAATTAAAATTAAAATTAAAAAAA
AACAGGGGGAAAAAAGCCCAAGTTGAGCACAGTCATTGTTCTTGTGTCCCATTTATATCCCAACCCAGATCCAAGTGATTTGAAAGCCAGTTAG
AAGATGGCCATAAGAATAAGCCTAGGAAGTGTCTTATGATGTCCAAGGTCCTTTAGCTGTCGTGATACATCATGACCTCATGAACCTTAGAACT
AGGAAACCCTGCTGGCCTCTAGAGGACCAAGGGAAAGGATCTGAAATATAGTCACTGTTGACATAGGGGAATGCTGGTTAGGACAACCAGGAAG
ATCATTAAGTGTCCTCTCAACCCTCCCAGGGGACAGTGGGACTGCCTGTCCCAGAAGAGGGGAAGATAATTCCCAGACCCTAAGAGCTGGGAAG
AGAGGCAGTGAAGTGAGAGGAGAAACAGGCAAGGCCCTTCTAGACCCATTTGATTCAACACTGTAGAGTTGGTCGGTGATGACAGCTAAAGCCG
AGGCTGCTGTCCACATGCCCTGTGAATTTGTCCACAGGCCTGGTAACAGAATACTATGTCACACTGCCTGAAACTCTGAATGCCACTTGTCAGA
GCAGGCTGCCACTGGTTTTATGGCAGGACCACTTAAGGGGGTCCTTAAACCTTCAAAGCAATCACAAGCAGGCCTAAGACCATACTAGACTCAC
CTGTATCCTTAAAGAAGAATATTGAGGAGCCTCCAGGTCTTGGGACATAAAGATGAGACCAGGCATGGCTCCACTGCATGCTCCAGGCACATCT
TTTGTTCACCAACCCACTGGCTAAGCTTTCTGATCTTCCAGAACACAGATTCAACCTGTAGCTGCTGATCCATGGTCTGAGTCAGCTCAGTCTA
CCACACTAAGATTCTAGACCCTCCGTGGTCACACTGTCATACCTAAACACCAATGTGCCCAGAGTCCAAGTAGGGTACAAAAGGAATAGCCAGC
CTGGCTTGAAGGTATTGGCCTATAATCCAAGCTGCCCCAGAAGCTAAGGCAGAAGGACCACAAACTCATGATTGCCTGGGATACAGAACAAGGT
GAAGATCAGCTAAAGCGATTGAGTGAGACCCTGTCACCAAATGAAAAGTGATAAAGAACTGGGGTGTACCTCAGTGACAGAGGACTTTCCTAAT
GTGTGAGGCTCTGGACTCCACCAAAGCACTGAAAAGAAAAGAAAAAAAAAAATCACAGACTGTGAGGGATGCTGACAGCTAAGTGGCCTTGGGA
AAGGAGTGCCATCCTGGGGCTCTCTGGCCTCTGGCCAGGTCTGTTTGGGGTTTGTGGAGGAAGAGGCCCAGGTTCTGGATTCTCAGTACCTCTT

CTTTAGCCTTCTGATTCCCTGACTCCTGGCAGGCAGGCAGGCACTCCAATGACATCTATGCCTTCACACGGCTCCCTCTTCTCATTCTCAGGGC
TGCAGGTGTATGTACACCAGGCCCTGACCTACTATTGGCAGGACTACCTAGGATTTCCCAGTAAGGGCAAGGGTCAGTGGGGGGGTAGGGAGGG
CAACTAGCTGCAGGTGGACACTCCAAAAAGAGGATGCCATGGTCCAGGGCCAGCCAAGGCAGAAGGATGGGCGCCCATTCTCCCCTCAGGGCAG
TGAATCATCAGGTGAGTGGGCAGGTTCAGGAAGAGTCCAATTAGCCCGCTGGGCCATCTTGGGTGCTAACAATAATAGAGCCATCAGTCCCTAG
GGCAGTGATGAGAGTCCTCAGTTAAGCCTGTCCGACAGATGAGTAGTCCCTCTAAGTTGGCACCCTGGGCAGGAGCCACCCTAATTGCTACCTG
CTGCCCTAGTGCCCAGATGAAAGGGACAGACTCGACTGGGAGGCGGCAGGGCAGTGGCAAAACCAGCATGTCACGAGGGCCTGGAAAGTCAGAG
GCCAATGGGTATGGGGTGCCAGGCTGTCTCAAGACCCCAGTAGGGTCTAATGTCACATGGCTTTTGGGGATGCAGAGCCCATATGCCCAGGCAG
AAGACAGATCACTTTAGAAGGTCAAAGGCTAGGAAGCATATAGCCTACAGAGGAGGCAGCATTGGCCTGAGGGCTTGTCAGGGACACAGGTGGG
CTCTGGTGTCTGGTGTCAGTTTCTGAGCAGCAGCCCCTACAAGTCCAGGATGAAAGACTACCCTAGAGATTGTCTTGGCTATCCACAGGAGATA
CACGACTANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNACCCCCCCAGTCCGAGGAGTGGGAAATCCCAGGCCCCACTCAGACCCAAGCTCGCAGCTGTGGGCCTCAGAAGCAGC
CTCTCTGGTGAGTTTACAGCCCCTCCCGCTGCCCTGGAGAAGGAGGAAATGAGCGGGAGGCCTGTTCACAGGTAGTTGAGACAGCCCCCGAATA
ACCATATAAAAGGGCCGGAGGCTGGGGGCCCCACCCAGCCAGGACAGGCTTGGCCATCCCCTTGCAAATCTCACACTCAGTAGCTTTGAAGTAC
TGGAAAGGGTGTGGCCAACCCCCACCTTAGGGCCCCACTGACCCTCCCTTTTTCTGTCACCCCCTCCCCTGGATGCCCACTTTCTGGGTCCTGG
GGCTCAGTTTCCTCTCTTCAGAGACAGACTGGAGGCTGTCACCATGGCCTGGCCTCCAGGAAAACCTACTCTTGGTCAGCTGGGGTGCAGCCAG
CTGTGGTTCCCACCCCTGGCTTGGGACTGAGAAAATGGACCTGAGGACTAGCTTTCCATGATGTGGGCAAGTGTATGACCAGAAGCCAGAGTCC
CCAGCCCAAGCAGTCTTGGTAGTAGGATCTAGCACTGCCTTTTCCAGGGAACACTGGGGACAACAGGGCAGCCAGGAGACAATTTTGAGAAGTC
CCTAGGACCTTCCTGAAAGCTGACCACCCACTGTTGGGGTGAGAGAAAACTATGATGTTCTGTTGCTGTGTAGCTGGTGATCAATAGCTGGGCC
AACTCTGAGTCCTAGCAAACCTGGCCCAGCCATAATGATCTACCTTGAAGGGACTTTGGGATACATTACTGCCCTGGAGTCCAGCGAGCGTCCT
GGGACAGATTCTTCTCCCCCTGGCTTTACCCTGCACCATGCCACAGGCCCCAGGTCCCACCTCTCTTCACCAGTCGCTCACCTTCCACAGCCTA
GTCCTTTCAGGGGTTCCCAAATTTCTTTTCAGAAACTCTCTTGGAGGGGGGGGTACCCAGAACAACACACTCTGAGATTATAGCCTTTTAGGAT
CATCATCCTCTCTAAGGACCTCTGACTTCCAGAGCCAGAGTAGAAACCAGGTATACACACTTACTATCCCTACAGCCCTAAGGGGCCAGCGTGC
CATCCTACTGGAGTCTAGTATTGGACAGATATATGAGTCTGGGATAGTCCAGTTGGCTAGAGTCTTTCATAGATTTGAATTGAACTGTACTCTC
AATGCTACTCTTGGGCTATGTGGGAAGGCTTCCAACAAGGTGCTGCTTCTGCCTTCTGATGTTTGTTAATTCTGAGATACCATACAGATGCCAA
GACAAATAGTGCAGGGCAGCTAGGAAGCCCTGGAAAGGGCCCCCAACTCCAGGAGCTTGGGCACTGCCTACCCTTCCTACCCTGCCCTGCTTTG
CCTGGTCGGGCAGCTGGGACGGAGCTGCAAGCTGTCAGAAGGTGCTAATTGTTGTTTAGCTCTAAGCCGGCTCCTTGCTCTGGTCTTTTTTCCA
CCCTCTCTCTCTTTTTTATTTGAGCGTCTAGAACTCATGGTAAATAGTCATTTGGCTCTCAGAGCCCTGCAAATTGGTGTTTATGGTGTGAAGA
TGAGGAGGACCCAGGACTAGTCCACCAAAACACAGGCCAGTGAAGAGGGAGGAGAGAGGGAAGGAGGCATAGGCCCAGCTGGGACTGGGCATCC
TCCACGTCCCATCCAGGCCTAGCTCTCTGCTGCTTGATCCAGGAGAGCTTCCAGGAAGAGGCTCCTCCGTCATCCTTATCAGTGGGGAGACTGG
AGATTGAAGAACTAGAGCAGGACCCATATTTAGCATAGGAGATANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
ATGGGGAGGGAGGGAGGGAGAGAAAGAGAGAGACAGAAAAATCCAAGTACATGGGCCCTTCTTACCCAGTGGCCTCCCAGATTTGAGACAGGAA
TGTATGGCTTCTGTATGATGCTTGTGGGGTGCAGGGTGTGGAAGGCAGGTGCCAGAGGAATTCCAAGCCCGAGCAGATGGCTGGGAGGGCTTCT
CAGGAGAAGGGGACTTCCCCAGTTGTTCGCCTCTCAGTGCAGAGAGCAGGCAGGCCTGTGCAGAACCCTCAGACTCCTTGGCAGTGGTGGCTCA
GCAGCCTCCCTTCCCCATCCCCCAGGCTCCTCAGCTCCCTCTACTGCAGGAAGCCCAGGGTGTTCCCACAGCCTCACTCTGTCCCTTCTCCATT
CCTGGCACAAGCTTGAGACACTCTGCCACCCCACAGTGCCAGACTTTATAAAGCAAGCTGGCTTCTAAGCAGCCCACCAGACACACAGCCCTGG
AGGGGCGAGTCCCAAAGCTCTAAGAAGGCCATTTGACGTCTGTAGCTTGGAGTAGACTCCAGGGATTACACATGCTTCTTCCCCGACTGTTTTT
ATTGTCCAGGTCTGGGTTGGGGCAATAAAGTGAAGTGCCAGCTTGCACCTCGGGGACCAGGGACTAATCTGGTGGGAGTCGTGACCCAGGCAAC
AGTCCATATGCCATGGACCTGATCCTACACCTCCTCTGCTTAAGGATATTCCATGGTTTCCCTGTGTCCACCAGGTGAAGTTTAACTTCTCAAG
CCTACGTACCTGGCAATCTATCCCCTTAAAAGAGTCCTGATGTATGGCGTGAGAGACTGAGAAACTGTCCTGCACAGGAGGTGTATACGGACAT
TACTCTTCAGACTGCAACGGACGCCCGCCTCTATCACTCATTCCCTCAGATGCTCTCGGACCTCCATGCCAGCCTTCTCACCAGTTCTAAAAGA
AGTCTCTCTCGGGTCTCTAGCCTTCTCTCTCCCAGGTCCTGAACTTTCAATGGGTTCTTCTGACTCTGGAACTGGTTGCAATTCCTTGACCTTC
TCTGGTCACATTCAGGAGCCCCCATCACTGTCTCTGGGGGGACACTGGAAGTACCAGCTTGACCTCAGGGACCTGTATGGCAATAAAGGGGGGG
AGGGGATTCTGATGTCAGTGTAACCTTGATCATTCCTGGGGCTTGGAAGCATACCCAGCTGAACCAAGAGCTTGAGCTTCCAAGTGACCCATCA
ACCAGAGGACCCCACACCTGTGAGAGCAGGGAGGGCGGCCTCAGAACCGAGGCCTTGTCTGGTCCTTGCTGTTGTATGATGGGAGGTTGTTTGA
CAGATGCAATGGATGAACCATGCAGAATCCAAGCATGACAGGGATGAGGCCACAGCGCAGGTGGCGAAGGGCCATGTGAGGTCTGGGAAGGTGG
AAAGGATGCAGGAGAGGACCTTACAGGGGAGGAGGATGCCAGTGGAGATGGTTCAGGAGAGGACCTCGTGGGCGGGCCTGAGGAGACAGTGCAG
ATGAGGTGTCAGTAAGGAGGATGCAAGCAAGAAAGATGCAGGAGATGATGGAGAAGCTGAAGAAGGCACTGAAGAAGGCACAGGGAAGAAGAGT
GCATGTTAGGATGTTCAAGCAGAGACGGTGCAGTGGTGAGGGTGAAGGTGGAGGAGATTCAGATGAGGATGGTACAGGTGGGATCCTGCATATG
CTATCAGGCAGGTGGCCCAGAACAATGAGCCTGGCCATGGTCTATGAGGGACGCACACACTGGGAATGGTACCTACAAGGTTCTGAAAGTGCAG
GCTTTTGGAGACCACCCTCCCCCCAAAGAAAGGGGTTTCTACCCCTTCTCCAGTTCTTCCCTTGTGCTTTAACCAAAAGCAAGTCTTGTGCACT
GTGCCCAACCAACCCTGCACTCTGCTGAACCTGAGGCAAGAGTAGAAAGGCTGCTGTCTTTTCTAACCTGTACCCTGAGCCAACTAGGTCAGAG
TCAGAGGCCTCACATACGTGAGTAGCCCTGGTTGGAGGGATCTCTAAACCCCACCACAGTCCTGGGACAGCCTGCTGTTTCCTGGGGTCAGGGG
TCTTCCATGGGCCCACTGCCGTCCTAGTCAGCTTTGCTTCTGTTACTTGGGGATTTTTTCCAGTCTTTCCCTTCCGTTTAGAAATCCTTTTCAG
GACAGATCCCTGACAGAGGTGCTGACATCATTAGGCCTCCTCAAGGGCACAGGCCCACCCTTCTGCTCTGGCTACCCCTATCCCTAACCCACAG
CCCAGCTCTGCCAGGGTCCAGGCCTGGCTGGCAGCCCGCAGACTACCCAGACCAATGTGTTGGCTCTAGGCAGGCAGGCATCCTGAAGGGTCTA
ACAGTGTCCTTTGCCAACTCTCCACTGAAGCCGATGCTGGCCTGTGCCTTTCCCTCTGCCTCTTATCTTCTTTCCCTCGCTGCCACCACACTCA
GGAATCATGGGACCCTCTGGTCTTTGAGCTACAGCTCTGTGCAGGTAGCACAGCCTCCTCCTTCCCTTCCCTCCCTCATACATGTGGCTGTCGA
CCCCTGTCTCTGCAATAAGCTCTGGGTGCCTCTGACTACGCCTCTGACAGTCCTAACTAGTGTGGGCTGGAACACAGTGGCCAACATATGTAAA
TGCTGGAAACCCCTCTCATAATAGAGATGGCAGGTGTGGAGCTCCGTTGAGCCTGAAGGTAGAGGGCAGAGTAGTGATGGTCTACGGGCCACAT
CTGGTCCCTAATGGTGGGAGTCAGGACCTGCCTGGTTTCCTCAGAGCCAGAGTGGGAATACAGAGGCATCTGGTATCTTAGGTCAAGGGATTTC
TCCAGCCCTTACAATGTGAGCAGGATGTTGCTGTCAAGGCTACTGGACAGCTCCAGGCTCTGGAGACCACCTGAGGAGATATGGACGGGCCAGC
CCCTGGCACAGTCCAGATTTTACCACGGACCCAGCCTGGGGCACAGGTGTTAGGGGTGGGGCTCATGTTGGCGGGAGTGCTGGCTGCGGATGCT
TCAGCTGGGCTTTTTAATTAACCTCTGCTGGCTGCTCCAAAGGGCCCCAATTAAGTGCAGAATGCGATGGCAGAGTGGGGTCAAAGAGAGGAGC
TGGTTTTAATTAAAGTGCAGTGGCCTGGGCAGGAGCGCCCCCGCCTGACCGCCTCCTCAACAGGCCCTGCTCAGCTCAAAGGCGGTCACATGAC
GGGTAGATGACAGAGAACTCTGCAGTCCTGTCTGGCTGAGATCCCACCAGATAACAGCAGGACCAAGGGCTGCCTTGTCTAGCCTGTGTGTCCA
CTGCCAGGCAGCCCCTCTTCGAGCCACTTTGTCCTCTCTGACCTCTTCTCATTTGTCACCTGACCTGGAATAGCCATCTGCTACCCTCTCAATA
AGCAGGTCCCTGGTATAATAAGCATCTGTGGTATGTCTACTTCAGAAGCAGCAAAAGGAATAAAACAACAATTCCATCAGATGTGCATGGGCA
ATGGGATTAAGCAAAATGGGGGGGGGGCGGGGGAGGGGGAAGGCCAGTGGAGAGCTGTTTAACCTGGTAAAGGAGCAGATAGCAGCAGGAAGGG
GAGGGAGCTCACCTGGAGAGGTAAGGGCCTGGTAAAAGCCAGAGCAGGATCTGGCCAGGGCTGAGTTGCTGAGGTACCAGCAAGGCCAAAGCCT
GCAAGCAAAAATAAGAGAGAAAGCCAGGCTTTTCTCCAAATGGCCAGAAGACTACTGAGGACTCTCAACATAATTAGCTTTCCAGGAAATGTAA

TGAAAAACCCTGGGCGAGGGCCGGTGAGCTACCACCAAGCCCGGAACCCACACAGTAAAAGACACAGCTGACTTCTGCACACACACAAATGCTT
GTATAAGCATATACTTATACACATGCATGCATGCACTTGGAAGTGGAGGCAGCAGCATTAGAAGTTCAAGGTTACCCTCAGTTACATAGGGATT
CTGGGCCTGCCTGAGCTACATGAGGTCTTGTTTCAAAACAACATCAGCAACAACAAAATTGGATCCTAAGGTGACAGTAGAGTGCCAGCCTCCC
TCCTGCTGCAAATTCCAGGCAGGTGTTCCCCACCTATTACAATGGTCCCAAGTAATTTTTTTTAATGTTATGGGCATTTTAACACACACACACA
CACACACACACACACACACACACACACACACACACACACACAGAGAGAGAGAGAGAGAGAGAGCATGCGTGCAAGGGGATAAGGCCTTTGTGCTTCAC
TTGGGAAGAACAGGTGTTTCATGAGTTTCTTGTGAGGAGAAACATTTGCTAGGCATCATAGCCCTCTAGGAATCTCACTGGCTAGGAAGACAGG
ATGTCTTCCAGCATCTTGACCCA

MOUSE SEQUENCE - mRNA
GAATTCATGTCTTACGGTCAAGGCAGAGGGCCCAGCGCCACTGCAGCCGCGCCACCTCCCAGGGCCGGGCCAGCCCAGGCGTCCGCGCTCTCGG
GGTGGACTCCCCCCGCTGCGCGCTCAAGCCGGCGATGGCTCCTCTCGGATACCTCTTAGTGCTCTGCAGCCTGAAGCAGGCTCTGGGCAGCTAC
CCGATCTGGTGGTCCTTGGCTGTGGGACCCCAGTACTCCTCTCTGAGCACTCAGCCCATTCTCTGTGCCAGCATCCCAGGCCTGGTACCGAAGC
AGCTGCGCTTCTGCAGGAACTACGTGGAGATCATGCCCAGCGTGGCTGAGGGTGTCAAAGCGGGCATCCAGGAGTGCCAGCACCAGTTCCGAGG
CCGGCGTTGGAACTGCACCACCGTCAGCAACAGCCTGGCCATCTTTGGCCCTGTTCTGGACAAAGCCACCCGGGAGTCAGCCTTTGTCCATGCC
ATCGCCTCCGCTGGAGTAGCTTTCGCAGTGACACGCTCCTGTGCAGAGGGATCAGCTGCTATCTGTGGGTGCAGCAGCCGCCTCCAGGGCTCCC
CAGGCGAGGGCTGGAAGTGGGGCGGCTGTAGTGAGGACATTGAATTTGGAGGAATGGTCTCTCGGGAGTTTGCCGATGCCAGGGAGAACCGGCC
GGATGCCCGCTCTGCCATGAACCGTCACAACAATGAGGCTGGGCGCCAGGCCATCGCCAGTCACATGCACCTCAAGTGCAAATGCCACGGGCTA
TCTGGCAGCTGTGAAGTGAAGACCTGCTGGTGGTCGCAGCCGGACTTCCGCACCATCGGGGATTTCCTCAAGGACAAGTATGACAGTGCCTCGG
AGATGGTGGTAGAGAAACACCGAGAGTCTCGTGGCTGGGTGGAGACCCTGAGGCCACGTTACACGTACTTCAAGGTGCCGACAGAACGCGACCT
GGTCTACTACGAGGCCTCACCCAACTTCTGCGAACCTAACCCCGAAACCGGCTCCTTCGGGACGCGTGACCGCACCTGCAATGTGAGCTCGCAT
GGCATAGATGGGTGCGACCTGTTGTGCTGCGGGCGCGGGCATAACGCGCGCACTGAGCGACGGAGGGAGAAATGCCACTGTGTTTTCCATTGGT
GCTGCTACGTCAGCTGCCAGGAGTGCACACGTGTCTATGACGTGCACACCTGCAAGTAGGAGAGCTCCTAACACGGGAGCAGGGTTCATTCCGA
GGGGCAAGGTTCCTACCTGGGGGCGGGGTTCCTACTTGGAGGGGTCTCTTACTTGGGGACTCGGTTCTTACTTGAGGGCGGAGATCCTACCTGT
GAGGGTCTCATACCTAAGGACCCGGTTTCTGCCTTCAGCCTGGGCTCCTATTTGGGATCTGGGTTCCTTTTTAGGGGAGAAGCTCCTGTCTGGG
ATACGGGTTTCTGCCCGAGGGTGGGGCTCCACTTGGGGATGGAATTCCAATTTGGGCCGGAAGTCCTACCTCAATGGCTTGGACTCCTCTCTTG
ACCCGACAGGGCTCAAATGGAGACAGGTAAGCTACTCCCTCAACTAGGTGGGGTTCGTGCGGATGGGTGGGAGGGGAGAGATTAGGGTCCCTCC
TCCCAGAGGCACTGCTCTATCTAGATACATGAGAGGGTGCTTCAGGGTGGGCCCTATTTGGGCTTGAGGATCCCGTGGGGGCGGGGCTTCACCC
CGACTGGGTGGAACTTTTGGAGACCCCCTTCCACTGGGGCAAGGCTTCACTGAAGACTCATGGGATGGAGCTCCACGGAAGGAGGAGTTCCTGA
GCGAGCCTGGGCTCTGAGCAGGCCATCCAGCTCCCATCTGGCCCCTTTCCAGTCCTGGTGTAAGGTTCAACCTGCAAGCCTCATCTGCGCAGAG
CAGGATCTCCTGGCAGAATGAGGCATGGAGAAGAACTCAGGGGTGATACCAAGACCTAACAAACCCCGTGCCTGGGTACCTCTTTTAAAGCTCT
GCACCCCTTCTTCAAGGGCTTTCCTAGTCTCCTTGGCAGAGCTTTCCTGAGGAAGATTTGCAGTCCCCCAGAGTTCAAGTGAACACCCATAGAA
CAGAACAGACTCTATCCTGAGTAGAGAGGGTTCTCTAGGAATCTCTATGGGGACTGCTAGGAAGGATCCTGGGCATGACAGCCTCGTATGATAG
CCTGCATCCGCTCTGACACTTAATACTCAGATCTCCCGGGAAACCCAGCTCATCCGGTCCGTGATGTCCATGCCCCAAATGCCTCAGAGATGTT
GCCTCACTTTGAGTTGTATGAACTTCGGAGACATGGGGACACAGTCAAGCCGCAGAGCCAGGGTTGTTTCAGGACCCATCTGATTCCCCAGAGC
CTGCTGTTGAGGCAATGGTCACCAGATCCGTTGGCCACCACCCTGTCCCGAGCTTCTCTAGTGTCTGTCTGGCCTGGAAGTGAGGTGCTACATA
CAGCCCATCTGCCACAAGAGCTTCCTGATTGGTACCACTGTGAACCGTCCCTCCCCCTCCAGACAGGGGAGGGGATGTGGCCATACAGGAGTGT
GCCCGGAGAGCGCGGAAAGAGGAAGAGAGGCTGCACACGCGTGGTGACTGACTGTCTTCTGCCTGGAACTTTGCGTTCGCGCTTGTAACTTTAT
TTTCAATGCTGCTATATCCACCCACCACTGGATTTAGACAAAAGTGATTTTCTTTTTTTTTTTTCTTTTCTTTCTATGAAAGAAATTATTTTA
GTTTATAGTATGTTTGTTTCAAATAATGGGGAAAGTAAAAAGAGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

MOUSE SEQUENCE - CODING
ATGGCTCCTCTCGGATACCTCTTAGTGCTCTGCAGCCTGAAGCAGGCTCTGGGCAGCTACCCGATCTGGTGGTCCTTGGCTGTGGGACCCCAGT
ACTCCTCTCTGAGCACTCAGCCCATTCTCTGTGCCAGCATCCCAGGCCTGGTACCGAAGCAGCTGCGCTTCTGCAGGAACTACGTGGAGATCAT
GCCCAGCGTGGCTGAGGGTGTCAAAGCGGGCATCCAGGAGTGCCAGCACCAGTTCCGAGGCCGGCGTTGGAACTGCACCACCGTCAGCAACAGC
CTGGCCATCTTTGGCCCTGTTCTGGACAAAGCCACCCGGGAGTCAGCCTTTGTCCATGCCATCGCCTCCGCTGGAGTAGCTTTCGCAGTGACAC
GCTCCTGTGCAGAGGGATCAGCTGCTATCTGTGGGTGCAGCAGCCGCCTCCAGGGCTCCCCAGGCGAGGGCTGGAAGTGGGGCGGCTGTAGTGA
GGACATTGAATTTGGAGGAATGGTCTCTCGGGAGTTTGCCGATGCCAGGGAGAACCGGCCGGATGCCCGCTCTGCCATGAACCGTCACAACAAT
GAGGCTGGGCGCCAGGCCATCGCCAGTCACATGCACCTCAAGTGCAAATGCCACGGGCTATCTGGCAGCTGTGAAGTGAAGACCTGCTGGTGGT
CGCAGCCGGACTTCCGCACCATCGGGGATTTCCTCAAGGACAAGTATGACAGTGCCTCGGAGATGGTGGTAGAGAAACACCGAGAGTCTCGTGG
CTGGGTGGAGACCCTGAGGCCACGTTACACGTACTTCAAGGTGCCGACAGAACGCGACCTGGTCTACTACGAGGCCTCACCCAACTTCTGCGAA
CCTAACCCCGAAACCGGCTCCTTCGGGACGCGTGACCGCACCTGCAATGTGAGCTCGCATGGCATAGATGGGTGCGACCTGTTGTGCTGCGGGC
GCGGGCATAACGCGCGCACTGAGCGACGGAGGGAGAAATGCCACTGTGTTTTCCATTGGTGCTGCTACGTCAGCTGCCAGGAGTGCACACGTGT
CTATGACGTGCACACCTGCAAGTAG

HUMAN SEQUENCE - GENOMIC
CTATGGGAAAACTTCAAGCAGCCCAACATAGATGTAAGTGGAGTCCCTGAAGGCAGGACAGAGTTATCACAAGGAAGTGCCTTATGCATTTGTA
GAGGCTGAACATGTCCAAAATTCATAGGCCAGGAACTCAGGAAGACCATAGACAGGCTCAACCCATGGGCTTTCTGTCTCTATCCAGACAACCC
AGGAAAAAGAGAGAGGACAATGACTAATCTCAATAATTAGAAAGGTGACATCTCTACAGATTCTATAGATATTAAAAAATAAACAGGAATAAAC
ATCTACATGTGTATAAATTCAACTTCTGTAAAATGAACAAATTCCTTGAAAGACATCAACTACCAAAGCTCGCACAAGAAATAAATAAACAAAA
TGGTTCTATAGCTATTTAAAGAACTGAATTGTGGTTACAAGCCTTCCTACAAAGAAACTTAAAGGCCAGATGGCTTCATTGGTGAATTCTACCA
AACATTTAAGCAAGACATAATAACAATTTCCACAAACTCTTCCAGAAAATTAAAGAGTTGGAAATACTCATGAGTATCTCATGAGGCCAGAATT
ACCCTAATGCCCAAATCAGACAAAGACATTATAAGGAAAAAAAATTCTAGATCAGTACTTCTCAGGAACATAGATGCAAAAGTTCTTAACCAAG
TTTTAGCATATCCAATCCAACAATATATAAAGAGGATGATACACCATGAGCAAGTGGGATTTATCCCAGGAATGCAAGGTTAGTTTAATATTTG
AATATAAATTAATGCAATTCACTATATTAATTGGCTAAATAAAAACATATAATTGTCTCAATAGATGCAGAAAAATCATTTAATAAATTCCAAT
ATTTATATAAAAACTCTCAGCAGATTAGAACTAGCTGTGAACTGCCTAAACCTGATAAGTGGCATCTATGAAAAACTTCAGCTCACATCACACT
TTAATAAAACACTGTGTGTTTCCTCCCTAAACATCAAGAACAACACAAGCACATCCACTCTCACCACTTTTATTTGACACTGTCCTGGAGTTTC
TAGCTAGTGCAATAAGACAAGAAAAAGAAATGAAAGGCATCTAGAATTTAAAGGAAGAGGTAACCTGTCTTTATTCACAGGTAACACAATTGTT
TATATGGAAAACGCCAACAAATCTACAAAAAAGAATAAGTCTGCTGGAACTAATAAGTGAACTTAGGACAGTTGCAGGAAACAACATCAATGTA
CTAAAAGTCAGCACTTGCAACAAAACATGGAAATGGAAAGAAATAATACCACTTTAAATAGCTGATAGCTTCTGGACTAAGAGGAAGCTGCAGG
TAGAGGGGGCAGGTGGAAGATTTAGGAGAGTATGGAGGTGGTTGCTGAGCCTGATATGAGAAGAACCTGGACAGAACAGGAACAAATGCTTTGC
CGAAGCTTCTGGACCCACTGGGCTGGAGGACAACCAGCAAGGAACAGCAAGGAAGGAACCAGCAAGGAAGCTTCTGGACCCGTTGGGTTGGAGG
ACAACCTCAGCAACCCTCTGAGGAGGGAGAGACAGAAACTCTCTGCAGAGACTGCAGGTTGTGACACAGAAGCTGATGGCCTCGATTTCCCTCC
ATGAAATGGGACAGTAGGGTGCCGTTGACAGTCAGAAAGGGTGTGCAGGAGGTGGATGCTAGGGAGGAAGCCCACAAAGGGGCTGATGGACTGG

CCTTGTAAGAAACAAAACATCATGTCTCCTTGGAGCCATGTCTCCTGTGCCTCGCCAGGGACAGTGGGCCCCAGCTTCTTCGACCAGGGAAGAT
GGCAGTCAATGGATACCCCAATGGCTTTTTCTCTTCACCTGTTCCCCCCACTCTCCTGTTCCCTAGAACCATGTTCCCACATAAACCACCTGCA
CTCACTACTTGTATCATGTTCTAAAAATCCCACCATGTCCCTGGAGCTCAGGATCTTCAAGGCCAAGGGGAGGCCCTAAAGGTGAAGTTGGGGG
TGAACCAGAGTGAAGGAGAGCATCTCCAGTGATGAGGGAGTCCAAGACCCATGATCCTGGGTGATGGGGGTGGACAGGAGGAGCGTGACTGTCA
AGCTGCCCAGGCCCAGGCCCATGTGTGAACAGCAGCCCTGTGAATCTTGCTCTTGGCCTCTGAGCCTTGGCTCTGGCTTATGCTCCAAAGATGG
TGACACTGCATCTCCTGTGGTCTCAGGGATCAGCTGGGTCATGCAGGTTTCAGCAGGGGTTGTGGTCACCACTATTCCCATGAGAGAGGTCATA
CCCACAATGTAAAATCCCACTTGGGCTGCAGGACAGCCAAGGGCTAGGGAGGAGGCGCCGCTCATGTCACCCACAACCTTTGCCCAGAAGGGCA
CTGCCTCTAGGGGAAGATTGGACCCAGGCACCCCTTCAGTGCCGCCCTCCTCTGGCATCTCCACTTGGTGGCAGTATTGGCCCAGAAGCGGAAC
TCCAGCAAGCAGCCACCAACCGGTCCCTAAGAGCTGCTGTGGCAGCAAAACTTAGCTCTTTCCCAACAGGAAAGTCTGGGGAGTCTATTGCCCT
CATTTCACAGGGAAGTAAGTTATGGCCTGGGAACCAGGATTCTGGATAATTAATCTGCAGGATTCCAGAACTCCATGATACTGTGATTTTTTTT
TTTTTTTTTTTTTGAGTAGTGGTCTCTCTCTGTCACCCAAGCTGGAGTGCAGTGGCACAGTCATGGCTCACTGCAGCCTCGAACTTGTGGCCTCA
ACCAGTCCTCTCACCTCAGCCTCCTGAATAGCTGGGACTACAGGTGCATACCACCATACTCAGCTAATTTTTTATAGAGACGGAGTCTCACTAT
GTTGCCCAGGCTGGTCTCAAACTCCTGGGTTCAAGAGATCTGCTGGCCCCAGCCTCCCAAAGCACTAGAATTACAGGCATGAACTACCTGTCTG
GCCCATTGTGATTTTTTTTTAATTCTCAAATTTGATTTTCTTATGGTTCTAAGACTCTCCATCTATGGGTCCATGCTTGAAGAACCATAAGATT
CTAAGATCAGAGGGTTCTACTGACTCAGTTCCCCTGCATCCTATAATTCTGTGTTTGGATGATTCCAGCATTTCATGGCCATTTCATGGGATCA
ACCAGGATTAACCACATGGCTAAAGGGAGAGGCTGATGGCCCTACTTCCATGGTTCCCAGATTCCATCTTCTCTTCCTCATAGGGAGGTCCACA
ATTCCCCACATATCACCAGGCCACCTGCAAGGAGAGCAGGTCCAAGAAGTCACCTTGCAATGAGAATGAGATCGTGTGCCTCCTACATCATGCC
CTAAGGGAGAGAGGACAGCATGGAGCTAGGAGGTGGATGGCTGGGGTGTCAACTGAGAAAGACATGCCTGTTGGACCCCAGAGTTGACTTTTAT
GGCATCCAAGAGCTGCCTGTGAGAACACACATGGTTTGATTTGTGAAGGGATGTTCACACAACCATCATGCGTCAGCCTTCTCAAAGGTGGCGT
TCGTAGCACAGCATGCGAAGGGCTTTGAGTCAACAGACATTCCTGGAAAGAAAGCAGTGTGGGGGTATGGAAGGATCCCTGGAGGCTGGGACCT
GGAGACCAGGGTCTTTCCTGCGGGCCCATTGCTCCTTCCACTTTGCCTTGAGCCCACTCTTTCCATACAAGGAGAGGCTGACCTAAGGTTCCAG
TTGCTTTCATCAGGTGGGATCTGGTGAAGGGTCAAAATGGAACTCTAAGATGGGTAGTTGAAGGGGTGACACCCGAGGAGAGAGTGATGTCTCA
AAACAGACTGAATTATTTCCCAAAGAGGTGCCCCAAGCCCCTGCAAATGCACTCTCTAGGAAGTCTGGCCACTGGGCCCCTTGCCCTCGTCCCA
CAGGGCAGCTCAGAAAGGCAAGCTCATGAGGACCGGCTCGTGTCCACCTACCCCCCTCATTGCCTACAAGGACTCCCGAGCATGCCCCCCATCC
TGGCGCAATCTTCTGCCCTGGAGCCAGGAAAGGATGGCCTTCTGAGTTGGAGTCCTGCAGTCGGTCTTCCAGTCTTGGAGGGAAACATATACTC
TACAAATGGTGAGCCTCGGAGAGAGCCCAGCCCTGCTGTGCTGCCTCCAGGAGGTTCAGGCGGCTATGCCTCCTCATTCAGCCTCACTGAGCCT
TTTCCACTTCCAGAACATGGTGAAATTCACTTCCCTCTGACCACACAGTGCTTGGTGGATCACCGGGCACACAGTGGGCCTACAGTGGGCATGG
TAGTCGCTGTCATCACTCCGCTCCAGGAGCCTTCAAGAAATCATCTCATCTGACAACCCACATTTACCATAAGGACCTTTTGGAGGCCAGGCGC
AGGGGCTCACCCCTGTAACCCCACAGTTTGGGAGGCCAAGGCAAGAGGATTGCTTGAGCCCAGGAGTTAGAAACTACAGTGAACTATGATGGCA
CCACTGCACTCCAGCCTGGGCGACGGAGTGAGACCCTGTCTCAAACAAATAAAAAAGAACCTTCCGGAGAACTGAAGGAAAGTGGAAATTTGAT
AAGAGATCTGGGCTGGAGAGGAGAAAAGTCTTTTAAAATATAAATATAACGGCAAGCTCAGAAAGATAGATACAGGGCAATGGTAAGAAGCAGA
CAGGTAACCAGATTGGGCTAGTGGGAGATGCTCATTGAGACAAGCAGTGCAGTGGTGTGCCACTGTGAGGGGGAAACGGGGATGGTGCCCCCGC
CATCCTGCTTTGTGACTGGCGTGCACGGCAAGGGGCAGAGCAACAACTTCTGTGGGCTGGACCTGCCCTGGGCAGGGGCCACGGGGAGGCCAC
AGACTCCGGTCTGAATAAATACACAGCAGGAACCCAGAGCTGTGGATATGTAGACCCCACACACAGCCTCCCACAGAGGGCAGGTAACCCACAG
GAAGACAGACAGCCCTGAGCTCACAGCCATACCTGCAAAGCCCTGCCAGGACATACCCACATCAGTAATGTCCACGGGGGCTCTCATGGTGATA
TTAACGCGGAGGAGGTAATTCCCACAGTGCCTGAGCTGAACAATGCCAACAAAGGTGGAGACGGGGCGGAGGGACAGACAAGGAATGTAGAGAG
GGGCTGCAGACAGGAAGAGCAACTCACAACTGTGCAGGAGGGCTCATCGGCTGTGACAGGAAAACACACAGAGACTGATAGAAAGACAGGACAG
CCATAGACAGGAGGTGGGAGGCAGACAGGTCTGTGGCCCAGAGACCCTGTCTCACCACAGCAGCTTTGGGGAAGCAGGTGGCCACGTCATTTTC
CTTGTCTCTGTTTGGCTGACCTGTGCATCTCAGGCCCAGCCCTGGCTGCTGTTTTTCCAGCTGCAGTTCCCAAACTGTGTGCTAAGGCACCCTG
GGACGCCACAGCAAATTCCCAGGGTGTTGCAGAATATCACGCCTGTAATCCTAGCTCTTTGGGAGGCCAAAGTGGGAGGATCACTTGAGCCCAG
GAGTTCAAGACCTGCCTGGGCAACATGGTAAGGCCCTCGTCCCTGCAAAAAAAATTTGTTTTAAAGAAAGTACAATTGAGTCTTGGACAACATG
GGGGTTAGGGGCACCAACCCCCTGCAAAGTCAAAAACTTGAGTATAACTTTTGACTCCCTGAAAACGAAACTACTAACAGCCTCCTGTTGACCA
GAAGCCTTGCTGATCCCACACACAGTCAGTCAGAACATACGCTGCATGCCACATGTGTTATCCCCTGTGTTCCTACAATAAACTCAGCTGGAGA
AAGGAAATTCCTGCTCAGAAAACCTAGAAAAGAAGCCAGACTCACAGTTCATGAGGCGGCAGTGGGTCCTCATAAAGGTCTTCATCCTAGTGGT
CTTCATATTGAGTGGCTGAGGAGGAAGACAGAAGCGGGGCTTGGTCTTGCTGTGTCAGGGTGGCAGAGGCAGGAGAAATCCATGTATAAGTGAC
CCACACAGTGCAAACCTGTGTTGTTTGAGGGTCACCTGTCCTGCATGAACATCACCTTGTATGGCCTGAGAGCCAGGACCTTGAACAAGAAGTG
AGAGTGTTGCTTCTGGAGGGCCAGTAACTGCAGTTATGTGAGGATGAAATAAAAATATGATTCATTTATTTTTAACTGATATGATTTTTTTTCA
AATAGCTACTGATCATTAAGTGGTTGGACCTAATTACTTAATAAACAAAGCTCTTAGGTATTTATTTTAGCCTGAGGAGCTGGGCAAAGAATGA
CTATAAGTTGTTTTCTTGATTAATTTAATTTAATTTAATTTTATTTAGAGTCAGGGTCTCACTCTGTCACCCAGGTTAGAGTGCAGTGA
TGCAATCATAGCTCACTGCAGCCTTGAACTCCTCAGCCCAGATGATCCTCCCATCTTGGCCTCCCAAAGTGCCGGGATTACAGGTGTGCACCAT
CACACCTGGCCAATTGAAAGTTTTGATCTCAAGAACCCACTGCTTATGGAGAAGGCATCCAAAGAGTGACCCCCACAAGGAAGGTCAGGGAAGC
TTCCAGAAGGGACCAAGTTCCAATGGAACTGACTGTGGAGGGGCACTCCATCTTCTGACCCTGGACCCCTACCCTGTCCTGCTGCTGTTCCTTC
CAGGGTCCCTCAGCCAGAAAGCCCCCAGAGCCTTGAACTCTGTCTGCCCAAACCCCTTCTCTGTTTTCCCCCAACTTATTTTTGCTCAAATGAG
AAAAAAAGGAAGCAAAAGATGACCAGTTAGTGTCTGAAATCCTGGCTTGCCCCACCCATAACAGGGACTCACACCCGCTGTAGACAGGGAACCC
ACTACCTCACACAGCAAACTGTCCATCAGAGATGCCCCTCCCACCTGGCTTACCCCACCCAAGCAGGTATCTTACAGAGCTTCCGGGGGTGGGCA
GCGCCTCCTCTCGCCTGGGGGCCTATTCTGGAAGGAGGGAGCACGCTCCCTGGGCCCTCCAGCAGGCCAGAAATGATGTTCCCTCCAGCACCAT
CCATACATGGGGAGTTTTGTTTTATCAAACACATGGCTGGCTGCTCAGGGCTTAGCTCCAGAGCTGCCCGGTTGTCAGGCCTTCTCACACGTGC
CCTCTCTGAGGACGATTAGCCCTTTCCTGACGCTGGCTTGCAAAGGTCTCACCCACCTCCCCGTTCCAAGTGTTGGAATGTGGGTCTGTGTCCT
GGCCAACAAGGAGGTCTGTGGAGACAGGACCGGGTCTCAGTCACCGTTCAGCAGCCACCCGGCATGCCCCCAGGAGCCTGCCCTATGCCTTGAC
CTCAACCTACGCCATCCCAGTCCCCAGCGCAATGCACAGGTGGGGACATAGACCTTGACAGACTGGTCAGGGACAGCTCCCTTTAGGCAACAGC
AGAGGGCGCTTCCAGGGAGGCCCCTCACCTTCCTCTGCACCCCAAGCAAGGGACAAGAGGTGCTGTAGGCAACATCACCCGAGCCTGGAAGACA
CTCAGGAGAAGCCCCTCAGGCCCCTGACACCCAGCTGGGGTCCCACCCTTGCTCTCCCACTCTGCTCTCCACCCCACCCCAGCCCAGCCCCACT
GACTTGGCTGCTCAGGAGCCGAGGCTCTCGGAGGCTCACGAGGGAAAGAGGAGCCCCACATGGTACAGGCAGGTACCGAGGAGCTAGTTCCAG
AAGCCTCCACTCGTTCCTCCATGCAGCCTACCCTGGCTCCCTGGTATCCAGAGTCTTCAGAAACAGGAGCCCTCGCTTGAGAGCCTGGCCTGGG
CAGGCTGAGCTCCTGCCTGGGGCCTCGGAGTCTGCTCCTCCCTTCATCTTCTGCAGCCTGGGAAGCGGCCGGATCTCAGTGTGTCTACTACCCA
GGTGGCACGGGCAGAGGATGGGGCCTGATGGGGGAGAAGAAAGCAGCCAGGAGGAGGGGCTTGGGAAACCAAGGGGCAAGAGGGCAGGACTGAG
CAGGCTGCGCTCACCTGCCCCCTTCAGAGAGGTCACGAGGCCCATCCTGTCGGTGGGCAGAGCTGGCATCCTCTAGGGGGCTCTAATCCCCGAG
CCTCATTTCTGGGGAGGTGGGGGTAACAAGAGTCTGCGTGCCTCAGGCTGGGCTCAGGCGCCCACCCCACCTGCAGCCCAGGTTTTCCCCAGTA
CCACAATTGGGTGGGATTTTTGCTGCAAGGCCAAGTCCAGAGGAGCACAAACACGCTCCTCCCCTCCCCCTCCCTGACCCCACCGCCGCTTCAT
TCCAGAGCTCTTCCCTCTTTCCCTCTGAGGGTGGGGGCCCCGCAGTGCCTGGGAGAAGCGGGTGGGCGGCCGGGCATGCGTAGCGGAAACTGGA
TTCCCAAGGTAGTGAGGAGCAAAGGGAACTTTTTTTCAAAGAGAAAGGCTGTCACTCTGAATTCAGGACTCCTGACATAGTCACCAGGTGACCC
CTAGGGCCGGTGTCCACAGGACCACAGGCTCCCTCTGCAAACGCAGAACCAAGTTGTGAGTGGGGCACACTGTGGGAAGCAGCTGCCTCCATCA
GCCAGCCAGTGACACACCTGGGGACATCTCAGCCACCCCCTCCCTGAGAAGCTGCACAGAAGCGGCCACATGCCCATCCCTGCCTCTCCATGCA

CCTCCCTCCCGCAACTCTGCAGCCGCACAGGAGGCCTAGCCCACAGGCTGGGCAGTGCAGTATCCCCAGAGAACACACCACGGATGAGTCTGGA
GTTGCTTGGAGCTCTCAGAAGCTCCCGGAGCCTCCTTCCTCAATTCCAACGCGGTAACCAAGATTCCTGCTGAGCTTAGGTCACAGTGTGACTG
CAGGAGGACCAGCCGCGATGGGAGAGTGCCTCTTAACCATCCCAGTTATCAGGTCCCCCGGGGGAGGCTGGGGACACTTCCCCTCTGCAAATTA
CAATCTCCCCAGGCGGCTCCCGGGGCAACACATGGATATGCAAATGACTGGGAGCTGGAGAGTTGACTGGTCACTGGGTGACCTTGGGCAAGTC
ACTTTCCCTCTCAGGTCTTCCCCTCTCCATCAGCAAACTCCTAAAGCTTAACTAAACAGTCAGAAATCCCTCTGTCGGAACAGGCTGCATAGCT
CTGGGCAGACCTGGAGGTTGGTGGTCCCAGAACCTGGGGGCAGCACTGCGCTTCCCCACCGTCCCATCGCGTCAGGGGCTTCCACTGTTCTCTT
CCCTGGTGGAGTGATGGGGAGAAAAATGGAGGGGTCAATCCCTGCGCCACAGAGAGAGTCCCACTCGTCCCCAGCTGTGACCCACAGACGCGTG
GCTGCACCTTGGAGGTCCACCTGGCCGCTGTCCCCATTGCAGGCTGCACCCATCCCGGACCCTTTCTATCCGCCGAAGGCGCAGGCAGCTCTGG
TCTCAGCGGAAGGAGTCCGGCCGCAGGCAGACGGGGCCAAAGGACGTGCACCCGACAACCGTCCGCTCCCTCCCCAAACCCCCGCCCCGAGAAG
GTTGATGGATGAAGGGGAGCCCTAGCCCAGCCACCTCGGGGGCAAGAGACGGAGCTCGCCACAGACCAGGAGCGAGAGGGGGACTGCGGGTCCC
ACCGTGAGCGCAGGGCGCGCGGGGCTGGAAACCCAGGACGCGGCCCGGGAGCTCCAGGAGGGCGCCTGCGGATCGCGCGGCCCCGGGCCGGCCG
CCTGCCCATCTGGCGCACCCCAGCGCGCCGCGCACACCTGGGGGCCCGCACACCAGCACGTCCTCAGACACACCGACACCCACGGCAGCAGGCG
GGGGCCAACGCCGCCGCCGCGGTTCGGGCTCCCGTGGCCCCGCCTGCCCCTGCCTGCCCCGCCCGGGCCCCGGCGGGCGCCCCCCGCG
GCGCTGCCCCGCCCCCGCCGCCCCGCGCCGCCCCGGGCCTCGGCCCGCAGCCCGGCCGCCGGCCCACCTGGCGCAGCGCCGCCCTCGGAGCCCG
CGCACACCCGCGCACCCGCGGCCGCAGGAGGGCCCAGCGACGCCGCCGCGCCAGCTCCCAGGGCCCGGCCCCCCCCGGCGCTCACGCTCTCGGG
GCGGACTCCCGGCCCTCCGCGCCCTCTCGCGCGGCGATGGCCCCACTCGGATACTTCTTACTCCTCTGCAGCCTGAAGCAGGCTCTGGGCAGCT
ACCCGATCTGGTGGTGAGTGAGCCTCCTCGCGTTCGCCCCTGCCCCTGTGCGCCGCGCCCGCAGCAGACGGTCCCCTCGGGCAGGGACCCCGCG
GTGGCCCGAGCCCGCGCCCTTCTGCTCCAGCCCCGCGTGCGGGCCGCGGGCGGTTGGTTTTCCTTGACGGCCACTTTGGACCTGTTCAGGCCGC
TGGGACGCGTGGGTGGCGGAGTTTCCGGAGACATTGATTCCCGAGCGGGGGAGTAGGGGAGGTTGCGGAGGTCCTAGCTGCCCCTGGCGTCGGA
CAGGGCGAGCAGTGGGCTGGGGAGAGGCTGAAAGAAGGTCGGCACGCACGGTCACCGAGGGGACAGGCAGCTCGAGGCCAGGGGACAGGCGAGG
GAAGAGGGCCAGCGAGAGAGAATTCGCCGGAGACTTTCCTCAAAAACCGTATCTTACACACAAACACACACACACGTTTTAAAACAAAGTCGAT
GAGACAAGACTGAACAGCTCGGAGCAGCGTGGTTACGTAAAGAAAGCTGGGACCCGGCGGGGAGTGGCGCAGAGCCGGCGGCGGGGCGCACTGG
GGGCCGGCCCTGGGCCCCGCGCGCCTCCCCGCCGCAGTCCGGGCACGGGGGTTTCCAGGGGCCCTCTCTGCGAGCCCTCCGCATGGGTCCACCT
GGCAATGAGGGGCTGCTGTAGAGAGAGTTAAGGGTGAGTTAAGCACGGGGTGTGAGGGGCTCCAGGACCCTCAATCAGAAAGCGCTGTGCTGCG
CCCTCCACACCAGAAAAGGCGCGTTCCGTGAGACCCTCCCCAGCCTGGCGATGGAAGTGCAGATAAACCAAAGGAAGGGTCCCGAAAGGTCTCT
CTCAGGCCTCCCACCTCCACTGCACATATCCTGTGGGAGGGGGAACGGTGGCCACACTTTCGCCAGGGCTTGTGATCCCTCAGAGCCCTCACCA
AGCAAGGATCACCCCAGTTCCGAATTAAGGGCGCTCTGAGATGCCCAAGATTGAGGAACACAAGTGGGAGGAATGTGGGCGCGCAGGGCCGGGC
GCAGCGCTGGTAGGACCCACAGTTGGAGAGAAGCCTCCCCACAAGCATGCACACTCCCCCCCATCCTTCTCCGACGGCAGCCTGGAATTATAAT
AATTACGCCGAGGGGAAGGGGGGAGACCCAGCGAGCCGAGGTACATCTAATCCGATAATAATTTTTCTCTTCGAGATGGTTCAGGAGCGGGGGC
TCCCGCGGTAGGGGCGCCGGGCCAGGAGCAGCGGGGAGGGGAAGGGGCAGCCCTAGGCAGCTGAAGGGCCTGGAAGAGGCCACGAGGCCGCGGG
GACGCGCTTCGGGGACCCCCGCGCGCCCCTATTTCCGCGTGCCCCATTTCCCGTGCGGCACCTGCTGCGCCCAGTGGCCCACCTGAGGGTCAGG
CTCGGGGCTCGCCTTGGGGTGCGGGGATACTGACGCGCGTCCAGACGGCCGCAGGGAGCCAGGGGCAGCGCGTCCGTCCGAGAGAGCCCCGAGG
GCTGCCGGCTTACGCACCAGGCTTCTAATTAGAACCCGCCGCCGCGTTCCTGAGCGCAAAAGGAAGCTCCTTCGCCCCGCGCCCTTCCCATAAA
TGTCGCCAGCCTCCTGGCAACCCCGCGCCCTAGGATCTTTGTCTTGTCGGCCCTGAGGGTTCCTAGCCTCGGTCCCCATCCACCTCATATGCAT
GTATACCTCCTTTTCACCTGGGCCCCCTGTGTTCTACCCTGAATGGACCCTGAGACACCCTCGGGGACAGTCAGGCATTCTGCAGGGGAGCCAG
GAGGAGCAGAGAAGTGAAGTCCCTGTACCCTCCGCACCCTCCTATCAAGAGTCCAGGACAGCCCTTTGGCCACACAGGGAAGCGGGGCATAGAA
CCCCACCTGACACTGACCGGGGTGGGTGGTGAGGACCCCTCCCCCATCCCCACCACCACTTTGTTCTCAGTAGGGTTCTCACACTTGGGGATTC
TCTGCTTCCTGAGAAGCAGCCTCCCCTTGGGGGAGGCTGGCTCCCTGGGGACAAGTCTGCCCCCTTCTTGATCCCCTCTCTGCTCCCAGGCAGG
CTGCTCGGGCTGGAGCAAAGACATGGCTTCCCCCAGGCATGAGCAGCACCCCGGCAGCATAGGGAAGAAGACTCACAGAAGGACGCAGTGCTGC
AGGACCCCTGCTGCTGGACCCCTGCCGCTGGCATCCTACAGTTTAATAGCCTTAATAGCCGGGGAAGATTCTCTCTCTTTCTCTGGTCTTCTAC
CCAGTAGAGCATCTCCTCCTTTCTCCTGCCTCCCCGCATCCACCCCAGATTAAGCATCACCAGGGGAGGAGGGGACCTTGGCCCCTGCCAGGTG
GGCTCCTGGTGAGCCCCAGTGGAACAGAGCAGGCTGGGGTGGGGGGCCTCCCTGTAACTCCTCACCTGTGCCCCCAGCCCCTCCCTAACATGAA
GCCGCTGGCCCCTTGATTCTCCCCCCTCCACCATCACCGGCACATGAAAGTGAAAGTGAAGGGGAATCTCCTCACCTGGAGAAACAAACCAGGA
AACAGCCCAAATCAGGGTAATTAGGCTTTTGAAGTTGGCAGAGGGAGAGGCAAAGGTGTCCCTGTGGCCAGCAGCCCTGTGAGAGTGTGAAGGG
CCACCTGCCTCCCCAGGGCTGGGTGGCCCAGAGGTGTCTTATACCCACGCAGCAGATGCCAGTGGTCCCAAGGCTGAGCGGGTCTGAAATGCAG
AGAGACGGGCCTAGCCTAACACTGAATGGCCCAGAGCTGCACAGATGTCCAGGGGCATCCATTCTGAGCTCATCCAGTGACAGAGAGGAGACAG
GCAGGAGACCAGACCAATGCATATGCATCTGCCCACCTGCGTCCCATGAGGCCACAGACGGCAGGAACCTAGTGGCCCCAGCCTCCCAGCACGC
CCCTTCTAAGCTGAGTTCTCAGGAACAAGAATTCTTGGAAGAGCCCACATGGACAGAGGACAGGGCAGCTGCGCTGCAAGGAGACCATGGCTCC
ATCTGAGAACAATCCCCAGGCACACCCGCACTCCAGGGCACTCTGAGCACCTCTCCCTTCTTCCCATGTCTGGGTTAACGGAATCTTGTCATCT
CCCCAGGGACCCCACCAGGACCCTAGAGGTGGGCCTGTGCCTCCCGCCACCGCCTCCCCAGGGTCCAAGCCCACTTCAGGGCTTGCAACTGGAT
TTTGTTCATCTTTCAAGTCCCTCTGCTGCCTTTACCAGACTGGGCTGTGGCACTCCCGCCACGGCCACCTCCTGCTTCCGTTCTCAGTCCTGGC
CCTCCCCTGGGACCCACACCCTCCCAGCCACCTGGAGTTGCTGCCAGGCCTGGCCATAGCCCACCGTCGCTGCCTAGTGGAGCACAGCAAGCTCC
ACCCCTTACCCAGCCCTGCTCTCCCCTCTCAGGCCGTTCCTTCTGCCCCGGCCGTCACCAGCTCCTGCTGGACTATGGGATCCCAAGCACAGAGGC
CTGGCTGCTTGCAGATGGCCACCCCAGTTGTCCCAGCGAAGTGCAGTGTGGGCTGTGTCCAGCCTTTTGCCTGCCCCTGGCCTGCTCCACAGCC
TCGCTCATGCTCCCTCCAGGGTCTCCCTCACATCCCTCTGGGCCTCGAGCTTGTCACTATGACAGAAACACATCATGACCTCCATTTTTATAGG
GCACCTCACACAGCCCTCAACAGAAGATGTAGGCCCTTTCAGGCCCCCACTCTCCTACACACTCATGGGTGCAAACAACCTCCTGGGCACAAGA
GCTCAGCCCCTCCTCCTAGCCCTTCATGGGCTGGAGGGCCAGCACACTTGGAGGCCCTGCTCAGCCAGTGTCTGCACTGCACCACCGCCAGGCA
CTTCGCCCCTGTGTCCTCAGTCCTGGTGGGCCTCATTGTGGTGGGGAGACAGCCTGACTGGAAGAGGGGTCGGGTGAAGAGGCAGCTTAGAGAG
GCAGGAGCCAGGAAAGGGTGCAGGAGAGAAGGAGCTCGGCTGGAATGATGGGTCAGGCATACGTGTGTGGTGTGTGGGCAGGTGGCTGCAGCAT
GGGTGTTTCGGGGACTGAGAGGGGCCAGTCGAGCAGGGCAGGGACATGGCCCAGGGTACCCAGAAGCTCAGATGGGAAGGGCCTTGTGATAGGA
GGGATGGTTGCCACTCCCAGAGTCACCCTGCCTCCACATTAGCCTGCCACTGGCCCACTCCCTCTGCAGGCCTGGCCTCACCCTAGCCCCTTCT
TCCTTCTCCCTTCGCCCGCATCTGTCTGTGTCTCTCTGTCTCTGTTTCTCTCTTCCCTGCCTCTGTCCCTCCATATCTCCATACCTTTGTCTCT
CAGTTTCTCCCTGTCTGTCTCTCTCTCTTCCCTGTATCTGTCTCTGCCCGTCTCTGTCTCTATCTCTCTGTGTCTGTCTCTCTCTTTCAGTCTT
TGTCCTGTCTCTCTCTGCCTGTTTCTGTCACTCTATCTCTTTTCATCTCTGTCTTTCTGTCTTTTGCAGTCTCTGCCTCTCGTCTCTGCCTCTG
GTGCTGAGGACAGCAGTCACTAGCAAATAAAACTCGTGAAACGAGCTGAGTGGAGCCACCAGGCCAGCCCTCCCAGAGCTGTGGGATCTCAGGG
CCCTGGGGGTGGCATTGCTTCTCAGAGCTGCCCACACACAAACCCCTCCTGAGGGTGACGGTCAGGAGTGGCCACACGTCAAGTGTCTGCAACC
AGACATTGGCCCTGCATAACTGCCAGGATCCGTAGCCGCCTCAGGGACGCACAGCACCCTTCCAGAGTGCAAAGCTCCTCCTGCCTGGTGCTCG
CACCTCAGGCACTGGCCAGCTTGGGCCCTTGAGGCCAGCTGCCCCTCTGACTCACGGGGCTTGTTCTAACGATGTTTGCTTCGCATAAGCCTCC
TAGAATCTTTTGTAGCAGGGAGAGCAGGATGAGTAGATACAGTCATAGCAGCCCAGTCTTAGGGGTGGTGACTGCCCGGTGGCCACTTCTTCCA
CTGGGTCCCTTGTGCACATCACCGTACTGTGAGGAGGGAAGCTCCGGTGTCCAGCAGCCCTCCCAAGATACAGGTGACAGGGCTCCCGCCATCT
CCATCCAGGGACCCCGTTGGGGCTTCTCAATGTGGGGCCTACCATGCAGAGCCCAAATGTGAATGCTTGGCCACCTGCCATGAAGAAATCAGAA
CAGAAATGGGAATTTAAAAAGGATTTGGTGACATTGTAGCGGTTTGACGGTGCTGCAACCATTTCTGTGGATTTTGTAATAATGGAAATTTAAA
AACAAACCAACCACGTCCCTCTGTTGGGACTCTAGTCTGAGAAAGCCAGCCTGAAGCCACACCTGGAGTAATGGGGGTGGGGGGGCTCTCTCAA

TGTGGACCACTGCCTGTAGCCCTCATCCATTGGATTTTTGACCCAAACGTGAGACTTCTAACTTGCCCCCTTTAAGAGTAGTTGAAGGGCTGGT
TGCTGTTTCTGTTCAGAAGACCCGCTTCATGTCTCTGAAGGCTATTGGCTGGGGAAGAAGGATTAGACTGTGGCTCAAGGGGCAGGGGCTGGGG
CAGAGGTTGCAGGTGCCAAGGAGGCTGGTTCTGGCTCCCAAAGAGAAAAAGCTCCCTAGGGATGAGAGCCTGTGCCCCAAGTGGTACCAGGGAG
GTGCTGAGCTGCAGCTACCGAGGCCGAAGAAAAGGAATGTCATTCACAAAGGAGACCTGTACAGCCCCACAGACAGGGTCTCGCTCTGTCACCC
AGGCTGGAGTGCAGTGATGTGATCTTGGCTCACTGCAGCCTCGACCCTCATGGGCTCAAGTGATCCTCCCATCTCAGCCTCCTGAGTAGCTGGG
ACCACAGGCGAGCACCACCACTCCCAGCTAATTTTTGTATATTTGTAGAGATGGGTTTCTCTCTCTACAAGAAACCATTTCTCTCTCTAGAAGA
AACCATGTGGCCCAGGCTGGTCTCGACCTCCTGGGCTCCAGCAGTCCTCCCATCTTGGCCTTGTGAGTAGCTGGGATTACAGGCTCGTGCCACT
ACGCTTGGCTAGTATTTTTCATTTTTTGTTGAGATGGGGTCTTGCTCCGTGGCCCAGGCTGTGCACTTTAATGTTGGACAATCCCCCACCCCAC
CCCTCACTGGTTACAGCCCTGAGGCTGGTGAGGGGCACATGGCCTCTTCCTTGGCCTCCCTACTGGCCTCCCCAGGTGACACCCTGGAGGTGTC
TCTCACGTTGCTGCTTCCACATTCCTTCCCCGGCAAAACGTGCCGCTGCCGCCCAGGGAAACTGGCAAGTGCGTGGCCGCGGGCACAGGAGCCG
CTGTGCCTGCTGGGACTCGTTCAAAGTATGTGTCAGTAATCCCAGCTGGGCCGGCGGGCAGGAGGAGGTGCGGGTTGGGAGAGCTCCAGGCAGG
GCTGGGCAGCCTGGACTGGGAAGGGTTGCCGACACCCAGGAGGGACCTGGGGGCCTTAAGTCCTGGGGACCCTGGCCGGCTCACAAGGTGCTTG
AGCTGCCGAGAGTGGTCTTCTAGGCAGCTGCAGTTCCACCACTGGGTGTGAGAAGAAACCAGAACCTTGGGGGTCTCCCAGGCAGGTGGGTGCC
CTCGGGCAGTCTCAGCCTGGGCGAGATGGGAGGTCATCCACCAACAGGGAAACACTTCGAGCCTCAGGTCTGAGGAAGGAAGCCTTATCACCGC
CCATGGAGTGGCCCTGATCTTAAGAAGACAAAGATTTGGAACAGGATGTTTGCTCCAGAGGCCCCACAGAGGGGAAGCCCACCTGCCCAAGCAG
GACCCTCAATGGCAGAGACACCCACCTGCCCTGGTCCTCCACACCTGCCTGCATTGCAGCTGTGCTGGAGCCAGAGGGGTCCCAGGAGGCGACC
AGCTGGACTCAGGGCACAAATTGCATCCTGGAGGGGTGGCCCTGGCAGGTCCGCGAGTGGGGTGCACTGGGTCCCTCTCAGGCCAGGAGGAGGC
TGAGATGACATCCAGCAGGGCAGCAGGGCCTGAGATCAGTGTCCCCATTCCATGCACTGCTCCCCTCCTCTCTCAGAGCTTCAGGTAGGAGAGG
GGTCCATTACCCCATTTGACAGATGGGGAAACTGAGGCCCAGGAGGGGAAAGAGAGAAAGAGCAAACAAACAAGCGAGTAACAGGGCCCGAGTT
GGAGCCCATGCCCACCTTCCAGGCCTGTCCACACGCCTGCATGGAGCATTACTGTGAGGTCCCCACGCCCCCAGCAAACATGCAAGCACAGAGC
CGTGCCCTTGGTACATGGGTGCTCTGAGTTCGCTAAATTTTACTGCTAAAAGACACCAGGCCTGGACTTGAGAAACCTAAGAGCCTGCCAGCCT
CAGAAGGACTTGCACAGGAACAGTGGAGGCTGGATATGGTGGCCACTCAGGACCCCCACAGCTGTGTGGCTGCGAGAAGGCCCCCACGCTTTGC
CCTGAGCTTCCATCCACAGGGATTAGGTAGCACCTCCAGTGCCGCCACGTAAGATGGGAAATTGCACATGGGACCAAACCAAGCCGGGGAGGCC
AGCGTGGCCCGGACTGGGCTGGCCTACCGCCCGCCTTGTGGTCCTGGGCCAGCCTCCTTCTTCCCCTGCATGTCACAGCCAGCATCTCTGCCGT
ACCTCTGGCGAGCTGCCCAGCCTTTCAACAGAAGTGAGGGAGTGGGGAAGAAAAACCATTAGTGCTTGTGGGCTGGAGGCATGGCTGCTGTGAC
TTTGGCCACAGGCGGAAGCCATGGGTCTAGGGACTGGGGCCATTTTATAAAACTACATTTGTGTGTGTTCTGAGTGAATATGACAGCCTCCCCT
TCAAAACAAACGATTGTTAGGAAAAAAACAAAACAAAACAAAACAAAACCTAACAGCATTAGTGAAAATCTGGAAGGAAAGACAAGTCTGTGAT
CTTATCAACTTTTTCAACTTTTTGTTTTTCTAAGGATAGAAACAGTTTGTGTTCTGTTTTTGAAAACTCACTAAGCATCATCTCCATTTCTGGG
GCCTTCTGGATGATCACACGATGGTTCCACTAGGTCTTGTGGTGCTGGTACTGCGATCTGCTAGCCCAGCCCTGCCGTTCCCTCCAGAGCTGGG
ATTCCAGGGAAAGGGGACAGAGCAAGAGAGGCTGGAGATATTGGAAGAGCAGGGTCACATTCCCTTGGGACACCAATTTTGCACAGCCAGAGGG
ATATCTGGTGTCCCATCCAGTTGGGCAGTTAGAATTCCAGCCACTCAGCTGTGTGGCAGCTGGACGTGGGAAACATGGACTCTTCCTGGGACGC
TGTGGTGTTGGCAGTGAGAGGGGAGAGGGAATGAATTCCTCATCCGGTGAATCACAGGCTCGGGGTGCAGGGCATGGGGGCAGGGAGGGCAGGC
TGGCCTCAGCCTCTCCCCGGGGACTGGGCCCAGCCTTCCTGCCCCTGCTGTTCCCACCACCCTGAGGCAGGGCCCAGACCTCACTGTGATCCAG
ATCGTTGGCATCCAGGAAGTGAGTAGGGAGTGACGGATGGCAAGACCACCACCCCCGCCTCCCCCCCACCCCCGCCGCCCAAGTGCTTACCTGT
GGTTCCTTGTGTGAGTGATCCTCAGCAAGGACCCTTCGTCCTTGACCAGACACTTGTTTGCATGCCTACAAAGCGTGGGAGAGGTCGAAGGGGA
GATTGGAGAATTCATCAGAAGCCCCAGAAGCCCAAGTGGGAGCTCCTGGCCCTGCCTGCTGGCTGGGGCCACGCTTGTCTTAGGGCACCAGGCA
GGACAGTGGCCAATCGTGGCTGCTCCGCCTGAGGCCATGAGCAGGCAGGAGCCACGGACTGACAGCCAGTGCTCAGGGTCTGTCTGTGCCCGTC
ACCTTCTGGGCACCCGATGTTGCCCCTTTCTGTCCCCCGCATGTGCTTTAAGCGCCTGCTACTACCTTGCTCTTTTGGGGATCCTACTGACTAG
AGGGTGGAGGTAGGTCCCTGACCCCCCAGGGTGATTATCAGCAAGGCTGACTCCCCAGGGACTCAACCCAAGGGAGCCCCCAAGGACCCTCAGA
GTCCTCATGAAGACAGACAGGGGCCATGGAGCAAGTTTAGACTCAAGGAAGCCATAGAAGTTTCCCCGTCAGCCTTAGAATGTCCAAGCTAGAG
GCAGCCTGGGTGAACCCAGCACACATTCCCTGTGGCACTCACGCTCCTGGGGCCACCCTGGGAGGACCCTGTTCTAAACCACAACTGCCCAGTT
CAGTTGGGGAAACTGAGGTTCCAACAGTCCCAAAGCTGCAGGTGCAACTGTTAGGGCCACCACCCATGTCCCCCTGGGTGGCCTCCTGGGGTGG
AAAGGGGGCTGCATTGGGGACAGGAAGCCCTATGATGTCTTGGGTCATCAGCTGCAAGGAGGCTGTCCAGGGTCTGTGTGACTTGCGCCATTTA
TCTCTGACTCATTTATAAATGTTATTTTGCAGGGACTGGGGTTTCATACGTGTACTTGTCCATTCTGCATTGCTATAAAGGAATGCCTGAGACT
GGAAAGAAAAAAGGTTTAATTGGCTTAGGGTTCTGCAGGCTGTACAAGCATGGCACCGGCATCTGCTGAGGCCTCAGGGAGCTTCCACTCATGG
TGGAAGTCAAAGGGGAGGTACGTGTGTCACACGCGGGAGAGGGGCAGGGGAGGGTGCCAGGCTCCTTCTAACAACCAGCTCCTGCATGAACTC
AGAGGGAGAACTCCCTCATTACCGCAGGGAGGGCACTGTGCCATTCACGAGTGATCTGCGTCTGAGACCTAAATGGGTGGGGCCCACTAGGCCC
CACCTCCAACACTGGGGGTCGCATTTCAACATGAGATTTGGAGGGACACACATCCAAACTATATCAACACATTTGAAGGGCATTGTAGGATCT
TAGAAAGCAGTGGCCCCTGGAGGCCAACATGCGGGAAGCCCTGTTCTGCTGTATTAGCCGGTGGCTGTGGCAAAGCTCCATTCCCTGAGCCTTG
GCTTCCTGCTCTGGGAGGTCCCAGTGCCACCTATCCAGGTCCTGTGGGTTTCAGGGAGCCACATAACTAGAGCCCGTGGGGAGGTCACCAGTGA
GCTCTGCCCAGCAGGTGGAGGCCAGGTAAGGGGCTGGGTGGTGGTAGTAAGAGGAGCGATGCTGGGTATTGGAAGGGAGAAACAACCAGCTTCA
GCAAGCCTCCCTTTCAGAGACAAGAGTGCTGGAAAGGTGGAGAGGCCGCAGGAGGAGGGAAGAGGAGGGACTAGCTCTCTAAAGACCACAGTGG
CCAGGCGCGGTGGCTCACACCTGTAATCTCAGCATTTTGGAAGGCCGAGGCGGGAGGATGGCTTGAGTCCAGGAGTTCAAGACCAGCCTGGGCA
ACATAGACAGACACCATCTCTACAAAAAATACAAAAGTTAACCGGGCATCATGGCACAGGCCTGTGGTTCCAACTACTTGGGAGGCTGAGGCTA
AGATGGGAGGATCCCTTGAGCCCTGTAGGTCAACGCTGCAGTGAGCCCTCAGCCTAGACGACAGAGCAAGACTTCATCTCTAAAAAAGTAAATT
AATAAAATTTAACAAATAATAAAGGCCATGGCAGTGGGCTGGCGGAGACAGCGGTGGCTCGGGCCCCTGGAGCTTGCATAGCAAGATGCTGGAG
GTGGCAGCCTGGCCTTCAGATCCTTCTCCTTCTCTGGGTCTGAGAAGCTTAGGTGTTGGAACTCAGAGGTGGTCAGGAAATGCCAGCATGAGCA
GGAAAGTGAGAGGGAGTATCTGCTGGCTCCCAGTGCTGCAAGACCCTATCTCTACAAAAAATACAAAGCAAGAGAACAGCACGGGGGCTTTGCC
ATTGGCTAACGCAGACTGACCTCCCCAGTTTGGGCATGAACATCCTTTTCACGTTCCAAGGTGGGATCCGGGAGTCCAGGTTGCATTGTATTTG
ATGCACCCTGAGAACTTGCGCTGAGAACAGGACCCTGGGGACACTCGATCTCGAAGACGGGGTTCTCATTCACTCTCCATTTGCAGAGCCCCTC
CCCCACTCACTGCAGCCAATACTCCCTGGCGAGACCCTGAGACAGGCCTGTCTGTCCCTTGTCCCAGGCAAGCCTGGCCCACAGGGTGTGGGAG
GAGGAAGTTACAGGTCATAGTTTCCCAAGCACTGATGGATTCCGGGCATCTGCATTCTCCTTGGATTAGAAATTTGGATCCTAGGAGCTTTTGG
GGGCTGGTGTGGGGATAGTGCCTGTGCAATTTAGATTTTTTTTTTTGAGACAGGGTCTCACTCTGTCACCCAGCCTGGTGTAATCAGAGCTC
ACTGTGGCCTTGTCCTCCTGGGCTCAAGTGATCCTCCCACCTCAGCCTCCCAAGCAGCGGGGACTACAGGTGTGTGCCACCACACCCAGCTAAC
CTTTGTATTTTTGTAGAGATGGGGTCTTGCTCTGTTGCCCAGATTGGTCTTGAACTCCTGGCCTCAAGCAATCCACCTGCCTCAGCCTTCCAAA
GTGCTGAGATTACAGGCATGAGCCACCATGCCCAGCCTTATATTTGATTTTCTTTTTAATGACCCAACTGATCCTTCAAGGCCCAGCCAAAATC
TGGTGGCCCAGTGAGCCTCCAGGGCCCTCCTCTGCACTGCTCCCTGGCCCCACAGGAGCTCCCCGCTGCCTGCCAGCTTTCCACCCTCCTCAGG
CAGGGTCTGTGTGGCCCAGGCCTTCTGGTGGCCTGGTGCTATCAGAAGGAGAAATCTCTCAGGAAGCAATTCAACGAACTGGAGGGGCCCTCTG
GTCCACAGGAGGCAGGAGAAGCCCATCCTGACCCCAAATCCACAAGGGCCCGTCAAGGGAGGGGTCCCATCAGGGCTGTGAGAGGCCAGGGATG
CTGGAGCCACCTCTGGCCTGGCAGCTGGCCACCTGCACCCTGGCCATACTCAGGAAGGTGGTGGGCCAGGGCCCACCCGGGAGGAGGGTGAGAG
GGGCACAGAACTGGCTGACTCAGCACCCTGAGAATGGAGGCTTCAGACTTGGGAGTCCACCTCTCTGCTTTATCTAGAGACCAGGGACAAGGCC
GCCCCTCCCAGCCCCGAGCCTGCGAGCTGAGGTGGTCCCGGCTCCATGCTGGTCATAGTGTTCTGGGGGTGGGCAGAGTGACAGCCCCCAAAAT
GAATCCAGCATCTAGCCTCGGAGAAGGGATGAGCCTTGGAAATGGCCGCATCCCCCAGGCCAGTCCCTGTTTTGTAAGCAGCAAGCTCTAAGTG

GATTCCTTTGTTTCTCCTCATTCTAAGTCTCCAAGTAAAAAGGACATTCAACTACTCTTGCTTTTCCTTCTTTCAGACACCTCTTGCTCACTTC
CCTGGCTGTAAGCTAGGCTGGCCCTGGAGCCTGGGTACCCGGCCCTTCTCAGACACACTCCCAGGCCTCAGCCATGACACTCAAGTGTTTGTCC
TCTACAACATTCCATTAGGAAAATTTTCAAACATCTGGAAAAGATGCAGCCTTTGGACATCAAAGCCTTGTGTGTCCACAGCTCACACTGAAGT
CAGCCTGCTTTATCTCACACCCACCACCCTCTCCATTCTCTATCTATCCGTCTTATCTTTTTATGCTTACGTCAGTCTGCTCTGTCCCAAATAC
TGTAGCAGGCACGTCCTGAACCAGTGCTGGATGTTTTGCAAGTAACATCCCACATGGAGTCACACCATAGAATGGGTGAAGGGGAAGCATCTGG
GTTCATGGAATGGAGGCACCTCACCTGGGGCAACCACCTCACCCTGGCTTAAAAATGGAAGCCCCTTGCCTGGGCACGGTGGCTCATGCCTATA
ATCCCAGCACTTTGGGAGGCCAAGGCAGGTGGATCACCTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGCAAAACCCCGTCTACTAAA
AATACAAACATTAGCCAGGCATGGTGGTGCACACCTGTAACCTCAGCTACTCGGGAGGGTGAGGCAGGAGAATCGCTTGAGCCAAGAGGGGGAG
GTTGCAGTGAGCTGAGATCACACCACTGCACTCCAGCCTGGGCAACAGAGCGAGACTCCGTCTCAAAACAAACAAAAAAGGAAGCCCCTGCAGT
CCTGGGCGAAGCAGACAGTTGGTCTCCCGGCCTCACCCATGGGCACCCCCAGGCCCCTCTGCTGGCGTTCCTGGGTGCTCTGAGGTGCATGGTT
TGAAAACCACGAGTCCAGCCCCTACGGTCACCTCCCTGGCCTGGTTCAACCCACCTTCTCCTGTCCAGAGGCCTCTCACCCACAGTCCAGGTCA
CAGACAGCTGACCTTGGTCACCACCACTTGGCCCTGGGCAGTGGCAGTGCAGACCATACCCCAGGGACCCCGGATGGTCATCCAGTTGCCGGGA
CTCAAAGGAAGAGAGAGGATGAGGAAGGAGACATGGAAAAAGACTACCCAGCTACCTACAGCAGGAACACCAACCCAGGCTGCATCAGCACTTC
CTGGAAGTGCTGGGATCTACAAAATGGTGGAGGGGGTGTGCAGGGACACCTGGGGCAGGATACCTGCGTGTAGTGAATGAATAAAGAAGTGAAC
AAGGGAGCCGACTGTGCAAGGACAGACTGCAGGGGTGCAGGCTTGAGTGGTGGCCTGGGGATGCACGTGGGGTCTGGCGCGAGGTTATGCACTC
AAATGAGGGACAGACAGGAGGGAGGGTGACTAGGGAGAGGGAGGCCAGATCTCCAGGGGGTAGACATATTGGGGACCCTGAACACTGGGAGTCC
GGTCCGGAGGCCAGACTGGTTGGATCCAGTGGACACATCGACAGGTGGTCATAAGCATAAGGAACTCTCTCCCTCCACCCACCTCCACCAGTGC
CCAAAAGGACCTGGTGATTTCTTTAAATTGAGGTGTATTTTGTACAGCAAAATGGAAGACCCTAAGTGCATGGCTCAATTCGTTCTGACGTGAA
GCACTCACATAACCAACATCGCAGTCAAACGCAGAGCACTTCGGCCAGGCTGGCCTGGCAGAGCTTCCCTGATGACAGGCACATTCCCTATCTA
ACTGTCCCATTCAGGGTAGCCACGGGCCACACGTGAAGCATGGCTGGTGCCACCGAAGGGCTGAGTTTTACATTTCTTGCATTTTAATTAATTT
TAAACTTAATTACATTAATTTAAACGGCACAGGTGTCGAATGCCTTTTGCCAAAAGCAGAGCACAGCCTGGGAGCTGTTGGGACCTGGAAAACG
AGGAGTGAGGTTGCCACGGTGCTGACCTCTCCCGCGGATGAGTGTTGCCTGGTCTTGAGCTCAGACTGGGGGATGCGGAGGGCCCCAGGAGCAT
CTCACAGTTGAGCCCCTCCTCCCCACGTGCTCACGGGAGCCCATGCCTTCGGGTTTCTGAGCAGCCTGGCACCCTAGAGGCAGTCTTCATTTGT
TTATTCACTCTCCTATTGACGGATGCTTGGGTGGCGTCCAAGTTCCTGCTCTCAGGCTCAAAGGCCTGGGAAGATTCCTGAACACGTCTCATTG
TGGACACGTGTTTACATCTAGGGGTACATAGCCAAAAGTGGGCCTGCGGGCTGGCGGGATGGGTCTGAGTTCCACAGTGATTTCTGCGCTGGGT
CACGCCTACATCCCGGAAGCCAGGCCTCCTCCTCCAATCCCAAAGCCAAGGGCATCCCTTCTCTGGGCAGCCCCCACCTGACCCGGTCCCCAGC
CTGAGGTTCTCAGGTTCTAGCCCTGAGTCCCCCATTGGGCTCCAGGTCAACCTGGTGTGAACGGGGCCCATGCAGTTGTGCTGAGCAGGAATGC
GGGGCTGCATCATTTCCTGTTACAGATCTGGACGACTTGAATTCTGAGCTGAGTTTTGGGGATAGGGCAGGTCAGGGTCCTGGCCTTGTAAAAT
CAGACTTCCAGATAAAACATACAGAAAAACACATAGATGATATCAAAACATCTAGAAAAAATTAAATAGCCAGCATTGAGTATTTATTCTGCAC
ACAACATTGTATTAAGCACTTCCTGTATAACATACAGGCTTAAGAGCTGGGCAAGGTGGTTCATGCCTGTAATCCCAGCACTTTGGGAGGCTCT
AGCGAGAGGTCACTTGAGGCCAGGAGTTTGGGACCAGCCTGGGCAACATAGCAGGACCTTGTCTCTACAAACTGTAAAAATAAAAATTAGCTGG
CTCTGGTGGTGTGTGCCTGTAGTCCCAGCTAATCTGGAGGCTGCAGTGAGCCATGATCATACCACTGCACTCCATCCTGGGCAACACAGTGAGA
TTCTGTCTCAAAAAAAGAAAAATTAGAAGGCATGGTTTATGAACATTATTTTAGAGGCCACAGAGAATCCTTAATTGGGCTTTTAAGTAAAAAT
TCTCTTACTTGCAAAATAAAAAATCAGATTTCCTTCATGGTGGAAGCTGCGTCTCGCCCCCCGAATGCACTTGAGGCCCCAGAGCAAAGGGTCT
GTAGCCTGCTCATCTGTGTCGCTGTCCCAGCCCCACACTCACCACCGGATCTTGCCCTCTGCAGGTCGCTGGCTGTTGGGCCACAGTATTCCTC
CCTGGGCTCGCAGCCCATCCTGTGTGCCAGCATCCCGGGCCTGGTCCCCAAGCAGCTCCGCTTCTGCAGGAACTACGTGGAGATCATGCCCAGC
GTGGCCGAGGGCATCAAGATTGGCATCCAGGAGTGCCAGCACCAGTTCCGCGGCCGCCGGTGGAACTGCACCACCGTCCACGACAGCCTGGCCA
TCTTCGGGCCCGTGCTGGACAAAGGTATGGGGGTGGTCTGGGGGAGGGCAGATGAGTCTGGAGTGGGACAGAGTCTCCCGCCTAGCGCTGCCTG
ACATTCTCATCTGTGCACACGGTGGGAACAGTGCCTCACGCGGACGCTGGGGTCCTTCCCGCTTACCTCCAGGAGGACGGTCTGGGGCTGAAGC
AGGACTGAGCCTGTGGGGTTATTCGGGTATCCCTCCTCCTCCTGCTCCCTGGAGAGGAAAGCGGGCATTCTAAGGTGACTCCAACCATGGCCAG
TGGCGGGGCTGCTCCCAGGAGCCAGGGCACAGGCCAGGCTTGCAGAGGAAATACACAAACTTAAAGACCTACAAGAAGGGAGAGGTTTGGGGGC
ACCCTAGAGAAGAAAGAGAGACAGAGAAGACAGAGAGAGACAGAGAGAGAAAGATAGAGACAGACAGAGACACAGAGAGAGACAGAGAC
ACAGACACAGAGAGAGAGGAACAGTGAGACGGAGAAAGAGACAGAAAGATGCAGAGAGAGACAGAGAAAGACACACACACAGAGAGACAAAGAC
AGAGAGAGAGACAGAGAGGGACAGAGCGACCAAAAGAGAAAGACACAGAGGAATAGAAAGACAGAGACATAAAGATGCACAGAGACAGAGAGAG
ACAGAAATAGAGAGAGACAAAGAGGGACAGAGAGAGACACACAGAGAGAAACTGAGAGACAGAGAGACAGAGACGGAGAGAACATGGACAAGAT
TAAAACTTTAGCATCTTTTTTTTAAAAAGTTGAGGTGAAATTCACATAACCGAAAATCCGCGATTTTAAAGTATTCAATTCAGTAGCATTTGGTA
TACTCACAGAATTGTGCAACCATCACCTGCCTAGTTCCAAAATATCTTTATCACCCAAAAAGGAAATCTGTGCGCATTAAGCAGCCATTCCCGT
TCTTCTCCCTTCCATAGCCCCTGGCACCCACCCGCCTGCCTTCTCCCCTGTGATTTAGCTACTCTGCCTGTTTAAGAAACGGCATCACTCAATA
TTTTGCGTCTGGCTTTTTTTCACTGAGTGTGTTGATTCACCTGCACTGTGGATAGTTTCAGCACTTCATTCCTGTTCATGGGCTGAATAATATT
CCATTGCATGGATGGAGCACACTGGTTTATTCGTTCTTCAGGTTGACGCATATGAGCGTGGTCTCCACCTTTTGGCTGCTGTGGCCTTTTCTTG
GACATGCATGTGTTTGAACGCCGTTTTCACACCTTTTGGTTTCTGTATCTAGGAGTGGAATTGCTGGGTCACAGGGTAATTCTGTTTCGCTTTG
CTTGACCTGGGAGGTCAAGGCTGCAATGGGCTGGAACCATCACACTATTTTCCACAGCAGTTGCACCATTTTATATTCCTACCAGTATTGTTTG
AGGGTTCCAGATTCATCCTCACTGATACACTGTTTTCTGGTGTTTGTATTTCTTACTTCTGGCCATCCTAGAGTGTGAAGTAGAACCTACTTCT
GATTTCAGTTTGCACTTCTCTGATGACCGATGATGCCAAGCACCATTTCATGGGCTTTGGGGCCATTTGTAGACCTTCTTTGAAATGTTTAGTC
AAGTCCTTTGCCCATTTTTAAATTGGATTCTTTGTCTTTTTGTTGTTGAGTTGTGAGTGTTCTTTATATATTCTGGATACTGGATGTGCATCAG
ATGTATGATTGGTGAATATTTCTCTCTCATCGTGTAGGTTTTTTTCATTTTTGTGAGAGTGTCCTTTGATACACAAAATTTTTTAATTTTGGTG
AAATCCAGTTTATATAGATGTCATACTGAAGCAAGAATTAGCTAACATAAGGTCACAAAGATTCACATCTATGTTTTCTTCAAAAAACCTAATA
GTTTATCTTTTACTTTGAAGTATTTAATCTATTTTGAGCTCATCTTTTTATATGGTATGAGGTAGGAATCTAACCACATTTTTTTGCATATGGA
AATTCAGTTATTCCAGTACCTTCTATGGAAAAAACTGTTCTTTTTCCCATCAAATGGTCTTGGCACCCTTGTTGAAAATCAATTGGTCATAGAT
GTATAGGTTTATTTCTGGACTCTCAATTCCAGTCTATTGGTCTGTATGTCTGTCCTGTCACCAATACCACATTATTTTGATTGTTGTAGCTTTG
TGGTATGTTTTGAAACTGGGAAGAGTAAGTTTTCCAGCTTTGTTCTTTCTTTTCCAGATTGTTTGGGGGGGACAGGAAAAAAGATTGTTTTGGC
TATTTGGGGTCCCTTTCAAATATATGTAAATTTTAGGAGCAGTTTTTCCATTTGTGCAAAAAAAAATGCTGCTGGGATTTTCATGGGGATTTCA
CTGATTCTGTAGGTTGCCTTGGGAAGCATTGCCTCCTTAACAATATTAAGTTATTTAATTCAGGAGCTCAGGGTCTTTCCATTTATTTAGGTCT
TCTTCCTTAATTTTGTTTGTTTGTTTTTGTTTTTGAGACAGGGTCTCACTCTGTTGCTCAGGCTGGAGTGCAGTGGCATGATCACGGCTC
ATTGCAGCCTTGACCTTCCAGGTTCAAGCGATCCTCCTGCTTCAGCCTCCCAAGTAGCAGGGACCACAGGCATGCGCCACCATGCCCTCCCAGT
GTTTGTATTTTTTGTAGAGATGGGATTTTGCTGTGTTTCCCAGACTGGTCTCTAACTCCTGGGCTCAAGCGATCCACCTGCCCTGGCCTCCCAA
AGTGTTGGGATTACAGGGCATGAGCCACTGTGCCCAGCTTCTGTAATTTCTTTCAGCCATGTTTTGTAGTTTTCAGGGTATGAGTTGTGTACCT
CCATGGTTAATGTATTCCTAAGTACTATTTTTCTTTTTGATGCTATTGTCAATGGAATCATTTTTCTTTTCTTCTTTTTGTTTTGAGACAGTGT
CTGGCTCTGTCACCTAGGCTGGAGTGCAGTGGCACCATCTCAGCTCACTGTACTTCCATCTCCCAGGCTCAAGTAATTCTCCTGCCTCAGCCTC
CTGAGTAGCCAAGCTTGGCTAATTTTTTGTATTTTTTTTTTTTTTGTAGAGATGGAGGTCTCCCTATGTTGCCCAGGCTGGTCTTGAACTTTT
GGGCTCAAGCAATCCTCTCGCCTTGGCCTTCCAAAGTGCTGGGGTTACAGGCGTGAGCCACTGTGGCCAGCTTGTAATTGTTTTCTTAATTTTT
TTTCAGATTTTCCATTGTTAATATATAGAAATTTAACTTTTTAATCAAGAAATACATTTTTTTTTTTAGTTTTGATCCTCAACTGTAACCCTGCT
TAATTTGTTTGTTAGCTTTGAGAGGGTTTTGGTGAATTGTGTAGAATTTTCTACATATAAATTGATGTCATCTGTGGATGGAAACTGCCTCCTT

TCTTCCTATTTGAATGTCTTTTATTTCTTTTTCTTTCCTGATTGCTCTGGCTAGGACTTCCAGTGCTATGTTGAACAGAAATGGTAAAAGTAGG
CATCCTTCCCTCGCTCCTGATCTTAGGGTGAAAACTTTGAGCTGCCTGCATATATGGTGTTGGCTGCAGGTTTTTCTTTCTTTCTTTTTATTTA
TTTATTTTTAATTTCTATTTCAATAACTTTTGGGATACAAGTGTTTTTTTGTTACATGGACAAATTGTTAGTGGTGAACTGAGATTTTAGTGCA
CCCCTCACCTAAATAATGTACATTGTAACCAATATGTAGTGTTTTATCCCTGGCTTCCCTCCCAACCTCCCTCTTCTGAGTCTCCAGTGTCCAT
GATATCACTCTGTATGCCTTTGTGTTCTCATAGCTTAGCTCCCACTTATAAGTGAGAACATAGGATATTGGTTTTCCACTCCTGAGTTACTTCA
GTTAGAATAATGGCTTCCAGATCCATCCAAATTGCTGCAAATGACATTATGTAAATCCTGTTAATGTCTGAGTAGTATTCCATGGTGTATATAT
ACCACATTTTCTTTATTTTATTTTATTGAGATAGGGTCTCACTCTGTCATCCAGCCTGGAGTGCAGCGGTGCGATCTCGGCTCACTGCAGCCTC
CACCTCCTGGTTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCACCAGCCACCAAGCCCCACTAATTTTTGTTTTTT
CAGTACAGACGGGGTTTCACCACTTTGGCTGGGCTGGTCCTGACCTCCTGACCTCAGGTGATCCACCCGCCTCAGCCTCCCTAAGTGCTGGGAT
TACAGGCGTGAGCCACGGTGCCTGGCCTTATACACCACGTTTTCTTTATCCACTTGTGAGTTGATGGGCACTTAGGCTGGTTCCACATGTTTGC
AATTGGGAATTGTGCTGCTGTGAACATATGTGTGCAAGTGTCTTCTTCATATAATGACTTCTTTTCCTTTGGGTAGATACCCAGTAGTGGGATT
GCTAGATTGAATGATAGAACTACTTTCAGCTCTTTAAGGAATCACCATACTGTTTTCCACAGTGGTTGAACTAATTGACATTCCTACCAGCAGT
GTATAAGCATCCTCTTTTCCCCACATCCATACCAACATCTATTATTTTTTGATTTTTCAATAATGGCATCCTTGCAAGAGTAAGGTGGTATCTC
GTTGTGGTTTTAATTTGTGTTTCCCTCATGATTAGTGATGTTGAGCATTTTTACCTATGTTTTTTGGCCATTTGTACATCTTATTTTGAGAATG
TCCATTCATGTCCCTTACCCACTTTTTAATGGGATTATTTGTTTTTTCTTGCTGATTTGTTTGAGTTCCTTGTCAATTCTGGATATTCGCCTTT
GTCAAATGTATGCTTTGTGAATATTTTCTCCCACTCTGTGGGTTGTCTGTTTACTCTGATGATTATTTCTTTCTGTGTGCAGAAGCTTTTTAAT
TCAATTAGGTCCCATTTATTTATTTTTGTTTTTGTTGCATTTGTTTTGGGGCTGTTAGTCATGAATTATTTGCCTAGGTTGATGTCTAGAAGAG
TTTTTCCAATGTTGTCTTCTAGAATTTTTATAGTTTCAGGTCTTAGATTTAAGGCTTTGATCCATCTGGAGTTGATTTTTGTATAAGGTGAGAG
ATGAGCATCCAGTTTCATTCACCTACATGTGGTTTGCCAGTTTCCCCAGCACCAATTATTAAGTAGGGTGACCTTTTTCCAATTTATGTTTTTG
TTTTCTTTGTCAAAGATCAGTTGTCTGTACATTTTTGGCTTTATTTCTGGGTTCTCTATTCTGTTCCATTGGTCTATGTGCCTACTTTCATACA
AGTTCCATGCTGTTTTGGTCACTATAGCCTTGTAGTATAATTTGAAGTTTGCTTCAAATTAGTATAGTAGTATAATTAGTAGTATAATTTGTTT
TTGCTTAGGATTGCTTTGGCTATTTGGGATCTTTTTTGGTTACATATAATTTTTTTTTTTTTTTTTTTGATGGAGTCTCACTCTGTTGCCTA
GGCTGGAGTACAGTGGAGTGATCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGCCATCTCCTGGATTCCCTGCCTCAGCCTCCCAAGTA
ACTGGGATTACAGGCATGTGCCACAATACCTGGCTAATTTTTTTTGTTGTTGTTTTTGTTTTTTGTATTTTTAATAGAGACGGAGTTTTGCCAT
TTTAGTCAGGCTGGTCTCAAACTCCTGACCTCAAGTGATCCACCCACCTTGGCCTCTCAAAGTGCTGGGATTACAGGCTTAAGCAACCACACCT
GGCTAGTTCCGTATAAATTTTAGGATTGTTTTTCCTAATTCTGTGAAAAATGATGTTGGCATTTTGAGGGGAATTGCCTTGAAGCTGTAGATTG
CTTTGGGCAGTATTGTCATGTTCACAATATTGATTTTTACTGTCCATGAGCATGGGATGTGTTTCTGTTTGTTTGTGTAGTCTATGATTTTCTT
CAGCGGGGTTGGCTGCAGGTTTTTCACAAATGCCCTTTATCCAGTTGCCCCAGGTGGCAGTGGCTTTATTTAACTTTCAAGGTTTTCAAAGACC
ACCCTTCAATTAGCCACTGCTCTCTCCTGAGACAGTTCTGAGTTAGGCAAAACGAGTTTTTTTTTTACCCAGACAGGTTAAAACAGACAAACAA
TTCCTTGGGGAAAAGGTCTGCTCCGCTCCCTCCAGAACTATCCACCCACCTGGGGAACGCCGGCCTTCACTGTCCCAGGCAGGTTTGTAGGCAC
CACCACATGAAAACACTACCAGGCTCTCCTAGCAAGTCAAGGTCATCATTTCCTCAAGTTGGCATTCAGTGGGTTGCGGTGACCCTTTGACTAC
TTTCCAGAGAGCTAACAATGTCGGTACTAACCGTTTGTGTCTAATTTTTTGGAGGGCCCTTGGAGCTTCCTTTTGGGTTCCAGGCTGCGTTCTG
GGGTAGAGGACACAGATCCCACCACTCGATGGAGCATCAAGGTCACCTTGGGAGACCCACATGTAGGGCGGAATGTGCATAGTACCATCCACCC
CAGGGTGGCTCAGCACAGTCCTGCCGGCAGAGGCGGGGCCCAGGGAACCACAGCTGTGCTGAGCATGTGGTCAGCAGGCCGAGGAGACTTTGGA
GACCATGGTGCCGAAGGAAGGCTACTCAGACAAAGCGAGACAGGTCACGCTGGGAAAGTCCTCCCAGGGACCTTGCAGTCCTGGGGGTCCTGTT
GGCAGAATGCCCAAGGCCAGAGTTCATCTCACTTCTCCACAAATCTGCTTCCCCGCTGTCTCCCTCATTTTATAACGGACAACCCCAGTTCTCT
GTTGCTTAGGTCAAAAACCCTGGGCCCCTGGCTGCCACCTTACCCTCCTCCCTGTCCTCCCCGCAATAGTATGAATGCTTGTGCCCACCCCCCC
CCCAATTCCTACATTGAAATCCTCACCCACAGGTGACGGTGTTAGAAGGTGGGGCCTTTGGGAGGTGGTCAGGTCATGAGGATAAAGCCTCATG
AGTGGGATCAGTGCCACTGAGGCTGAGGTGGGAGGATTGCTTGAGGCCAGGAGTTCAAGACCAGCCTGGGAAACATAGCAAGACCCCATCTCTG
CAAAAAATAAGTTAACATATATTAGCCAAGCACAGTGCCTTGTAGTCCTAGCTACTCAGGAAGTGTCACTTGAGTCCAGGTTGAGGCTACAATG
AGCCATGATGGCACCACTGAGCTCCAGCTTGGGCAACAGAATGAGACCCTGTCTCTAAAAAAATATAAAAATAAAAATAAATAGGCCAGGCGTG
GTGGCTCACGCCTGAAATCCCAGCACTTTGGGAGGCGGAGGCGGGCAGATCACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCTAACATGGTGA
AACCCTGCCTCTACTAAAATACAAAAAAATTAGCCAAGGGGGGTGGTGGGCATCTGTAATCCCAGCTAGTCGGGAGGCTGAGGCACGAGAATCA
CTTGAACCTGGGAGGCGGAGGTTTTAGTGAGCCGAGATCGCTTCACTGTACTCCAGCCTGGGCAACAGAGTGAGACTCCATCTCAAAAAAAAAA
AAAGGAAAAATATAAATAAATAAACAAATAATAAATAAATAAAAAGGAACCTCTCAGTCCTTCCACCATGCATATGCTGACCCAGCGAGAAAAA
GAGGTCTGACCCAGTGAGAAAGAGAGGTCTATGAACCAGGATGTGTCCTCGCCGGGCACTGAACCTGCCAGTGCCTTGCCCTTGGACTTGTGCT
GTTTATGAGCTGCCTGGCTATGGTGTTTTTTTAGAGCAGCCCACACGGACTGAGACACTCTCTGTGTCTTCCAGCCCCACTGGCCTCTTGGCTG
CTTCTCAAACACTGAGCATGATGCCCCCTCCCTCCCACCTTTGCACTTTGCAGTCCCTCTGCCAGGAACACCCTTTCTCCTGTAGTAATTCCCA
CAGGCCCTCTCAGGAGTGTCCCCCACGCTTGCTCCTATCCCCCAACCCTGCTTCACAGCCTCTGGTCAGCCCCATGAGCTGATGATTCTGTGGA
AGGACAGCATGGCCTTGCTCAGCCCCTGCAGCCAAATGCGAAGGAAGACCACAAGTCCTTTGGAGGGGAGGTGCCTGGCCCTGGGGGGCCTGGC
ATGTGCACTGACCAGGAGAGCTCCTGAGTGTGCAGCTGACACTGCCTCCAGGGCTGGTGGGGCCTGGCTGAGGCCATCCATGGGCAGGAGCCCT
CCAGCATCCAGTGGCCATGGCCACGCCCCAGCCCTCATCACGGGCCTGTGTTCTTCAGGCGTGGGGAAGGCACCGTGGGGCAGAGAGTGGGGAC
CCGAGGGTCAGGCTCAGAGTCCGGGCACTGGTCACTGTGGGTCTGGGATGAGGAGGACGTCCCTGAAGGACAAGTCAGGGTCCCTGTAGGAGAA
GAAACTGGAGCTTGGGGAGCTTGGATGGTGGCCTTCCTGTGATCTTGAGTGAGAGGCAGCTCACTTCCTGGAGCATCAGCCTCCCATTTATAAA
GTGGAAGAATACTTACAGCTTGTCAGACCTCACAGAGCTGCTGGCTGGGGTAATACACCACGCAGCTCCCCTGGAGATAGCTGCCAGGGTGCAC
AGGAGTCAGGTCCCAGGGCCGTGCAGCTCATCGAGCGTGTCCAAGGGTGTGTGTGGCGTGTGATGCATTGTGTGTATGTGAGTGTGCACGTGTG
TGGGAATGTGGTGTGATGTGTCATGTGTGCACATGCATGTGGTGTGTGGGGTGTGTGCCTGTGCATGTGTGTGCATGTGTATGTGTCAGGTGTA
GTGAATGTGTATGTGGTTTGGTGGATACATGTGCCTGTGCATGGGTGTATGTGGATGTGCCTGTGCCGTGTGCATGTGGCTGTGGCATGCATGT
GCATGCCTATGTGTGCATGTGATGCAGTTGCTGCCCGCTAGGGTTCCTGGGCTGTGCTGTAGCCAGTGGTGGCATGGAGGGAGGCATGGGCAAC
ATATACACTGCAAAAGGCCAAGAGCACCAGACTGGGCCCTGTGCCATGTGCTTGCTGGCTCCAGAGCCAGGATGGGGTGCTTAGGGCTGCCACT
CCCCCTCTGAGAAGGAAGCAGCGATTTTAGGAAGAAAGCAGGAAGCCTGTCCTGCTTGGAGCCATACCAGGTGATGGAGGAAGGCTGTGCTGCA
TGGGGTCAGAGGGGAACATGCCATTCCCTAAAGCCCTGCTACCCTCGGGAATCTTTAGGATATTTCATTGCCCTCCAGAATGTCAGGGTGTCTC
TCACTTGTGGAAGCAGGGAGGACATCTCACTTGCCAAAGCGGGGAGGGCTCCTGCCCATGGACGGCATCAGCTCACTGACTCCCAACCTGGGCA
TCTGAGCCCAGCTGGAGGCCAGGAGGAAGCTAGCCTCATGAGTCACACCATTCAGGAACCCTTGGGTCTGTCCTCCAAGCTGAGCCTTGGGGAG
CCTGTGCATCACTGTCTGGATTGGACGATGCCCATGGAAAGGCACAGATCTGCACAGATGGGAATCCCAGCCAGCAGATTGGCTGGGGGCCCAG
CCAGCTGAATGCAAAGCCCCAAAGTCGGTGAATAGCACTGGGTCCTAAACCTGATGGCAACTCCAGCTGCTTCAAGGAAAGGCCTATGAACGAG
TCCTGCTCTGGAGTCCCCAAATCTATGGTCTAGGAGCCTGGTCATATACCAGAACTTCCTTCCCTTTTATGGCTGAGTAATATTCCATTGTATG
GATAGACCATATTTTGTTTATCCATTCACTCACTGATAGGCATTTGGGTTTTTTCAATTTCTTGACTATTATAAATAATGCCTTTTGTGTGAAT
GTGTATTTTCAGTTCTCTCTGGCATATACCTAGGAGCAGAATTGGGTCACAGAGGAACTCCATGCTTAACTTTTTGAGGAACTGTCAAACTATT
CCAGAGTGTCTGCACCATTTTACATTCCCATCAGCAGGATCTGAGGATTCTGATTTCTGCACATCTTCATGAGCACTTGTGATTTTCTGCTTGT
TGTTTTTGTTCTAGCCATCCTAGTGGGTGTGAAGCAATGTCTCACTGAGGTTTTCATTTGCATTTCCCTGATATCTAAGGATGTTGAGCATCTT
TTCATGTGCTCATTGGCCATTTGCCTCTCTTCCTTGGAGTAATGTTATTCCATTCTTCCACCCACATTTTAATTGGGTTATTTGTCTTTTTGTC
GTTGAGTTGTAAGAGTGCTTTATATAGTCTGCATACAAGTCCCTTATCCAATACATGACTTGCAAATATTTTCCCCCATTCTGTGGGTTGTCTT

TTCACTTGCTTGATGGTGTCCTTTGATACATGCAAGATTTTAATTTTGACGAATTCCAAGTTATCAGTTTTTTATTTGGTTCCTTGGCTTTTGA
TGCCATATCTAAGAGACAATTGCCTAACCCAAGCTCACAAAGATCTACTCTTCATTAGGTTTTTTTTAAATAAGAGTTTTAGCGTTTTAGTGCT
TACATCTCGGTCTTTAATTTTCATCGACGATGTGAGGCAGGGATCCAATCACATTCTTTTGCATGTGGAAATCCAGTTATTCCAGCACAATCTG
TTGCAGACTGTTCTTTCCCCTTTGAATAGTCTTGGCAACTTTACTGCAAATCAGTTAGCCCTAGATGTATGAATTTATCTCTGTGCTCTTTATT
CTATTCCATTGTTCCATATGTCTGTCTTTATGCCAGTGCCACACTGTTTTGATTATTGTAGTTTTGTAGTGTTTTGAAATTAGAACATGTGAGT
CCTCCTGCTCGTCTTTCTTTTCAAGGTTATTTTGGCTATTTGGAGACAATTACAGTTCCATGTGAGTTTTAGGATTAGCTCATCAATTTCTGCA
AAAAAAGCTTAGATTTTTAGAAATTGTGTTGAATGTGTAGATCGGTTTGGGAAATATTGTTCTACTAATATTATGTCTTCTGGTCCATGAACAT
AGGATATCTTCCTATTTAGGTCTTTAATTTCTTTCATGACATTTTGTAGTTTTCAGCATACAAATCTTGCACTTATTTTGTTAAATGTATTCCT
TAAGTATTTTATTATTTTTGATGCTGTTGTGAATGAAATTGTTTTATTAATCTCATTTTTTAATTATTTGTCACTAGTGTATAGAAACACAAAT
GAGGCCAGGTGCAGTGGCTTATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGACAGGGAGATCATTTGAGGTCAGGGGTTCAAGAACACCCTG
GCCAACATGACAAAACCCTGTCTCTACTAAAAATACAAAAATTAGCCAGGCATGGTGGCACATGCCTGTAGTCCCAGCTACTCAGGAAGCTGAG
GAACAAGAATCACTTAAGCCCAGGAGGCGGAGGTTGCAATGAGCTGAGATCACACCACTACACTCCAGCCTGGGCAACAGAGTGAGACTCTGTC
TCAAAAAAACACACACACATACGCACACACACATACACACACAAATGATTTTTAATATAGATCTTGTACTCTGTAACCTTGCTGGAGTTGTTGA
TCAGTTCTAATGTATTTTTTAATTTGCAGATTCATTAGGGCTTTCTACGTATAAGATAGTTTTATTTCTTCCTTCCAATCTGGATGCAGTTTTT
TCATTTTTCTTCCTTAATTGCCCTGGCCAGAGCCTCCAGTGCCATGATGAATAGCAGAGTTGAGAGTGGACAAACAGCTTTCAGTCTTTCACCA
CTGGATAGGATGTTAGCTGCAGGTAGGCCCCTCTTGCTTTTAAACTTAGTAGTTCTAGATGTGAGAAAAACTTTGTTCACATAAATAAATAGAT
AAAAATGGGAGCACTTAGTTACCATGCATCTCTCAATTCTTTGAATTTTTTTAGAGTTATATATGCCAAAAATCACATGGTGGCCTATCATCAA
AATGTGAAAAAATCCTATCAGCCCATGACTCAGTTAGGTCCTCCTTAAAGTTTGTGGAAAACAGGGAATTAAAGGTGCCTGATTTTCACAAGTC
CCAGTCATTATCAATGGCTCCCACTCTTGCTTTCTGGGAGAAACTCCCTAGGGTATGGCACACTCCAGGAAGATCCAGGAGTCTCCTGGAACAA
GAGCTGGGACCCTTGGGGGTCTCCCATGGGTCTGGTGTGTGACAGCATCCCTATAGCATATGCCACACAGGTATACATGTGGCGCAAATGTACA
CAGTCGGTCCCCTGGGAAAGCACAGAGATGCACTCTGCCACACAGCATATGCTTAGAAATGATGTATTAAGCCAGTGACCTAAGGACAATGGTG
CATGACTCGGGGAATCCCAGGAGGGCTTCCCAGGGGAGGTGGCCCCTGGGCTGAATCTTGAAGGATTTTCTTCCTTTAAAACACACACATATGC
AGTATTTTCTAGGCACCATTTAAGTGTTCGACACACCATGGCCAGTTGAATCCTCATGCCCATCTGTTGAGGCCAGCAGTGCGGTGACCCTGTT
TTACAAATGAGGAAGCAGAATCACTGTGACAAAGCAGAGACATGAACCTTGGCAGCCTGGCTCCAAAGTCCCCAGGCAGAGGGGACAGCCCATG
CCAAGGTTGGGGCTGACGTGGGGGTGAGCAGAGCCCTCAGGCAGGCCCAGCAGTGACAGAGCCTAGCTGGAGCATACAGTTTAGGAATCACTGG
AGGAACCCCAAGCCCACAGGGAGGGCAGGTGCAGCCCGGGAGGAAGCAGAGAAGGTAGGACTCCAGAGGATACCCGGTCCCCATGTGTGCATCC
CTCCGGGCAGGGCGGGGATGGATCTGAGCGGTCACTGAGAATTTCTCAATGGGGCTCTTGGATTAATGCCGCAGGCTCTCCAGGGGCAAGTGGG
CCTCACAGATGCCCAGGTCCTGCCCTAAGGTGCCAGCGTTGGGTTGGGGCGGGGAGCCCCCATTTCCGGTTGTTTTCCTGCTGCTATGCCGGCC
TCTCTGCAAAGGGCTGAGCTCCTGCTGTGCTTCTAGCCTCCCCTCCCATCCCACTTACCTCCCCTGGACCCTCTCCTTCTCCGCTTCTCTGATC
CTACTACCCCCTTCTCCTCCCCTTTCTGATAGAGGAACACAGTCTGGAACCCCTCCTACCTCCTCATGGCTTAAATAGGTTTAAGTAGGAAAGG
GGAAGTCCCGGCTCCTCCCTCCTGCCTGCCATGGGGACTCAGAAATGCTTGGAGTCCTGGTGGCCTGGGAGGAAGGAGCCCGCCGGGTGCCTCA
GAGAGAGGCCTGCTCAGGAGGCCATTGTGGAGGCCCTGGCTGCGCTCTCCATAATCATATGATTGGATTAGGGTCAGGGCAACCCTAATCATGT
CAAAGGTCACCCCAGGCTTTGTGGCAGTGGCCACAGGGTGCCTGACCACCCCTGCCAAGATGGCCTTGTTGAACACAGTTAAAAACCCTCAGTC
AGCTGTGAAGAGAGGGGCCCAGCCTCTTGTGTGTGTGTGCACATGTGAGTGTACACCCTAGCGTGTGCATTGTGAGGGGTGCATGTGTGTGCCT
ATATGTGCACATAAGCCATATATGTGCATGCCTGTGTGTATGCATGTGCATGTGTGTGTGTGCATGAGTGTGAACATATGAAGGAAGA
AGCTTCATATCCTCACACCTCCTGCTTTCATCCCCATCTGCCGTCCACCTGGCCTGGGGCTGGGGACTGGGGCCACCAGACTGAGGCTGGGAGA
AACCATCAGTCCTTGGAACATGGGGCTCTGTCACAGAAGCTGAGCCTGGTCCCTGAAGAGCCCTCTCTTCTGGGGTCCAAAAGGAGCAGGACAT
TCAACCTGCCTGGGGTAGAAAGCATTTGAGGAATTTTAAGTGCATGGAGACTGGGCACACCGTGCAGCTTCTCTGTCCCCTGCCGCAGGACCCA
GGCACTGGGAGGGCTCACTTCCCTGCAGAGCTGGAGACACCTCACTCTTGACCCCTGGCAAGGTAAAGCTGGCAAGGACACAGGTACAGAGAAA
GGGCAGGGACGGCTGCAGTGGATGCAGCAGCCCAGGGCCCAGCAGCTGGATCTCAGGCAGCACGTGGCTCTGCAGAGAGCCTGGCCTGCTCTAG
GCCAGGTGGGGCATGTGCTCCTTAGAGAAGGGGACAGAGGCCAGGAGCGGGCGAGGCCTGGAGCCTAGGGATGCCACCTGTGCCCACATGCTCG
GTGCCCCTCTAACATGGGCTGGGCCCAGGAGTCCCCCGGGCCCTGGCACCTGCCAGATAGGTCGGGGGGAGTGGAGTGGCATGGGGAGGTATGC
AATCTCTTGTGCTTCCCAAGTAAGTGTGCTTCCCACAACTCCCAGTGGACACTTCCCAGAGCCCTGGGGTTTGCTTCTTCGTACCCAGTGTGGG
TGGGGCCTGCAGCAGTGGCCCTCCCACTCAGCCTTCACACACCACCCCCTCTTCAAGCATTTCCAGTCCCCACCCCCTGCCCTATTCTGTGAAC
CCCAGGGTATCCCCACTCAAAGCACACGGCCAGATTCCTGGTTGGTGCCCCAGGACCCCTCCAGCCCCAAAGGGTGGGGAGAGTAATGAAAGGG
TCCTGCGCACCACATGTCAGTAAGCCTTGTTGGGTGCCCCACAAGTCCCCCTTCATCTCTCCAACGTCTTCCCCAGGCAGGAGACAGCCCAGCC
TCCTCTCCTCCCCGCTGAGCCCCCAGGAGCCCCTCGGGGGTGGTCCGCCACCTCCCTGTGTGTCCCCTGCCTATGAGGGCCGGCACAGGGGTGG
GGCCTGCCTGCTAGGACATGGGGACACACAGGGCAGCTCTTTAGGGAACCAGCGTCCCCAAAGCCAGGTTGCGACCCCTGACCCCCCCCATCGG
AAAGTGTTGCCGTTTAAGATGCGTTGGGGTGGGGGGCTCCCCTGGCTCCAGCGGCCTCTCTGGTATATCATTAACTCTCCCCAGTGGGAGGGGA
ACCCCGGCCGACTCCCCGCCGCGTCCGGCTGGGAGCACAATATCCCAGCGACGGCGACAAGATTAAGCACAAGGGGAGAGTGCAAATGCGCGGG
CGGTTCACACGCCCTTCGCGGTGCTGAATTAAAGCGTCTGAATGGGGATTTCCCCTCGCGCCGGACGGCCTGGCGCGCGGCGCATACTTCCAGG
TTGCTATGACTGGCCTGCGCTCGCCTAATCACCGACTAGGGGGAAATTCATATAAAATATCGCCGGCCATTGTGGGCCTAACTCGGCGTGACAG
TGGCGCACAAAGCCGGATTCAAGCGCCCCAGCGGGTCAGCACGGCGCCCGGCCGCGCGGGCCGCCCGGCGGTGTCAGGGGCCGTGGCCGCGGTG
GGGCGCGGGCCGCATTCCGCTCTCAGGTGGCTCCGGGGCCTTTTGTGCAGGCCATGATTACCAAATGCCACCGCGACACCCCCTCCCGGCCGCC
TGGCTCCTCCTGGGGCCGCAGGAATGAGGGAAGGTGGGCAGCCCCCGAGGGGAGGCGCCCGGGCGTCGGCTCCGGCGGGCTCCGGCGGGGACCG
GGGCGCGGGCTGAGTCCCCCTGTGTGCCCCACAGCAAAGGGTCTTCTCCTTCCCCTGTGTTCAGGCCTCAGTGGGGGAAAAGGGCCCACGCGTT
GGCTGCTCTGGAAGCCTGTTGTGGCCTCCCGATGGGCACGAGAAGGACTTTGCTTGTCCTTTTTCAGGGGCGATGGTCCCCAGATGACATGACA
TTTGGGGCCACAGTGACCTGCAGGCCCCTGGCCAGTCTGGTCAGGTGGTCCTAGCTGGGATCCAAGGCACCCCCCTCACTCAGCCAGCCCCTTC
CAGCAGCTGTGGCGTGAGCAGGCAGGAGATGGGGGCAGCACCAGGAGGGAGGGACCCAATGCATTCGGGGTGGCCACTGTCCCCACAACTCTAT
GGGTCCCAGGTATGTGGTGGGGGTGTGGTAATCATACAGGGTGCAGCGTGCACGGGGGGCTGTGTTCGCTGTGACCCTCCATCCCCCAGGATGC
CTGAAGGCCAGTCCCTGGAGTACAGGGAGACTGCTCCTCACTGGTGCATGGAAAGGGCTGGCAGATCAGGCAGGGGGAAGGCCTGTGGGGTGGG
GCATTTGCCCTGCAGACCTGGGGAGAGAAGCTGGCTGCAGTAGGGTGCACTTGGGGGACAGAGGGCATTTTTTTGTCACAGTGGAGGTGAGAAC
TTCCCGGTGGAGATTCAGCAGAGTTTTTCTCCTGGGCAGTGGGCAATGTTGGGAGTCTGGGCCCCCAGCACCCGGCTGGACTGGCCACCATGGA
GTCCTGCCCTCGGCCAGTGCATCCCTGCCAGAGCTGGGGGTGTCCAGCCAGACAGTCAGCATTGCCAGGGGAAAGAGACGAAGCCACAGGTTTC
CAGGGGCTGGGGACAGCATTGGAGGGCCCCAGGAGGCATGGCCAGGTGAGCATGGGTCAACATCAAGAAGCAGACTGGGCAAAGGCGGCATCCC
AAGCTCCTAGGAAAGGAGGTGTCAGCTGCCCCAGGATGGGGCCACAGAGGCAGAACCATAGCCCCCTTCCCAGACTAAGCAGCCCAGCCACCAG
CTGCCAGCAGCCAGGGCCCTGAATCCCAGAGCCTGTGACCAAGGTACCCACCTCCAGGAAGAGGCCAGGCCAGAGACCCAATGACCACTGTCTA
CTCATGGGGGGATGGCCATCAGCATATCAGAGACACCCTCCCAACCCCCTTCTCCTGGCAGGCTCCTGTTCAGGGTCTTGTCCAGGGTCCCATA
GAGCCCTTACAAAGTCATGGCCAAGCTGTCCATAGCCTTCTTTCTGGTCACAGCCCAGAGGAGGGGTCAGCACGGAATGGAATCTGAGCTTGGG
AGATCTCATCTCAGTTGATGCATCAGAATCACTGGAGACCCTTTAAGATATAGGTGCCCCCCACCCCAGTTGAACTTGGGTCCCCAGGGCGGCC
CTGCAGTGATTCATTGGCCCCCCAGCCATGACCATTGTTGGAAGCCTCCAGTCCTAATTCCCTGATGGGCTTCCCAGAGGGGCCAGCCTGGGTG
AAGCCCTTCAGACTGAGCACTCTGCCTCCCCGAGGAGCTGGATTTCATTGTCCTATGGTCGCATTTAACAACAATCCCCACCCCCTGACCCAGA
ACTTTCCCTCCTTCAAGTTGTTTGTCCCTCAGAAAAGCCACTCAGGAGTCCCCTCTGGACCAACAGGCATGTCCCAGGAGCCCAGGAGTCCCAG

GCTGTCCCTCTCCTCTCGCCCTGTATCAGCCCCCACAGCCTTTCCACAGATAGGCATGTCCCCCTCAGCCATGCAGTGGGGGCCCAGCCAGGCA
GGTGGGCTCCCTGCTCCCTTGAGGCTATGGCCATGGAAACGCCAGCCATGGGAACACCCATTGGAGCTGCAGGAGCCCATAATGATGAGTTCAG
GGACCTCTCTTGGGACCCCTCTGTCTGGGCTCTGCACTCACTGCTGTGCAGCCTGGGGCCCATGGCTGACCCTCTCTGAGCCATCTTCCTGTTG
GGGCCACTTCTCTCATTAGTTAATACAAGGATCGGCTTGGACCTGCTTTTCCCACTGTCACCCCCTAACAGGGCAGCCTCCATGCTATGCTGCC
TCAGCAGCTACCTTCTGAGCAAACACCTGTCCCTGCCGAAATGCTTCTTGGGTCACCTCCCCATGGTAAGGTCAGCTCTGAGAGGACAGAGGCT
GCAGCCTTCTTTGCCACTTAAAAGACAGTCACTGCGTAATAAATAGTGGCAACTGAGCAACTTTAGTGAAATGTGAAAGACAAGGATTTTGGAA
TGATTTGGGCAAATGTTGTTCAACGTTTAAGAATTTGGAAACATGGCCGGGCGCAGTGGCTCATGCCTGTAATCTCAGCAGTTTGGGAGGCCGA
GATGGGCGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCTTTCTCTACTAAAAATACAAAAAAAAATTACCTGGG
CATGGTGGTGGGCACCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCGTGAACCTGGGACGTGGAGCTTGCAGTGAGCCGAGAT
CGCGCCACTGCACTCCAGCCTGGGCGACAGAACGAGACTCTATCTCAAAAAAAAAAAAAAAAGAATTTGGAAACATATCCTTCCTGTTTGATGT
TCAAAGGTCCTTTTCTGAAGTTATGATGGTAGATATTTATATATATATATATATAATATCTACTACATATCTATATCTATCTATCTA
TCTATCTATCTATCTATCATCTATCTATCATCTATCTATATCTTTTCCTGTCTCAACAAAATAAAAGCACTTGGCAGTCCTCTGTTAGTCCCCA
GATGCTCTCTGATACTTGAAAAGCCCATTAAATCCAAACCTAGAAACGAAGGATTTGTTAAGATCCCTCTAGTCCAAAAGTTCTGAGATGCAAG
AGACAAAGGAACCATCAAAGCTCATCTCATGATTCCCTGCATCTGACAACTGCACTGCCCTCAGCTGTGATGGAGCCTTGCCTGGCAGCTCTTC
TGCCTTTCCCTAAATGCCCACCTCTTACCACCTAGAACTCCCTCACCTTCTCCGACTTTATCCATCCATCCATCATCCATTCATCCATCATGCA
CGATCCACCATCCATCAATTCATCCATCCATCCATCCACCATCCAACATCCATCAATCTATCCATCTGTCAATCTGCCATCCATCAATCCATCA
TCCATCTATCCATCAATTCATCCATCCATCCATCCATCCATCCATCCACCATCCATCAATTCATCATCATCCATCTATCCACCATCCCTC
AATCCATCATCTATCCACCCACCCATCCATCTACCCATTATTCATCACCCTCCCATCCCAGGCCTGCCTCAGAGCTCATGTTGTCAAGCCTTGC
TATGTGTCCTTGTCCTCTCTACTGCCTCCCTTGTGAACTGTAAGCTCCCAAAAGCACATGGTTTAGCACAGTCCCAGGCAAAAAACCTAACACA
CACACCAACAAAGCCTCCCACCAGAGATAGGGAAGGCTTCCCCTGGTTCATTCTCCTTACCAAGGCAAGGACTCTCTTCTCCTGAAAGTGGGTC
ATCCAACCTCTGTTTTATTATCACCAGGACAGGAACTCCTTCAACTTTCAGAAAGCCTAGGTTGTTAGAAATTGTATCATATTGAGCAGCAGTC
CACTTTCTGGAGGATTTTTTTTTCTTTTGATGGAGTCTCCCTCTGTTGCCAGGCTGGAGTGCAGTGGTGTGACCTCGGCTCACTGCAACCTCCG
CCTCCCGGGTTCAAGCGATTCTCCCACCTCAGCCTCTTGAGTAGCTGGCACTACAGGTGCACGCCACCATGCCCCGCTGATTTTTGTATTTTTA
GTAGAGACGGGGTTTCACCATGTTGGCCAGGATGGTCTCAATCTCTTGACCTCGTCATCTGCCCACCTCAGCCTCCCAAAGTGCTGGGATTACA
GCTGTGAGCCACCGCGCCCAGCCTCTGGAGGATTTTTTTTACTGTGGTTATTGAGAGTGGGCACCTTGCTTCTTATTCATCTCATATTCCTCAT
TCAGCCCAGTGCCTGGCTCATTAGGGACTCTCAGATCCTGGATGGATGGATGGATGATGGATGGATGGTGGGTGGTGGATAGATGGATGAATGG
ATGATGGGTGGATGATGGATGAATGGTGATGGATGAATGGTGATGGATGGATTAGAGATGGACAGATGATGGGCAACAGATAGGTGATGAATGT
ACAGATGATGAAGGGGATGATGGATGGATGATGGTTGAATGGTGGATGGGTGATGAATTGATGATGGATGCATGATGAATGGATAATGGGTGAA
TGGATGGATGAGTGGTGGTAGATGGTGGATGATGGGTAATGGATGGACAATGGATGGATTGTGGATGGATGGTGGATGATGGATGATAGATGTA
TGGATAATGTATGGATATGGATGATGAATGGATGAATGGTGGATGATGGATGATAGATGGATGATGGATAGATGTGGATGATGGATGGATGGAT
AATGGATGATGGATGGATGTGGATGACAGATGATGGGTGATGGGTGGATGGATAGATGGGTGGTGGATGGTGGATGATTGTACATGATGGATAG
TAGATATATGGATGATGGATGGATGGTGAATGGATAGATGAATTTATAAGTGGATACATGGTAGGTGGTGGTAGAGGATGTATGATAGGTAGGT
AATGGATAGATGGATGGATGGATGGATGGATGGATGATGCACGATAGATGAATGGATAGATGGATAGATGTGGATGACGGATGGATGAATGAAC
GAAAGGAAGGAAAGATAGATAATTGATACTTTGGATGAATTCAGTAAATAACTGCTAAATGAGACCACAACAAGTTTCTGGGAAAGATGGTTTT
CCCAGGTGGAAGATACTTCCCTTACAGAACAATTTTGTTATGCAGTTTCCTTTCTTTCTTTCTTCCTCCAACAACTGATTGCTGTGTTAGAATAA
AAGTCTTGGGCCTGAATGGGGCAGGCCTTAGGTGGCTCAAAAAGTTCAGCCAGGCTCCTTCCCAGGTGACTTGGCCAAATTGGCAGCATTTGTG
TCTAAGCACCCTGCCTCCCAGTAGCCTGTGTCCCATTCCAGTGGGAACTCCGACAGTCCACTCTAATGAAGGCATTTTCCTGCTGACTGGGATG
ATTTCCTGGCCTTCTGGGATGGCTGGCACTTCCCACGGGCAAGATGCCTCCGTTTCACCCCCATAGCTGACTCTGTTGTGTCAACAAAAGCAGA
AACCCCTGACAAAGGTGTTTGTGGTAGAGAACTTGGTTTCCGTGGAGGCTGGCTGCCAGAACTCCAGAGCCTGGACGTAAGTCCTGGCCTCAGG
GGAGCCCTGAGTCAGCTCCTCTGTAAACAGAGGTGACTCTGGGCAGTGGTTCATAGCCTGCATGCTTCAAACACCTGTGGAAATCTGATCAAAG
CAATGGATTCTCTCTCCAGAAAGATGCCCGTGCTCCCAGACATACCCCATCGTTTGTGCTATTTTGGGAGGGTAGTGAACCTGCTGCAGATTCC
CTCTAGAACCTTGGGTGGAATCCAACCCATAGGCTCAAATCTCCTGCCGCTGTGCCTGCCACTTGGACATTCTGGGGGGTCTTCCTTCTGCATG
GTTTCAGGACATTTTTTAACTTTTTATTTATTTTATTTTATTATTTTTAGATTAGAGATGAGGTCTCATTCTGCCTCCCAGGCTGGAGTACAAT
GGTGTGAACACGGCTCACTGCAGCCTTGAAGTCCTGGGCTCAAGCAATCCTCCTGCCTCAGCGTCCCAAGTAGCTAGGACTACAGATGCACACC
ACCATGCCCAGCTCATTTATGTTTGTTTGTTTTTTAAGAAAGGGGGTCTTGCTATGTTGCCCAGGTTTAACTTTTTATTTTGAAATAATTTCAG
ACTTTCATAAACATCGCAGGAGTGGCACTGAGAGTCCTGGGTCCCCTCGTCCAACCCAGTGGTGCATAACTATGCCAATTGTTCAAAACTAAAT
GTGTTCTATTCACCACACTCTGGACGTCACTCAGCTTTCCTTCGTTTTTCTATCAAGATCCCTTTTCTGTCCCAGAACCCCCTCCTGGGTCCCT
TGTTACTTTTGGTGATGCCATGCCTCTGGCTTCTCCACTCTTCCCTGTCCCTCATGCCCCTGAGACCTCTGAGGAGCACAATTAGGCATTTTGC
AGAACAGCCATCAATTTGGGTTGGTCTGATGTCTCCCGACAATTAGATGCAGGCTGTGCATTTTGGGTGAGAATACCTCAAAGGCTATATTTGG
CCTTCATGCATCATCCCTGGAGCCACAAGGTATTGTGTGTCCCATTTCAGGCAAGGTTAACTCAGTCCCCAGAATAAGGTGGTGTCTGCCAGGC
TTCTCCTGTGCACAGTTAAGGTTTTTCCCATTGTGCTTGATAAACACTGTGAGCAGTTGCGGAACCGCTTAGAGACCTTGTGGCTTCAACTTTA
ATGCAGGCTCTCTTTGCCAGAACATAGGGTCTCACGCTTTTCTGGCCTGTGGTCTTGCAGCCTGCAGCTTCTACTTCAGCCTCGGATGGGGGTG
TCTGTCCTGGGATCTGAGCCTCTCTGCAGAGACTTCTTGTCTTCAGTCTTCACGAGTGAATTGAAGGCCTGCTCCAGGGTTTTCTCAGCCTGGC
AGGGAGCTCCACCTCCACATGTGATGGAAGAGAAAATCAAGGTTCAGCCAGCTGGTGACCAAACTGAGCAAGAATGAGCTCTTTTCTGTCCAAG
TGGAAGCCCTCAGCACCACCCGCCCTTGCCCTTGAGTGTGTCTGGCTATTGGGGCTGTTTGCCTGAGTTTTGATAAGCAGGGATCTCGAGGCCC
TTGTTATGGGCAGGGCATGAGTGAGGCACAGAGAGCCCTAGCCTCAGGCTCTGGTTCTCCTCTTACCAGAAGCTCAGGAGCAAGAGGGAGGGGC
TGGCCTTGGAGACAGACTCTTGTAGTAGCCAGGCCGTGAGGTGGGAAGGCAGACTCAGCTGGGGTGGGGTATTCAGGGTGTGGGATGCCCAGGC
CATTTGGGAGTGAGAAGGTCCGGCCAGGAGGGCAGGTGGAGCTGTGTGCCATGCGTGAGCTCCAGGAGCACCCAGGACACTCCTCAACTCTACC
TCTCAAGCTGCCCTAGAAGGGAAGCAGGGCAGATGGCAGGGGAAGGGGCGCTGACTAGGGAGGGGACGACCTGAGTCCTTTAAAGACAAGAACA
GGCGCTCAGGCCTGGAGGCTTAGAGAGGAAGTGCTCTGCATCCAGCCACACGTGTATTCACTCAGAGGCAGTGGGTTCAGCAAAGGCCCCTCCA
GGCCTGTCTGTGAACTGATCAGTTGTGTTAGGGAAGTAACATGGGGTCAGGGGTGGGGGCTTTAAGTTTCTTGGAGAGGTGCGGAGGAGGTGGC
TGCCTAGCTGCTCCCTGGGAAAGGAAACAGCGGAGGTTGCATGATGGGCCTGGGTGCCTTAGAGGGGCAAGGGTGGGTCTGCTCTGGGTAGGCT
CAGACCCTGCTCATTCCTTGACTCAGCCCACGGCTCCTGCCTTTCATTCTGGCCCCAGGAAATATCTATGGGCTGGGCCTTGTGCTCCAGATTG
CAAATAAAAGGTGAGCCAAACAGTCCCTGCCCCTAGGCAGCCGCGGCTAGGGAGGGAGTCAGTGGGCAAATCTTCCTGGTTGGGGAGGGGCAGC
CAGGTGTAGAGGACACCCGATCCCTGGCCGCTCCCCTCAGAGCAGGCAGGGGCACAGCAGGTCCAGCCTGAGCCAAGGAAGGAACCGGAAAGAG
CCCGAGGGGAGGACAAAGGGCTGAGTGCGGCCTGAGGCCAGGGAGTGGCATTGAGGTCAGGAGAGGAGATAGATCCAGAGGGGGCCTGGCATGG
CCAAACTGGCATTGGGCGAAGACCTCAGCCTGCAGATAGTGTGTTGCGAGGGAGAGGTGTGCATGTGTGTGCATGCATGTGTTTGCATGTGTGT
GGTGCACATGTGGAGGGGTGTGTGTGTGTGTGCATCTGTGTGCATGCATGTGTTTGTGTGTGGTGGGTTGTGAATGTATATGTGCATCCGTGGG
AGGTGTGCATGTGTGTGGTGTGTATGGTGTGCATGCATGCATATGTATGTGTGTGCATGTGTCTGTGTGTGCATTGCACGAGGCGTGCATGTGG
GGGTTGTGTGTGCATGTATGTGTATGGTATTCATGTATGTGTATGTGTTGTGTGGTGTGTGTGTGTATTTGTGTGTGTGCATGTGCATGGGGTG
GGGTGTGTATATGTGGGGTATGTGCATGCATGTGTGTGCATGTGTATGGTATGTGTGGTATGCCTGCATGGTGTGCATGTGTGGGGGGGATGTG
CATGTATGTGAGTGCATGTGTATGCTGTGCTTGCATGCATGTGTATATGTGTTCATGTATGTAGTGGGGTGTGCATGTGTGCTTGTGTGTGGTG
GGGTGTGCATGTGTGTGCATGCGTGTGATGTGTGCATGTGTGTGGTGTGCATGCCTATATGTGTGTGTTTGCATGTGTGTGTGCATGTGCATCA

GGTGGGGTGTGCATGTGTGTGTGGTATGCATGTGTCTGTGTGCGCACGCATGTGCGCATGTGGCTGTGCATGCATGTGGTGGAAGGAGGAAGCT
GGAGGCTGGGGCCTCCTAGGGGCCTCTTCATGGCGAGGTGGGAGATGGACCCACAGATAAGAACCAGGAGGGGCAAATTGGCTGAGAGGCCCCA
GGGCCACCTGGGAAGGCCACAGCAGCCTGGGCGGCTGGGGCTGTTTCAGGACTGGACAGTCTCCAGCCAGCAAGCAGAGCCCTTCCTGAGCTGG
TGGTGGGAAGTGGATACAGAAGAAATGGACAGTTTTCTTCTGGGCTTGTGGCTGGATGCAGTGGGTGTCCAGGCCTGACTTGGACAGGGCCCTA
GGGAGGGACGGGGCTGCTGGGACCCGCCATCAGGGGGCTGTTGGCCAATCCACAGAAAAGTCAACCAAAGCAGGCCCGAGGGGCTCAGGGGGCT
TTGTCAACAGCCAGGGGGATGCCAGTGCAAAGCCATAGCCTCAAATACCTTCCACTTTGTATGTTCTTGTTATGGGAGCAACGTGCGTTCTTCT
GTGCTGGCTGTGTGTGGATGTGTGTTGGGCCGTGTGGGAGCGTCTGAGTGTGTGCACACTCACTCGTGCCTTTCTGTCCCAGCTGGCCTGGGCT
CAAGGGCATCACGAGCCCCAGGGGCTGCTGTCTCGGTCCTCTCCTAGGCAGCCTGCAACCACATGCCTGTGTCCCTGAGTTAGGCCATTCTTGC
ATTGCTATAAAGAAACACTTGAGGCTGGTAATTTATAAGAAAAGATGTTTAATTGGCTCAGGGTTCTGCAGGCTGCACAGGAAGTGTGGCTCTT
GCTTCTGCTTCTAGGGAGGCTAGGAAGCTTCCAATCATGGCGGAAGGCAAAGGGGGAGCAGGCATGTCATGTGGCGAGAGCAGGAGCGGGATAA
AGAGTGGGGGAAGAGGTGCCACACACTTTTAAACAACCAGATCTTGCAAGAACTCACTCATAATCTCGAGGACAGCACCAAGCCATGGGACCCA
CCCCCCATGACCCAGTCACCTCTACCAGGCCCCACCCCAGCCCTGGAGATCACAGTTCAACATGAGATCTAGGCAGGGTTAAATATCCAGACTA
CATCAGCCCCATCCACCCGAGGATGAAAGCTCCCTGGATGTCCAGGTGGCAGAGGAGGTCACAGCCCCCTATGATGACTCTGTTGTGACCCTAA
GGGGTCCATTGCAGGCCTCTGCCAAGGAGGAGCAGGGGACACTGTGGGACGTAGCCCTGTATCCCCGCCTTGTCCCATGGGAGGACCCTGGCTC
CAGGAGAACCTCAGGCCTCCTTCTATCCCCATAGAGAGGGCCCATCGGAGCTCCCTTCTCCCTCCTGCTCTCCCAGGGCCTCGAGGGGAGAGAG
AAGGTCAGAGCCAAGGAAAGGTGGAGGCTCAGGACTCTCCCACAACAGAAGCAGAGACATGGAGGAACCTGCCCCAGGGCACACCTAGCCCCCA
GAGGCCAAGCCGAGGCTCAGGGGCTCCAAAGCCCAGGTGTCTTCTTGCTAGGTCTGTAAGATCCCTGCCCAGCAGCAGGTCAGGCTCTTTCCTG
GTTGGCTCCCTGCTAGTTCCCCAGCTCAGACTGCAATGCTTGGCAAACAGCAGGCACTCTGTTCCTCACCTGTGTCAGAGTGTGGGTCCAAAGT
GAGTGCCTGTCTCTTTTTATTTTGTTTTTTTGAGACAGGTTCTCACTCTGTTGCCCAGGCTGGAGTGCAGTGGTGTAATCATACCTCACTGCAG
CCTTGAACTCCTGAACTCAAGTGATCTTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTATAGGCCCCCAGCCCTGAGTGTCTTTTATCAATGGA
AGCAGGGCCTGGCCAGGCCCACCCCCTCTCCTCATGCCCTTGCAGAAGTGTCTGCATACACCCACCCCCAAGACACAGCTCATTCTTTCAACCT
GTCTGGGGAAGCCTGGCTGGGGTCCTGGCCTCTGCAAAGCCCACACCACCGCTCATTCCCATCCCTCTGATCCTAGCCTCCAGAGCTTTCTCCT
AAATTCCAGCCCTCCCCTACCACCCTTCTGCACAAGCAATGCCACTTCCCCAACTTGGCCTCTATTTCCCCATTTGGGGAAGAAGGAAGCTGTG
TACAAGGACCCAGGCAGCTCCAATGTCAGCAGCGGCAGACACCCTGCAGCCTTCCAAGCTGGAGGCAGGGGCATTTGGGGCACTGGGGCTGGCC
CTGGGGAGGCGGGCACTGGAAGTCACTGGTGTTGAGAAGATTCCAGAAGAGGCAGCTGTACCGCTGAGCCATGCAAGTGTCGGTGCTTGGGGTG
GAGGAAGGCAATGGCAAGTGGCACAGCAGAGGTGGGCGGTGTGTGGGGTGGAGCCACACTCTGGGGTCTGCACCCCAGGCTATCTGGGCAGCAG
AAGGAATTAGCTCTTGTCTGGTTTTACCTGCCTTCGTTCAGTTGTATGATTATTTTGAGATCCTTTGTGCTATTTTTCTTGTTATTCCTAAATT
AAATGCTGTTACAGACTTGCCACTGCTTTTTAACCATCCCTGTTAATGGACATTGGGGTACTTCCAGTTTGTGGCTTGTGTGAACATTTGCTTA
CAAGTCTTTGCACAGACACGGGTTTCCTCTGGGGCAAACCTAACGGCTGGTGGACGTTTACCCTTGAAGACACTGCCAAAGTGCCTCCCAAGGG
GACTGCACCTTTCCCCTCCATCCAGCTGTGAACAAGGGTCAGGGTCTGATTTCTCCACATCCTTGCCAACACTTGCTACTCTTTGACTCTTTGA
TTGCAGCCATCCCCGTAGGTGTGAGGCGGCCCCTTATTGGGTTTTTTGATTTGCACATCCCCAGGATGGGTGATGTCGACCATCTTTCCAGGTG
CATGCTGGCCTTCCTTGTGCCTTTTTTTAAAGACAGGGTCTTGCTCTATCACCCATGCTGGAGTGTGACTATAGCTCACTGCAGCCTCAAACT
CCTGGGCTCTAGCAATCCTCCCACCTCCGCTTCCTGAATAGCTGGGACTACATGCACACACCACTGCACCTTGCTAATTTTAACATTTTTTTGT
AGAGATGGGGTCTTGCTACATTGCCAAGGCTGGTCTCAAACTCCTGGGCTCAAGCAATCCTCCCACCTCTGCCTCCCAAAGGGCTGGGATTACA
GATGTAAGCCACCTTGCCAGCTGTATGTTTTTTAAGACAGGGCTGGAGTGCAGTGGTGCTATCCTGGCTCACTGCAGCCTCCACTTCCTGGGCT
CAAGTGATCCTCCCGCCTCAGCCTCCCAAGTAGTTGGGGCCACATCCAGTTAATATTTTAGTTTTTGTAGAGATGGGGTCTTGCTATGTTGAA
AAGGCTGTCCTGGTCTCAAGCAGTCCTCCTACTGTGCCTCTCAAAGTGCTGGGATTACAGGCATGAGCCACTGTACTTAGCCAAAGTTGCTTGT
TAAAAAGAGCCTGGTACCAACCTCCCCTCTCTCACTTCTGTCACCATGTAATTTCTTGCACACACTGGTTCCCCTTTACGCCCCCTTTCCCTTC
TGCCACAAGTGGAAACAGCCTGAGGCCCTTGCCAGAGGCAGTTGCTGGAGCCATGCTTCTGTGTAGCCTGTAGATCCGTGAACCAAGTAAGCCT
CTTTGCCTTATACACCACCCAACCTCACGAGTTCCTTTATAACAATGCAAATGGGCTAAGACCCCTGACCTGCCCAAGGCGGTCCTTTGAGCTG
AGCCCTGTTAACCCTGCATCTCTCCTCTCTCTACAGCTACCAGGGAGTCGGCCTTTGTCCACGCCATTGCCTCAGCCGGTGTGGCCTTTGCAGT
GACACGCTCATGTGCAGAAGGCACGGCCGCCATCTGTGGCTGCAGCAGCCGCCACCAGGGCTCACCAGGCAAGGGCTGGAAGTGGGGTGGCTGT
AGCGAGGACATCGAGTTTGGTGGGATGGTGTCTCGGGAGTTCGCCGACGCCCGGGAGAACCGGCCAGATGCCCGCTCAGCCATGAACCGCCACA
ACAACGAGGCTGGGCGCCAGGTAGGTTCGCCGCCCGCAAGGGTGCTTGGGAAAAAGGAGCCTCCTCAGCAGGGTGTGTGCCCTGGTTCCTTGGG
GCATATGGCCCGGTGAGGCAGGATGGTGGCCAGGCTGAGGGTCTTCTCGACCCCTGCCTGGGGTGTGCGAAGCTTAGCACCATCCAGCTACACC
ACAGCATCCAGTGCGCTCCTGGGGATGGCGAGCCCACCTGTGGACTGGGGTAGCCAAGAAGGAGTGATGAGGCAAAGGCCTGGTCAACAGGAGC
CCCGGCAGAGCCCAGGGAGGGAGACAGCCAGGCAGCCACAGAGACGGGGAGGAATTCTGCAATGAGGAAATGCAGGCACACAAGGTGACCCGAT
GTCAAGGACAGCTGGCAGTAATTTAGGGGGAGGGAGGCTGGGAGAGCCTCCCAGGCAGCCTGGAGGTGAAAGACAACAAGCGACTTGGTGGGCA
GAGCACAGAGTGTAATGGAACAAAGAGCATCTTGATCTGCAGAGGCCAACCCAAACCAAGCCGTGTAAAGCTTCGTGAGCCTGTGTCTTATTCT
GTCTGTGCTGCTACAACAAAATACCTTAGACTGGATAATTTATAAACAATGGGAGTTTAGTACTCACAGTTCTGGAGACTGGGAAGTCCAAGGT
CATGGTACTAGCAGATACCTTGTCCGGTGAGGGCCTGCTCCTCATGGATGATGCCTTCTGTGTCCTCACCCAGGGTGTGGATCGCTCTGGGGTT
ACTTTTATAAGGGCATTGTTTTAGGCCATTCTTGCATTGCTACCCGAGACTGGGTAATTTATGAAGAAAAGAGGTTTAATTGGCTCATGGATCT
GCAGGCTGCACAAGCTTGGTAACAGCATCTGCTCAGCTTCTTGGGAGGCCTCAGGGAGATTTTACACATGGCAGAAGTGGAGTGGTAGCAGGCA
CGTCACATGGGCCAGAGCAGGAGCAAGGAAGACAGAGTGGGGGAGAGGTCGCCACGCACAGATCTTGTGTGAACTCACTCATTATCATGAGGAC
AGCACAAGCCATTCATGAGGGATCTGCCCCCATAACCCAAACACCTCCTACCAGGTCCCACGCCCAACACTGGGGATTACACTTCAACATGAAA
TTTGGAGGGAACACAGATCCAAACCGTATCAGGCACGAATCCCATTCACGATGCTCCACCCTCATGACTTGACTTGATCACCTTCTAAAGGCCC
TACCTCTTAATGCTGTCACCTTGAGGGTAAAGATTTCTTTCTGGGGGGGTGGGGACACAGGGTCTTGCTGGATACAGTGGCACCATCTCAGCTC
ACTGCAGCCTCCACGTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTTCTGAGTAGCTGGGACTATAGGCGCATGCCACCACACCTGGCTAAT
TTTTGTATTTTTAGTGGAGATAGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAGCTTTTGGCCTCAAGTGATCCACCCACCTCGGCCTCCCAA
AGTGCTGTGATTACAGGTGTGAGCCACCATGCCCAGCCGAGGGTAAAGATTTTAACCCATGAATTTTTGAGGAACACAAACATTCAGACCACAG
CAGCTTGCTAGAAAGGATGTGGTCAGAAGATCAGTGGATGGCCAAGGGAGGAAAGATGGCTGATGGGCAGTGACGGGCGTAAGGACCAAGTGGC
GTCCACGGGATTTAACAACATGAAGATGGCAGCTGACCTTGGCTGTAGAATCAGGGGACCACAGAGGGGTGACGAGTGAACAGGGGATATTCAC
CTTTTAACAGTGAGGAACTAGATAACTCAGACTAATCTTCCTGCAGAAGACAACTTCAGATGCAGGATGAACTATAAAAAGCACCCTGTTAAAA
GTGTGGAGTCCCCATAATTACCCAATTCATGATAGATGAGGCAGTGCAGTGCCATGGGAGAAATGGGCTTTTCAATAAATGGTGCTCAGTCAAC
CGGGTGGTGCTATGGTCTGAATGTGTCTCCCAAAATTCGTATGTTGTAAGCTTGATCTCCAGTGCAACAGTCTGGAGAGGTGGGACCTAATAAG
AGGTGTTTAGGTGATGAGGGCCTTGCCCTCATAAAGGGACCAATGCTGCTGTAAAAGGGCTTGCAGAAGAGGGTCTCTCTCTCTCTTTCT
ATTACTTTCCTGCCATATGAGGACATGATGTTCCTCCCTTCTGGAGGACATGGCATTCATTCAGGGTGCCCTCTTGGAAGCAGATAAACCAAGC
CCTAACCTGTCAGCACCTTGATCTTAGATTTCCCAGCCTCCCAAACCATGAAAGAATACATTTATGAATTACTCAGTCTCAGGTGTTACGTTGT
AGCAATACAGCATTGACTAAGACAGATAGCAACATGGAAAAAAAATAACCCTGGCTTGCTACCTCACACCATCTGTAAAAATCAATTACAAATC
CCAGTGGGACAGGTAAAACAATAAAACTTTTACAAGAAAATATAGAATATCTTTGTGACCTTAGAGTAGGCAAAGGTGTCTTAAACAGTCCAAA
AAAGCACTCACATTGAAAGAGAAGTGGAATAACATAGACTATATTCAAATTAAGAACTTTCATCCATAAAAAGACACCACTATGGGACTGAAAA
GGCAACCCATAGAGGACACATTCACATACATACATCCACACTCACATATGCAGCAAATGTAGAGAAGCTACAGTAGGAAAAGAACTCTGCAGAC
TAAGAAAAAAAAGATAGACAAACCAATGGGAAAATTGGCCAAAAAATTAAAAGCCATGTTATGAAAGAAAATATAGAAATTCCACTACCTATAC

AAAAGGTGCTCAATGTTATGAGTCATCAAGAAAATGCTGTGAGAACCTATGTCCTGGAAAGAGAGAGGAGGATGGGGGTGTCTGAGACACTGGT
GTTCTGGGGCAGGTAATTTGTAAAATTTTGTATATTTTGCACTTATGACACATATATATTTTTGTATGTCTATTATACTTCCATAAAATGATTT
TTAAGTGTCAAATAACTGACCATCTAGTGAGGAATTAGCAGCCCCTGATCCAAGAGAAGATCCCAAGTCTGGTACCTGGGGTAGCTTTTGTCTA
GGGGCCATTTGCTGACCTGGAAGAGACTACAGAGGTTGCACTGCATTTCCAGCAGACTCACAGAGCTAAGGGGCCCACCAAGGGTGCCATCTCT
GGTAAATCCTTCCTCAGTGTAGGCTGTGACCCTGAAGAGCAAAGCCAAGCCAGAAGTAGTCTTGTCCTGTTCACATGGGCAGACTAGAAATCTC
TCAAAACCTGAACTTGGATTAAGGTAATCCCAAATTGCTGGTACTCCCATACACCTGGAAAAAGCAGACAAAATCCTCTTTGGAGAAGGATGAT
ATCCCTCCTCTAAGCCTATAAATGTTTCTATAATAATTTTTTAGAAAACACAATGTTGGCTGGGCGTGGTGGCTCACACCTATAATCCCAGCAC
TTTGGGAGGCCGAGGTGGGCGGATCGTGAGGTCAGGAGATTGAAACCATCCTGGCTAACATGGTGAAACCCGGTCTCTACTAAAAAATAACAAA
AAAAATTAGCCAGGCGTGGTGGCAGGTGCCTGTAGTCCCAGCTACTTGGGAGGCCGAGGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTG
CAGTGAGCCAAGATCGCACCACTGCACTCCAGCCTGGGCGACAGAGTGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAGAAAACACAATGTCC
AGCACACAATCAAAGATAATCTATCACATGATCTGATGACACAGTGAGTTAAACCAGAAAAAAAAAAAAAAACACAAGTACACAGGGAATTCAG
ACAATGGAATTATTAGACACAGACTTTGAGGGGAAAAATGCTTACTTAGGTTCACAAAGCTAAAACACAAGTGTGAACATTGCATCAGGAAACT
AGAAACTATAAAAATTATATAATAGGCTGGGCACGGTGGCTCGCACCTGTGATCCCAGCACTTTGGGAGGCCGAGGCGAGTTCGAGACTAGCCT
GACCAACATGGAGAATTCCCGTCTCTACTAAAAATACAAAATTAGCCGGGCGTGGTAGTGCACGCCTGTAATCCCAGCTACTTGGGAGGCTGAG
CCAGGAGAATCACTTGAATCCAGGAGGCGGAGGTTGTGGTGAGCTGAGAGTGCACCATTACACTCCAGCCTGGGCAGTTTTTTTTTTGGAAACT
GGGAGTTTTTTTTGGAAACTCCGTCCCAAAAAAAAAAAAAAAAAAAAAATATATATATATATATATATATATATATATATATATACACAC
ACACAATAGATTTGGAAAATAATTACACAGAAATTGCAGAACTGAAGAACAAATAAGGACTTCCAGTTAAAGATGAGAAGCTGAACACTTCCGT
CTGCACTCTCCTGGAACCCACTAAAATAACAATAAATTAATTTTAAAATAAATAGATATGTAGAGATAAATATAAATAAAATATAAATAGATAC
AGGTAGGGACAGGTAATAGTAGATATAGATGATAGATATAAATGGATATAAATAGTGCATAGAGATTATACATAGATATAGATGCTAATACAGA
TAGGATGGATGGATAAATAGATTAGATAGATGGATGAATAGATAGAGATGGATACTCATGAGAATACAGAAAATAAAGAGGAAACAATGGTAAC
AAAACTTTGAAAGCTAAAAGCAGATAGATGAATACTCAAGCAGACTCAAGAAAACTGAGTCTTAAGCCAGTAGAGAAGAAATTTGAGAACCAGT
CTAGGAATTCCTAGTGTCTGATATCTTGAGAAGTTGAGATAAATATGGGGCTGAAAACAGGAAGATTGGTTGAAAGATGACTTTCAGGGTACTT
TATAGCCCACTCACTCCACTACCCAACTCTTTGTAGCCAGGCAGCAGCCTCTCCTTTCCCTGTTGCTGAAGCCTGGAGGTTTGTTTTCTGCAAA
GCACAGGTCTCTGATCTGAGGGACGCCAAGCACATCTCAGAGTGAACCTTCCAAAGTGAAAATTTTCTCTCTACATATGGAAGTTCATGCCTTT
CTCTCTCCTCCTGATTTCCTAATGCTAGCTGTGAACCCTAGTTATCCTCCAGGCAAGAGGATGGAAGATTCTGCTCTGGGGACTCTGACCAACT
CAAAAGAGGAGACTTCAAGACAGTTACCTGTGGAAGGTCCCAATAAAGTGATGCAGCTAGATCACTCTATAGAGAGGACCAAAGTTGACAAGTC
TCTCCCATGTACAGGAACTTCCAATAAGATTTTTAGTGTCCCATTTTTAAATACGAGCAGACAGCCAAGGATCATCAGACCTCTGAGGAAGGAC
TCTAACAACAATAATGGCAAAGTCCAAAACAAACAAACTCAAACAAAATTTATGGGAAAGAGACATTGTAAAGAGAGATGAAACTTCGAAAGAT
GATCATTAATATCCCCAAAAGATAAAACACTATATCCATGAAATTGGAACAGGATGGTAATTTTAAACATTCAGGTTACAAAAGAGCTCTTAGA
AATTAAAAATATGATAACAGAAGCAAAATCCTCAAATTGAAAGATAGTTGAGATACCCTCCCACAAGACAGAAAGAAAAAAAAGACAAAGAGAT
TAAAAATAAGAGCAAGGAGAAGATTTGGAGGATCTGTCCAAGAAAGACAATGACAAACAAAAAGAGGAGCAGTCAGCAAAGAAACAAGGCAGG
AAGCTTCCTCAGAACTGTGGAGCACAGGTTGCAGACCAAACAGGCCACTAAGTGACGAGAACAACAGAAGAAAAAGATCTACTTCAAGACACAC
TGCTGTGAAGCTCAGAGCCTACTGCACAGAACAGCCCTCCAAGCTGCCAAGGAGAATGTTTGGGCTTCAGGATCAGGAATCAAAATAGTACCAG
ACTTTTCGGGAGCAATAATGAAAGCTAGAAGAAAACAGTAATAATACTTTTTGAACTCCAAGATGTAAAAATGATTTTAAGCCAAGAATTCACT
TCCCAGCAAACTATCAATTAAATGAGATAGTAGAAAAGATTGTTTTTAGACATGGACATTTCAAAAAATTTACAAGGCCTTTTCTGGGAAAAA
AAAATCTGCAAGAAAATGAAATTGATAGAATAGCTGATGTGTTTGGACATCTTGAAGAGAATATGTAGATAAGTAAGGGAGAATTTGAGGCTGA
ATCAGTTACAGGTACATTGATAACACCAACTACAAAAAGTCATTTAGGAAAAGAAAAGTCATCATAATATATGACACTTAAAGTAGTCCCAATA
CCACCAGCAGTGAATATTGATGTGAAATTAAGCTAGTTTTTAGGGCAGGAGGGGTTGGTGCTTGGGAAGTGTGCATCAGTGTGGTGGAGTAAGG
AGAGAAAACTAACTGCCACCCACCATGGCTAGAGGCCAATAAATAATGCCTAATGCTGAAAAATCAAGAGGTGTCAAGACAAGTGTGTTAACAG
AGTTGTAGACATTGCAAGGGGCTGCATGTAGGACCAGAATTCCTGTTTATCTAAACAGGTCTTGGAAACTGTTGGACTCTTCCAAGTAAGCACC
TATATAACTTTGATCCAATATAAAACTAAAACAAAAGAGGAAATAAAATGGATATTAGATAAACTAGACTGGGCAGGGCGAGGGATATGTTACT
CTACAGATGCCCATAGGAAACAGTCAATATCAGAGGGAGGAGTTCAAGAAAGAGCCAGAAGGGGACGAGGAGGAGGCAGGATTGGGACCCAGAG
CCCAGTTGAAGCCTTAGATTAGAACTGTCCAATAGAAATAGAATGGGAGCCACAAATGGCTCATAGATTATTATAATTTGTCCCACAAATGACA
CAAAGATCATTATAAATTTTCTAGTAGCCACATTTAAAGAGTAAACAGGTAAAACAAGTTTTTTTGGTTTTGATTTGGTTTGGTTTGGTTTGAG
ACAGACTCTCGCCCTGTAGCCCAGGCTGGATGGAGTGCAGTGGCGCAATCTCCGCTCACTGCTGCCTCCCCCTCCTGGCTCAAGCAATTCTGCC
TCTGCCTCCCAAGTAGCTGGGATCACAGGTTCCCGCCACCACGCCTAATTTTTGTATTTTTAATAGACACGTGGCTTTGCCTCAAGTGAGCCAC
CCGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCATGCCCGGCCAGAAACAAATTTTAATACCAAATTTGATTTAACTCAGGA
TAGCCAACATGCTATCATTTCAATAATGTAGTCAGTATTAAAATTATGAATGAGCTGTTTCTCATCCTTTTCTTACACTAAGTCTTGGGAATCC
AGCATGCAGTTGGCACGTATAGCATTTCTGAATTCACACTGCCATGCCTCATGGGCTCCTGTCTGTCCAGTGGCTGCCACAGTGCAGTGCCACC
TAGACTGTTCTGATGTTCACATGCCCCTTCACGCTCACCCCTACCCCTTCCCCAAAGAAAGAAGGGAAAAGAAGCTGAGTTCTACACTGCCCAT
AGGGGAAACCGTTCGCTCCTCAGCGAGGTCCTGCCCGGTCCCCCAACAGCCTTATGTCCCAACATTGCCTTCCTCTTCCTCTGCAGTCCCCATA
CAGTGACCAGCTTCCTGGGCCACTCTCTTTACTCATGCTCAGGACTCGTGCCTTTCCACCCAGCCGTATACACCTCTGGGCAGCGTGCCTGAGT
CCTCAGGGTCAGAAGGAACGCCTATCCCCCTGCATCCCTGCACTCTGACTGCTGTGGCTCTTCGTGTATGGCATCCCACGCTGCAGCTCTGTCC
TTCATTCGCTCCACCCTAGACAGTGTAGAAGTACTCAGCTAGGAGACGGGAAGAGGGGAGCCCCCCAAGCCCTGACCTGGGAAGGCTTGGGTCT
GGCAAGGGAGCAGGCACCAGTATCTGCACCATAGGAAGGGGGTGGCCCTGGGGCCCTGCCTGGGAGTCTGCCCCCTCTGCCCGGGGGCTTTATG
GAGCAGGTAGGCTGCAGGCGACATGTAATGCTGTTTCCTCGGGGAGACGCACCAGGGGGCCGCCCTGACGCTGGCTCCTGCGCGTGCCCCGCAG
GCCATCGCCAGCCACATGCACCTCAAGTGCAAGTGCCACGGGCTGTCGGGCAGCTGCGAGGTGAAGACATGCTGGTGGTCGCAACCCGACTTCC
GCGCCATCGGTGACTTCCTCAAGGACAAGTACGACAGCGCCTCGGAGATGGTGGTGGAGAAGCACCGGGAGTCCCGCGGCTGGGTGGAGACCCT
GCGGCCGCGCTACACCTACTTCAAGGTGCCCACGGAGCGCGACCTGGTCTACTACGAGGCCTCGCCCAACTTCTGCGAGCCCAACCCTGAGACG
GGCTCCTTCGGCACGCGCGACCGCACCTGCAACGTCAGCTCGCACGGCATCGACGGCTGCGACCTGCTGTGCTGCGGCCGCGGCCACAACGCGC
GAGCGGAGCGGCGCCGGGAGAAGTGCCGCTGCGTGTTCCACTGGTGCTGCTACGTCAGCTGCCAGGAGTGCACGCGCGTCTACGACGTGCACAC
CTGCAAGTAGGCACCGGCCGCGGCTCCCCCTGGACGGGGCGGGCCCTGCCTGAGGGTGGGCTTTTCCCTGGGTGGAGCAGGACTCCCACCTAAA
CGGGGCAGTACTCCTCCCTGGGGGCGGGACTCCTCCCTGGGGGTGGGGCTCCTACCTGGGGGCAGAACTCCTACCTGAAGGCAGGGCTCCTCCC
TGGAGCCAGTGTCTCCTCTCTGGTGGCTGGGCTGCTCCTGAATGAGGCGGAGCTCCAGGATGGGGAGGGGCTCTGCGTTGGCTTCTCCCTGGGG
ACGGGGCTCCCCTGGACAGAGGCGGGGCTACAGATTGGGCGGGGCTTCTCTTGGGTGGGACAGGGCTTCTCCTGCGGGGGCGAGGCCCCTCCCA
GTAAGGGCGTGGCTCTGGGTGGGCGGGGCACTAGGTAGGCTTCTACCTGCAGGCGGGGCTCCTCCTGAAGGAGGCGGGGCTCTAGGATGGGGCA
CGGCTCTGGGGTAGGCTGCTCCCTGAGGGCGGAGCGCCTCCTTAGGAGTGGGGTTTTATGGTGGATGAGGCTTCTTCCTGGATGGGGCAGAGCT
TCTCCTGACCAGGGCAAGGCCCCTTCCACGGGGGCTGTGGCTCTGGGTGGGCGTGGCCTGCATAGGCTCCTTCCTGTGGGTGGGGCTTCTCTGG
GACCAGGCTCCAATGGGGCGGGGCTTCTCTCCGCGGGTGGGACTCTTCCCTGGGAACCGCCCTCCTGATTAAGGCGTGGCTTCTGCAGGAATCC
CGGCTCCAGAGCAGGAAATTCAGCCCACCAGCCACCTCATCCCCAACCCCCTGTAAGGTTCCATCCACCCCTGCGTCGAGCTGGGAAGGTTCCA
TGAAGCGAGTCGGGTCCCCAACCCGTGCCCCTGGGATCCGAGGGCCCCTCTCCAAGCGCCTGGCTTTGGAATGCTCCAGGCGCGCCGACGCCTG
TGCCACCCCTTCCTCAGCCTGGGGTTTGACCACCCACCTGACCAGGGGCCCTACCTGGGGAAAGCCTGAAGGGCCTCCCAGCCCCCAACCCCAA
GACCAAGCTTAGTCCTGGGAGAGGACAGGGACTTCGCAGAGGCAAGCGACCGAGGCCCTCCCAAAGAGGCCCGCCCTGCCCGGGCTCCCACACC

GTCAGGTACTCCTGCCAGGGAACTGGCCTGCTGCGCCCCAGGCCCCGCCCGTCTCTGCTCTGCTCAGCTGCGCCCCCTTCTTTGCAGCTGCCCA
GCCCCTCCTCCCTGCCCTCGGGTCTCCCCACCTGCACTCCATCCAGCTACAGGAGAGATAGAAGCCTCTCGTCCCGTCCCTCCCTTTCCTCCGC
CTGTCCACAGCCCCTTAAGGGAAAGGTAGGAAGAGAGGTCCAGCCCCCCAGGCTGCCCAGAGCTGCTGGTCTCATTTGGGGGCGTTCGGGAGGT
TTGGGGGGCATCAACCCCCCGACTGTGCTGCTCGCGAAGGTCCCACAGCCCTGAGATGGGCCGGCCCCCTTCCTGGCCCCTCATGGCGGGACTG
GAGAAATGGTCCGCTTTCCTGGAGCCAATGGCCCGGCCCCTCCTGACTCATCCGCCTGGCCCGGGAATGAATGGGGAGGCCGCTGAACCCACCC
GGCCCATATCCCTGGTTGCCTCATGGCCAGCGCCCCTCAGCCTCTGCCACTGTGAACCGGCTCCCACCCTCAAGGTGCGGGGAGAAGAAGCGGC
CAGGCGGGGCGCCCCAAGAGCCCAAAAGAGGGCACACCGCCATCCTCTGCCTCAAATTCTGCGTTTTTGGTTTTAATGTTATATCTGATGCTGC
TATATCCACTGTCCAACGGAGTTAGACGAATAGATGTGTTGTGTTTTTTTTCCCTTTTCTTTCTATGAAAGAAATTGTTTTAGTCATAGCTTGT
GGGTTTCAAACAATGGGAAAAGTGAAAAAAGAGAAACAAGCCATCAAGGCTGTGGTCTGGGCTGGATGTTTGGTGGTGGGTCAGCACGGTGTTG
AAAGAGTAGAGAAGATGCCCACTCAGGGGCTCAGGGCCTGGGTCCGGGGGCAGGGGGATGCCCCAGGGCCGTGATGGGCAGGGGACCTCCAGAG
CTGGAATTCCATGGGGAAGGAATAAGGATAGCCAAGCTGAGGAAATGAGGGAACGGCCACTGGCACCAAGGCCTGGAGCAGAGTAGAGCCTCTG
ACAGGGAGAGAGCAGCAGGCACCTGGAGGCCCCAGGTAGGCAGCCCTAAGGTAAGGGGGTTGGCCGAGCCCCCAACAAGTCAGTAGAGCAGCAA
GACGCCCACCACCTCCCCTCCCGCAGAGCCTGTACTCACTCAGCTGATACCTTAGCACCAGCTATGGATGTGCCCCCTCTCTAGGTTTGGGGAC
AGTGGCCTGGTGGTATAGGATCAGCTGGATCCCAGCAGGACCTTGGGATGGGACTGGCCATCAGGAGTTCCTCTGGGATCCTCACCTCGTGGGG
CTGTGCACAGGGGTGCCCCCTGTGCGAGCCCCCATCTCCTTTCCCCAGCCAAGGAAGGCAGGGAGAGCCCCTGGAACAGGTGAGCCATCCTGCC
GACAGGAGCCCTCATGAGGCCTTACTAGGGGTGCTGGGTGTGCCTCTGGAAACAGGCAGCAGGAGCCCAAGGGCTGTCTCAAGGCCATGCCTTC
CCCGTCCCAGCCCCACCAAGGATCTCTGCTCCACTCTCTGCCCTCCCATGCCTGTCCAGTCCCCATGCCCATCTCTGGGCCCTGACTGGATGCT
CAGCCAGACCTTCAGGGCAGTGAATGCCAAGGGAAGAAGCTATGGAGATGGGGCAGCCAGGAGCAGCCAGTGTACCTGCCTGCAGGCCGGGCCC
AACACAGCCACCATACTCAAGCCATGTGCACGCCGGCGGGGAGCCAGGCCTTCATAGAACAGGAATGGCTGGCCATCCCCCAGTGTGCCCCATG
GTAGGAAGGGGGGTCAAGGCAGCCCCAGGAGTGGGGTGGGTGCACCAGCGTCCTAGGCATGGAGGTCATGGGAACACAATCCCCAGGCCTCAAG
AGCCAGAGAAGGGCCAGCCCCAGGCAGGAGCATAACCCCTCCAGGAACAGTGTCCCCTGACCCTGCCACGCACCTGCTGTCCTGGACCCTGAGG
GCACAGGCCCAGGGCATGCAGCTAAGGCTGGGCAGAGGGGCCTGAGGGACTGCTGACCTCCCTCCCCACACCCTCACCCCAAGGTGCCCTCACG
GCTGCCCAGCAGGACACCCTCTCTAGGCCACACTGGGCCTGGCCACCCTCTCTGGGCACCATTTTCAAGCTAGAGCCCTTGCTCCTGACCTTTG
TGACGGGTCCACTAGAAGCCTGGCCTTCCCAAACCCCCCACCTGCCCCTCACTATCCACTTCCTAGGTCCCCCTGGTCCTGTGCCTCATCCACC
TCCCTAAGGCTACAGATCCAGCCCGGCCCCCACCAGAGCCCTGCTCCTCCCCACCCCAGGTCAGGTCTTTCCACCCCACTCACTGCCCAGGGCC
TCCTCACAGTGCTGGCATAGTGAAGCCTCACAGCACCCACGGAGCAAGAGAGCATACCGCCCTCTACCATACCCTGCTGGCTGCACAGGGCTTC
TGCCCAGGTCTGGCTGCTGCCCAACCCCTGCCTGCAGCAGCCTTGCAGAACCTCATGAAGCAGAGGCTCCCACCCGAGGACAGTCAAGGAGGCC
AGGCCCAGGAGGGGATGAGGGCTGAAGTGTGGCTGCTGGGGTGGTTGTAGGGAGGGAGTGTTTCTCCAGAGCCACCAGCCATGGGAGCACAGAG
CTACCCAGGGCCTGTCAGGGCCAAGGGAGAAGGGACCCGGTCCAGGACTCTGGAGGTCAGGCACCCCTCTCCTTTGCCTCCCAAAACTGTGCCT
CAGCTTCCATGCACCCCCAAGGTCTGGTGGGCACCCCAATATCACTCCCAGCCATGGCCTCATTGGCTGGGGCCGTGACACCCATCCCAGGTGG
GTCACCCACTGCTCCAGGGCAGCCCTGACCCTCCATAGGCAGGGCCACTGGAATTCCCGGGGGGCACCAAGGGCAGCTGTGCTACCGTCTACAA
AGAGGGAGCCAGTGACTAAGGGCATAGGACCCCTGTGGTGCATCACCAGTGGGGGGACCCCAAGCCCGCTCAACCCGCCAGGCCTTCCTGAGCA
ATAGCCATAAAGGGTCAGTCCTTGGGGGAGGGCAGTGCCCCACAGGAGCCCCTGGTCAGCCCCAGCCCATGGGCACAGTGCCTCTTAGTCGGGA
CCCAGGTCACAGCCACCCTAATTAGCACCTACTGGGCCCCAGTGCCAGGGGCATTGCAGATGACAGACACTGACCCAGCCGGGAGGCGGCTGGG
CAGGCAGAGGGCACGAGATCATGGCATGGCTGCCAGGTTGCAGGGACCTGAGCAGTCAGCATAGGCCGGGGCAAGAGCCCACACCCAGATCCA
GGCCAGGGCCAACTCGGGGCTCAAAGCTGAGGTAGGCCCCAGAGAGATCCCCAGCACCCAGGCTCTATCTCCGCTGCTGGGGCCCAGAGAGGAG
ATGGTGCTGGCCTGAGGACACACAGTCTGCTGGAGACCCAGGGGGCCATCTGGGTGGAGAGCCGAAGGTCCCCTTGCAGGCCAGGTGTGAAGGA
CCACTGTGAAGATGGTCTCAGCTGTCCCCATCCCCACTGTGGCCCTAGCACAGACAGAGGGTGACCCCACAAGAGGTTCTGGATGTGTTTCTGA
GGAATGGGGGTCGGCTGGTCTGCAGCCCCTGGGGCCATAGGACACACCCCAGTTTATAGGCAATGGGGGCTGGGAGGTGAAACGCTCAACTCAC
CCTGTGTAGGAGCAAGGCCCACTCCTGCCTGGGCCTCAGTTTCTTTTCTATGTAAAAGGCAGTGAGCCAAGGGAGGTCTTCCCTCCCACGGGCC
TGCTGGCTTGGGCTGCTGCACCTGGTGCATGGCCTCCCTCACCTGCCAAGGGCAGGCATCACCCCGGGAGCCCCAGCCCCCAACCCCCCCGGAG
CCTGCAGGCCTCCAAGTCAGTCTCAGAAGCCACCCCCCAGGGCGTTTATAGCCCATCCTGCCCACCCGCCCTGCAGAGGGAGGAAATGCGCCTG
GTGGGCCTGTTCGCAGGTAGTTGAGACAGGACAGGAATAACCATATAAAAGGCCCGGAGGTAGTGGGGCCCCACCCCACCAGGGCTCCCCTGCC
CAGCCCCCTGCACATCTCACCCTCCATGCTTTGAAGTCCTGGAGGGGTGTGGCCAGCCCCCAACTTGGGCACTCCTCCTCTCTCTGACACTCCC
CTCCTGACACCTACTTTCAGGATCCTGGGGCCTCAGTTTCCTCCCTTCAAGGAGGATCCTGGAGGCTGCCAGCCTGGCCTCCCCAGGACGCTGG
GACCGCAGCAGGCAGGTGCAAGGCCAGCTCCAGGTCCCCATGCCCGACATGGGGTGGGGGTGAGGCCCTACTTACTGACTGCCCAGTGCCCGTC
CCCAGTGCTGAGCCTGGGCTTGGTGTGCCCCGGGGCCCTGCCAGCCCTGGCCCTTGCCCCTGCTCCATCATGGGTCCTCTCTGGACCATGCTGG
GTCGGTGGGGGCCTGAGAGGCTCATCAGTGGAGACGGCCCCTCCCCTCTCAACCGGGTTCCACACCCAGCCTAACTCCCCTAGTGTGGGCCTGG
CGTCACCATCCTCCAGTGGGTGGGAGAGGAGAGGGCAGAGGGCAGGACCCCTGACCAAGCTCTGGGCCTGTCAGCTCCCAGGGGCACAGCTGCT
GCCCCAGGAGTTGACACAGCCCAAAAGATGACCTTGGCTCAGGGGGTCCTCGGCCTGTCCAAGGTTGGAATGTGGTCTGTCACGGCCTCCAGGG
AACTCCAGGACACAGGCTGAGCAGCCAGGAATGAATTCAGGGCTTCCCCGCAGTCCCTTGGGCTATCCTCAAGAAGGAACATTCTAGAAGCTTC
TTGTTGGGGGAAGGCGAGGCCTGGGGAAAGATGCCCCTGAAGAGGAAGAGAAGCTGGGACTTGGGGGTCCCACACCCCAGTCCTTGGAGGGGGT
CCTCCAAGGACCAGGGCATTGCAGAGATGATGTCAGGCCCAGCTTGCCGTCCAGGCCTCAATACGCCTGTTTGTGTATGGGGTGGAGTGTCTGA
GACGTCGTCAGACATCAGCCACTCCTAAGCCCTAGCAAGGCTGCCCTGGCCACAGGTCCCCCGATAAGGTGACCCTGTAACTTCATTCCCTGGA
GCCTTCCTCCAGCCTGGCCCTCCCCGATGTTTCAGCCGGATGGATACCTCCGCCCTTTCCCCTGCAGATAGCCTCTCACCAGGAATTACAATCA
GGGCCATGCACTCAGAGCCTGGCATCATCAGAGTGGGGGACCCAGGTCCCCGAGCCCAGGGCGGGGCTTGGTGGGTGGACTGTCCATCCTGCAC
TGAAGCCTGGAGTGACAAGCCATGAGAGAAAGTCCACGGGGAGAACCAGAGGGGGACTCCTGGGATGCGGAGCCAGCCTCTGCCCTCTGCCAGG
CTCTGTCCTGAGACCCTGCCCTTCCATCTGTAGGCCCTGCCATTCCTGGGCTACTGGCAGAGAGGGTAGAAGACGTTGGAGCACCCTGGGCTGC
GGGCCCAGGTAAAACAAGTACAGACCCTGAGCCTGGACTGAGCTGAGGATGTGCCCCATCCTGGAATATAAGAAGACACGGCCCTGCCCTGGGG
TCTGGGAGACACAGCCTCAACCTGGGTCCTGGGGGAAGCAGTCCCACCCTGGGGTCCAGCTGTCGACCTGGGATGAGCCCTAGTTCCCTCTGCC
CTACAGTGGCACCACCGCCCCCACAGGCCCCACCCCCTCCCCTGGACAGCTCAGCCCTCTTTCCCAGTCTCCTCCCCTCATGGATCCCCCTTT
CTGCCTCTGAACCCCTAGGGATGGATGCCTCAGGACAGGGCACTCAGGTCCCTGTCGGAGTCTTGCTTGGATCTGGAGCCCTGGATCCCAGGGG
CATGACCTCCTGGAGCAACTTCCAAGGTCTGGGGGACTAGGTCAGTGTTCCTCCCTGCAGAACTGGACTGCTGTCAGTGGCTGCCTTCGGGATC
ATCTGGGAGGGCTTCCAGGAGGAGGTGAGCATGGGGACACTTCCTAGGGCTCCAACATCCTCCTGTAATTCTGAGATTGCATCCCTGCAGACGC
CAGGAAAAAAGTGGGTTCCCATGGCAGCCGGGGAGCCCTCAGAAGGGGCCCCACTGAAGCCTGGGAGCCACCACCCGCCTGCCTGGCCAGGATG
GGAGCTCAGCAGAAGGTGCTAATTGCTGTTTAGCTCCAAGCTGACTCCTTGCTCTCTTTTTGTCTCTCTCTCTCTCTTTTTTTTTTTTTAC
TTGAGCCTCTAGAGCACACAGTAAACAGTCATTTGGCTCTTGGGGCCCTGCAAATTGGTGTTTATGGTGCGAAGATGAGGAGGATTTGTCCACC
CAAACACAGGCTGGCTGGGAGGGAGGAAGCAGGGGTGGGACATCCCATCCAGGCCCAGCTCGGGGAAGCCTCCTTCAGACTGAGGAGCTGTGGT
CTCACAAGCAGGGGACTGTGATTAACCCAGGAGAGCTTCTAGGAAGAGGTGAGGCATCCGCGGCAAAAAGACCTCCTCCAGGGGAAGCTGCAAA
GGCTCCACCATACCCTCAGGTGCCCATGGGGAGCCCTGCCCTCCAGACCCAGCTGGGATCAGAGCTTCTTGGCTGGGTCACAGCCTGGGTCTCC
TTCCAACAGCACACCTCACCTGCCCACCCAGCAGCCAGCTGCAGAATTACAAACTGGAATGCCAAGGCCCGGTCTCCTGGCAGGAGCAGGAAAC
ACAGAAGTCCAGGCGCAGGCATATGGGCTGGATGTGTGGCTGGGAAAAGTGGATTTCCCCAGGTATCTCCCCCTCGTTCACGAACCTGAGGTGG
GCAGACTATGCCCCAGAGCCAGTGCCCGGGCTCCTGTCTTCTTCTGCTGCCCAAACTCACCCCACCATGGCAGAAGGCCAAGAGGCCAGACTGG

CATTGCCCTCTCCCCACTCCATCCAAGGTCTGGCATGAGGCACCGGCCCTGCAGTGCCACTCCTCAATGGAGCAGGCAGCCTGCAGCACCAACA
CCAAAGGCTGGGGAGGACATGGGATGCTGGACATGGGAACCATCAGGAGTGTGCAGGAGGGGCAGTGTTGGCGGGTAGTGTAGACCAGAATGTA
CAGGGCATGTAGAAGAATGGATAGTGTAGACAGGGTAGTGCAGAGGAATAGCACAGGTGGGATAGTGTAGGGGGATAGTGTGGGGGGATAATGT
AGGGGGTATAGTGTAGAGGGATAGTGTAGGGGGATAGTGTGGGGGGATAATGTAGGGGGTATAGTGTAGAGGGATCGTGTAGGGGGAATAGCGT
AGGGGGGATAGTGTAGAGGGATAGTGTAGGGGATAGTGTATGGGGATAGTGTAAGGAGGATAGCATGGGGGATAGTGTANNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

SAGRES DISCOVERY 02-11

TABLE 11

MOUSE NOMENCLATURE
ICSGNM Ly6e
Celera mCG2785

HUMAN NOMENCLATURE
HGNC LY6E
Celera hCG1765592

MOUSE SEQUENCE - GENOMIC

TCTCACTTCACCTGGGTCTTCCTCAGGACAGGGGCCTGCTTGGAAGAGCTTTGTGAGTGAAGTGGCTCATCCAGTGAGAAAGAAGAGACAGCCC
TGCCTGGGAACACCCTAGGAGCGAGCTTAGCAGACTGCAGATAAGGGTTCCTCCACCCTAGAGACACCCTCTGACTGTGGGAGGGACTTAAGGA
TTTTCTGACTGCACTAATCTTGTCCTAGTTTGTGAACTCGGCAAGGCACAGTGGACCAAACTGAAAAAGCAGGTACAGGAATGACTAAGGCTGA
GTTGAGAAACTCCTCACGGCTAGGACCAGGGCCTGCTAGGATCCACAGATGGATGGTTGGCCAACTTTCAGTCATCCTCATGAGATAACATTCT
GTCTGGGAAGGTCAAGGGGTTTGTGAGCAAGAAGTAGTACAGGTTGTATCCTGTCTCAGTCAATGTTCTATTGCTGTGAATAGACACCATGCCC
ACTCTTTACAAAAGAAAGCACTTAATTGGAGCTTGCTTACTGTGTCAGGGGTGTTGTCTATTATCACCATAGCGAGGAGCACGGCAACACAGGC
AAGCAGACAGGACGCTGGGGAAGTAGCGGAGAGTCCTGCATCTGGACCCACAGGCAAGCAGGAAGAGAGTGACACTGGGTCTCGCTTGGACCTT
TGATGCCTCAAAGCTCACCCCTCAGTGACACACTTCTTTGAACTGAAAGAACCTAGTGGGAAAACCCCCACTCAATTTCTGTTCAGTGCACACC
CAAGAATCACGAACAGACGACCATCTTGATGTAAAAGCATGAGGTAGTTTAATGACGGAGCTCCGGGCCGACACATATCTCCCACAGGAGACAG
AGGTGTGGACCACATGGTGGAGCCATAATGGCGGAGCTCCGGTTCAAAACGTATCTCACACAGGAGACAGTGGTTTCGACCATGAGGCTTGGAA
GCTAGGGGCTTTTATAGAAAAGGGGGTAGGGCTGGGGGAGGAATTAGCGAGGTTTTACATGATTGGTCTATTTAAATATCAACAGACTGTCAGA
AGGGCGGGAGATAGGGAGGCACTAGGCCAGTCAGGACATGTAAGGCCTGGGCATGTCCTGGCCTGTTCTGCTATGTTCTCAGCCCCAGGTTTTA
AAGCTCACAAACAACTCTTTGGGCTATTTTGACATAAATTACATGAATTCACATGTCTCAAGTTTTATTTCCTTTCAGAACAAGGCTANNNNNN
NNNNNNNNNNNNNNCCTGTCCTTACCCTGAAGACCATCCTGTCCCTGAAGACATACTGTCCTGGTCCCTGTAACTCCCTGGGGGGCAGCCGAAG
TAGGTGTTTCTATACATGAAGAGAGGACAGAAAGTTCTACATAAGACAACCTCAGCAAACTTCACCCTCACTGAACACATGTCTAGAATCCCAC
CAAGGTGGGACAGGCTCAGTAGTAACAGAACTCCAGCCCATAATAAAGCCATTGGCACAAGCCTAAGTCACACCATGGATGTCACTGTCAGCCC
ATGACAAGGGACCAGAAAGAGTAGCACAATTGAGTTGGAGATGTGGTTCTTAGCATGTATGAAGCCGTAGGTTTGATCCTTAGTACGCATAGCC
CTGGTATGGCGGTGCACAGCGCCAATCTGTACTCAGAAGCAGAGGCAGGAGGTAGGAGGATTAGATGTTCATCCTTAGCTACTCAGTAAGTTCT
AGACCACCCTGGGCTCCATCAGACCCTGGTTTGTTTGTTTGTTTGAATTTCTTGTTACCATTGCTCTGGAAGGGTAGATGTTTCAAACCCAAGA
AGACAGATGCCGGTGGATGGATTCTGAACTGTTTCCCAACAGCATCCGAAGGGTGGTTATAGAAACATATTCAGAAATAGAAAACAGTGGGGGT
GGGGGCTTCCGCAGGGCCTGTGGTGTACCTGTTCAAGCGGCACTAGGATCTGAACATCTAGTCAGGTCACAAGGTCTGTGAGGTCTGGACTGA
GGCAGAGGTCACTGGCCACGCAAGTAAGATCTGAGTCCTTTGTTACAGAGGCTACAGAGAGACAATAGGAAGATTCCCACACATGACTTGGATG
GCCTAGGAATGAATGAGTGAACAGGAAGTGCTGAGCCACCAGTGGAGTGGGATCACAGATTTGTGAAGAGAGACAGCACCTGTCCCTCTCATGT
GGTGTCACAAGTGGACTGACTAAATTAAGGAATTGAAGGATAGACCAAGAGTTCAGCACATGAGATCAATCTGTGTAGAAACTCCTGGAATCAC
TGCCTGGGTCCTGAGATCACTGCCTTAAGGAGGGTTCTCCTTGGGGACGTGGATTCCAATGTCAGTCATAACTCCTAGAAGCTTATCACTCACT
CTCAGATTCCTCTTAGTTGCACAGCATTAAGGGAGCCAGCCAGACTCCTCTACACAATGCTTCAAAGGAGACTAGGCTTTGTGCCTGAGTAATG
ACAGAGACCTTAGAACTCTTGAGAGCTATATACATCCATAATCAATTAAGGTCTCTTCTGATGTAACTTGTCTTCCAGGTCCAAAGGAGGGGCC
TGTTCTCATGAATAATGGCTCCTCACTCACTGAGACCCTGCCATGAGCCACACGTGGTGCTAGACACAAGATGAAGTTCTCTGCCCTCAGGTCC
TTCATAGTGACAGCTTGACAGGAATTCAGATCATTGGAGCAGCCCAAGAGCAAGTATGAAAAAGATATTCTAACTACAAGGAAGACATCTCCAT
CCTTGGCTACTGGTCCTGCCCCCAGGTAAGACCAGGGAGGAAAGAGAAAGCTAAGGCCTCAGATACTGAGCAACAGCCTGGCCATTGCCTGCTG
GATGGTTTCTGTCTTGGGAACACCCCAAACTGTGGATTCCCAGACCACCAAATGTTACCATTGTTGTGTTGAGAGAGAGAGAGAGAGAGAGA
GAGAGAGAGAGAGAGAGAGAGAATATGATGTTTGGTGGAAGTGCAGTCAGGTGTGGGTGGAAGATGGTGCCTCTGAGGGCCCATGCTGAGCCAT
CCCTTCCCCATGAGGGTCCAGCCATAGATGGTATAGTATAGTACAGTATAGTATAATATAGTATAGAATAGAGTTTATTCAGGGCATGGGGAGG
GGGGGTTAAGAGGGTAGTNNNNNNNNNNNNNNNNNNNNNCTTCCCTTTCCTTGCTGTGGCGTAAGCTAATTCCTGCATTACGGCTGGTGAGGCAT
CTACACATGCTTTAATATAATCTTTCAGGGGAACTTGTCTTATGGATTGGTCTGTTCAGGTCTTGGCACAAGGTATTCACGTATTCCCAAGCCA
ATTGTTTTATTAATATATCAGTCCCTTCCGAGGGGGGAAGCATCCTAGAAACTGCCTCTTCCAATCTAGCCACAAAACTCTCGTAAGATTCATC
ATGCTTTTGTCTAATTCCTGAAGGGACTGTGGATTTAGCCCCAGGTGGAGGTAAACTCTGCCAGCTAGATACAGCTATCTGACTAATTTTCTCC
AACACTGCTTTTGAAATTTTCAGTTGTGCTGCTCGTTTAGCATAGTCTTTTTGCCCAAGAAGCATAGGCACTGTGGGTTTAGTTCCATTTCTAT
TTTCCTCATGGAACTTCCTCATATCCTTACCTACTCGCTTCCAATATTCTAATGTCAAGCTTCCCTCCTCTAGAAACCAGGGACTGATTTTTTG
CACGAAATTATGAAATTTATCCGAAACCTTTAGGCTTCTTCCAGACAACATGTGCTTAAACACTGACAGAAACAATCTTTTCCCTTTTAACTTT
TACTGCCCCGTAATAAAAAATTACTCGTCTCTTAACGGATGTACAGATCCTCTCATCTGCAGCACGGTCACGACGAGATCCTATCTTTGCCTGA
GAAAATAAAGAATAGAAAGAAAAAAGAAAGAGAAAAAAGACTGATCTGCCCGGGTGTCCCTGTTTGAAGGCACCAACTGCTGCAGACCCTCTGG
GCTAATGTTTGTCTGCGTGAAAAGAGTCTCTCGAGCAGATGGGCAAAGAGTCAGATGGAGTGACAAACAGATACACACACACACAAGAGAGGTG
TTGGATCTGAATGTAATGTTCCAGTCGAGCCTCAGACATTTTATAATACAGAGTAACAGAATAAGGCACGTTGAAGTTTTCCAGGTGCGAGAGG
AGTGACTTCAAAAGGAACCAGATAAATGTTTACTTTAGAGATTATCACCCTGCTTCAGATCAGCCCTGTGCCAGGCAAGAAATTTACACTTCAG
TGTTAATAGCACCAGGGGGTTGTTAACTCTTGACAGGCTTCAAGAATGATGTAGTGTCACTGACCCCGAAATTCTCTAGGCCTTGTTAAATTAT
ATCTAGTCTGGAGAATCCTCATTATCAGGATAGTATATTCACTTGCTCTTGGCATGGAATGTAGCTTGTGGTAAAATTTTTATCTCAGTGAGGA
TTTTTGTCTCTTCCTGCAGACAACTGAGTTAATGGCTGTAATTTATTCTTTTATTGTAGTGCTTAATTAGTTACTGAATAGGTTAAGCTCCTTG
CTGCTGTCTGGAATTTTGGAACACTGGGAAAGGCTTTAGCTATGTCAGAATACAATCTTAAAAGGCATTTACAATAAGGTAATACTAAATAGAG
AGCACGTGGATCCATACACTAGACTAACTCGGGAATGAAAAAATTAATTTTATGGTTTATATAGATTAGGGAGAGAGTGACAGACCCCAGGAAG
GGAGTTTCCTTGAAACTCTTTGCTTCATGAACCAGCTTCCCAGCTTTCGCTTTGTCAAGCTGACTCCACCAGAGTGCCATGGCAAACATGTGGT
CACTCAGATGCCTGTTGCTGCTGCTAAATACCTTCTTCACCATAAGGGACTCTTATCCCACCAGGAGCCCTGACCCTCAAATACACTCTTCCAT
AATGCTGTTTTCCATCCTGGTGTTTTATAACTGCAACAGAAAATTAATGGGATACATCCTGTCTTAAACAAAAGGAAAAAAAATAAAGCAAAAC
AATAACAAAAGTCATTCAAATAAAGCATTTTGGAAGCAAAACTAGGCAATAAAACTAAAACTGGAACAAAGACTTTTTTTTTTCAAGACAGGGT
TTCTCTGTGTAGCCCTGGATGTCCTGGAACTCACTCTGTAGACCAAGCTGGCCTCGAACTCAGAAATCCTCCTGCCTCTGCCTCCCAAGTGCTG
GGATTAAAGGCATGCACCACTACTGCCTGTCAGAACAAAGACTTCTAATTACTTCCTATTAAGAACAGACCAGCTGTTTCAAAACGGGGCATAG
GGGACAGTGTTAGATTTGGTCCTGTGTCTTCTCACAAGCTGCTTAGTTTCTTTACAGCCCTTCCCCCTTTTCATATACAAGGTCTCTTTTCATC
CTAGCTTGACCTGGACACTGAAGATGACCTTGAACTCCTGACCTCCTTGGCTCCACCTCCCAAATGCTTAGATGACAAGCACGCACTACCAGTC
CTGGTTTATATGGAGCTGGGGATGAACCCAGGGTGTCTTGCTTGCTAGGCAAGTACTCCAGCAAAGGAGCTGCATCTCTAGGCTCTCAATAGAC
TTCTTCAATCTTTCTACTTCATGATCTCTTTCACTCAAGGTGCAGTTCTTCTTTGCAGAGGAAGATAGTTTATTCTGGAACCATACAAAAATGG
CCCAGGATCACAGATTTAGGTTACCCCAAATTTCTGTGTTCCCAATGTGGCAACAGTTTGAGGAGNNNNNNNNNNNNNNNNNNNGATAGGAGA

GGAGAGGAGAGGAGAGGAGAGGAGAGGAGAAATAGAGGCTGGCCATAAGCATGTGGAGAGGGGGAAGGGAATGGGAAGAGAAGGGGAATGAGTG
AGAGGACAGAGGGGTAGCAAGAGGGCTAGAGAGAGCAGAAGCGATGGCAAGAAGCCCCTTTTATAGTGAGTCGGGCATAACTGGCTGTTGCCAG
GTAACTGTGGGGTGGAGCCTAGACAAAACACTAACAGCCATGCTGTAGCCTGGACACCTGAGGACCCACACTGAGTCTTGCTGTCAGCTCTTGA
GGAATGAGCACCAAAAGCATGTGTGTCCCCAACCCTTATCTGTATGGGATGATCCTGGGCATGGCTGGAGCTGAGGAGAACTCTGAAAACACAC
AACAACAAGCTGTTTCTTCGCATCACTAGCAGCAAACACGGACTATGCTCCCAGTTCCCCTCCACCAACAGCTAGCTTCCAGCTACAGGGCAAC
TTGGCCTCGGCCCCACCCTGGCCAACCCACCCAAGCAGCTTCACAACTTTTTCTGTCTCCTCCCTACCCCCAATCCTAGGACCAGCCCCTGTCA
CCACCATCAACTCCTTAGACTGTGAGGAAGATCAGGTGCAAAGCCCCTATTTCCACATGTGAGACCAAGAATGGAAGTGTGACTCTCAGAAAAG
CAGGTGGAGGAAACTCAGCAGCCCACAATCCCCTGAGTAGGGCTGTGCTGGAGGATGATGGGGGTGAGGAGGGAAGGGAAGGAGAAGGAACAAA
CAGGACTGCCAGGCAAAGGGAGCCTGATGCCCTGATCTCCCCCAGAAGAATCACCCAGAAGCAGGACGTGGGTCCCAGGGTTCTGCTAGAGGGA
TAACACTCAGCAGGTGGTCGTTAATATTTGTTAGGTGTGGAAGCACTTCCTGAGCGGTAGGAATAGAATACTGGAGGACGCTTAGGTAAAAGCA
GAAGGGTTGGAGATTTCCTTGTAAAAACTGGGGCTTCAGCACTTAAGATGAGAACCAAAACCGGATGCCTGGGCTGGATCCTCTGTTCATACTC
AAGGAGCGGAGTGTAGGAGGCAGCCCGGCACCTAGAGGAAGTGGGAAGTGAGAAACAGATCTGTTCAAACCAGTGCTGCAATGACCTCCTTCCC
GAGGAATTTCTGTCCTGCCGCCTCATCCCCAAAAGAGGGATGGCCCAGACGGGCTCAGCCCAGAGGGACCTGACAACCTGAAGGGCGGGTGATG
AGGCATCCTTGGTCCAGGACTTCCTCAGCCTTACAGCAGCAGAGATTCCCATGAGCGTTCAGGATGCAGTCTGTCCCCTCACTCCTTCCGGAA
GCAAGCTAAGCCTGCGCACAGGTCTTAGTATCGGTGATTGCCAGAAGCCCTGGCCTTTCCACCCTCCCTAGGTCTGTCCTGAAAGGTAAGGTAG
ACATGCTACACCAGAAGCCACGCCAGGGCTCTGATGCCACATTGTGTGCGGTGGGGCACTTAGGGCGGTCTCAGCCAGGCTTCTGGGTACCACC
GGGGACCGCCGCCGTGGGCGCATAGCTTGGGACCCCTGTCGTAGTCTCAGAGGAGCAGTTGTGCAGCCAAGCCAAGGGCACAGCCGGAGTTGCC
AGAGGCCAGCAGCCAGGGTCGTTCTCCCCACCAGCCAGAGACCCGCCCACAGCCCATGAAACGCCCCGCCTGCAGCCCGCCCCCGCCATCTGTG
CTCCGCTCCGCCTGCTTGGGTGCATTCAGCCTTTGGTGATCCTCCAGGACCTAAGGTTTCGGTATTATCTTCGGGGCCTCTTCACCCGGAGGTG
AGTCTGCTGAGCCCGACCTCAGGTGTTCACTCGTCACGCGAGGGCCTGGCCACGGCGGGGAAGCACTGGGAGAGAGCGGGAGGCCTTGACCGCA
GCGTGTAGGATCTGGGGTCCCGGCGCTCTGCTCCCGGGTGCAGAGTGGTTGGAGCATGCGAGGCCCTCTGCAGCGTGCTCTGTTCCTACCATCA
CCCCACCCCCACCCCAGTCCTTCCTGCACGTTTCTGGAGAGGCAAAGGCCCCTGCTGAGCCTTCACTGGGTACCCCTATCTCGACTCCACTTGT
CTGCTTGGGATCTCCAAAGGGGGATACACCCTCGTAAACTAGAGCAGGAGGCTGGGGGGTGGGGGTAGGGGTAGGGTCTGACCAGTTAGATTGA
GGCTGGACCCTCCCCAGAGTGAGGAGCGGGAAGCTCTTTGTCTTATCCAGGATTTTGCATATCAATGCTGAGGTTCTGGTGATTAAGTAGGGTC
CCTGGCTAGCGGGGGTAACCTGAACAACCTTCCTCCCGCTGGCCGCTAGCCAATAGACACCTGGCTTCCGCGGATGAGCCCTTTGAGTTTGTGGA
GGTGTTCCTCAGGTCCCCAGGGCCCTGCCCCGTTGCCTGCAGATGTGTGGACAGACAAAACATTGGACTCGTTTTCCAACCACTTCACCCCTTC
CTTCGCTAGTCCTCCGGTGGACGATGGGATGCCTCATTGACTTGTTTGTGGCTGTGCATGCCAGAGCTTCCTAGCAGACAGCTCAGGGCTCCAT
CGTTCCTAAATCCCACTGTGTAACGAAAAAAAAAAAAAACAAAAACAACAACAACAACAACAAAAACAAAACCAGAAATGAGGACAGGCCCA
GCTGGGCTTGGCACTGAACTTGGCCACCTGGAGCTTTGGCTACCCACTACAAGATGTCAGCAAGTCTCAGGATAGAAGAGGCCTAAGGCCAGTC
CTGGAAGATACCAAAACTTCACCTCCTCTATACCCCGTTCCTCTAGGAGAACTGTAAGCCACCTTTGTCTCTGGGACGCCCCTCTCCCACTCAA
CAGATGGCACCAGTCATCTTCCTCCTCAAGAGGCCAGTGGTATTCAAAATAGGATATTGAAACCAAGCAAGCTGGTCCTCTCCTCTACCCTATG
CCAAAGACTTCTGCCCAAAGGGCCCAGAAAAGTCCCATAGCCATCTGGCTGGCTAGTGTGCTGACTGCTACAGGTGTCAGTGTCCCCAGCGAGC
AGGTAGTGGAGTGGAGGTGTCTTCTTGTGGAAATGGGTCCTGAGCCTCTACCTTGTACAGAAAGGAATTAGTGAAGCCCAGAGGCCTCCAGCCC
GTGTCTCTGCCACAAGAGAGAGGGGGTGGGGGTGGGGCTGTATTTGGTTCCCAGGGCTCAGGGAAGGTTTTCGGTTCATGCATGCTCATTTATC
TGACCACTGTCTTAACCCCAGGACAACCACTTAACTGTCCACTTCCATATCAGAGTTCTTGGTTCCCCTTTACTTCGTCTATGGAGCCCCTGAG
TTTGGGAAGGGGTATTAACTGAAAGGTACCATTAGATGAACTTGGAGAAAGATTTGTAGGTGCCACGGGAGATTTCAGGTAAAAGCTCTTTTAA
TAATTGGCTACAATAGCAGCAGGAGGAGGCCAGGAATTCTGAGGTAGAGATTTGATTAGCAGCACGTGGAGCAAAGGAGACTTCTGACTCCTAC
AGGTTTCAGAAAGTGGGGAGAGGCTCTCAGATGAATGGCTTGGACTGTGAGGTAAGTGTTAATGAAAGGAAATAAAACTGTAATTCATGTAATG
TATGTTAAATAGCCCCAAGAGTTGTTTCTGAGCTTTGAAACCTGGGGCTGAGAACATAGCAGAACAGACCAGGACATGCCCGGGCAAGCCCATC
GCCTCCCTAGCTCCCACCCCTCTGACCTAAGTTAAATGTTACAGGCTGCTGATGTTTAAATGGACCAATCATGTGAAACCGCGCCAATTCCTCC
CCCAGCCCCACTCCTTTTCTATAAAACCCCCTAGCTTCCAAGCCTCGTGGTCGAATCCACTGTCTCCTGTTGTGTGAGATACGTTTCGACCCGG
AGCTCCGCCATTAAAAAACCTCTTGTTGTTACATCAAGGTGTTGTGTTCTATTCGCGATTCTTGGGTGCACGCCGAATCGGGAGCTGAGTGGGG
GTTTCCCCACTGAGTTCTTTCATTAGTGTAGCACGAGACTAGCTTAAGGCTGTACAAATTGTCCGTCTGATTGGTGCATGGGGCCAGGTAGACA
CTAGATAAGCAATTGGGCCTTAACTCGAGTTGTCTTAATGGCTACCCCCAGGGCAGCAGGGAGTCAATACTGCTCTCCTGTCTGGGGCCTGAAT
GCTGAAACCATCTACAAAGGGGACATAAGGCATATTGGGGAGGTGTAGAGTGGGCCAGGCCCAGGGTCTGCTGGTATCTATGCCAGGATCCTGA
GTGGTGGTGGCGTAGCCTGTCTTTTAACCAACTGCCTCTCTCACAGTAGGCTTCTTTGGCTTGCGAACCTTCAGCAGATGTCTGCCACTTCCAA
CATGAGAGTCTTCCTGCCTGTGCTGTTGGCAGCCCTTCTGGGCATGGAGCAAGGTATGGAGCTCTGAGATAACCCTGCAGCCTGGTCCTCCTCC
TGATCTCTCATTCTTTCTCCTGAGTAGATGCCCAGGGCTCCTCCTGAGCCAGCCCTCCTAGGAACGTCTGGCCTTCCCACCTCCTACTCTCTAG
CCAACTGACCTAGTTCCCCTGATGCTGTGCTGGCCCAGCTACACCTTTGTCACCTCGTGTTGACTTTAGCCACTCCAGTACCAAAGTCTGAAGT
CAGTTGTCATTGGCTGGCTTTTTTCCCTGACCCAGGGCTGAGCATGCTGTTGCTTCTTGTCAGTGGGTTGGGGATCAAGGGCCCCACTGGAAAG
TCACCTTACCCTGGAAGGCTTCCCCAGGCAATAGGCAGGTGTCACCTACAGCATTGTCCCTTTTGCAGTTCATTCCCTGATGTGCTTCTCATGT
ACCGATCAGAAGAACAATATAAACTGCCTGTGGCCAGTTTCATGCCAGGAGAAAGACCATTACTGTATCACGTTATCTGCCGCTGCGGGCTTTG
GTGAGTAGCTGCCTGTTTCCCTAGCCAGGGCCAGGGACCTGCGGGGCTTTCCCCATTTCCTGCTACCCTGTCTGTCTGTCCCCTCATCCTCACT
TTCCATGCAGGGAATGTCAACCTTGGCTACACCCTGAACAAGGGCTGCTCCCCGATCTGCCCCAGTGAAAATGTCAATCTCAATCTCGGTGTGG
CGTCCGTGAACAGCTACTGCTGCCAAAGCTCCTTCTGCAACTTCAGCGCAGCTGGCCTCGGACTTCGTGCCAGTATCCCACTACTGGGCCTTGG
ACTCCTGCTTAGCTTGTTGGCTCTGCTGCAGCTGAGCCCCTGACCATCCCCCATGTGTTCTCCATATCCCCCCAGCTCAGGAAAAGCCCAGCTC
CTTTTAGGTCCCAGGGGACCCTAGGAACCTTCAGCTCCTCCTGGGTGTGTCTAGTTCCCCCTCCACACTCTCTCAACGTCAGGGCTAAGTACCA
AACTCACCCATACCTGCTCTGTTGAAGTGGTACTGGCTACCCTTGCTTCCAGAGCCAATCCTATAACCTCCCTTGGGGAACCAGCGAAGGGGTG
AAGATCTCCTTGGAGTCTCAAGAGTACCAGAGTCAGCGCCGAATCTTGTGGACACACTGACAAGGATGTCTAATCCAAATAGATGTATATCTGT
GTGCTCAGTGTATCCCTGTGTGAATGAAGCCACTTGGATTCTGGGGTGGGCAAAGAAGACCTGAAAAGATTCTACAGCAGAAGGCCTGTGTCGC
CACCAAAACCCCTCCCCCTGGTATCATTGTACCCACCTTGTACTCTGTTCAGGAGGCTGCCCATGGAGGACTGCCACCCCTCCAGATGAAGGCT
CCCACTACCCGATGCAGTTGAGTCCCATCCTGCCCTCTCTGCCCACACTGGCTTCCTGCTGCTATTCTAGTGCCTCAAATAAACCGTTCACACC
CTTTCCTGCTATGTCCTGGTTGTCCTTAACCCGTCTTCCCCCTCCGGTCCAAAGGGACCTGGGGATCCTGCAGGCCCACAGCCCTGCTTAAGCG
ATTCTGAAAGACCAACCCCGATACAGTGATACATTCCTATGATGCCATCATAGCAGAAGCAGAGGTCTCTGGGAGGCCAGCCTGGTGCATAGCA
AATCCCAGGAATCTAGGCCCATTTAGTGAGACAGGCCTGAGAGAAAAGAGAGAGAGCAAAGGCAGAGAGAACTTGAAAGTGTGCTGTCTCAGGC
TGAAAGCTGAGAAGTACAGCTACCCATAAAGGCAGGCCCATCAGGCTGGTCACACATTCCCAAGCTTTGTCTGCCCCAGAGACTTCAGAGGCCT
GCTGTTGCCACTTGTCCTTCATAAACTACCCTGTAGTCTAAGCCATGGGAGTCTGGCCCAGGCAAGTGATACTTGTCCACCCTATAACTGGCTT
TGCTTTGCTTTCTGGTATTTTAAGACGGTCTCGCTATGTTAAGACTAGCTGCCCCAAACCCAGAGCAATCCTCTTTGAGTGCTGGAATTAAAGG
CATGCACCACCACACCTGGCCCTTAGACTTTTTTGTTTCTGAGGCAGGATCTCACTTGAACGTTAGGTACTGGCATTACAGGCAGATGCTACTA
CACCTGGCTTCCTGGGGTTCAGTGCTGTGAGTATTATGGACACTGATGGAGAAGCTCCTGAGTCTGGGTGCCTAAGGAAGCTATTTCTCAGCTG
TTCCTAAGCTTCTGGGCTGTTGGGTGATACCATAATGGGATAAGATCCACACAGATCCTGGCTGTGGTGATATCCGTGTCTGAGGAATACTGCC
CAGTGGGGGTCAGACACAGGGACAACACAGGGGCTCAGGGTGAATTTCTAAAATCTATGTAGGCATTGGCTTTGTGCCATGATTCTCAAGACCA
GGGTTCCCATGACGTATAGCCTGAGGGTACAAGAAGGAATTAGCCTCATACCAGGTAGCTCAGCTACCTGAAAAGGACAAACTTTGGGGAAATG

TCACCGGGACAGCACCTGAGACTCAGAAAGTATGCTTTGTTCCTAGAATATTGAAAGGCCAAATGGAGAAAGGTGGGAGCCAAATCTTCTGCAA
GGAGCTTGGGCTGCCTCAGTGTAGACAGTATCCACTGTGGTGTTCAGGACAGATCTGAGTAAGGTTTCTAGAGACTGGCTTGTCTGTGGTCCCA
GCAGATCTAACCACCAAAAGCAGTATGAGGGAAGACACCTGGGTTAGACTCCCGGGACATGGGAACCAGAAGGGCACCAGGCAGTGACAGGGAC
ACGTAACAAGCTCTGGTTTTCTCCCTATCTTGATTTAGCTTCCATATTGTGATGGAGTGGTGTCACAAGGCTCAAGAGTTGAGGCCACACGTGA
TCTGGGATCCTCTGCTCTAGTCTGGAGGGCGTGATGGTTTCAAGGCTAAAAACTGGGACAGTGAGTGGTCTGCTCTGATTCCTCTCAGGAGAAG
AATGGGCAGAAGGGGCTTGAGTTCCAGGAATGACCTGAGGAGAAGGGAGGGTGAGGATTGGAAAGAGGAGGGAGAACTGGAAGCAGGGGAGGGA
GGGGCCAGGGGCCAAGTTTCACTTCCCAAAAGCAGAATCGAAAGTATCCCAGAGTTAAGTTTCAATTTCATGAAGCTTGGAGGCAGGAAGGGTG
TGGAAAGAGGGAGGAAGGGTGAATGGGGAGGGAAGGGTGCACACTGCACCTCTAAGAAGGCTGTCCAGGTTTGGAGCCACCAGCTTCACTCATA
CCAGATTCAAATGCTAGATCTGATCCCACATGATCCAATATGTCTCTGATTTGTTCTGGGCCCATTCTACCTCCAGACCCTGGCCAGCTTTCCT
ATTATTGCTGCTAGTTAGTGATCAGTGACCAGTGACCAGGGCTTCCCCAGTCTGATCCTGCTAGCCTGCCCCAACCAGCAAGTGCTTAGCTACC
TCCCTTCTGTCCCAAGGGCTCCAGTGACAGACTAGAGATTGAGGACTGCAACCTCAGGTGGACGCCTCTCCACCTGAGCATCATCCAACCAACT
GAGTATCCTCAGGCAAGATCAAAGCAAAAGATGAGAGAAATTTCCCTACTAGGGCTCCCTCTAATAAACAGAGCATATGCAGGAAAAGCCTACT
CTGTACCAAAGTATAAAAGGCAGGGGCGATGTAAAGGTCTCGTAAAGGGGTCTATACTTCATGGTGGATGCTTTGGGGGCTCTGTCCCCAGCTC
AGTAGCCCACTCTCATTCCTGGGAGTCTGTTGCTTGTCTAAACTCTATCTTTAATTCTAACCATCTGGTTCCAATCTTTTGTTCTGAGACATAG
GAGTCTAGAGTGCACTAATGCAAGAGGTGTTTTTGTTTGTTTGTTTGTTTGTTTGTTTACTACTTTAAAAAATTGAATCTTATTTTTTTAT
TTTAATAAACTTTATTATTTAAAAAAGCGTGCAGATCAGGGGCTGGAAAGATGGCTCAGCAGTTAAGAGCACTGGCTGCTCTCCCAGAGGACCC
AGGTTCCATGTCCTGCACCCACATGGTGGCTCACAACTGTCTGTAATGCCAGTTTACAGGGATACCCATCCTCTTCTATCCTCTAGGGGCACTG
CATGCATGTGATACACAGACAGACAGACAGGTAGACAGACAGACAGACAGGCAAACCACTTAGACACATAAAATTAAAATCTTTTTTTTTTAAAG
CTTTCAAACAAAACCACGATACATCAAACATTAACCAGACCCAAAGCCTAGACGACGTAATGAACTTACATGCAGTTAGAACTGGCATTTGAAA
TGGAAGCCGTGAAGCTCAGCATTAAATTTACACTTCCAGTACCAAACATTCTATGCATTGTTAGTTAGGGTTACCGTTGCTGTGATGAAACACC
ATCACCAAAAGCAATATGGGGAAGAGAGGGCTTATTTGACTTATACTTCCACATCATAGTGCATCACTGAAGGAAGTCAGGCGAGGCAGGAACC
TGGAGGCAGGAGCTGATGCAGAGGCCATGGAGGAGTGCTGCTTACTGGCTTGCCCCTCATGGCTTGTTCAGCCTGCTTGCTTTCTTCCTCCTCC
TCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCGTCCTTTTTTTTTTGAGACAGGGTTTCTCTGTATAGCCCTGGCTGTCCTGGAACTCACT
CTGTAGACCAGGCTGGCCTCGAACTCAGAAATCTGCCTGCCTCTGCCTCCCAAGTGCTGGGATTAAAGGTGTGCACCATCACTGCCCGGCTCAA
TATGCTTTCTTAAAGGACCCACGACCGACTGCCTGCCCAGGGATGGCCCCACCTGCAATGGCCTGGGCCTTCCCCCGTCAATCAGCAAGAAAAT
GCTCTTCGGGGCTTGCCTACAGCGTGAAGAACGTAGGAAGGCATTTTCTTAATTGAGGTTTCCTCTTCATGGATGATTTAGCCTGTGTCACGTT
GACGTAAGACTATCCAGCCCACACCCTGACCCACTTTTCTTTAACTCCTTCCTCCCCTTGCCCATGATCTCTTATTTTGGAGACCTGCAGGTGC
TCAAGCTTGCTTTCCCTGACGCTGTGGCTGTTTCTCTGACCACTATGCCTAACTTTAAAGGTGTTAAAATTGCAGCGCTGGGTGTGGTGGTGCA
CGCCTTTAATCCCAGCACTTGGGAGGCAGAGGCAGGCAGATTTCTGAGTTCGAGGCCAGCCTGGCCTACAGAGTGAGTTCCAGGACAGCCAGGG
CTATACAGAGTAAACCCCTGTCTCAGAAAAAAAAAAAAAAAGATTGCAGCAAGTGCCTGGACAAGCAGAGTTTGGCCACCCAGCCGCAGAAAAG
AGCCAATGCAACCACATTGGCAAGAGAGACTAAGATCCAGTGGCCAGACCTCATTAAACTCATCCTTAGGGCCTTAACATGGGGGTAAGGTTTA
AACAGGAGACTGATAGCAAGGGTGAGGCAGTCCAGCCAAGGTGTGCCCCCCCCCCACCGCGGTCTCAGTTCTCAAGTCTACAGTGTCTCACAAG
TTATAAATCTTTCTCCAGGGGACATGTTCTTCCTCCTGTTTCCCCAGCCTTTGGCTCTTCCAGCAGGAAGTATCTGAGGAAATTCCAGTTTCTG
GGGATCCTTTATTTCAGTAATCTGCTAGCCCGAGAGAGGAACGCAGATAAATTTCTCCCAGGGAGGCAGGTTCCAAAGGACTGATTTGCCAGTC
CAGTCAAGTCTTCCCCTTGATCCTTAACTAAATTAAGTTGTCCTTGCGATCTTCTTGCTTTCCTTCTCAGTCTGGTCCACCCCCTATACACACC
TGCCCCAGTGATGAACTCTAAGGGTCCTTAGCCTGCTTCATCAGGCCTCATGGCCACAGCACCTCAGCTTCCAGAGGCCCTAGGTCCCTCTCCC
TCTCTTTCCATTCTGACAAGCCCTTTCCTGCAACACGTTTCATGTCAACTGGAGCACCCCAGGCAGCTTTGAGGCCTCAGGTGACTGGCTGACT
GGCACACAGTCCCATTAGGAAAGGCTGCCTGATTGCTGGAGGGCCTCTCGGCATACTCAGAACTCCGAGGACCACGGCTATAGCCCAGACCTCT
GGAGAAATTTAGAAGATGGAATGCTGGTCTGTGTACCGGGGCATAGCCAGTGGGGAATCCTTAGCCCAGCTGGCAGGAGTGATTGGTCTTACAG
GGCATGACCAGAATGACCAAAGTGCTATAGCTCTCCAAGGGGAAGCCAGAGTAAGACAGGCTGCCCCTGAGGTGGTGGCAGGTGGCAAGAAGCA
GAGGGCAGCTAGGAGCCCAAGTCGGGGCCACTGAGCAGGAAGTGGCTGTGGTCACGCGCATGCATACCGTACACCACTTGTTGGGGATCTGGGG
ATCTAGGTCCAGCAAAGAAAGCTTCAGGAGGAAAAACTCTTCCATGAAGTGTTACAGCTCAATAAAGCAGGCACCCTCAGTCAATCTTTGGTGA
AAATCACTCAGGCACTTTATTCCTTGTGGACTAGGACCTTATAAACATTTTGGGATGGGGTGAGTAAGTGCTTCCTATTGGCTTGGTTTGGGAT
TCTCTATCTGCATGGGGAAGGACTTCAGGTGTTGACTGTACATGCCTGATTTTCATGGTCCTCCTAGTGGGGTGTCTCAGTCACGTGCTCCAGG
ACAGGAATCTGGTTGGGAGCTAGTTTGAACTCCTGCCATTCTCAATGATGAATTTTATGGAAGTTCTGAACTTGCTACAACCTTACCAGCTCTT
CTATCTGGTGGCATGGCCCACTGCCCCCACAACTCCTCCTTTTCCTTTTTATAAAGGAGAGGTATCATTGGAGTGACTGTCTCCTGTGTTGGGG
ACAGTTTGGTATTGAACCAAAACCTGATTGGTAGTTATTTTTGCAATGCTACTAATCTGCTGCTTTAGAAATTGGATGAGACAGGGTGCCAAGA
GAAGCAAGGCTCCAAGCTCATACAGGGCCAAGGAGGAGCAGAAGCCAAGCTACCAAGGGGTTAGAGAGCCATGGGGCAGGGGTGTTGGGAGCAC
AGCATGCCCAGCGATCCCCCTGGAGCTCTTTGGGCATTTGCACATCTTGTTCTACCAGCCCAGATTCACTGACATAGAAGCAACATTCCTCTTC
TAGCAAAACACAAGTCCCTCCCTGTTCAGCAGGTAGTAAGCCCAAGGCCCTCCAGTTTTGGAGAACAACTCCTGCCAAGGAGGTTGTCTGGCAT
TGAAGGGACTCAAGCGTGTCTGCAGTGGAGGCCATTGCCTGGTCAAGTTTGGTCTGGAAGTCGATGGCCAGATGCTGTGTTTGGACCAGGGCTG
CTCTACCAGCTCCTGTCATGCCTAATGAGACAAGGAAACCCAGTGCAGCAAGCAGAGGGATGAAGATATCTCTCTCTCTCTCTCTCTCTCTC
TCTCTCTCTCTCTCTCTCTCTCCTCCCATCTGCAAGGCAAGTTCTTCAGGTTCATAGAGATAAATCTGGGAAACAATTATTATAGGA
GTTGCAGGAGCCTTGAAAAGGGGTGGGGCGGGGGGCAGTGTTAATGCAGGAGCCTGTAGTGCTTTGCACCAGAGAAGTGCAGGGGGTTGATGTA
TGTTGATTTGGTGATGGTGTTGTAACAGGCACATATAAGATGGGGTTTTTGAGGAGGGTCCTACAAGGCAAAAGGGGGAAGAAATGCCCCACCT
TTAGGTTGAAGAGAGGAATATCCTGTGCTTTCCTTGTGGGTAAGGGTCTATGGGTTTTATGGGAACAGCTGCTAATAGCAGTCAGGAGAGAGAA
GCACAGAAAAAAGAGGAGTTTTTGGGAGGAGTTGGGGTGGGTCATTAAAGGAAGGAGGTCAGCTGTATATTGGATTTACTGTAGCCAGGAATGG
GTAGCTTGGAGTTCCTTCTGAGACTGATTTTCCCATTGAAGAATATTAACATGCATAAAGATTGATTTGGAGGTGGGAGGGGGGAGTTCACGAG
AGACATGTAAGTTGGCTATGGGGTATTTGGCATAGCCATTATGGTAGAGTTTACCCATGACTCCTGTTCGACAACATTCATCCCACAGATGGCT
GATGGAAAGCTGAAAATGAGTTTTAGGTTGGTGAGCATGGTGCCACTGTGGCTGGTTGGTTTCCACTCTGCAGCTCCAATACCTCCTGGAGACA
TTCACCTGTGTTTCAGTAAGGAAAGCAGAGGAAAGGGCTGTGTATAGTGGAGATGCCATCTGGGTGTAGGGAGATCTCAGTCCTGGTCCAACAT
GCTTCAAGTGGGCAATTCTGGGACCCTATGATTTTTGAGTGTGTATCTGTTGTAGGTCTCCCTAGAGAAGAATCTTTGATGGTAAGTGTTGGGA
AGGCTAGAGAGAGGCTGGACATTAGCGGAGTTAGTATGAAGAATGACAAAGGAGAGGTGTCCCCTTCCTCCAGGCTTGAGTAGGCTAAATAGAC
CTTAAGTGCTTGCCACAGTTGGACCTTAAAGACCCAGGTGGAATCTTCCATCTAGCCCATTTGCAATTTCTTACAGGAACAGACTGCCCGCTGA
GCTTACTTTGCAACTTAATCTAGCTGAAACAAAGGATGGGGTCTGTGGATTTTCCCTATATAAACACAGAGCTGAATATTAAATTTTGAGCCTT
GATCAGAAACTTTGTCTTGGCTTCATCCTTCTCTTGCACCCTATCCTTTATCATTTCTAGCCTCCCTTTCAAGTAGACCCAGTTCTCCATGGCT
GAAGGACAGCTACAGAGAAGGGAGGTTGTGTAAGGCACATGCCTGGGCAGCAGTCACCAGGTCATGAATGTCTTTCCAGGAGATCTTGTTCTTT
TGGGCATGGCATCTCCTCTGCCTCCTCCTCCACCTCCTCTGTCCTTGATCTGCCAGTAAGAGGCAGGCTATCTTCTTGGTTGGTGTTTGACATT
TCTGGCAGGAACCCAGATAGGAATAGGCTGATACTGTGGGAAAACACAAACGAAATCCTTCTCAGTTGTAAGGAGTCTGGTCCTTTCCAAATCC
CATCCAAAGGATCATGACATCGTACTAAGATGGGGGTGGGGGTGGGGGTAGGGGTGGTTAAATTTTGGTGTGTGCCAATGGAGGGAAATAGGAG
AATGCTTAGAGTTTTTGTAGATGTTAAATATGCTTGGTGTAGTCATAACTATTGTTAATTGTACATGGGGGTAGGTGGTTGGCTTTTGTTTTAG
AAGTTGAGCTTTTAGGATTTGATGTATTCTTTCTACTATCCCTTGGCCCTGAGGGTTGTGGGGAATCCCCGTATGGTGGGCAGTTTCCCATTGT
GTGCAGAAAGTTTTGAACTGAGAACCAGTGAAGACAGGGCCATTATTAGTTTCTTTTATCTGTTGAGGAATGCCCTCTGAAGCTAAGTTCACCA

AGAGCTGACAAAAAAAGGCTCTGTCAAAATCAAAGACACCCCAAATTTTCCTCTATCACCCCATCCTATCAGTTCTGATCAAGAAGTAGGGTCG
CCCTGGAGGAGAGCTCCAAGATGAAGTTTCTGACAGCTTTATTTTACCAAAGTCCAGTCTCCCAACCCAACCTCCATCCCAGAGAACAGGGTGT
TAAAGAAGGGACTTCCTTGACATTCCTTGGCACTTCTGAAGGACTGCCCCTCTTGTGAACCCTGTCCTCTAACCCCAAGTCTCTGAAGACTGTT
GATGAAAAGGGAACGCTGTTGTGCGGATAGATGTGGTGTAGGAAAACAGCTATGGAGACTCCAACTCCTGGGCAGGTTTGCCCGGATGTCTAAG
TAGGGAGGACAGAGGCTCCAGTGGGGGCCAGGAGTTCCAGCCAGAACTCAGCACCTGACTGTGAGGTGGGGCCTGACCCCTCTATGTGGACCAG
AAGTTCTCCCTGGGGTACCTTCCAACCTCCCAGCCTCTGGCCAGCTGTGCTATTTCCAGCCCCCAGCCTCCACCCTCAGAGGGGAGTGGTCTGG
GAATGTCACGGAGATGACATATACACTTCATCCCAGGCCTGGACAGAGGCCAGAGAGCCCTAAGAGGCTCTATTAGAGGCCCCTGCTCCCTTCAC
TTCCGAAGGTCCCCATAGTCCTCTCCCTCCTCTAAACTTCAGGAAATCGAAACTCAAATTCTCCGCCTCTCCACCTCTTCCCAAAAGTCAGGAA
ACTGAAAGCTAGCTCCCGACCACCTCTGCCAATTTACTTTCTCTTCTCTCTCCCAGGTATCTTACAGCCTGTCTGAAGCCTGTGGTGCCCTGCC
CATGGTGAGTCCTAAGTAGGACCCAGAATCTAAGCAGGAAAGTGGAATGGGAGTTCTGCCCAGTGAAAGCTCCCTTTGAAGTAGCTCTGGCTCC
CCAAACACACAAGTCAGACTAAATCTTCCCTGGAGCGCTCAATGCCCGTATTACCCCCAAGCGCCCCTGGAAACTCCTATGGGTTGGACGGGAA
GGGTCGGGCATCCTCCTCTCGCCCCCAGGGAGGGACAGTGTTGTTAGTGAGTGTAATAGCTCTCAGCGTGTGCTTGCTATGGGGAGATTCCATT
GACTTGAAAGTTGAAATGCGCTCTTACTGCTTTGACAGCTTCTGCCACTAGGGGCGCGTGTGGCCAAGCCTGGAGCCCGGGTTTGAAAGCACCA
CCCTCCTGGGATAGGGTTAGTCAGCTTCTTCCGGCAAGCTGTGCCTGCCGGTGAATTAAAGGGGCAAGGGTGGCCACGGTGGCACATCCAGCTC
CCGTGCTAACCATCAGCTTAAAGTCATTAGATGAAAATGAGAACACAGCCACATGCCACAATTGAGTGTCCCCTGCCCTAGAGCAAACTCCCTT
CAGCCCTCACCCATAGGGCCTTTCCATCTGCTGGGCAGATGACTAAGGATCTTGGTCTAATAATTCCATCTTCCATTGATGAGTCTGCGGTTCC
ATCTTATGGCTTGAGTGTTGGAACATCTCTCGTGGAGGAGAAATGCACGGGCGCTAGGCTATGTTCCTTCCTCACAGCTGCCTTCCAGGGTGTC
GGGGTACCAGGCTCCTGGGACCCCAACACATCACTCAGGGGAGGTGAAATGCAGTCTAAAATAGGGGTCCCAACCCATGTTTCTCCAGGTGAGA
AATGGCAGGGGCTAGGACAGTGGCTGTGGTTCTCAAACTCCTGGGCACCCAGATGCCGCCGAGAACGGCATTGAGAATGGGGTTCCCATACTTC
TGTGTATCCCAAGGCCGCTGAGGACTGCAAGCAGTTGGGAGAACAAGGGCCGAGGGCCTGTGATGAGGGCGTGTGGGGGCTCCAACTTAACTCA
GGTGAGTGCCAGGAGTGTGCAGGGGCCTTCTACCCGAGACTTAGGTGCAGCTCTGTATGATGAAGGCTTCCCCCCATAGTGGTCCTTGATGAAG
GAGACAGCCCTTGCTTGTCCAAACTGTTTATTCATGGCACATGAAGACTCATGTGATTTACTCAGGGTGAACCAGAGATTAAATACCTTTTGCA
GAAAGGGACGCTTAGGAAGAATGCTCATTGGCTAAACAC

MOUSE SEQUENCE - mRNA
CTTCACCCGGAGTAGGCTTCTTTGGCTTGCGAACCTTCAGCAGATGTCTGCCACTTCCAACATGAGAGTCTTCCTGCCTGTGCTGTTGGCAGCC
CTTCTGGGCATGGAGCAAGTTCATTCCCTGATGTGCTTCTCATGTACCGATCAGAAGAACAATATAAACTGCCTGTGGCCAGTTTCATGCCAGG
AGAAAGACCATTACTGTATCACGTTATCTGCCGCTGCGGGCTTTGGGAATGTCAACCTTGGCTACACCCTGAACAAGGGCTGCTCCCCGATCTG
CCCCAGTGAAAATGTCAATCTCAATCTCGGTGTGGCGTCCGTGAACAGCTACTGCTGCCAAAGCTCCTTCTGCAACTTCAGCGCAGCTGGCCTC
GGACTTCGTGCCAGTATCCCACTACTGGGCCTTGGACTCCTGCTTAGCTTGTTGGCTCTGCTGCAGCTGAGCCCCTGACCATCCCCCATGTGTT
CTCCATATCCCCCCAGCTCAGGAAAAGCCCAGCTCCTTTTAGGTCCCAGGGGACCCTAGGAACCTTCAGCTCCTCCTGGGTGTGTCTAGTTCCC
CCTCCACACTCTCTCAACGTCAGGGCTAAGTACCAAACTCACCCATACCTGCTCTGTTGAAGTGGTACTGGCTACCCTTGCTTCCAGAGCCAAT
CCTATAACCTCCCTTGGGGAACCAGCGAAGGGGTGAAGATCTCCTTGGAGTCTCAAGAGTACCAGAGTCAGCGCCGAATCTTGTGGACACACTG
ACAAGGATGTCTAATCCAAATAGATGTATATCTGTGTGCTCAGTGTATCCCTGTGTGAATGAAGCCACTTGGATTCTGGGGTGGGCAAAGAAGA
CCTGAAAAGATTCTACAGCAGAAGGCCTGTGTCGCCACCAAAACCCCTCCCCCTGGTATCATTGTACCCACCTTGTACTCTGTTCAGGAGGCTG
CCCATGGAGGACTGCCACCCCTCCAGATGAAGGCTCCCACTACCCGATGCAGTTGAGTCCCATCCTGCCCTCTCTGCCCACACTGGCTTCCTGC
TGCTATTCTAGTGCCTCAAATAAACCGTTCACACCCTT

MOUSE SEQUENCE - CODING
ATGTCTGCCACTTCCAACATGAGAGTCTTCCTGCCTGTGCTGTTGGCAGCCCTTCTGGGCATGGAGCAAGTTCATTCCCTGATGTGCTTCTCAT
GTACCGATCAGAAGAACAATATAAACTGCCTGTGGCCAGTTTCATGCCAGGAGAAAGACCATTACTGTATCACGTTATCTGCCGCTGCGGGCTT
TGGGAATGTCAACCTTGGCTACACCCTGAACAAGGGCTGCTCCCCGATCTGCCCCAGTGAAAATGTCAATCTCAATCTCGGTGTGGCGTCCGTG
AACAGCTACTGCTGCCAAAGCTCCTTCTGCAACTTCAGCGCAGCTGGCCTCGGACTTCGTGCCAGTATCCCACTACTGGGCCTTGGACTCCTGC
TTAGCTTGTTGGCTCTGCTGCAGCTGAGCCCCTGA

HUMAN SEQUENCE - GENOMIC
NNNN

GGGAGGCCTGGAGCCAACTTCGGTTTCAGGGTTGAGCCAGGGTCAAGGTGGCAGTGGAAGTTACAGGAAGAGCCTAAGGCCCCAGTGGTGGGAG
CAGATGCTGAAATCCCCGGGAGCACTTTGGACTGTGCCCTGGGAGAGGCGGGAACCAAGCCTGAGAGCAGAGTACTGGCAGCTGCACGTTAGAA
TGTGAAGCCTGGACACAGGGAGGTCAGGCAGCGAGCTCACCTCACGGCAGCCCAGCCAGAGAGTCAGCCTGCTCTCCCCGCACTGAGCCAAGGC
TGGGAGACAGCCTACCTCCCACCAGAGCCAGCAGGCAGGTCCCAGCCCAGCCTGCCCCGTCCCGCCCCAGCCTGCCCTGTCCTGCCATCTGCAC
TCCCCGTCAGGCCTCCTGGCCAGCCCCACAGTCCCTGCCTTCCAAGAGACACAGGCAGCGGCAGCAGGGGCTGGATGGGGGAGGCCAAGAATCA
GAGGCGCTCCCCCACAGGACCCCTGAATCGTGGCCAGAGAAAGGTCAGGGCAGGATGAGGCCTGTGGCCACGGGCAGATCTCAGGTGGCTGACC
CGTCCTAGGAGCACACAGGGCAGCTGTGGCTCCTTCCCTCTTGAACCCAGAAAACAGGGCAGAGCTCATCGGTGGCCTCATCTGCCAGCCCCAG
CAGTAAGGCCACCGGCTCATTCTTCATGGGGCAGCAGCATCTGGCTTTCTGGCTCCAGACACCGCCTGCTGGGCCAGGCCTTCAACCAGGTCCC
TCCTGACAGCAGGCACGCCTGAGTCCAGACCCGAGACAGAGCCGGGAGGCAGCCTGCAGCAAACGTGCCCCAAACTCCACAGGCGCCTAACCCA
GTCCTGCCAAGGGAAAGTGCTCAAGGCTCTGCCCTCTCGCTGGAGGCCCACTGCTCACTCTCACCCGTGGGACTTCTCCCCACAGGCCCCAGCA
GCCTCCTCCCGTCATCTGAGACGCTACCAGGACAAAAGTCTTCCACAACTAGGGCCAAAGGCCTCTTAGTCATGGAAGTCTCCCTGAACCTATT
CTGGTTCGGAGGTTGCCTGGTTTAAAATTTTAAAAATTAAAAAAACAAAAGCCTCCGCATGACAGCAGGCCCGTCCCAGTCTTATGATCTCTCT
GCTCTGGTGTGGGAGGAGGAGGGAGTGCCGTGTGAGGAGGAGGGAGTGCCGTGTGAGGAGGAGGAGGGAGTCCTGTGTGAGGAGGAGGGAGTGC
CGTGTGAGGAGGAGGGAGTCCCGTGTGAGGAGGAGGGAGTCCCGTGTGAGGAGGAGGGAGTGCTGTGTGAGGAGGAGGAGGGAGTCCTGTGTGA
GGAGGAGGGAGTCCCATGTGAGGAGGAGGGAGTCCTGTGTGAGGAGGAAGGAGTCCCGTGTGAGGAGGAGGAGGGAGTCCTGTGTGAGGAGGAG
GGAGTGCTGTGTGAGGAGGAGGGAGTCCTGTGTGAGGAGGAAGGAGTCCCATGTGAGGAGGAGGAGGGAGTCCTGTGTGAGGAGGAGGGAGTGC
CGTGTGAGGAGGAGGAGGGAGTCCTGTGTGAGGGGGAGGGAGTCCTGTGTGAGGGGGGAGGGAGTCCTGTGTGAGGAGGAGGAGGGAGTGCTGT
GTGAGAAGGAGTGCTGCTACGTAAGAAGGAGGTAGATGTGTGGGGGGAGAGTTGGCATTCGGCCCGGTCAGGACTCCATGGCCCTTGTTACAGT
TGTGGGTAGAAATGGAATCTCTGTGACATCTCCTGCTCCCCTTTCGCCTGCCCCAAGGCAGGTCTCCAGTACTCCCTCTCCTTTCTGATCATGG
GCCCAAAGAGGCTCATTCAGAGAGGATCAGTCCCATGCCCTGGGGGCAGGAATGCTGAGCACATAGAGGTTTACCTGGAGGGGCCACGTGGGCG
GCATGGAAGCTCCCCACCCCTTCCGGGAGACGGCGCCCTGTGCCTCTCGCGTGTATCCATTTATAATTAACTGCAAATGTGTTTCCCTGAGTTC
CCTGAGCCACTCTTGCAAATCAATTGAACGCAAAACCGGGAGGGGCTGCAGTATTGCTGGGAAAGAGGGTCCTGATCCAGACCCCAAGAGCAGG
TTCTTGGATGTTGTGCAGGAAGTAATTTGGGGTGAGCCACAGAGCACAGTGAGAGAAGCAGGTTTATTTGAAATGGCTCCGTTCCAGAGTGGGG
CGTGCTCAGAAAGCAGGAGGAGGAGGGCCTGTCCTCTGTTAGTGCCTCTGCTTACAAGAAACTGTAAGGAGCTACAATTACACCTGGAATGGGC
AGATGCACCCACTAAGGATAGGGGCTGTGGGTGCCATCAGTGCCCGTTCATCCTCCAACCTCAGGCTGCTCATTGAAATTATCTCTGAGTAAAG
TGGCCTGCACTCTTGGGTTATCTGGACAGTCTGCGGGCTTGCTGGGAGATGCCCCATATGGCCACAAATATTCTGTAATTATAATTGGTGTCCA
GCTTGAGACATGGCTATTTTTAGACCATAAGCATTAACCTTATAGGTGCCTTGTGAGTGCCTCCTACTCACTTCAAGATGGAGTCACTCTGGTC
ATGTTTCATTAAACCAGAGGCCTGGTGAGCAAGCGTTCCTCTAACAGTGGGAACCTCAACGTCGGGCCAGTCGGTAAGAAGTTCCAGAGGCTGG
CCCTCGCAGCTCATGTGTGTGCATATGTGTGTGTGTGTGTGTGTGTGTGTAGGTGTCTGGATCTGACGCTATCTGCAGGTACCGGAATGG
TGTTGGAGGACACTCGGCTGGTGTCCGCTGCAGAACTGATGGCTTGCTCGGTGGCGGGGAGANNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

GCTGCAGTGCAGTGGCATGATCATAGTTCACTTCAGTCTTGAACTCCCTGGCTCAAGAGATCCTCCCACCTCAGCCTCCCAAGTAGCTGACCAC
AGGCACGTACCACGCCCGGCTAATTTTTGTATTTTTTGTAGAAACAGGAGGTCTCACTGTGTTGCCCAGGGTGGTCTCAAACCCCTGGCCTCAT
ATGATCCTCCTGCCTTGGCCTCACATAGCATGGAGATTACAGGCGTGAGCCCCTGTACCCAGCCCCAGACTAGCTAATATTATGACTGATCACC
ATTCCCCATTCCCCATTCCCCCACCCCAGGACCACTGGCAGAGGCCACTCACTCTGCCTTCTTTTCTGTGGTTCTGAGAAGGCTGCTGAGTTTC
CTCCTCTTGCCTGTGCAGCCCCCTCCTGCCAGGTTTCAGGAGGGAGATAGCCTAGAGCATGTCTGCACTGAGTGAGGAGTGGGTCAGGAGAGAA
GCAGGGAAGTCCTTGTGTGCTGGCAGGTCCCTTCCCCTCTGCTGTCTGTGTCCTCATCTGCAAAGTGGGGGTGCATGGTCTTGGGGAGGAGTGA
GGCACCACCCGGCCCCCTAACCAGTGTGTCTCTCCAGAGCAGGACAGGCTGCTTTGGTTTGTGACCTCCAGGCAGGACGGCCATCCTCTCCAGA
ATGAAGATCTTCTTGCCAGTGCTGCTGGCTGCCCTTCTGGGTGTGGAGCGAGGTGAGGTGCCCTTGGGGACCCCAGACCTTTGTCCAGCTGTGC
CCTGCTCCACTCCCTCTCCACCCCTCTCCCCTGAGCAGACGCTCCAGGGGTCCTTCCAGGCCGCTCCCAGCAGAGGGCTCACCCGGCCTGGCCA
CACTGTCTCACTGTGTGTTTGAGTGTCGCTTGACCTGCTCGACGGCCAGGGTGGGGTGTCACTGTCTTTGCTCTGCCTTCAGCCCAGGGCCTGG
TATACAGTAATTTCTCAGTAAATGTCCACTGGGGTCAGGCCTGGGAGGGACACTGGAGGCTTCCCTGAGACAGGTGTGTCCTCCTTCCGCAGCC
AGCTCGCTGATGTGCTTCTCCTGCTTGAACCAGAAGAGCAATCTGTACTGCCTGAAGCCGACCATCTGCTCCGACCAGGACAACTACTGCGTGA
CTGTGTCTGCTAGTGCCGGCATTGGTGAGTGCCAGGCCTCAGACCGTGCCTTCCTCCCCTGGCCATCTCCCTAGCCCGGGCCGGGGCTCAGCAG
AGGCCATTGCTGTCTGTCTGCAGCCGTCTGTCTCTCCCCTGACAGCCTCATTTCCCATGCAGGGAATCTCGTGACATTTGGCCACAGCCTGAGC
AAGACCTGTTCCCCGGCCTGCCCCATCCCAGAAGGCGTCAATGTTGGTGTGGCTTCCATGGGCATCAGCTGCTGCCAGAGCTTTCTGTGCAATT
TCAGTGCGGCCGATGGCGGGCTGCGGGCAAGCGTCACCCTGCTGGGTGCCGGGCTGCTGCTGAGCCTGCTGCCGGCCCTGCTGCGGTTTGGCCC
CTGACCGCCCAGACCCTGTCCCCCGATCCCCCAGCTCAGGAAGGAAAGCCCAGCCCTTTCTGGATCCCACAGTGTATGGGAGCCCCTGACTCCT
CACGTGCCTGATCTGTGCCCTTGGTCCCAGGTCAGGCCCACCCCCTGCACCTCCACCTGCCCCAGCCCCTGCCTCTGCCCCAAGTGGGGCCAGC
TGCCCTCACTTCTGGGGTGGATGATGTGACCTTCCTTGGGGGACTGCGGAAGGGACGAGGGTTCCCTGGAGTCTTACGGTCCAACATCAGGACC
AAGTCCCATGGACATGCTGACAGGGTCCCCAGGGAGACCGTGTCAGTAGGGATGTGTGCCTGGCTGTGTACGTGGGTGTGCAGTGCACGTGAGA
GCACGTGGCGGCTTCTGGGGGCCATGTTTGGGGAGGGAGGTGTGCCAGCAGCCTGGAGAGCCTCAGTCCCTGTAGCCCCCTGCCCTGGCACAGC
TGCATGCACTTCAAGGGCAGCCTTTGGGGGTTGGGGTTTCTGCCACTTCCGGGTCTAGGCCCTGCCCCAAATCCAGCCAGTCCTGCCCCAGCCC
ACCCCCACATTGGAGCCCTCCTGCTGCTTTGGTGCCTCAAATAAATACAGATGTCCCCCAGCTTCCTGCTCTGAGTGTGGCTGCCCCTTGCGGG
GAGAGGCAGAGCACCCCAGGTTTGGAGGGTCCTGGGGTCTTCTGTGGTATGGCCCAGGGGGGTGGTGGGGGAGGAGGAGTCATCCCCCTGAGCC
ACAGCCAGCTGCTTGCCTGACCTCAGAGGGAGCCCCTCCCCAGTGCTCTGCCCTTTCTTCTGCCCCAGGTTCAGCAGGTCAAGTGAGTTCCTCC
TCCACACAGCGGAAGGAGGATGTTGGGGGGCATGGAGGAAAGAAAGCGGGTGCAAGAAGGAGCACGCTCAGGCTGGGGCAGCACCCAGGGCCGT
AGGACTTGGGAATGGAGGGTGTCTGTCTGGACCCGCTGGTGCAGAGGGCACAAAAGCTGGGCTGGGGCAGGACAGACGGGCCGGAGTGTAGTGA
GTGGCCTGTGGGAGGGGCAGGGGGCTCCCACGCAGAAGCTCTGGGCAGCAGCCCTGACCCATCCGTGCCTGGACTGCAGCGCTGCCCGCTTCCC
CCTGGCAAACAGGTGGCAGCCTCCTGACAGAGGAAGCCGGCCCAGGCCGCCGTGTCTGCAGTTGGGTGCTGTGCGCTGCCCAGAGGGCTCTTTG
GGCTGGAGAGAGAAAACAAGAACAGACACCCAGTGGAGGTGTGTTTGTTCATTTCTCCGGGACAGTGGGAGGGAGCCGGCCAGGGTCTCAGCCA
CTTAGGGCCCGACCCTGAATTTTCCCGGCTGGCCAGAAACTGTGGTGTGTGTGTCAGGATCCCAGGGGCACCGTCCAGCAGGAGGGGCCGGT
GGTCAACGTGGAGGCCCGAGATTCCCACCCCTGGCAGCTGATGTGAATAGCCGGGTCCTCCCAGGTCCCTGAGGTCAAGGCAGGTCAAAGACCT
GTGTCCTCCTCCTGGGTCCCTGAGCTAGTGATTCCTGTCTGAAACACATGAATCATTACTGCCACCCATGAGGGGCCCATTGTAACCGAGCGAG
AGGGCCTGGAAGAGGTCAGCGGGAGGAGGGGCCTGATCGGTGGATCAGCTATCCCTGTGCAAGGACCCGGAGCCCATCAGAGCAGCCTGCAGAG
ACTGAGCTTGAGATTCCGTCGGGAGTTTGGATTCGCTGAGTGGGTCGCTCTAGCATTGAGAAATGCAAGCAGAGAACAGAGGGTGGAAACCAGA
TGGTCCAGGAGCCTGGGCACTGTAGCCAGGAGGACAGAGATCCCGGTGTGCAGTGCGTTCACTGCATTGTTCACTCGGAATCGCAGGTGGCTTT
GCTGGAGGGACAGACAGTTGATCATAGTGGAGCTGGTGAGAGGAAGCTGCACCCAAAAGCCATGGCCGGGAACCTGGATCTGACTGCAGGGAAA
CAGAAGCGTGGTGGGCGCTGGGCGATGATGGAATTTCTAACAAATGCTTTGTTTCTGCTAAAGCTAACTTGCGCTTCCATCTCTGGCATCTCCT
CCACTTCCCAGGTGAGCTGACTGGTTACTGAGCCTCACAACCACACTGAGACGGGGGCGCGGTCATCCCCTCGTTTCCCCAGGGGAGACAGGCT
CAGAGTGGAAGCCGCTTGTCCTCCTAGGATCTGGGACTCGGGGCCCAGCTCTCCCTCTGCTCTGGGTTTAGGGCTGAGGTCAGAGGCAGCCCTG
ACCTCCTGCTGGTGGTGGGTAGGGTAGTCCCGCCGGGTTCCTGCTGCCCCGCCCTCGGGAGGCTGGAGGCCCCCCAAGGACAGGTGGTTTCCAG
GAGCAGCGGGAGGGAGCCCGGGTTGTGTCCTGGGCCTGGAGCAGAGAGGGGAGGAGCCCAGCGCCTGAGTTTCAATTTCCTGAAGCCTGGGGGA
GGGAGAGGAAGAGAGCCTCGTTTCGTTTCGGGGCTCTGGACCTGAGCCTCCCGCCCAGGGCCCACCGCACCCCGCTAGGACCTGGGATTTCCCA
GTCTCCACACCGGCCCGGAACTGGGCCCCCTCCTCTCCGCAGCCCATCCAGCCCCACTTCCCCGCTTCCCCGCTTCCCAGCATCTGCCCGCGGA
TGAGCCTCTGGAGGATGGGCGGCCCGTCCCGGCGCTGCCCCTCACCCACCCCCCACCGCTCAACCCCTGTGGGGACTTCCTGCAGTGAGGCCCA
GGCAGGACGCTGCGCTGCCTCCCCCATCCACAGCCTCTGCCCCCTTGACACCCCCGCCCCTCTGCGGTGCCTTGCAGGAGTCGCCAGCCTGTGGG
CCCGGGACCATTTCACACGCTGTCCACAGTCGTGGAAACCCGGCAGCCACAGCAGGCCTGGGCCCACGGTGCCTCCACCCCTCCGTCAGCCCCC
AGCAAGTCTTCCTGGGGGTCCCCAGCCCTGAGTGCGAGACCCTCCAGGCTGCTTCTGGACCTCGGGGCTGGGGCTGAGCCCGATCCTGGCTGGA
AATGAGTGCAGGGCCGGGCTGCCTGGGGGAAGGCCCTCCAGTCTCTGAGCCCCACCCTGGGGAATTTGCTGGGACACCTTGAAGGCCGCAGGCC
AGACCCCAGGGGTTAATAAGGGAACAAAGTCCTTGGGCGAACACCTGCATTTACTATCTGAGCCAGCAGGCAGCTAGGATGCTGGGTGAGGGGG
TCTCTGGGCTGCTGGGCGGCCAGGCGGGGGCATCGGGGCAGGAGCTGAGGGCTGCACTGGGCAACCACCCTGAGCTCCTGTTTACCCACCAGGG
GCAGTGCCAGGGCGGGCTGGGCTCACAGCAGAGCCCAGAGGAAGGGGCTCAGGCTGAGCAGGAGCTCCCTGACAGCCTGGCACCAGAGGCCACG
CCGCACTGTGGCCGCCTTGTTACGGAGGCTATTTTCACAGCAGGTCATGTCCAGCTTCTCAATCTTCGAGTCAATCAGTCTATCCTCAATTTCT
GTGGGGTAAGACCCTCCAGGGACCACAGGATGGGTGAGGTTCATAATCTGGGCACAGAGTGGGGCCACAGCCCTTGCTAGTGTAGCTGAGCTTC
TGCCCTGTGGGCAAGAGAGGAGGGTGTCTGGCACAGGAGGCCCCACCCGACCCCCTCGGACCCGCCCCAGGACCGCCCCCTTCAGGGAACCTTG
AAGCCAGTGGGGACGCGGAGGCGAGCAGAAGAGAACGGGCGGCGGCCCCAGGCCCCACACCAAGTCTGCAGTCCATTAGATGGAGGTCCCTGAG
CTCTGTCCCCAGATCTAAGCTTCCACCAGGCCAGGGGGCTCAAGGCAGAGCCCCTGGGATGCTGCCAGAGAGTGCCCTGCCCACCCCTCACCTG
CCTACAGACGCTGGGTCCCACCCAGGACTCACCATCGATAGTGCCAGTGACCACAGAGGAGGGGCAGCTTTGAGCCTGCATGGGATAGGAGACG
GGGTGACACAGGCTGGGGTCCAGGACACCGTAGCACTGGAAGCACTCAAGGCCCTGGCCTGGGATGGGGCGGGGAGGGTGCAGGTCAGGGTCGC
AGGCTGAAGGGTGGGTTCCAGTCCCTCTCACCAGCACCGGCAGCAGGCCTGGGCAGCACACAGGTAGGCTCAGGTGCCCTTGGCTACTCAGAAT
TGTGGGCAGGGTCCTGCTGGCATCTGGAGCCCCCAGCATCAAGAGGGTCTTACTCCCACCTTCAGGCCTCCTTCCCATCCCCCACCCTCAGCCA
GCAGCAGCATGGGGCTAGTGACCTTCATGGTCTTGGGTATGGGTGCATTGAGGGCACATGTGGCACAGAGGCTCTGAGCCTGGGAAGAGCTAGG
GGAGGCCTTGCACCCCCGAGCCTGGGAACCTCTGCCCCACTTCTGGTTTGTGATGAGGAACCCGGATTGTTTGTGTAAAGTGCACACAGCTGAT
GGCCTCATCCCATCATCTCACAGAATGGGAATTGAGGGGTAGAAACCCTTCCTTCCTGACCTGGCTGCTCTGGAAGGCAGACATGACCTTGAGC
AAGACCCCTCTCACCCCACCCCTTCTCTGCCTGGGGCCTCCCAGAGCTCAGGGTGTGAGCAGAACAGATCCGGAGGGAGGAGGGGCTGCGGTGA
GGAGAGGAGGGGCTGCGGTGAGGAGAGGGAGAGGTTGTCCCCTGGGGTGGGAGGACGCCTTAGGAGAAGTTCTGACTCAATAGAGAGGAGG
GTCCTGGACTAGGGCCTTGAGTTTCAGTTTCAGTTTCCTGGTGCATCACAGTGTTGGTGTCTGAAGCAGGAGAGAAAAGCAGCCGTGAGACCTC
AGGTCACACCCAGGACCAGGCCCTTCCCGCTCAGGATGAGGGTCTCTGGCTGAGCCCACCACTGGCAGGCCCCCGTGCAGACAGAGCCTGGGAG
GGGCCAGCAGGGCAACAAGCTCTGACACTGAGACCCCAAGCCAGGCACCCCTTGTTTTCTGTGCAGGGAGCAGAGGCCCCTGTAACGGGGTGGG
ACGACATGGGGGCTCCCTTGGGGCAGGGGAGGAGGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCCCACACCCGAA

TTTGTTCTTCACGGAGAATCAGAAGACACAGGAAATGGGCCAGGGGTGACTGACTGCAGACTCCACCCCCCCCTCCCCAACCAGGTGCTGGGCAG
AAGGAAGAGAGGGCTGCCTGGGCTGTGGGGACAGAGCCCTTGATGAAGACAGATAAAGGCAGCAGACCTGCATAAGGATGGGTCGCCTCTCCGG
TGGGTGGTCCCTTCCGAAAAGCAGAATCCACTCTGTGCCCTCAGGGGTCTCTGCTTGGAGAGTCCATGGCATCTGAGAGGATGGGCCAGGTGAG
GTGGGGGTGGCTCCTGAGAGCAGGGAGGACAAGGGCGGAGCTGGAGGCGTCAGGCCCAGAAGACCCCCCCAGTGACTTGGGGCAGCTGTGGGCA
AGGCTTGGACCCAAGAGGCCTGACCACCCCGCCTGGCAGCACACCAGAGCACAGGCCAGACCTGAAGGGGCAGCGCCAGGGGGGCCCATGGTCC
ACGGGTCACTCTGCTGGCCCTGCGGCCACACTGCTCAGGTCCCAGGGCCTGATGATGGCTGAGCCAGACATCATAACACCAAGCAATGGAGAAG
TTAGAATATTGCTAGGGATACTGACTTGTATTTTTGAATCTTAAAATATATGTTTTAATCTGACATCTATAAGCAGTGCATGTTACATGCCAGT
CAGAGCATGAGCATCCCCAAGAGGTGTGCACTCTGTGTATCTATGGATAATGAAAGCACGGCTTTCACACAGCAAGTTATCCTCACTTCCTGTG
ATCAACTCTGATATCTTCTACTTTATTTGAAAGAGTATTGATTGTGTCCCACTCGACTGATTTTACACCCTCTATGTACATGGTCCCCAGTTTA
TGGGCAGGGCGGTTATTTTGTGTTTTATTTTGTTTTTGAGACGGAGTCTTGCTCTGTCGCCCAGTCTGGAGTGCAGTGGCGTGATCTCGGCTCA
CTGCAACCTCCGCCTCCCGGGTTCCAGCGATTCTCCCGAGTAGCTGGGATTACAGGCGCCCGCCACCATGCCCGGCTAATTTTTTTTATTTTTAG
TAGAGATGGGGTTTCACCATGTTAGGCTGGTCTCGAACTCCTGACTTCAAGTGATTTGCCTGCCTCAGCTTCCCAAAGTGCTGGGATTACAGGC
ATGAGCCACCACACCTGGCCTGTTATGTTTTTTGAGATAGGGTCTCCCTCTGTCACCCAGGCTAGAGTGCAGTGGTACAATCACAGCACATTGC
AGCCTCAACCTCCCTCCCAACCTCAACCTGCAGGGGAGGGGAGGGAGAGGAAGGGAGGCTCATCTCAGGGCTCTGAACCTGAGCCTCCCACCAG
GGATTTCCCAGTCTCCACACTGGCCTGGAACTGGGCGCCCTCCTCTCTGCAGCCCCATCCAGCCCCCACTTCCCAGCATCTGCCCACGGATGAG
CCTCCGGAGGATGGGCAGCAAGTCCTGGCACTGCCCCTCACCGCCCCCCACCACTCAGCCCCTGTGGGGACCTCAGGAGGTAAGGCCCAGGCA
GGACCCTGTGCCACCTCCCCCATCCACAGCCTCTGCCCCCTTGACGCCCTTGTTACAGAGGCTCTTTTCACAGCAGGTCATGTCCAGCTTCTCA
GTCTTCAATCAATCAGTCCATTCTCAGTTTCTATGGGGTAAGACCCTCCAGGGACCACAGGATGGGTGAGGTTCATAATCTGGACACACAGGGA
GGGCCACAGCCCTTGCTAGTGTAGCTGAACTTCTGCCCTGTGGGTGAAAGAGGAGGGTGTCTGGCACAGGAAGCCCCACCCGACCCCCTTGGTC
CCACCCCAGGACCGCCCCCTTCAGGGAACCTTGAAGCCAGTGGGGACACAGAGACAATCAGGAGACAAGCAGAAAAGAACAGGCCGCGCCGAGT
CTGCAGTCCTTCCAGGCTCAAGCGATCCTCCTGCCTCATCTTCCAAGTAGCTGGGACCACAGGCACCTGCCACTACCCCCAGCTATTTAAAAAA
AAAAAATTTATAGAGATGGGATCTCACTATGTTGCCCAGGCTGATCTTGAACTCTTGGGCTCAAGTGATCCCCTTGCCTCAGCCTCCCAAAATG
CTGGAATTGTAAGCGTGGGCCTCTGCACCCGGCCTGGTCCGCAATTTAAAAACGCACAGCCACCATTCCCTCTCCAGAAAGCACCCAGATGCCT
TTGGGAGAACCAGCCTCCTCCATGGAGGAAAGCTTGGGATCTGCCTTCCCACCTGGGGAGGAGAGGGATCTGTGGAAAATCCTTCTGACGGACT
TCCCCTCAGTGCCTGATCCATACTCAATAGTAGAAAAAGTAAGAAATATACAAAGATAGCAGATACACGGAGACAGTTCCCCAAATAGCTGAGC
GAATAGCGCAGAAGCAATATTGAAGACCTAATAGCTGAGACATTTCCAGAACTGATAAAGTGCATCCAGCCACAGATCAAGCAGCCCAGAAAAT
TCCAGGCAGCATCAACAAATAAATAGCCCCACATGCACCCGTGAAAATGCAGAAGACCAAACAAAAAAGTCCTGTCAACAGCCAGAGAAAAAGA
TCAGCCACCAGGGGTCGGTAGTGAGAAGGACAACTGTGGAAGCCAGGAGAGACGACAGCCCTGAGTTCCACAGGCAATGGAAGAAAGACTGTCA
GACAGAAAGGTTGTCCCCAATATACTTGCACTAAAAGAAAATCTTTTTTTAATTAATTAATTAATTTATTTATTTTAGACAGGATCTCACTTTG
GAGTGCAGTGGCGGGAACACAGCTTATTGTAGCCTTGACCCAGGCTCAAGCGATCCTCCCACCTCTGTCCCCGAAGTAGCTAGGATGACAGGTG
TGCACCACCATGCCCAGCTAATTTTTGTATTTTCATAGAGGCGGGGTTTCTCCCTGTTGCCCCAGCTGGTCTTGAACTCCCTTGATCAAGGAAT
GCTGGGACTACAGGTGTGAGCCACAGCACCGGCCAAGAAGGTCTTTTAAAAAGTCTTTTCGGGCACGGTGGCTCATGCCTGTAATTCCAGCACT
TTGGGAGGCCAAGGCGGGTGGATCACAAGGTCAGGAGTTCAAGACCAGCCTTGCCAAGACGGTGAAACCCCGTCTCTACTAAAATTAGCTGAGT
GTGGTGGTGGGCACCTGTAATCCCGGCTACTCGGGAGGCTGAGGTAGGGAATTGCTTGAACCCGGAGGCAGAAGTTGCAGTGAGCCAAGATCAC
GCCACTGCACTCCAGCCTGGCGACAGAGACAGACTCTGTCTCAAACAAAAAAAAGAAAAAGAAAAGTGATCTTTAGGCTAGACATGGTG
CATGGTGGCTCTCACCTGTAATCCCAGCACTTTGGGAGGCCTAGGCAGAAGGATCGCTTGAGTCCAGGAGTTCCAGACCAGCCTGACCAACATG
GAGAAACCTGTCTCTACTAAAAATACAAAAAAATTAGCCGGGCGTGGTGGCGCATGCGGGTAGCCCCAGCTACTCAGGACGCTGAGGCAGGAGA
ATCGCTTGAACCCAGGAGGCAGAGGTTGTGGTGAGCTGAGATTGTGCCATTGCGCTCCAGCCTGGGCAACAAGAGCAAAACTCCATCTCAAAAA
AAAAAAAAAAAGTGATCTTTAGGCCGGGCACAGTGGCTTGTGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGTGAATCACTTAAGGTCA
GGAGTTGAAGACCAGCCTGGCCAACATGGTGAAACCCCATCTTTACCAAAAATACAAAAATTAGCCGGGTGTGGTGGCACGCACCTGTGATCCC
AGCTACTTGGGAGGCTGAAGCAGGAGAACCACTTGAACCCAGGAGGCGGAGGTTGCAGCGAGCCAAGATCTCGCCACTGCACGCCAGCCTGGGC
AACAGAGCGAGACTACATCTCAGAAAAAAAAACAGTGATCTTTAGCCAGAAGGAAAATGGTCCCATTCAGAATCAGAGATACCTCAAGTGATGA
AGCACAGATTCGTAGAAATGTGGTGAGTCTAAATGAACATCAATTCTATTAAAAAAGATAAAATAGTGGCCGGCGCGGTGGCTTACGCCTGTAA
TCCCAGCACTTTGGGAGGCCGAGGGGGGCGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGACCAACATGGTGAAACTCCATCTCTACTAA
AAATACAAAAAAAATTAGCAAGGTGTGGTGGCACATGCCTGTAATCCCAGCTACTAGGGAGGCTGAGATGGGAGAATCACTTGAACCCAGAGG
CCTCTCACGCCATTGCATTCCAGCCTGGGCGACAGAGCAAGACTCCGTCTCAAAAAAAAAAAAAAAAAGTTCTGTCTTGTGGGAGATTTAAGTTTT
TGTGGTGAAATTAAAATTCATACCATAAATACAAACCTGGAAAGGAGTGAATACAATGAGGCGAACCCACTGGGCGGTTACACAGTGGCCCACA
GCTGTAGTCCCCACTACTCAGAAGGCTGAGGCAGGAGGACGGCTGGAGCCCAGGAGTTCAAGACCCACATGGGCAACATAGTGAGATGGAGCAG
GGACCCCTCCTAGGTGCCTGCCAGGCTCTCCCAAGCTTGGAAATCAAGGAACACTCTTGAATCCCTTCAAGGGAAATTCCAGTCACCTTGCCAG
CCTTGAAAGGTAAGTGAGCAGCCTGCCAGGAAGGCGACGGGAGCACGGGTCTCCCAAGCAGGCCACAGCCACAGGTGGTTTGCTTCCCTATAGA
AACTAAAGCATAACATACATTCTCAAGTCTTTCAGAAACCCCCACCCGGTGGAAAATGCCGACTGCTATCACAGAGACCCAGATAAGGGGGAAC
TGAGGACTGAACTCTGGCCGTGTTCTCTGTCATGAATTTCTTCTTGAGGGGCCTGGAGGGAGTCACAGCTGTGAGCCACTAATGTGTGCCCCCA
TGCACACAGCACCCTTGGCATAACTAACTCCATCTTAGAGACTCCATTGTATATCTTTACAGGGCACTTGGCCAACAAAGGTAAGATGTTTTGCT
TAATAAACAAGTTAAAAATAAAGCCTGCATCCAAACAGATGAGGACGCAAGCAAGCGCACTCTTCAGATGTCACTTCTCACGGGAGGCCTCTGT
GATTGCAGAAGGAAAGGCCCCAGCAGAACTCACCATCTGCCGCCTGAGGCTCCACCACCTCGAAGACATCCTTGCAAGATCCACAGACTGGCCC
AGACCAGGAGGTTTCTGTCTTCTTCTTGTGTCTTCTTCACTCTCCTGGACTGGTTCGTGAACCCTTTCTCCTATCTCTGTTTCCTCTGGATGTT

HUMAN SEQUENCE - mRNA

GCTCCGGCCAGCCGCGGTCCAGAGCGCGCGAGGTTCGGGGAGCTCCGCCAGGCTGCTGGTACCTGCGTCCGCCCGGCGAGCAGGACAGGCTGCT
TTGGTTTGTGACCTCCAGGCAGGACGGCCATCCTCTCCAGAATGAAGATCTTCTTGCCAGTGCTGCTGGCTGCCCTTCTGGGTGTGGAGCGAGC
CAGCTCGCTGATGTGCTTCTCCTGCTTGAACCAGAAGAGCAATCTGTACTGCCTGAAGCCGACCATCTGCTCCGACCAGGACAACTACTGCGTG
ACTGTGTCTGCTAGTGCCGGCATTGGGAATCTCGTGACATTTGGCCACAGCCTGAGCAAGACCTGTTCCCCGGCCTGCCCCATCCCAGAAGGCG
TCAATGTTGGTGTGGCTTCCATGGGCATCAGCTGCTGCCAGAGCTTTCTGTGCAATTTCAGTGCGGCCGATGGCGGGCTGCGGGCAAGCGTCAC
CCTGCTGGGTGCCGGGCTGCTGCTGAGCCTGCTGCCGGCCCTGCTGCGGTTTGGCCCCTGACCGCCCAGACCCTGTCCCCCGATCCCCCAGCTC
AGGAAGGAAAGCCCAGCCCTTTCTGGATCCCACAGTGTATGGGAGCCCCTGACTCCTCACGTGCCTGATCTGTGCCCTTGGTCCCAGGTCAGGC
CCACCCCCTGCACCTCCACCTGCCCCAGCCCCTGCCTCTGCCCAAGTGGGCCAGCTGCCCTCACTTCTGGGGTGGATGATGTGACCTTCCTTGG
GGGACTGCGGAAGGGACGAGGGTTCCCTGGAGTCTTACGGTCCAACATCAGACCAAGTCCCATGGACATGCTGACAGGGTCCCCAGGGAGACCG
TGTCAGTAGGGATGTGTGCCTGGCTGTGTACGTGGGTGTGCAGTGCACGTGAGAGCACGTGGCGGCTTCTGGGGGCCATGTTTGGGGAGGGAGG
TGTGCCAGCAGCCTGGAGAGCCTCAGTCCCTGTAGCCCCCTGCCCTGGCACAGCTGCATGCACTTCAAGGGCAGCCTTTGGGGGTTGGGGTTTC
TGCCACTTCCGGGTCTAGGCCCTGCCCAAATCCAGCCAGTCCTGCCCCAGCCCACCCCCACATTGGAGCCCTCCTGCTGCTTTGGTGCCTCAAA
TAAATACAGATGTCCCC

HUMAN SEQUENCE - CODING

SAGRES DISCOVERY 02-11

ATGAAGATCTTCTTGCCAGTGCTGCTGGCTGCCCTTCTGGGTGTGGAGCGAGCCAGCTCGCTGATGTGCTTCTCCTGCTTGAACCAGAAGAGCA
ATCTGTACTGCCTGAAGCCGACCATCTGCTCCGACCAGGACAACTACTGCGTGACTGTGTCTGCTAGTGCCGGCATTGGGAATCTCGTGACATT
TGGCCACAGCCTGAGCAAGACCTGTTCCCCGGCCTGCCCCATCCCAGAAGGCGTCAATGTTGGTGTGGCTTCCATGGGCATCAGCTGCTGCCAG
AGCTTTCTGTGCAATTTCAGTGCGGCCGATGGCGGGCTGCGGGCAAGCGTCACCCTGCTGGGTGCCGGGCTGCTGCTGAGCCTGCTGCCGGCCC
TGCTGCGGTTTGGCCCCTGA

TABLE 12

MOUSE NOMENCLATURE
ICSGNM Rasa2
Celera mCG21645

HUMAN NOMENCLATURE
HGNC RASA2
Celera hCG16062

MOUSE SEQUENCE - GENOMIC
TGGAGCTCTGATGCTGAGGGCCCGCATGAAGGCCAGCTAGGTATAAAAATGCATCTGAAGTCCCAGACGGTTGGAGGCAGAGACGGGGAAACCA
CGAGACAAGCTTGCTACCTAGACTAGCCAAACTGGCAAGCTCCAGCTTCAAGATCTTGCCTCAGTAACTTAAGTGAAGGATAGAAGACAAGGAG
ACCTGTAACCCCCTAACCTCCACACAAATGCACACAGCTACAACAATACATGTTTGGGCCCGAAAAATGAGATGCAGGTACCTGTGGTTGTCAA
GACTCAGTGACATTTTGTGCTGACTTGGAGTCAAGAGTTTCCCTCTGTTCTGGTGAACTGAGCACCTGGGTTCAGGCCATCTAACACCTACCTT
TCTCAATGGGATGACGTCAGGCCTCACAAGATACCCCTGAAAGCGCAACCATTTGTCTGCCTTCCGCAGGAACAGTAAGTTATTCAGATTCCAG
GCTCTAATGGTCCCTAGGAATGAGAAAGTTCCCTGAACCTAGTGCCTTCTGGAGGGAGTGTGAAATCTGTATGTATACAGGAGTGGCCTTTGGA
TTTGATGTAGGATGTACTTTGCCACCCTGATTCAGCCTAATCAACTTCTTGTGTCTCAGCTTTCCTAGGTTTTTCTATTAGTAAAAAACCAGAG
ATCATCTCTGAACTACCCACCATTGCACTTTGAGCGTCCTCAAAGACCCCCCTTTGGTGGTGCTGTGGTTTCTTCTGTTGTCTGGGGTGATAAA
CAGCAAGGTGACCCTCCCCTCTCCACTAGCCTGCAACAGAACCACACTGTAGCTGCCTCCTCAATTCCCAGTGTGCATGGAGGACACCTGCTCA
TGATTTGTAAGAGTCTGAGCCCTACTCTGGGGCTAGTGTTAGACATGTTGCTAGTCTCTTGTAAAAACATAAGAGATGTCTCTGGAGTGTGGAA
GTCTGTAGGAATCCCAAGGTGAGAGGCTGAGGCTCTTGCTCTAGGTAACAGGAAAGGTAGACAAGAGAGCAGAAAAGACATGTTCCCCTAAGGA
CTGAGCTGGTGGGCTAAGGAAGTACAGAAGCTGAAGGGTAAACTGAGGAATGTGGGCGATGCATGTTTGCAACAGGCAACCAGCATCACTGGTG
CATGGGGGAGGGGGACTGCTAAGAGCACTGTTTGAGTCTGAGCAGCAGTGACATGCCATCTATGGGGCATTCTCTATCTTCCCCCTGGACCCTG
ACTCCCCCAGAGAAGGTGGACACCTCAGTGAGAACAAAAAGAGGCCAGAAAAAGGGCAAGAAAGTCAGCAGTGTCCTGCTTCAACTCTGCTGTT
AGCCTCCCAGATGGTGACAGGCCTGATACAAAGGAGAATAGAAGCCATAGCTTTGACTGTTCTCCTCAAAATGATGCTTAAATTGTTGAAATGA
TATTTCGGGGGCACCTAAAAGAGGCTGAAAGGGTGGTGGAAATGGTACCATGCACTTAGAGCTAGAAAAGAAGTAACATCGGGAGAAGAAGGCG
AATAAAATTGTTTTTGTTGCCTGTTTGGAGCCCTGCATACCCTTGGCTACTGCAGAGTTGGGGCTCTTCACTCAAGGGTCCGCCCCGCCCCGCCC
CGCCCCGCCCTGCTAGCATGTCCTCTTTCCTGGAGGCCTGTTCAGTCTCCAGATTGGTGTATCTACTTCTCTACTCAAATACTTCTCTTTCTGC
TGCTCTGGGGCTAAACCCCCATTCAGCCCTTTCACATCAAAAATGCCAAGGAAGTGGCTCAGAAATTGTGCATGCCATCCAACATGTCTGTTTG
CCAGCACTGACCTCCCCCAGTCCTCACCACTGGAAAACTTCCCAGTGGGCAATGGGGCTTCTGAAGATGCTAACAAAGAGGACCGACTGGGACT
GTGCTCTGCGGGCAGGGTGCATTGGCTCAAATCCTAGAGAGTCTGTGTGGGTCAGCTTTGCTCAGAGACAGCATGAGAAGAACAGTAACAAATG
CTGACGTTAGCTATGAAGTGTTGTCGCGTCTAGTGGAGCATGTAGCATCTACCTGCAGAGGCCGGCTCGAGGAGCTTTGTCAGTATTTTACGGC
CAGCACACTGCCTGTGCTTTGTAGAGAGAGAAGAAACTCAGCAAAGAATTCCCCTTGTGCCTGAATCCTTGACTCTTAGCCCTCATTGCCCTTC
CATTCCCAGCTTTGTTTCATGAGGGACTTTGGGTCGGCTCTTTAGCACCCTTCCCCCCAGTTACGTTTTATTTGCTTGCATGTGTGTGCCTGGA
GGCCGAAGAGGCGTTGGATCCCCTAGAACTGGAGTTACAGACCATCATGAGTCGTCATGTGGGAGCTGGGAATTGAACCTCAGTCCTCTGGAAG
AGCAGCCGGTGGCTCTTAACCACTGAGCCGTCTCTCCAGCCTCAGCCAGTTCTTCGTGAAGTTATACTCTCTCTTGGCTGAGACTTGAGAAGAT
TTTGAAAGTATCATTTAACCAACTACCATTCTAATGTATTCTCGGGGCACTAAGGAGAGGAGGGGGCACCGGAACTTTCTCTGAGCAGAGCCAC
GTGGGTCCACATTTCCTTGACTCCTGGAGGTGCCCATGCGGATCTGTACTAGCCAGGTTAGTGACAGGAACACTGGGAGGCCCTAGCAGTATCT
TAAGAGTGCGGGACTCCATTAGACCATGTCCTGAAGGTCCCATGGCTGCTGGGTTGGCAGGGGCTGCCTGGCCTGAGGTACTCTAGCCTGGCAC
TTAACTACTGAATAACTGATGGGTGGCTCTGGGATGCTGGATGAGTGGATAGGGCTGCCCAGACAAATGAAGAAATGTCCTGGCACAGAGTCCA
TGAACCAAGTGCAGAGTTGCTCAACGGTTCCACCCTTTCGTGGCTGTTGTTTTATCAGTGAAAAGTGACAAGAAGAGTGGACTGGAGGAGGGGT
GAACGCACCATCATAATTCAAAAGGAAGGGAGCCTCGGGACACCTGAAGTCACTCTGGCCAAAGGGCATATGCTGCCTTATGCTCCCGCAGCCG
GGCCTTTAACCGCTTCCTCCAGGAGCTAAACTTCTTTGAAAGTATTTTAAACAGATGAGCTGGAGCCTTCGGGATAAAAAAAAAAAAATGTCCA
CATATTTTACCAGTTTTGTCATGGCCTTGTTTGGTTCTGAAGTAAAATCTTAAAAGCTCTCTGAGTCTTTCATCAACTTCCCCATGTCCAGCTT
TGCTAAGAAGAAAACTGCTGCCTGGACTTAGAGGAAGAGCGAATAACTAATTCACCAACGTATTAAGATGGGATGAATGGGGGCACCAGATCAT
CACTGATGAAAGCAACTTGCCTCCCAGCCAGTCTAGGGGAAATGATTCTTCCTCATTAGTGCACAGATATACGAACATGACCTACATTTAACTA
CTAAAAAAGCACAAACACATCTCCTGACTTATCAAAGAAACACCAGTAACCTGGGGGGCCCAGGGCGTCAGCCAACCCATTTGAGCCCAGCAGC
CAGGAGCCAGGAGCCAGTGGCTCTCTGTGAATTCCAGGCCAGCCAGGCCTACAGAATGAGACCCTGTCTCAGAAGTAAAATAAAACAGAGGCTG
GAGAAATGGCTAAGCCATTAAGAGCGTTTGTTCTTGCAAAGGACCTGAGCTTGGTTCGCAGTACACTAATGGAGGCTAGCTAACAACTATCTAT
AGATTTAGTTCCAGGGGACCCAATGCCCTCTTCTGACCTCTTCTGGGTGCCAGGTACTCGTGTGGTGCGCACATACACACATACATGCAAGCAA
GCAAAACATCCACTAGACACATAAAAAATATTTAAATGAAAGTAAATATTAAAATATAATAAAATTAAAAACTTCGGACCAAAAGATAGCTCTT
ACAAGTCAGTTAGAGGCTAGTAATAGGATGTATTAGTATTCAGAAATAGGATGGAACTGACCAGCTCTAGAAATAGTTTCTAGCATCAGGATGT
ATTCATTTCATTAACAGAAACGGCAATTTTCACACATCGCACCTTGAATGAGCTGACTTGTGGTTTGAAACAAATGAATGGGCTTAAAACTAGC
TAAGAAGTCAGAAAAGACAGGGCAGTGAATGACTGCTCATCAGAATAGAGAAGAGGTGGGGAGAGATAGGTTTTAAAGACATTCATTAATAATA
TGGGGAAGGAAGTGAACTGCAAGATCGTGTCTGCTGCAATATTGTTCCCGTTACCAAACACAGTGAGGAGAGGAACTCTAGACGAATTTAAAAC
CCAGCGCACAAAGCCATAGACAAAATGAGATGGAAAAGCAGTCTTGCAGCTTGGATGCAGACCTTAGTCTGTAAAACTCGATTCCTGAATGCTT
TATATTAAGGAACAAAGACTAGTGAAGATTTCTGCAGCACCAGTTGAAAAAAATGTCATTCCTAAAGTGCTCCTTCAGAAATGAAGTAATTAGA
AGTGACTTGGGATGAAAAGGAAGAGGAGCTGGAGGGCCTTAGTGGAACAATGTGATCATTTCAAACTCCACTACAGGAAGATGTCCTGGGAGGG
AAAATTAATGTTACTTCAAATAAAATTGTTTTTATATGTTTTAGTAACAAACTAGTAACAGAGTTCATGAAAAACAAGGGAAGTTAGAAGAACC
TACTGTAAGCAACAGTATTTTTTCAAAGAAAAAACAAAACAAAACAAAAAAACAAAAGAAAAGCTAGCTTTGGAAGTCTACCTGGAGGATGTC
ACAAAAGTTTTCAGGTCAGACGGCTTCCATTTGGACGACTATGATAACAAATTACAAGTGAGAAATTTCAGAAAAGGGAAGCGCCACGTCTGCA
GAGCAGAGGAAGTTAAGACATCACTCATTCATGCGTGAGCACACTGAAATTGTTAAAGAATATGGAGTGCAGGAGATAAAACCCCTCGTCGACC
ACCTCTCCCTCCATGGGAGGGGGTGGGGAGGAGAGCTATGCAAAGCTGCCTCTCTCCTTGTGCTAGGAGGGTTTCATATAATAGAAGTGATCAG
TACTATATACAATGACTCACGTGAGAGCCACTGCCCAGGAGAGAAAGGAGAGGAAAATGAGGCAACCCTCGGCCAGACTTTTTTCTCTTCTCTTCT
CTTCTCTTCTCTTCTCTTCTCTTCTCTTCTCTTCTCATTTTCTTCTTCTTCCTTTGTTTCTTTGTTTCCTTCTCTCTTTCTTTC
TTTCTTTCTTTCTTTCTTCCTTTCTTTCTTTCTTTCTTTCTTGGAGACAGGATAGCTGTGGCTGGAATGGAAGTTGATATATAGACCAGGCTGG
CCTTGAACTCACAGATATTGGCTTGCAACTGCCTCCTAAATGCTGGAATTAAAAGCATGTGTCTCCATGCCTGGTTTAGGAAGCCATTCTTAAC
AAGTTGTTGGGGAAAGTGGCTCAAAGTGACTGAGGTAGGAAAGGTTCGACACAGGCTGGGTCCAATCTAAGCCCCGAACACCTGGCGGAGGAAT
GTGAACTTCATTCATTAGTCATCTGTAGCTGGCTTCCTGACCTGCACTGCTCGATTGCTTGGTGACTGATACAATGAATGAAGCCATTCATAAG
GTTTTTATTGTTGTTGTTGTTGTTCTTGTTGTTGTTGGCTTGGTTTGTTTTCCACAAACCAAATAAGCTTCCTGGGTTTTGCTTTAGATTAAGA
TTCATTGGTGCAGAACAGGAATGAACGAGGTGGGAGACTTATCACATGCGTTCATGTCAAGAGCTTGATGTGGCATTTACTGAACTAATCCTAC

TAGATACGTCACAGACATGTTCTCAACACTTACTTAATACTATTGATAATCCTTCAGAGAAGGAAGACCCAGTGTAACATTTCAGTTCTGCATC
AGAGAAGCACATGCAGATGTTTAAAGCCATAGGTTAGCTCTGTTCTTAGATGCTAGTCAGAAGCCTCCTTTTGCAGTGGCCAGAGGTGGATGCA
GAGATTCACAACGGGCCAGAGAGCTGAGAATCTGGGACTGAGAAATGCTCAGCCCTAGATGAGACATCCAACCACTTCTGAGGTCCAGAGGACT
TCAAGGAGGGATGGGGCAGGAAGGAGGATGGGGAGGAGAGCTATGCAAAGCTGCCTTCTGGACTTGACACGGCCTTTGTGCTCATGAACTCCAA
GCAGCTGTGCTTACCTACACACGATTAACCGGGTCAACATTCCAGCCCCGCTGTGGGAGGGGCTCGTGAGCACCTTCCCCTCTCTGAGGAGCTG
TGTAGGTAGTTAATGAATGGCTGCTGGGGTAAGGGGAATCATTTTCTTGAGGGGTGCAACCACTGTTCAGTTGCTCCAATAAATAAGCCTTGAT
CCACAGCCCTAATTAGAGTCTATGGCATGATTGGGCACTTGTGCAAAAACACACACACAGAGTCACAGACAATTCTCTCTCTCTACACACACAC
ACACACACACACACACACACACACACACACACACACACACACACACACAGGATGAGGACTTTTGGGGGGGGAAAGAAGGATCTCAGTAGGAGTGGGA
GAGGAATAAGGGGGTGAATAGGATCAAAATATAGTGTGTGTGTGTATGTGTGTGTGTGTCATGTGGTCGTCAGAGAATACATTTTAAGAAAAT
ATGTTTAAAGACTAATTTATTAGGTATCTTATGTATGTGGGTACTTTGTCTGCATGTATATATCTAAACATCAGAGAGGGCATCAGATCCTATC
ATAGATGGTTATGAGCAACCATGTGGGTGCTGGAAGTTGAACTCGGGAAGAGCAGCCAGTTTAACCACAGAGCCACCTCTCCAACCCCAAGTGG
GGGAAAAAGTCCTTTTACAAAGCTTGAATATCACTCCTAAACATCACAGCTGTAAAAGGATAGGATAAGGTTTCGTATAGGATCTACAAAGCCT
TGTCTTTGAAAAAAATTGTATTGTGGACACTCTTCAGATGAAGTCTTGTTTTTATTTTTAAAGAATTGCCATGACAGAATGGAAAGGAGAAGAG
AGAGAGAGAAAAAAAGAAGTTTCATCAGAGGGATGTGACAACCAGAGACACTGTGAAGAGAAGGTCTAGGGAAATCAGTCTCCAGATGAAGGAG
AGTAGAGGAGGGAAAGGCCAACCGAAACTAAGGATTATGAAAAGGTCACAAGTAAACCAGATACTTGATATGATAATTTAAAAATTGAATTAAA
TAAAAGGAGTTTGATGGAGGTACCCTGTGAAAGTAGATAAAACTTGCGCAGAGAAGCTAAAGGTCATCAAATGCAAACCCTGTGCTGGGAGTGG
ACCATTTCTGTTGTTGGTCCCACAGGCCCACCAGGCTTCCAAGCAATATAAGCAATCACCACTGTGGTTGGTAGCCCACCAGAACTAGACTTGT
GAAGCCGAAGATACATGTGCTGAAGAGACCACAGGGCATACAGACATCAAGGTGAGGCAGAGAAGGCGCTTCCTCCCAGCTAGCTAACCCCTCA
TCATGCCAGAAGGTGCTATTCAGGCTGCTGGTAGAGAACTGTCATCAGTAATCTTACTCAGCTGGGGTCCCTACTTCCTACATCACTGACCTGC
CAGGCAAAGGGCACCTACTGACACACTAGTGGGAAGTCTGCTATGGGGGTGACCAACCACTTCCTGACTGCAACTCCTTCAGAGGAAATTCACA
TCTGGTACTATAAACCTGTTAAAAAGCCTATGGCTGGGGAAGTCACAGCCCCAGTAGGGCAGGTACAGATGTTGTTCTGCTAAACAGATGTGAT
GTGTGCACCAAGTTGCTTTCCAATAATTGTGCTTGTGCATAGGAATTCGTGAGGATGTCATGTTTGCTTCGAGAAGTCCACCCCCTCATGGGCA
GTATTAAACGCAGAGATTCATAACTAGTCACTGAGAATAAAAAACTGGATGCTCAGCCTTAAATAAGACCTGTATATCACCCCCCCTCGGAGGA
ACGTTGAGGAAAAGATGGGAGAAAGAGTGTAAGAGTCAGAGGATAGAGTGGAGTGTGGTGGAATTTTCTTGGCATGACATGACATGGCTGTCAC
ATTTTTTGTACAAAGATATTTCTATTTGTATGTGTATGAGTGTTTACTTGCATGTATGTATACCATAATGAGTGCTTAGTGTCCCTGAAGGTCA
GAAGGAGTAGGATCCCCTGGAACTAGAGTTACAGAGCATTGTGAGTTGCCACTTGGGTGCTGGGAACTCTTCTCTAAGTGCTCTAAACCCTTCA
GCCATCTCTTCAGCCATTCTACCTGACAGCAGCTGTGGTTGTCTGTACTATACAAGATCCGTGCAATACTGGGAGCCAACATCCTGTGGTAGGG
TGCAGGAGGATTTACAAGGATTTTTGACAGTTGATGGTTGCCGGAAGAGACATTTTCTTCAGTAGTACAGCCACTGTTAAGTTTCCTGTGCTCC
TGTAATTAATCTCTCGTCTATGCTTCTGGAAACAACTCTCATAAACTCATTGAACTAAAAAAAAAAAAAAAAAGTCTTGCTGGTGTGATGACTCA
GTGATTAAAGGTTCTTAATACCAAACCAGATGGCCGGGTTAATCCCTAGGAAACCCACGGTGAAAGGAGAACCACCTCCCAACAGCCATCCACT
GACCTTCCAGGGGATTGGAGGGGAAGAAAGCCAGCTGGGAGGAGAGGAAGGGGGTGCAGGGGATGTGGACGGCGATGAAGAGGGTATTGAATAC
TATGCATACATTAAACATGTGTATGAAAACGGTATCACACCATGACTGTGTATAAGTAAGACATACCAATAAAGCATTAAACGTTTTAAAATAG
AAAAAGCCAGTCTCTGGCCTGTGGTGTGTGAGCTCTGATTTGGAAAGAAAGGGAAATACCATTTGGAGTTTCTGTTTGAAACAACAAAATGCCT
GGAAGGAGAGGTAAGCTCACTTTCTCCAAGGCTGTATGGTACAGGACAAGGGGCACCCTCATGCATCACCAGCTGGACTGGAAGTATTGCTCGG
TAGCCTAAGACATCCAGCAAGCTTAGGTCACTCCGTCTGCCTGACTGGCCTTGGCACAAGTGGCTTCTGGGCTTGCTTGTCGTCTGTTCACTCT
TCCCAGGCAGGCTCTCCTTGACTCTGTTTCCACAACTTGCTTCTTCTCTCTGTGTGCCCTTCCAGGTTGAGGTGCTCATGGTCTTGGCGCCTTC
TGCCCCGTCTTTTTGCCCTAGGGCCATTCCTATATGTCTGAAAACATTCCTTGACTGGCTGACTCTAGCACCTGGCAAAGAACAACCCTGCTCT
ATTAAATCAGTTTCTTCCTTCTTAGGGCAGCGCAGTTAAACCTCAGGACCAGGAAATCATCCCTCTCCTCACATACCAGGGTGTTATCCACACA
GTTTACTCACTGTAAATAGTTCCCTTAAGATAGTGGCAACAACTAGTTGAAGATTTACAAACTTCCCAGGGCCAATCTACTTTCTAAAAAGCCT
GCTTCTGGGAGTGGGAAAGAGGTCACCGTTCCGATTCTGAAATGCAAAACTGGTGATAAACTCAAAATTTCTCTGGGTCTCAGACAGGACTGGA
CGGAGTCTGTGGTCCTTTTCTTGACCCAACTTTTTGCAGAGCAATGTTCCCAGAGCAAAGGTTGAGTATGTGGTTTGTCCCCCACGTGCCGCAC
TGCGGGAGCATCTAGACACCGCTGGAAGAGTCTCTAATACATCTCTTGACGTTTGCCAAAATGCCAAACTTTTTCCTGGAACCTGGAGTCATTC
TGACTGGGGACTTTTCTTTTCCTTGAGCATCTGGGGACCTAGAGGTCCGTTCGTGGGGGACGTCCAATTCTCAGGGTTCTGGGGATCACAGCAG
GGCCAGGGTTTTCCTCCTTGTGGGGGTTTCAGAGCGCCTCTCGCGACTTGCCCAGGGAGGCAAGGCGAGGCGGATGCAGGGCGGGCACGGCGCG
AGGGGCGGGGCGAGTCAGCCCGAGGCCGAGGCGGGGCTACAGCGAGGCTCGATCCGGCCTAGGCCTCGCTCCGGCTCCGCCTTGCCCGGCTACG
CAGGCGGTAGGGCTGGGGTAGGGGCCGGGCGGCACCATGGCGGCGGCAGCGCCTGCTGCGGCGGCTTCTCCCGAGGCGCCGGCCGTCTCGGGCA
GCGCAGACCCGGAGACGGGAGACGAGGACAGTCGTGAGGTCCGAGTGCTGCAGAGCCTGCGCGGCAGGATCTGTAAGCGGGGCCGGGGCTGAGG
GGACCCCCGGGGCGGCGCGGAGGGTGGGCGGCGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
CCGGGAGCTCGGGCAGGACACTTGTGCCCGCCCCACCTTGCCGCGGCGGGGACTTGAATCGAGAGCCGGCGTGACTGACGGTGACTTGGGGCAG
GATGTAGTGGCTTCCTGTGAGCAGGTCTCAAAACTCAGTCATCCAGTCCGCGCTCAACCCACTTGATTCTCTCCCGTGCATTTGTGAGAGCCGC
ACCGATGAGTGTAGACTCTTACTCAGAGACGGGCCAGTTCGTTTGTCATTGCTATCCTTCCTCTTTAAAACGACCCTTTGATATTAGATCGACT
TCCCCCAGCTTATTGAGATGGTCCCTTTTCACTGTATGACTGGCGAATCAGTAGAGTTTATTGTTACTTTAGTTGAAAACCTTTTTTAATTCAG
ATTATTTTATCCCCAGAATGAAATCGGTCTCCTAAATAATGCCTGGCTATAAGAGATATTTTATATGTTGAAAATTCAATTGTGTTAGAATGGC
TGATACTGCTCTTTCTTTGGCAGAGTATAAACTTTAATTCTTAAATCTCGATGCTTCTTTTGGATTCTCCCACTTGAGTTTTTGATGTTACTCC
CCTTTCAAGGATTTGGAATTTTATTAAAACCCCAGGAGCAAGCATGTTAAATGTTACTTTTCAATTCCCTGACGTCATCCTGGGACTCCCAATT
CAGACACTTTTAAGTATTAAAACTTGGGAAATTACACCAGAGCAGTGGGTGTTTTTGTGCGTCTTAAGTTCCCAGTATTTTAAGTTACTTTCTTA
GGGTGTAAACTTTTCACAAATTAGCTTTCTTACAGTTAATATTTGCATGTATGTAATGTTTGGGAAAAGCCAAATACACTAGAATTTTCTTCCC
CTACTAATTAGGTTTTTCAAATTTTTACTACTTTATATTTTTCTGTGACTTGATGCTAGACACTGTTGAAGCCTTGCGAATCTATAAAAGCAGA
TTGTGTTGTGGGAAGACAGTGTGCTCTGTTGGAGTTGAGATTTAGGGTTGGGCTGTTTTTAGGAGTAAGTTACCTTCTGCTTTGACCTGATGCA
TAGCAAAGGTTCTGTGAACAGTGTGGTAAAAATATCACTCCAAGTGAAATTCGGGTCTGCAGATTAAAACACACACACACACACACACACAA
GCACACAAAACTTGGTTTCTGTGGCTTAGGCAATCTCACTCCCAGAAATTGACCATTAATTTCCTGGGAATATTTTTATTTTAACCCTAGTTAA
ACTAAACCACTTGTTTCTACCCTAGACAGTTTATTTATTTTTTATTGCTCATCTTATAGCTCAGGTCATGTTGTGACTGTTTCACAAGGATACA
TACTGAAATCAAGAACACCCCTCCCATTTCTTGCCCTTCTTTTAGCTGGTATGATCAAGGTTGGTTGCCCTCCGGATCCTTGTAAGGAAATGCC
CTTCTGTGTTTCCTGAAACTGACACGTGGGCTTTGTAAGGTGATGAGAAGTGGCGGAAACATTAGCAGGTGCTGAAGTCACAGAAATGGGATGA
TGGCAGTTTGACAATGAAGAATCTAAGCAGTTTGCGAGTGTTGAAGTCACCAGTCCTTTCTACCACACTGAGAAACCTTGGGGAGAACCTGGTA
GCTCCCTGTTAGCCTGGAGATGAGCTGTTAAGCTCAGAACTGCTCTTTGGGAGCCTCTCATCTGATCCACCTGAGAGGAAGCACTCCTGGGTAG

TGTAGTCCGAATCATCCTTAAGAAGAGCGAGGGTGGCCCGATGTTTATATTGTGGAAGTTCTAGAGGTTAGATAATGGTCCACACTTTCTTCAG
TGTTTCATTTCTAACTTATTTGTGTCCCATAGATTTCACAAGGTATAAATAGTATCAAGTTGACAGATCAGAAAACCAGCGGGTGGGGGAGATG
GGCTCAGTTGGTAAAGTGCCTGCTTAGCAAGCAGGATCACCAGAGCCCAAGTAGAAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAGAGAGAGAGAGAGAGAGAGATCAAAACACCAGATGTTGGTCTCAGGCACCCACACCCA
TGGGCATGCACATGCACACACAGCTAGTGCACACAGTCAGTACATTAACAAGTACACACACCACACAAACACACACACACACACACACACAC
ACACACACACACACAGAGACCATCATATAGCTGTTTTCACACAACCAGTTTAAAGAAATCTATTATCGCAGACAGTATTTTGTGTTATAGACTG
ATTAGTGCCCAGTTTCTTAGGGCATTTTAGTGTCCTAGATATCCTGAGGGTTTTGAATGTTCAGCTTCCTTACCTGAATTCACGACACAAAGTT
GTTAGATATCTTAGAATTTTCATCTGAACCTTTAGTAAACAAAATTAGGAGTATTTTTGGTCTGAACTACTTTGATATAAGTAGCATACCTAAA
GGTAGTTTGTATGCACCCCCCCTCCATTATACCCTATATTCAGGTGAAAAAAAAGTTTTAGATTTATATGTGTGTGTGTGTTTATGTCTGTC
TGTCTGTCTTCAGGCTTGATATGGCCTCGTTTTTGGTTACCCCCTTTTCTAATTAAGTCAACTGTAAACATTTTGAAAGGCTCTACACTACCTT
ACACAGGGCTTTTCTCTCAGGGATACCAGGTTATAAAGGCACCAGCCTGCGAAGATTTGTGGGAAGTGTTTGATATATTGTTCAGTGAGATCTG
TGAGACAGTGATGTGGCCCAAGAACTACTCACTTAGGATTTTGACATTTTCAGACCAAGAATGACTTCCGGCTGTTTGACAAAGGAGATAGATT
AAGTACTTAAGCTTAGGAGGCCTGGTGTAGTCAGTACCTTCAGCCCCAGCCCCCTAAAAAAAAATCTGGGTCAGCCATGGGCCATCTCTTAGGA
AGGAGTTAAGTAGGAGATAAGCCTTATCTGATGCTCTTGTCCAGCCTGCACTAACGTTTCCTGGTGTAGACAGCAAATTGGAAGCAGAAAGCCC
GTGTTCTGCTTCATACTGTGTTAGGTAATATTCCTGTGACTTCAGGCAGCTGTTTACTCTTGAGCTTGTGGTTGTTTTTATCTTTCTCATCTTT
AGAGTGGACTAGTGCTTTGTCACCAGACACTTGGCTCACGTTGTTTCCTCTGCCTGAGATTGTGTCCCCCCCTCCCCTTATTTATGTCAGAGAG
CCACATATCCTTCCAATGCAATCCAAGTCTCCTCTGACCAGATTTGCCCTTGTTTCTAGCCATATGGCTTTGATGCCTAAAAAAAGAAAAACGT
AATTCATGACCATTTTCTTCTTATAAAAAATCATTTGTATATGTCCCCTGTTATGTTAATTTTAGAATTCATTCTTGTTTTTAATATTTGTTGCT
GCTGGTGGTGTGTGTGTCTCAGTCTCACTAGATCAGGGCAGGCCTTTAGAAAATACCCTATCTCTCAGTGTTATAGATACTTTCAGAGCACTGT
GTATCTGGATAAGAAAGAATTTCCATATCTCTGGACAGATTAGCAGGGTTAGCTTTAGTAAAGGAAAGCTTCCTGAGTCTCTCTGGAAGTTCTT
TATTCTTTTTCTTGAAAAGTTGTAATGTCTGCTAATCTTAGGTTTGAACTGAGGCCAAACTTGCCTCCTTAGGAAAAGGATTACATTTTTTCTA
AATGCTGGCTTATTAATTAGAATATTAATTGTTTCCTGACTGTGTCCATTAGTTTTGTTACTAATTGGTCCCCAGAGCTTGGAAAAGAAAATAT
TAAACTCATACTTTACCTAGAATTGTTTTTATTTGACATGACAGGTTTAAATGTTTTGGTACTAAGATGTAAATCAAGATGTTTTATTGACTAC
CCAAGGGTTGAGAGGAAGAGATTTAAAAGGGATTATTCATGCTAATAATTCATTATTATCAGATGTTTGAAATGAGATGATGAATACTTAGTAG
AGGAATTTAAAAGGGTTTACTCATGCTAATAATTCATTATTGTCAGATGTTTGAAATGAGATGAGTTCTTTAGGACGGAAGAAGAATCCAT
CTTTGAGATGGATAGAAACAGAGGAAAAAGGGACCTTTGTAAAAGTTCACAGAGCATTCAGCTAATCATTTGCTCTGTGCAGGACAGGAATAAA
CCTCAGGGAGTTCATAGAGTTTTTGTAACTGAGAACTCTTTGAATAGCCCTGGACTGACTGGGAAGTAATGTAGCTAGAATAAAACCACCATTT
TTATCCTTTAATTATAAACCCTAATCCTATTTCCTTGTTAACGTGCTTTGTGAAATTATTTGATAATATCAGATTCTGTGCTTTACCTACTGAT
ATATTTATACCCTTTTATACCCTAGTAACAGTTTTGTTGTATAGTCATGTGTTATTGTTAAATTAGGAACATTTTGTGTATGTTAAATTTTTAT
GACATCTAGTTTTGTGTAATGTTTGTTTTTTGATTTTTTTTGTTTTGTTTTTTCGAGACAGGGTTTCTCTGTGTAGCCCTGGCTGTCCTGGAACT
CACTCTGTAGACCAGGCTGGCCTCAAACTCAGAACTCGCCTGCCTCTGCCTCCCAAGTGCTGGGATTAAAGGCGTGCGCCACCACGCCCAGCTT
TGTGTGATGTTTTAATCATCAAAAATCTCTAGCTAGATTGGCTTCATTCTCTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCGC
GCGCGCAGGTACATATGCATGTGTGTATATGTAGATGCCAGAGGATGATCTCAGACATTGTCCTCAGGAAACACTGTCCACCTCTCTTATGGCT
TGGAGCCCTACTAATTAGTCTAGACTGGCTGGCCAGCAAACTCCATGGATCCCTCTGTCTCTACCATCTCTGTGCTGGGTTACATGCAGGACCC
TTCACACCCAGCATTTTTGCCTAGTTTCCAGGGATTAAACTCAGGTCCTCAGGTTTGAGGCAACCAAACATGACTTACTGACTGATCTCTCCCC
CTAGCCCCAAAATGGCCCATTATAAGGTTATATCAAATATGAGCCAGGTGGTGCTGACATAGGCCTTTAATCCCAGCACTTGGGAGGCAGAGAC
AGGCAGATATCTGAGTTCAAGGCCAGCCTGGTCTACAAACCAAGTTCTAGTACAGCTAGGGTTACACAGAGAAACAGAGTCTCCATTGCCACCC
CCACCAAAGGAAAGAAGAAAACATTTTTATTATTGAGTGTGGTTTCTTTTTCTTTTTTTTCTTTTATTGGGTATTTTCTTTTCTTTTTTTTAAA
AAGATTTATTTATTATTATATGAGTACACTACAGCTGTCTTCAGTACATTTCAGAAAAGTGCATCGGATCCCATTACAGATGGTTGTGAGCCA
CCATGTGGTTGCTGGGAATTGAACTCAGGAACTCTGGAAGAGCAGTCAGTGCTCTTAACCACTGAGCCATCTCTCCAGCCCAAGCCTTCTCTCC
AGCCCGGGTATTTTCTTTATTTACATTTCAATTGTTACCCTGTTCCTCCCCCAAATGTTATCATCCCCCCTCCCTCTGCTTCTATGAGGGTGTT
CCCCCACCCACCACTCCTGTCTCCCCACCCTCGAATTCCCCTGCACTGGGGCATCAAGCCTTCACAGGACCAAGGGCCTCTCCTCCCACTGAAG
ACAGAGAAGGCCATCCTCTGCTACATATGTAACTGAAGCCATAGGTCCTCCATGTGTACTCCTTGGTTGGTAGTTTAGTCCCTGGGAGCTGGGG
GGGGGGGGGATATTGTTCTTCCTATGGAGTTGCAAACCCCTTCAGTTCTCTCAGTCCTTTCTCTAACTCCTCCATTGGGGACCCCATGCTCAGT
CCAATGGTTGGCTGTATTTGTCAGGCTCTGGCAGAGCCTCTCAGGAGCCTGCCATATCAGGCTCCTGTCAGCATGCCTCTTGGCTTCCACAATA
GTGTCTGGGTTTGGTGACTGTATATGGGATGGATCCCCAGGTGGGGCAGTCTCTGGATGGCCTTTCCTTCAGTCTCTGCTCCACACTTTGTCTC
AGTATTTGCTCCCGTGAGTATTTTCTTCCCTTCTAAGAAAGATGAAGCACCCACACTTTGGTCTTCCTTCTTCTTGAGCTTCATGTGGTCTGTG
AATTGTATCTTGGGTATTCTGAGCTTTTGGGCTAATATCCACTTATCAGTGAGTGCATAGCATGTGTGTTCTTTTGTGATTGGGTTAACTTACT
TAGGATGATATTTTCTAGTCCCATCCATTGCCTACGAATTTCATGAAGTCATGGTTTTTAGCTGAGTAATACTCCATTGTGTAAATGTACCAC
ATTTTCTGTATCCATTCCTCTGTTCTTTCCAGCTTCTGGCTATTATAAATAAGGCTGCTATGAACATAGAGGATCATGTGTCCTTGTTATACAC
TGGAGCATCTTCTGGGTATATGCCCAGGAGTAGTAGAGCCGAGTCCTCAGGTAATACTATGTCCAATTTTGTGAGGAACCACCAGACTGATTTC
CAGAGTGGTTGTACCAGCTTACAATCCCACTAACAATGGAGAAGTGTTCCTCACATATGTACAGCTTTCCTCTTTCTCCACATCCACACCAGCA
GCTGCTGTCACCTGAGTTTCTGATCTTAGCCATTCTAACTGGTGTAAGGTGAAATCTCAGGGTTGTTTTTGATTTGCATTTCCCTGATGACTAAG
GATGTTGAATATTTCTTTAGCTGCCATTTTAGCCATTCGATATTCTCAGTTGAGAATTCTTTATTTAGCTCTGTTCCCCATTTTCTAATAGGGT
TATTTGGTTCTCTGGAGTCTCACTTCTTGAGTTCTTTGTATATATTGGATATTAGCCCTCCATGGGATGTAGGGTTGGTAAAGATCTTTTCCCA
ATCTGTTGGTTGCCATTTAGTTCTGTTGACTGTATCCTTTGCCTTACAGAAGCTTCACAATTTTATGAGGTCCCATTTGTCGATTCTTGATCTT
AGAGCATAAGCCATTGGTGTTCTGTTCAGGAAATTTTCCCCTGTGCCCATGTGAGATCTCAGAAGAAGATGGAAAGATCTTTCATGCTCATGGA
TTGGCAGGATTAATATAGTATAAATGGCCATCTTGCTGAAAGCAAGCTACAGATTCAACGAAATCCCCATCAAAATTCCAACTCAATTCTTCAT
AGAGTTGGAAAGAGCAATTTGCAAGTTCATTTGGATTAACAGGACAGTGAAAACTATTCTCAACAGTAAAAGAACTGGGGGAATAACCATCTCT
GACTTCAAACTGTATTACAGAGCAATAGTGATAAAAACTGTATGGTACTGGTGTACAGAGACAAGCAGGAAGATCAAATGAATAAAATTGAAGA
CCCAGAAATGAACCCACACACCTATGGTTACTTGATCTTTGACAAAGGAGCTAAAACAATCTAGTGCAAAAAAGACAGCATTTTCAACAAATGG
TGCTGTCTCAACTGGAGGTCATCATGCAAAAGAATGCAAATTGATCCATTCATATCTCCTTGTACAAAGCTGAAGTCCAAGTGGATCAAGGACC
TCCACATAAAACCAGATACACTGAAACTAATAGAAGAGAAAGTGGGGAAGAGCCTCGAACACTTGAGTGTGGTTTCTTATAGTGCTATTAATGA
TAGACTAACCGTGCATATTGAGGAGCCCCTACTTTACCTCAAAAATGAGGACTTGGGTGTGTCTTTCAGAAGATACCCCTCAAATTATTTAATA
GTTGCTTTACGAAGTGCACCATTTGTCTTAAGATAATACATCAGAGCCCTTTGCTTTAGACTTGAGTTTGTTTAATATACTTGTTTTTGTATTTA
ATGCAGTACTTTTAAGAAATTCGCCTAAGATTTATTAAGGTTGTTTGAATCCTAAACATTTTCCAGTGGGCAGTAGTTAATTCAGTAGTTGTAT
ATGATACATAGTTGAGTATCTGATAGGGTATATCAACCCCTGGTGCTGAGAAATAGGTCTAAGCTGTGAGTGGGATGAGAAAGTCTTTACTCAG
CGTTTTACTCTGAAATTTATACTAAGCAGTAGCGTTCATTCATTCTCTGCTTAGAGAGTTAGAAAGCTTTAGAACTGGAAGGAAAAGAACACTG
TTGTTCTGTTCATGTGTACGTGAAGACTAGAGGACCCAAGTGGCACACGTTAATCACTTGTTGGACACTAGTGCACTGTTTTTTCTAGAGTGCT
GTTGATTTATTACTATGGATGTTGAAAATGCACTAGATTTAAGCTATGAAGACTGCTTTACCTCCCCGATGGTTTTTAGAGCGGTGCAGTTGAG
GTTTGTACCCATGCTCATCTGCTCCTGCTAAGAACTTAGTGAGGTGATTAGGACCAGCAATGCCGTGAGCTCTGTGGAGATAATCTGGATGTTT
ACTGTTTGTGTCAAATCCCACCTTAACTTTTTGCAGTCCATCAGTGTCTCTTGAATACTTAAAAACGTTTGATATCCAGACTCTAAATAAAATC
ATCATTTTGAGGGTCTACCAGCTTAGTTTGTATCTTTTTAGAGGTAGTTTAAGCATAAACAAATAATTGCTTGTGTATTGTAGCTTTTCCACTT

CAGAGAAATAGAAGCAAAATATGCAGTGTTCTGCATCTTTTTAAATATAACTTAAAGATGTTTTTATATCCTCACTTAAAAATAATATAGTATG
TATAATACCTCATCTCACATCATCTAGATGTATTGCATTTTAGGTAACCAGTCACCTGTTGATTGCAATTTAAGTTGTCTCTTGTCTTTGCAAT
AACAAACATTGCCACCATAAATAGCCCTGTTTATCATGTATATGTGTAAGGTGTGTGTGTGAGTGTGGATGTGTGCTACTAGGGAGAAAATTCA
GGGTCTTATTTGCACTCTACCATCAAGCCAAGCTGTAGGCCATGTGTGTGTGTGTCTGTGTGTGTGTGTGTGTGTCTGTATGTG
TGTCTGTGTGTGTGTGTATGTTTTTGGAAGCAGAGTTTCTCTGTGTAGTTCTAACTGCCCTAAAACTCACTCTGTAGACCTGGCTGGCTGGC
CTTGAACTCAGAGATCCACCTGTCTCTGCCTCCCACGGGCTGAGATTACCATTGCCTGGCTGCTACATGTTATTTTAAATGTGAGCTCTTGCTA
TGCAGCCCATGTTGACCCTGAATTTGGGATAATATTCTTGACTCTTGCACTGGCTGAGTGTGCTGGGATTACAGCTGTGCACCACCATGTCTGG
GCTTCATACAGATTTTTAAATTAAAGAGGTTAATAGAAAAATGAATGCAAAGACACTCCACAGAAGAAAATAAATTATCTAGTAAATATATGAA
AATGCTGGTGAAATTGACCAGAAATGAATCAGAGAAATAAAAGTATAAATACCTCAACACTTAAAAAAATGGAAACCTTGTATATTTCAGTATT
GAATGAATGCTTAAGGAAACAGATACTGTTCGTACTTTCATTGTGATTTTACGTTTATAAAACCATGTTAGAGCATTTGGTAGTATCTAATAAA
AACCTAGATGTATTTTTCTTATGCTTTTACTTTTGCCATCTCATCCTGCAGACACAAAGATATTTTGTGTTGACCTTGTTTGTTTTTTAAAAAG
GCACATTGAAGTTCTAGTAACAGGAAACTGGTTAAAGTGGTTTGTTCATAAATATATTCTATAGCAGTTAAACAGAATAAACTACATCTATATT
ATGATGACCCCAAGGTGTATTATTGAGTGAAAAAAAGCAAATTGTTAGAGTAGTATGTATGTTTATTATCTGTCATCCATCTATCCGTCTGTCC
ATCTATCCCTTTATTCTGTCTCTATGATGCCCAAGGATCAAGCCTGGGACATCACAAATGCTAATTAAATTTTCTATCACTGAGCTACAAGCCA
GCCCCTTAATGTATGCTTTTAAACTCTTGGAACAGTGGGTTTTTCCCCCCTATAAATTAGATAAATTTTATTTAAAAATGTCTAGAAAGATGTA
TATTGATTTTTTCCCCAATGATGGGCAACAGGAATTAGTCTTCTGTAATGACTTGATTTTCAATAGGGAGTATAGTATGTATTTGAGATGTTAT
TTCAATTTTCTATTTGTACAAATGAATTTGATAGTGTCAGATATTGTGAGACTCAATTTAACTTTTGATTGAATACTATATCCAAAATCAGACT
TAGTAACATTTTAAGCATACATTGAAATGAATAATATCAAATTTTCTGTTTTCAATTTCTACTTACTAGTTTGTATATAAATGTATGTAATTGT
GTGGGAAGGTGTGTGTGTGTGTATGTGTGTGCATGTATAGTGGACTACTTGTAGGAGTTGATTCTCTTCTTCCAGCTCCACCAGGTCATCAGCA
TTAACAGCAAGTGCCTGCACCTGCTGAGTTATCTCACCAGCCCTCCTTTTATGTCTTTTGGGCAATTTTAACGATGCCTATTTAATCATGAATG
TGTGAGTGCAGGTGCCTATGGGAGCTAGGGGAGTTAGAGGTGGTTCGGACCACCCTGTATGGATGCCTGGAACTGAACTCAGGTCTTCTTCAAG
AGAAACATGTGTTAGCCCCATAATTTTATTTTGAGGTTAAAGAAAATGAAACTCAGAAAAATTCAATGGATTCCTATGTACTTTGCCTGTTTGA
CCAGTTGCTTATGCTAAGAAGATTGACTTTTCGAAAAGTTAATACTTTTCAAAGGAGTGTTATATAAAGGTCCTGAATAATTTTGAACCTGTGT
ATTTGGACAGTCTTATTTATATAAAAATTGCTCAGTATATAAGGGGAATGAAGCAGTGTTTACTGAATATTTGCTGCTTTCCCGATATTGGGCT
AGGATACTTTGCTTCATTTCGTTACAGGATTGCTGTTCTTTAAGAAGGAGCAGCAGAGAGGCTCTTTAGCAACACCAGATTTCAGCAGGCTTGT
TGACAAGGCTCATGTCCGTTCCCTACACCAGGTTTTCTGTCTTGTAGTGTACTGGCATGAATTCATTTTTGTTGTCAAGACATGGTGATTTCTC
TAAATTAACAGTGGCCTAATGAATAGAGATTAAAGCTAGATTGTTGTCAAACACAGTAAAAATGAGTCCAGGGATTTGTAAAACTATTCTTTGG
TTTTCCTAACCCTGCTTTTGTTGGTTTTTCTCTTCTANNNNNNNNNNNNNNNNNNNCCCCTCCCTCCCTCCCTCGGTCCCTCTCTCCCTTCCC
CTTCCTTTCTTCCTTTCTTTCTCTACTTCCCTTGTTTTTTGACATGAAATCTCTCTCACTATGTAGTTCTGGCTGGCCTCAAACCCTCAGCCTA
GTGAGAGTGCTAGAGCTCAGGTGTGTGCCACTGATCTCTCTGTTCTTTAATGCACTTTCTTGCTTTTGAGTGGTCCCCCTAATATGTACACACC
TTTTATAAATGGGAGTTGGGTATGTGTATCTTCTTTGATAAGAGTTCCATTATCAAAGATAACACTCACATCCCATGTAAGGCCTGTCTACATG
CCCCGAGACTCTCCCAGCATCAGCTTTTAGCTTTTTGCTTGGCATTTCAGGCTCTTTAGGTTGCCTTATGAGCCTTGCTAAGTATCATGGAGCT
GTAGGGACCAATGGCCTAGCTCAGCAGAGATTACACCATAATCTCTGATTGCTTTCTCACCATGCACAGGGGCCTTTAGGGACCTTTAGGGACC
TGCTCGAAGCTGACACCAGAAGTGAGCAAGGCAGACCACAGGAAGATCTTCCTGCACTTGGTAACATACGTCTATAACCTATGGACATTTCCTG
GCAATACCTTGTGAAACTAGCCTTTTCACGTACAGTAGTTTCCTAACTTCTTGTTCTAGACTAAGCTTCAGTCAGAGGTGAGTAGCATGATCAC
AATATAGATAACTGGAACAGTTATTATGCATTATCTTTGATCTGAACGTGGTGGCTTGAATAAGGGAATTTTATATAGATGCTAACTTTTAAGA
ACCTCTAGCCCAGCAAGAGTACTAGTTCTTGTTTTGATTTGCTAAGTACTTACTTTGTTTTAGATATTGTGCCAAGTGCTTTACCACAGTTAAT
GTTCACAACAGTCCTAAGTATTACCTCCTTTACACAGGAAGTTGAAACTAAGGACATAACAGATTCTAAAGTACAAAGCTTATATTGAAACTCA
GATGTCTGTCTTAAAATGCACTCATTTAACTTGCTGTATTGTCAGTACTACTTGTTTTAGAATTCCCTGGTGCAGAAGTTGAAATTAAAATTAG
GAGAACATTTTGAAGACTTTACTATATATTATCATATCATACCTAGGGTTGTCTGATGTATAGTTAGGTAGCATTTTAATTTTATCTAAGCTTA
TCAACCTGAGTCCGTATTTTCAAATATTTTAAAGTTTTTTAAAGATTTATTTTTTTATCGTCAGTGTATGAAAGCTTTGTCTGCATGTCCGTGT
TTACATGTGTACCTCATAGCCTCAAGGAACACCATATCCCCTAGACTTGGAGTTAGGGGTTATTGTGAGCCATCATCCGGCTGTTAGGAACCAA
ACTTAGTTCTCTGCAGTAGCAACAAGTACTTTAAACTGCTGAGCCATCTCTCTTGCTCCCACAGTATATTTTTAAGTATGTATGATCCTTCTTT
GTTTTTTGTTGTTAGTGTGAATATATGGTGACGTTTACATACTGTCATAGCTCTCACTATGTAAAAGCTAAAAGCTTCTGTTTAGGTTGACATC
TCTGAGGACATCATGTTTTGTGTCACTTGAGCCAGTTTATACCAGATTCTATGAATTCTCTCTCTGTAGTTTCTCTTCAGTTTTTTCTTTCATC
TCTTTCCTTTTCATTACCTCAGTCTAAGTTAGAACTCTGTAGCCTTCCATTTTAGGTTCTCTGTTGGCCTCCATCCTGTATCCTCCTGTTCTCC
CTTAATCCCCCTGCCTTAGTTTGTGATATTCACTGCTGCCTTGAAGATGCTTCTTGTTCCCACCTCCATTACCAAAGATGACATCACATCCCAT
GTAAGGCCTGTCCGTGTGGTAGGCCTTCTATTGGAACATTGATCTTCTGGTGTTAATTTCTGTATTTTTTTTTTTTTTTTTTTTTTTTTTTTA
CAGTTGGATGATCTTTTTTTTTTTTTTTTTTTCTTGTACAAAGAAAATTTATTTCTCTATGTTAACATTTTTCTTTAAAATGCCTAGGCTTACTTT
TCTTTTTTTTTTTTTTTTTTTTTTTCCCCCATTTTTTATTAGGTATTTAGCTCATTTACATTTCCAANNNNNNNNNNNNNNNNNNNCTTTCCCCTG
TACCGGGGCACACAAAGTCTGCGTGTCCAATGGGCCTCTCTTTCCAGTGATGGCCGCCTAGGCCATCTTTTGATACATATGCAGCTAGAGTCAA
GAGCTCAGGGGTACTGGTTAGTTCATAATGTTGTTCTACCTATAGGGTTGAAGATCCCTTTAGCTCCTTGGGTACTTTCTCTAGCTCCTCCATT
GGGAGCCCTGTGATCCATCCATTAGCTGACTGTGAGCATCCACTTCTGTGTAATTTCTGTATTTTGAAAAAAAAATGCACCATTGAAAGATTTT
AAGTAAAATAACATGACATTCTTTAAAAATCTGCTATGTGTAACATATTAACTTATTAAGTAAGTGGTAGCTTTTTATTATGGTTTGGCTTGAC
TTTTTCCTGCTCCAAATAGTCTTTATTATTATTATTATTATTATTATTATTATTATTATTATTACTTTGTTCAGGACCCTGACCTATTATG
ATTTCCTCTGAGGCTTGATCCCTTTAGGATCTATGTTTGGTCCTTTTCTTCTTTGTTTTAAAGGTATGCTTGAAGTAGGGCTGGGTTTACCAA
GTCTCTTTCAGACAAGGATAGTCTCAGAACTACTATTTTCGAAAATCTTTAAGAATAGAGTGGAAAGATAGATAATCATGCTATTGGCTTTTGA
CTATGATTTATTCATTGATGCTCTTGCTGCTGCAGATTTACTTTATAAAAAGGAACAGAATTGCTTACCTAATAGGGTTGTTGTACAAATCAAA
GGAGACATTTGAGAAAATCCTTAGTTGTGGGTCATCCAGATATTTAAGAGATAGTGTATCCAGTACTATGCTCACCTAGCACATTCTTAAACAA
CAATAAAACCCACTGATAAGTATATATACAGAATCTTCCCTAAAACATCTACATAAACACGTGTACACACACAGGTGTACAAACCACACTTATC
AAAGTAAGTGTGAGCAGCTTTGATGTAAGTATTCTAGTGCCAGGTACAATTTATATGGTAGACTAGGAAGATGGCTCAGTTGGTAAAATGTTTG
CTGCAAAATCATGAGAATCTTAGTTTGATTCCTGCAACTCACATAAAAAAAAAAAAAACCCAAATATGATGAGATGCACTTGTAATTCTCTCTT
GGGGGAGATGGGACAGGAGGACTCCTGGGACTTGTGGGTTAGTTAATCTAGGCAAACTTGTTAGCTCCAGGTTCAGTGGGAGGCTCTGTTCCCT
AAAAATTTACATGATAGGCTCTAAACAGAAGCATGCCCGCATGGAGTTACTGTATAATCTACACAGAGAGGACAAGCATCAAGACAAATAACGT
CGGGGCTGGAGTGGAGGCTAAGCAGTTTTATGAGCATATATACTCCTCTTAGAGGGGATGTGAGTTTAAAATTCTCTTAGAGAGGATGTGAGTT
TTTAAATTAATTTAATATAAAAACTGATAATAGCTGAGAATGGTGATAACCCAGCACTTGGGAAGAAGAGGTAGGAGGGGGAAGAGTGCAGGGT
TATCTCTGTCTGTCCAAGGCCAACGTGGAAGCTCTGTCTCAACAAAAAAGGGAAAAATTGTGTGTGTGTGTGTGTGTGTGTGATGAAG
AAAAGCTATATCTTATTGGTCAGCTAAAACTGCTGTCATATAATGTGAAGGTGTTTTGGCCAACTTACACTGCATCTATGAAAGAAGAAATATC
TAATGAAGAGTTTATTTTGTTCATCTCTGAAAATTTGTGGTTTCATAAAAGGGACAATGGGTGCCCCGTGGATTTCTTCTTTTTTGTTTGTTTG
TTTGTTTTGGTTTTGGGGTTTTTTGTTTGTTTGTTTGGTTTTTCGAGACAGGGTTTCTCTGTATACCCCTGGCTGTCCTGGAACT
CACTCTGTAGACCACCAGGCTGGCCTCGAACTCAGAGATCCACCTGCCTCTGCCTCCCAAGTGCTAGGATTAAAGGCGTGAGCCACTACGCCCG
GCGGATTTCTTCTTAATACATACGAAACCTGTAACTGGTACTGCTTGCTACCAGAAACTACCAAAACTCAGTGTCCTTCTGTTTTCCAGTTTTC
TAGTGAATGACTCTGATTAGTGGAACTTAAATTAGTAGAACTTAGAAACATAAACATAGCGGCAAGATAGGTTAGGAGAATTTCTAGCTTTAGA

GTCTCCATAATACCAGAAAGCACACAAGTAATGCTGTACCGCTAACTCACCATATCTTGTATGAGTATAAAGTTGATTCTTCTTAAGAATAGAA
CTCAGTATGCAGACTGGAGTTGCCTTGAACTCAGAGATCCATTCACAAAACTTCCTGAGTGCTAGGATTAAAGGTGTGTGCCACCATGCATGGA
GAGTCTTTTTTATTTTATAATGGCATGTTTTAAAAATACCTAACAGTGGCCTTCCTCTGATGAATTAAATAGTCTATTCCAAGTTTCCTCCCATT
TAAATATGCTCTGTAGATAAAAGCCTAAATGAGGGGTAAAACAAAGACCGTTTAGCAGGAGCTGCCAAACAGAGGGTGGGTTAGTGCTAAGATA
CTAGAGAGTGGCCACATACTCTGGTATTGACAGGCAGTAATTCGATTCGGAAGTGCTTAGTGTTACTAGTGTTCGTAAAGGTTCTAGGCAAAGG
AAGGTCTGAAGCTAATTGTAGAAGGCTAGGGTATGAGTGAAAGAGGAGGGTTAGAGGATGGGTGATTTTGACTCAGTCATGTGAGTTATAGCCT
AAACTTGCCTGGAAGTGGTAGGACCATCTGTGGGAAAATGCAGGCTTCAAATGTGCTTCACTTTGTACTTTATGTACTTGATGGTGGAGGGTGC
GCTGGCAACACCTTCTTCTGCTTAGAGATGCAGAGAGGCGGCAGTGCTTTCGTTCGAACCATCGCCTAGGGTGCTTTATCAGTGAGCAGTAATC
TCTACTGTAGTTTGGAATTACAGTTTAAAACTCCTCATAACTGATAAACATTACTGTGATTATTTTGGAGAACTGGGTTTGATGGGATGAATTT
TCAAAACAGCTTATTTGAATGTCAACCAGTGGTAAATAGTGAAAAAAAAAAAAAAAACATCAGGAAAACTACTTTTATAAAAAGTGGTGCTGGGT
GCATTTCTTACACTATCTGAGACTTGGCCTTTGATTATTTTAAGTAAATATCTGGCAATTCAGTTTCATTAAATTCTACAGACAAAGTAACCCT
TGTTTCTCTCTTGTGGGGTGGGACTGGTAGATTATTTACACATTATGCCCCATTATTTTCTAACCAGTGCTTAGCATGAATAAAACAGGGACAC
GTCCTAGGGTAATGATTTAATTTTCTAAACTCTCTTTTACATATGGAGCGTATTTATTGTAGTCATATGTGTATGTATGTATATATATATATAT
ATATATATATGTATGTATGTATGTATGTAACTAGGTGGTGTATTATGGACTCTATAAACTTTGGTTTTAAAACAAATCCATTGTGTTATT
CAGAGGCAAAGGAAATTCTGAAGAAGTTTGACAGCAGTGAAAATAGAATTGTTAAGCAAGGTCCTATGTAGGGAGAGAGGAGGGACAGGGGAGA
GAACCTCAAACTCACAGGGATCCTCCTGCCTCTGACTCCAGTGGCTGGTATCACAGGCATGACCACCATTCCAGCCAGTTCATTTTGTTTTTGA
AATGTGGTTTCTCTCTCCCTGTTTGTTTTGTTTTGTTGTTTTGTTTTCCCTTAAGATAGTTTCTCTGAATAGCTTTGGTTGTCTTGGAACTCAC
TCTGTAGACCAGCCTGGCCTCAGTCTCACAGAGATCTACCTGTCTTTGTCTCCTGAGTGCTGGGATTAAAGGCATGTACCACTACTACCTGGCT
GCAGGTTTTATCTTGTTGACGCCAGAGCTTCTGGGTGGGTCTCCTGTGTCACCTCCCATCGTCTTACTGTAGAAACACTGGAAACATTATGTGC
ACTCCAGCTTCCAGCTAGTCAGGATTGCACACAAATGTTCCCACCCACTTAGGCTTCTTACTGGCCCCTTCCTCACTGTCTTAGATTTGTACAT
TGGTATGGGATTTCAGTATACACATCAAGTAGACACTTGGGTGTCGTCCTTTTGGTACACAAATAGCTCATGAGACCTTCAAAGCTTGACTTGC
TGGGTTCTTTATTCCTTCAACAAACATATCACCAGAGTTTTCCTGTTTTAGATCTTGGGCATTAGCAAGTTCTCAGACCTTGTACAGGAGCTGC
AGAAACCCTTAACAGAAGTTCAGCCCATTACAAATTCTCTCAAGGAAACCAAACCTAAGACTAATTAGGGAAAAGGTCAAGTGTCATTTGAGGT
CAGGACTGAATGATAAGAATGTCCCAGCCGTGTAAAGAGTAGAGAGATCCGGGAAGAAATAAACTTGATAATAAACTTGACATGGCTGATGAAT
GGAGAAAAGTGAACCAAGGGAAGAACAAAAGAAGGAGTCAGAAGGGATACTTAGGGTCATGCAGAGTGTGATTTAGAGATTAGACTTTATTCTC
AGACAAGTGGGATGAGCTGAGAAGTGACTGAGTTCAATCTTATGAGAAGATCATGCTTGGTCTGGATTATGGCTCAGCAATAGAGCATTCGTCT
ACTCTGCATTCATGCAGACGGCTTGGGTCTGATCCCCAGCATGGGAAAGGAGAGAAAAGATCACATCTCCTGGTGAAGAACAGGTTGGTGAAGA
GTAGCAGAAACAGAAGATACTGCCATGCTCCTCTGCAGTGATCCTGTTTGGGTGATTCTAGTGAAGGGGAGACGTAGCTGGGTTTAGATGTTG
TCTTTTTGAAGATCTTCTGGATGTGCTAATGAGCTGGATTGTGTGAGGGAGAGGCAGGAAGACGATAAGTGAGAAGGAAGTGGTGGTAGACCAA
GGGAAGAGCTTATAGAAGAGGAAATAAGATTGGTTTTGGGGACTTGCTAAATATGAGATACCTGCCAGATATCTAGTGGTATGAATGAGGGAAG
GTCAGGCCTGCAAACACAGAACTGGGAGCTCCTAGCATTAACAGTGTGTACTGCAGTAGTTTATAGAAAAGGAAGGGATGGTCTAGAACAGAG
CCCTGAGGCAGTTACAGCATTTCGATGAGGAGATGAGTGGAAGACATAGGAGAAAGGCCAGAAACCGTGTGCTGTGGAATCCAGGAACAGGGAG
CTTGTTACATGTCCACTCTGTTAGATGCTGCAAAGGTGTGGATGTAGTAAGAATACATTGGACATGGGTGAGCCAACATCCTTTGACATTGGTG
GCCTTGACTAAGCAGTTTCATTGTCACTTTGGAACCGGAAGCTGATTAGAGAGGATCACAGCGTGAATGGGAAGTGAGCAAGTGAGGGGCAGTA
CTTAGAAGAAATTCTCCTTTGACAGAGGAGTCTGGAAGTGGAGGTGTGGCACGGGAGAGAAGCCGGACCGAGGATAACGGTCTGCTGCTTTTGT
TTGTCTTAATTGTGGAGTGTTGTTTATATGCTGCTGAGAGCAAACGGTAGAAGGGAAATTAATGCTGACTCAGGAGAGATTCATTGCAGGAAAA
TTCTTGAGATGGTTCTGGTGAGACAGGAGGGAGAGAAACTGCCCTTTCATAGAGGAAGGATGCAGTGATGTGTCTATACATAGCTCCTCTGGTC
TTTTTACTTTTAAACACTTAGGTTTTTTCTTGTAATAAAAAATACTCATTTTTATAGACTTCTCAGGAAAGTTCACCACCTTTTAGCTCATCCC
CCAGTCTTCACTAGTCTCCTTTAGACCCCCTGACCTCTCTGAGCACAAGTTGCTTTTTTTCCCTGTACTCCATATTATGCCTTCTTCCAGACTG
AATTCATTTATAAGCTTTGGGTGATGTAAATAAAAAATTTAACATCAATTTAAACTTTTGTGTCAACAGATGAAGCAAAAAATTTATTGCCATA
TCTTGGACCCAACAAAATGCGCGATTGTTTCTGCACTATAAATTTGGACCAGGAAGAAGTTTATCGCACCCAGGTTGTTGAAAAGTCTTTAAGG
TTGGTAGAAAAATTAGAAATTATTCATTTGATGTATATTCATGGTTTTATGTATTTTCCAGATTTTTATCAACAAATTGAGTTTCTTGATATTG
AAGCTAATATTTTTTATTTAAAGGTTTTGTATTCTATTATGAATTTATTTTTTAGATTTATAGAATGTAAGCATTTAAAGAGGCCTTGAATGTC
AGTAAGCTGCACTGACAACATTGATCTCCTTAGCAGTAGTTCTGGGAAGTGGTCATGGGGCATCTACTTCATAATGGTTCAGTCACCAAGAAGT
TCACACCTCCTAAGTAGGCTGCTTGGTCTTTGAACTCTTCTGACTCAGAAAGTGCTTATGTTTAATTGGTTAGTGATTATTAAAGTGACATCCA
GTCACGTGCCCAGCGCTTGCTCAGTTCTGGGTTCTGTTCACTCATGTCTCTAAGAGTGACCCCAGTGAAGTGCTTGCTCTCTCATGTGGCCTTT
CATTGCCTTAGGAAGTAGTTTTTCTTAGTTGTCCTAGCTCTGTCCCTTAGATTTCTGGGGAACAATTTTAGTCCATCTTTTATGTGACAGCATT
AAATGTTTGAAAACAACTATTATAAGCGTTCAATGTGCTCTCTAGGCTAAATAGTGCCTATTTGTTTGAGCTTTCCTCAAAGCACATCATTTTT
ACTTCTCCAGAGAACATATTAGCTCAAAGTTCACACAAGTTGAAGCTAGAGAGGTCGATGGCTTTCTTGGTAAAGTACTTGCTGCACAAATAGG
AGGTCAAGTGTTACATCCCCAGTACCTATGTAAGAAAGCCAGGTACAGTGGCTCCCATATAGTTCCCAGTGCTGGGGACATGGAGGGAGGAGGG
TCCCAGGAACCTGCTGGCCAGCCAGTGTAGACAAACCGTTTAACAAGAGTCCTGTCTCAAAGAATAAGGTAGAAAATGATTGAGAAAGGTGATG
GATGTTAACCTCTGGGCTACACAAACACACCCTTTCTCCGCATCTGCATAGATACAAGTTACTTACTAATGGATTATCAGGGAATAAGCTCTTG
GATTGTTTTTATCTGTGAAAGTGTAATTATTCTTTGAAAGTACTGCATACAGCAAATTCTTTGCCTCCTCTGCCTTGTAGCAGTGTTTGTGTTT
GTAATTTTGATATAGAACTGTGCTAAAACCAGGTGTCATGATACAGGCTTTAAATCCCAGCATTTGTGAGGCAGAGCTGGTCAGGTCTCTGCTG
AGGTTGAGGCCAGACTGGTTCACATAGCAAGTCCCAGGCCAGTCGGGCTACATAAGGAGAGTCTATCTTTAAAAAAAAAAAGAACCGAACCAAA
CCAAACCAAACCACCACCAAACTGCTGAAAGAAAGTCTTCAGAGACAAAGCATGGAGGATTCTGGGACTTGTTGGGACAAGCATGGTGAATGAA
ACAGTTGTCGAACTGTATTTTATCCCATTGGATTCTGGAGGATGCTATGGTACCTTGTTACCCTCTCCCACACACTTGCCTGTGTTTTCCTGTG
ACATTTGCCTGTGTCTCTTTCCTGTTCTTTCTTTGTCTTTTCTCCTCTGCCCTTCCTTCCCTTTTCCTTTCCTCTTCTCTATGCGGGGTCTAGC
CTTGTAGCCCAGGTTGGCATTGAACTCTTACTCCTACTTCAGCCTCACATATTGGTGGTGTAGGCAGGCCCCTCTGCATAGCTCTTTGTCATTG
GGTTCTTACAATTTTGATCTCTTCATAAGAAAACTATATAGAACTAAAAGTAACCCTTGTAGTGGCTCCGTCAGTGGGTGAAGGAACCAGCTGT
CAAGCTTGAAACTTGAGGTCAGTACCCAGAGCCCACATGGTGGAAAGAGAGGACCAACTCCCACAGGTTGCTCTCTGACTTCACATGAGCGCCC
TCCTCAAAAAATGAGAATAGTACATAATTAAAAACAAAACAAACAACTAAAGGTGCCTTAGTAGCCCAAAAATATTGAGAGTAATGAATTTCAA
AGATTTTGTCACAAGCCTTATGCCCATATTTAGAATCTTAATTATTTTTCACACTTGTGCATTCAGAGTCACAGATGGCCTTTTTCTTTGTTTA
TGAATGATGAAATGTCACGGGAAGGCTGCATGATGTGTCATATAATGAAGGAAGGTAAAAGCACAGCTGGGATTTGAGACCTGAAAATATTTAA
ATTTCAGTTTGTTACAATTTTATATCACAAGGTAATCAGTGATTACAAAATTCAATAGTAATTTTGTAAATTGAGTCCATAAATTGAGTACTTA
TAGTTTGTAATATCTAGCCATATATGAGAAAATAACCCTTAACCTTTCTGAACGTTTGTATAGTGGAAAAATGATGAAACCAGTTTTCTTTATT
TCTTTCCACCTTTAAAAAGAAAATCATTTGAAAGATAATTTCAAGCTAGCTGTGTCACTGCCTTAGATCGTAAGGTATAGCTAGCTAAACTAG
ATAATTCTTGCATTCTGAATGCCTCCAATCTTACTTTCTAGAATAGGGCAAAAATAATCCTTCTTCAACTTGATTTTATTATAACGTTCTTAAT
ACTTGTCTAAATTTTGATCAACCATTAAATTGGAAGTATCTACATTGTAGGTCTTTCTAACTTTTTCCACCTTTGGAATTTTTTCTTCAGTTTT
TATAACTCTGAATTATAAAACAGGAAATACTTTAGAATTGTAAAAAGATTTAAGAGATTTTGCTTCTAAATATCTCTAAATCAGAGCAAGTGCT
TAATAATTAAGGATTTTAAATTTTAAGAAGATTCAGATATTTCATAAAGGAAGATATACAAGTATCTCCAAGACACATGGAAAGAGATCCAGTT
CCATGAGCCACCAGGAAAATACAGTTTAAAACCATTTTTGTCACTATTAGGACATAATCTGTAATGATAGAACTTTCCCCAGTTGACTGGCTGT
CTGAAGGGTGATTGCAGAGGGTACAGGGAAATTTCTGGGGGATAGGTGATAGGTTTTATGTTTAATTCTTTCTCTGAAAATTCCATACGTAAAT

GTTTTGTTTGTAACTCGTACCCACTCCGTTACCCTCCCTCATCTGATTCCCATGCACACTCTCTGAATTCCTTCTAGCAAGCTCTCCTGCTCTC
ATGTGTTTGTGGGTATGTATGGGACCCACTGAGTTTAATTAGGGCTGCTTGCATACGGGTAGGTGGAGCATGATGCACTGGGGCATGGGCAACA
AACAAATGGCTACACCACTGAGGAAAATGATTTCCCCTTTCCAGTAGCCACTAACTTCCCCAGCCATGATAGGTCAGTCAGTGAAGTGCTTGTC
GTGAAAGCATTGAGAACTTCAGTTTGGACAGTTAGCACTCATGTAGAGAGCCAGACATTAGTGGTGTAATCCCAGAGCTGAGGTGTGGAGCTAA
GAAGATCCTTGGGACTTGCTGGCCAGTCCATATAGCCACGTACATCAGTGGTTCAGCTAGAAACCCTGTGGTTTGGTTTGGTTTGGTTTGGTTT
TTTAAAATAAGGTAAAGATAGATGAAGGAAGATGCTTAATATCCACTTCTGATCTCTATACTGATGCACACATGGGAGTATGCACACCCACACA
CAGGTCACACAGGTGCACACACAGGTGCACACAAGTCAAATCACTGAGACTGAAAAATTAGCTCAGTCTTGTTAGACAAGCATGAAGACCTGAG
TTTGGTTCCTCGGCACACATAAAACTGTATTGCAGTTGTTTGAAATGAGCTGGGCTTATATGAACAGGAAGGTCCCTGGAACTAGGTAGCCAGC
AGTGTGGCCAGACAGGGACTTTCAGATTCAGGGAAAGACCCTGTATCAAAAAATTAGGTGATGACACTCAACTAGGTGATTGACCTCTGGCCTT
TATACTCAAAACAGTCACACTTGTACACATATGTATACATATACAAAGAAATCATATCACTGGGCTAAGAATATAACTCAGTAAAAGAGCACTA
GTGTTATAAAAGTTAAAATGTATACAGTATTTAGCTTAATCAGAATGGGGGGAGATGTAAAAGAATTTTAATCCAGCATCATGCCTGTTCTGGC
AAGGGATCACATCCAAAGCCTTCTAGGACTCTGTGATCTGGCTGGAGTACAGGCTCACCCTTAGCACACAACTTTAATCCTAAACAACGAAGGT
AAAGTTAATTTGTAGAAGGAAGCAGCCGTGAGGGGCAGACAAAATGACAAGTCAGAGAAAGATTTGACAGAATGAGTCAGTGATGGCATATGCT
CAGCTCTCACAACATGAGAAAGAGAGGTGACTTAAGAGAGCAGCATAGAGGGGTGGGGAGAATTTTACCAAGGTAGGTTGCAGATAAAAGACAG
AGAATAAGAAGGAGCCAGAAGATTAGAACAGATTGCCAGAGTTAGTTTGAGGCCAAGCAGAGCAATTCAGTCAGATGCTAAGAGGAGCCAGTGT
GAATCAGTCAGCTTGGAGAGGAGTTTGGTTCAGAACAGCTGAGTTGAACCAGCCAGCCAGAGTTGAAAGAGCTGAACAGATGAGATTATTCAAT
AGTAAGCCTCTGAAACAACAACTGTATCTGGCAAATAAAAGATACATTTACATACTTGCATAGCATACACAAGCTCCCTGGCTCAAACCTCTGG
AACCCACCCCCACTGCTCAGCTATCTAAGGTGCTAACAGTATTCTATATTTTGATTGAGGTAGAAGCTACACAGGTTTGTAATTTTATCAAAGA
CCACCAGCCTCTATAGATCAGATTTGATATTATATAATTCAAAATTAACTCCGGAAAGATAATAAAAATGCTTAATGGTCTATTTCTAATATAA
TTAAATATTTTATATAGCATTATTCATTTTAGATATTCAGTATTATACAGCTGTTGCCGGTTATATCTTTCTAAGATAATAATACGAATGGCTT
TGTCTTGACTCTCATTCATGTCAGCTTTGGGTGAGCATGGCTAGGCAGGTACTAACTCTTCTGTTCACAGGACCTTCTGCAAAGCTGTATGTTT
AGAATTCATTTGGCACCTAAAGTCTCCTCAGTTCACCTCGATTTGTATAGAATTTGTTTGAAATTCTCAAGAATTTTAGTTTATAATTTCATGG
ATGTTTGTTGAAAGTAAAATTTGAATGTGATTTTATTATTGGTACCATTTTAATAGTGATAATAAATATATATTATTTAATATAATGAGATTTC
TCTTTTCTCTCTAGTCCATATTTCAGTGAAGAATTTTATTTTGAGATTCCAAGAACTTTCCAGTATTTGTCTTTTTATGTTTATGATAAAAATG
TTTTACAAAGAGATCTTCGTATAGGTAGGTACTATTCATAATTATTTATAATTACAACATTAGTATTATGTTCATTCTTTCTGTAAGTCTTTGA
TATCTGCTTATTAAAGTAAAACCCATCAGGCATAGACGTTCACACCAAGAGACTGGCAGAAGGTTGCTGTCTGTCCGTCCATCTCAGGCTCTCT
ATTGTGACATAGAGTTGCTGTCCATCTCAGGCTCTCTGAGTTACAGAGTCAGACTTCCCATCTAGAGAAAAAGAAAACCAAACAAATATTTTTA
TTAAAAAGCAAATACTAATTTTAAGAAAAACGATTTGTAGTTAAAAACAAACCTATAGGGCATAAGCAGATAATTTACTTCTGAAATGTTATAC
CCGGGGTCTGGGTTGTCCTTTGGGAAGATGAAGATGTCAGGTGTATTTCCTGTGATCTGAAACATATAGTAGGAAAGACTCGTTCCTGTGCGGC
TTTTAGGCCATGCTTGGTTAAATAGTCTTAAGTTGAGGCAAGGTGGAAGTTGAGTCACTGCTTGTAACTGCACCGATGTGATTTTTAGAATGTG
GGCATGAATTGCTCAAAGGAATAAGCATCCACATAAATATTTTAAAACCCTCCCTTTTAAGGTTGAGGACTTGTCTTGTTTTCCCTTCATTTCT
CAGCTTAAAATTCAATTTAAAAGCCCTGAAGTACATCTTTCTAGTGTCACTTTCTACAATTCTAACTGTCACACAAAGATTTTTTATCTTTGTA
TTAGATTTCACTCAAAATATTTAAAAGAAAACAGATTCATAGGTTTAAAGATTTTTGTGTTTTGAATTTTGTGTGTTAATAGACTGATTGGATT
TTCAGTCTCTTGAGGACTATTGCTGCAGTTGCCATTCTACTACAAATCTGGTTCCGTACTTTAATGTTTGTTCTTTAAATTATACATCTGAAAA
GCCAGGCGTGGTGGCGCACGCCTTTAATCCCAGCCCTTGGGAGGCAGAGACAGGTGGATTTCTGAATTCGAGGCCAGCCTAGTCTACAGAGTGA
GTTCCAGGACAGCTAGGGCTACACAGAGAAACCCTGTCTCAGGTATTGAGTTTTAAGTTATAAAGAGCTAAACATAAAACTGTAATATGTTTTT
AAAAGTTTAAGTAACAACTTTATTAAGGTATAAGTTATATACCACAAAATTTTTTGTTTTAAAGTATATTATATTTAAAACTTATTTTTTAAAG
ACTTAGAGAAGGGATCATTGTACATTTACATATTATACACATACACATGCACATATCAGAGCAAAACATACGAAAAATGATAAGATTTTTGGAA
ATCCTGGGTAAAGAAAATAGTTTTATGTAGTGTTCTTGGCAGCTGTTTTTTAAATTTGAAATTCTTTCTCCCCCCTCCCCTTTTTTGAGACAG
GGTCTTTCTTTACAGCCCTGGCTGTCTTAGAATGCACCATGTAGACCAGGCTGGCCTAGTGCTGGGATTATCAAGATAAAATATTTGTAAAATT
TGAAATCACACAGTATGACAATTGTATAATCACCACCTGCTTCCAGAAAGAAAAAAAATACACACACATACACGCACATATGTTGTTCTGTTTG
TTTTTCTATCTTCCTTTTCACTTGATAATTTAAAGTTGATACAGCTTCACATAAAAATTTATCATTTCTGTTTTCAACTGTTGAACTAAAAGTA
AGGTTATGTTGTAAGACATAACATACAGTTTGGGATACTTAAAAGGAAAGTATGTGTGGAGCAGAGACTGGGGGAACAACCATGCAGAGACTGC
CCCACCTGGGGACCCATCCCATAAACAACCACCAAACCCAGACACTATTGCAGATGCCAGCAAGAGCTTGCTGACAGGAGCCTGATATAGCTGC
CTCCTGAGAGGCTCTGCCGGTGCCTGGCAAATACAGAGGTGGATGCTCACAGCCATCCATTGGACAGAGCACAGGGTCTCCAATGAAGGAGCTA
GAGAAAGGACCCAAGGAGCTGAAGGGATTTGAAGCCCATAGGAGGAACAACAATATGAACTAACCAGTACCCCCAGATCTCCCAGGGAATAAA
CCACCAACCAAAGAAAACACATGGTAGGACTCATAGGTCCCGCTGCATATGTAGCAGAGGATGGCCTAGTTGGTCATCAGTGGAAGGAGAGGCC
CTTGGTCCTGTGAAGGTTCGTTGCCCCAGTATAGGGGAATGCCAGGGCCAGGAAGCAGGAGTGGGGGGTTGGTGAGCTGGGGGAGGGGGGAAGG
ATGGGGTTTTTTGGAGGGGAAACCAGGAAAGGGGATAACATTTGAAATGTAAATAAAGAAAATATCTAATAAAAAAAATCAAAAAAAAAAAAA
AGACATAACCTACCGTTGGGATACTTAAAAGGAAAGTATTTTTAAAACAAGGAAAGACGTGAATTACTCTTAAACTACCCTGTATCTCCTTTGT
TGGAGCTTTTGTGCGGTCTTTGAATGGTTAGTCACATGCAAAACGATGCTTCCCAGGGCTTGCATTGAGGAAGGAAGTGCTTTGCCCCAGCACA
CCAAGAGCTTCATCTGAACATTATTTGCTTCTTCTCTCCTTTCATCCTCCTTTGTTCACGGTATTTCCTCTTTCCCTGAGACACAAGCGCTTTA
GGGAGCAGCTTTGATGGCTAAAGCAGTAGAGCTAGCTTAGTAATGTTTGATAAAATGATCTTTGAGGTACTTTGCACATTTGTTTAGTAATAGGT
AAGATACTGTTTGTCCTTTCACTTAATTGGAGCATATAACTTCTTATTAAATGCAGGTGTTACTGCTCAGAATTAACAGCACACACACTTCATC
CACAGTGCTTCACAACCTGGAAAATTATATAGCATTGCCATTTAGATTCTGTTTTTATCCTGAATATTAATCTGAGGAAGTGCTAACACACCAT
AGTTACATTAAGTCCAGCTGAGTCCTTCTACTGCCCTGATTCAGAATGACCCACAAAAGGGCCTTCCAGTGGGCAAGCAGAAACAGGACATTTC
TTCTTTAAGGTATAAGAAAAAACAAACTTTATAGAAACAAATTTTTTAATTCTGTAATCTCAGCACTCAGAAGACTAAAGCAGGAGGATTACCA
TGAGTTTAGGTCTATCTTGGGCTAAATCGCAAGTACCAGGCTAGCCAGGGCTACATAGCAACATCCAGTTTCAAAAAAAGGAGTAACGGTGGAT
TTTTATATCAGCACATACAAATTAAAATATTTTCTGTAAAATATATAACAATGCTTATGAACCATAAGGTTATATAAACTATGGTTTCTCATCA
CTTTATTTATTTTCTGTAGGAAAAGTAGCCATCAAAAAAGAAGACTTGTGCAGTCATAGTGGTAAAGAAACTTGGTTTTCACTGCAGCCGATTG
ACTCAAATTCAGAAGTTCAGGTAAGTTAAATAATCAGGAGATTATAACATGAAAAACCAGTGAAAACCAACTAATTATACTAGTTTATACTGAT
AGAACTTGTAATACCTTATTTTACATTCTAATACCAAACATAGACCTTAAAGTAATAGAGAGCTGGAAGGAAATGGCTTTTCCATTTGGATTTT
TTTTTATTTTATGGATATATAAGTACAGTGTAACTGTCTTCAGACACACTTGAAGAGAGTGCCAAATCCCATTACAGATGGTTGTGAGCCACCA
TGTAGTTGCTGAGAATTGAACTCAGGACCTCTGGAAGAGCAGTCAGTGCTTTTAACTGCTGATCCATCTCTCCAGCCCTCGAGAACCAACTCTC
ATCTCTAACTTCCATTCATGTGCACGGCACCTATATACATACATATATATACATGTATCCATACAGGAATTAACCAGAAAATAATAAATTCTCA
TTTGAACGCATTTACTCCATTTGTAATAAACTAGATTTGTGGAGAAAAAAATGTTCCTTATTTAAACCATGCCTGAATCTGCAATGCATAGCCT
TCATTCCTACCTCCCCTCCTGTTTACCTCCTTTTATTTGAAGGGGTATAATTATTCTTGTTAATCTATTCTTTTTCCCCTTGCCACATAAAGG
CCTTGTATAAATTCTATATGTGAACAGAAATGTATTGTTGAAGTTTCTAAAAAGCTTAAGTCTCTATGACTTAAAAATTAATTCTAAGGGAATC
AATCTCTCTCTCTCTCTCTCTCTCTCTCTCTTATTTCTTTTCTTTTTTTTGTAAACTTATTAACTATGGTAATGATTGTGTAGCCATTCACAA
GGGCATAACTCCAGGCAGGATTCTTTGTCTCTTAAGCAGGCTATAATTTGCTGCTAAGACTCAGAAGTTTAAAACAAAGAGACAAAAAGCATAC
CCACAGATACTTTGCAAATAAAATACGTCTCCATTTCTTCATAACCTTTATGCAGTCTCTGTGATTAAATTCTAAAAAAAAAAAAAAAAAAAG
TATTGTGTGCAAAAATCCCTTCTTAAATACAGAATATAGCTAAGTACTTTTTCTGTTTTATCTACTCTACCCCGTTTTAATCTTCTGTCTGTCC
ATTTGACCATATGTATCATTCAGCTCTCAGGAAGAGCATTGTTGGTGCCAAGGGAGAAGCCATGTGAGGAAGTAGAATGGGCTGATGGTGTTTT

CATATGTTCAGTTTAATGACCTTGAGCTTCATTTCTGTAAAAGGAGAATAAAATTCACCATGCTTGACTAATATGGATCGAGAATACTTTAAAA
CTTGATTTAGGGCTGGGTTGTAGCTCAGTTGGTAGAGTGTTTGGCTCGCATGTACAAAGTCCTGAGTGCCATCCGCAGTACCACAGAAACTGAA
TGTTGTCCACGCACATTTGTCACCTCAGCACCTAGGAAGTGAAGGCCGCCAGGCTGCATAAACCCTGTCTTTAAAACAAACAAACAAACAAAAA
CCTGTTTGCTTCTATACAGATGTAAATTTATTACCACTACTCAGTCTGGTGGTGCCCTAGTTAGGGTTTCTGTTGCTGCAGTGAAACACCATGG
CCAAAAGCAAGTTAAGGAAGAAAGGGTTTAGTCGGCTTACGCGTCAGTTTCCAAAAAAGTCAGGACAGGAACTCAAACAGGGCAGGAACCTGAA
GACAGAAGCCGATTGCAGAGGCCATGGAGGAGTGCTGCTTACTGACAGCCTGCTTTCTCACAGAACCCAGGTTCACAGACCCAGGGATGGCACA
CCCTACCCACAATGGGCTGGGCCTTCCCCCATCAATCACTAAGAATCTTACAGCCACAGCTGGATCTTATGGAGGCATTTTCTTTCTTTCTTTT
TTTTAAGATTTATTTATTTTATGTATGTGAGTACACTGTAGCTGTACAGATGGTTGTGAGCCTTCATGTGGTTGTTGGGAATTGAATTTTAGGA
TCTCTGCTCACTCAGTCCCTGCTCGCTCCGGCCCAAAGATTTATTTATTATACATAAGTACACTGTAGCTGTCTTCAGACACACCAGAAGAGGG
CATCAGATCTCATTATAGATAGTTGTGAGCCACCATGTGGTTGCTGGGATTTGAACTCAGGACCTTCGGAAGAGCACTCAGTGCTCTTAACCAC
TGAGCCATCTTGCCAGCCCCCATGGAGGCATTTTCTCAGTTGAAGTTTCCTCTTTTCAAATAGTTCTAGCTTGAAGATAGTTGACTTAAAACTA
GCCAACACGGGTGGCTTTCTAATATAGCTTTACCAGATTATCCATTTTCAGTTTTTGACACATGACTTAATACATTTTCCATCTACGCCCACAT
GGTGTCAGTCATTTGAGTATGCTGCTCATGTGTACTTGAGGTTGGCTTCGATCTCACAGTGCTCTCTTAATATTGGGATTCTAGGCGTACACCA
CTGCACCCATCTAATCTGTCAGTGATTTGAACAAGAGGAAAGAGAAGAAGAGGCTTGTAAGATTTTGATCTGAAATGGAATTACTTAGAAGATT
CATTACAGTTTATTTATTTATTTATTTATTTAGTACGTTCTTAATGACCAGCATACATTTTTCTAGATTTAAGAATTTGATTCTGGGGGCTGGC
GAGATGGCTCAGGTGGTAAGAGCACTGAGTGCTTTTCCGAAGGTCCTGAGTTCAAATCCCAGCAACCACATGGTGGCTCACAACCACCCGTGAT
GAGATCTGACGCCCTCTTCTGGTATGTCTGAAGATAGCTACAGTGTATATATTAATAATAGTAAATCTTTGGGCTGGAGTGAGCAGGGACTGAG
TGAGTAGGGTTCAACGAGGACCTGACCAGAGCGAGTAGAGGTCCTAAAATTCAATTCCCAACAATCACATGAAGGCTTACAACCATCTGTACAG
TGACAGTATACTCACATACATAAAATAAATAAATCCTTTTAAAAAAAGATTTTGATTCTGAAAATATAGAGCTCTATGTGTTCTTTGTGTAAAT
CTTGGAGGTGATACCAGAAACTAATACTAGAGCACAGGCTTTATCTGAGAGTGTATCTATAAAGCCATTATGTTTTATATATAGTATTGGCATT
TACATTTTTAGTACTGTTTGCTTCCGTGCCCATTAGTCATTAGCCTTTCCAGAACTTTTATCTTAAATGGTAATTAGTAAGACTTACCCACTAC
TTAAAATAGATTTTAAAAGAAAAATGCTGTAGGAGGTGGGAGGGAGGGATAATACTTTTCAGGGTAATATGCTATCATTGGGAATATTATTATT
TAGCCACAAACAATCTGAAAATACCACACTAGCCTTGTGAGTATAAAAGATTTGAAAACAGCTTGAAACTAATATAGAGCCTACTCAGGTTTTG
TTGTTTACCCTGTATAAGTTTTATAATATCTTTTAAAGACATGCAAAAAGAAAAATAGATGGCAGCATAGAAAGCAATGAGATTACATTTAGCC
AGGACTCAATCTAATGATTACTTTTAGTAATTATAAAATATGTACCAAGTATAGCCGTGAGTACTTAATATACATTATCTCATTTAAGGCCCAT
AGTAGCACTATGAGGTAGGTATATTAACCTCATTTTGCAGATTATATTAATAGGATTAAAGGACTTAGTCATAGAAGATGTGATCCCATTAGAG
ATCTGCCTAACTCCTAGTCACAGCACTGTGCTGTCTTTCAGTGACGTGTACTCTTAGTTATAGAAAGAATTCAACAGATTAGAATTGCTCAGGG
AGCATCAAAATATAAGAACAGAAGCCTACCCAAATTAGTGGGCAAAGGGGAATGCATTAGAAAGTGTGTAGGGAGCTGTTTGAAGTCAAATTAC
AGGAACTTCCTCGGGAATGTGAGCTACATAGTTCCCAGACATTTGCACAGATACTTCGTGGTAATGGCAGTTAGGTTCTGACAGTAGCACACAA
GATAGAAATTCACATAAGTTAAAAATGATCCTTGAAGTGACTAAGTCTTCATAACATGGTTGACTGCCACAGAGAACATTAGTTTTTATCTGGG
GCTTTGATGAACAAACGCTGTGTAGTGTCATTCTTAGCAGTAGCCCCAACTCGGCAGCAATGTACTCTTAGTTATAGAAGGTAAGTGGCCCCAGAT
GGTTGATTTTTTTCATGTTTGTGGCTTTTCATTTTTCATTTTGAAAAAGGAATAGTTATGTTTTCTTCTTTCACTCTCTTTTAAATAACTATAT
ACTTGCAAAATAAAGAGTGTAGCCGTGAATTAGTTAAACCGCTTTGGCTCCTAGCAGGTTGCGCTCTCACTGTACCCGCCCAAGAGCTCAGATT
CCCAAATAAAAGACAAACACACACATGCCAGTTAATTTTGATATGCTTTGACTAGCTGAATGGCTGGACACTTCTAAACCTCCCCATGGCTAGC
AAACACTCCCCTCTGATATTTCTGAGTTAACATCTTTAAAAATCTGTATTTCATCTCTGCTACCCCAGACCCAAGTGGGGAAGTGGCCCCAGAT
ACTTATTTGCCTGCAGGCCTATAAGTTTCATCTTTTTGCTTCCCCATCCTTGGGTCCCTTGTCCACACAAGTCTCGCCCCATCTCCCTGTCCAA
CCATTGGCTGCACAGCAATTCTTCATTATCAGTCAAAGCCAGTAGGGGGCAGGAATCCTCAGGTATGAAGAAAGCATGACTTTTGGAAGCCAAA
ATAAGACCAAACATTAGAACCAATTTCCAACAAAAGAGAAAAAAGATTCTGGGTGTGTGTGCAGGTGCCTGTGTATGTGTGAGCTTGTATGTAT
TTAGAGAAAGAATAACCTTGGGTGTCATTCTTAAAGATACTTCAACTCGGTTTTCAGACAGGGTCTCTCAGTGGGACCTAGAGATCACTATTGC
TAGGCTCGCTGGTCAGCAAGTCCCAGTGATCTACCTGTCTCTGCCTCCCTAGGACTTCCAAGTACAACACTACAACCATCTTTGTTAAAAATTA
TTTCTTTTTTTTTTTTGAGATTATACTATAGTTATATTATTTCCCCTTTCCTCTTTTCCAAGCCCTCCCATATATCCCTCATTGTTGTTTTTCAAA
TTTATGACTTCTTTTTTCATTAAATGTTGTTAGGGATGTGTGTGTGTATGTCGGTGTGTGTGTGGGTATGGGTGTGTGTGTGTGTGTGCTCG
CGTGTGCGTGCGCGTGCGTGCGCATGTGTGCATATATTNNNNNNNNNNNNNNNNNNNNCGTGCGCATGTGTGCATATATTCTTAGCATGTACTA
CCACCTATTTAATCTGTATAAGGCTGGGCTGACTGTTTGGTGTCAGATGCCCAATTGGTGTAGCCTTCTGGGTAAGGGCTTCCCCCGCCTGGGC
TACCTCACCCCAGCCCACAAAGGCGTGTCTGTTGTCATCCTTGTTCCGCTTGTATTTAGGCAGTCATTTCTGTGAAACTTCATGGGTGTACCTT
CTGACATTACTGGGAGACATAATTCCATAGCAAACTCTCTGATCCTCTGGCTCTCACAGTCTCTCCACCCCTCACTCCCCTTTCACAATGATCC
TTAGGTGCAGGAGTTGTATTGTTGATGAATCTGTTGGGACTGGGTTCCACGGCTCTGCATTTTGTTGGTTGCGGTTTTCTGTAATGTTTCTAGT
CCTTTGTAAAGAGAAGTTCCCTTGATATGCAGGATGAGGATATAAGGGCAGATATTCAGAATGTATTAGATACCCATCTTTATTTATACACCTG
TTTTCCTGGGTGGCTGGTGGGAGTTACTCATCTTCAGGCAGGCATGGCAGACGCTTTAGCAATTGAGCTATCTCCTCACTTAATGATTCCTAAA
GATGTCAACCATTCTTTTTATATGCCTAATGAGAGTACATATCTCTTCCTTTGTTTCTTTCTGTGAGTTTACTCTTAGTGCCTCTTGTAAAATG
CTATATTCATCTTTAAGTCTCTTTGTCCATATACCTTCCTCATCCTCAAAGATCTGACTCAATTTACAGAGAGAAGTTAGCTAAATTTTTGTCA
CTGTCCACTAAAGTCTAATGAGGTTGGAGACATTGCAGGGCAGTTCATTCTGGAGTCTGGGTTAGGCCCGTTTGTTTAGGGGATTGAGTGGATG
AAATGATCAGCATCTTTATCTCGGAGAGGAAGCAGTTTAGTTATCTGCCATTACCACTAATTAGTATTTGTAACTCAAATCCGTACCGATTTGT
TGGTGGAAGATCACTTATGGAATGAGGACCTCGGTGTAAAGGACCACGTGTCTGTGGAGATCCAGGAAGTGACACGTGTAAATGTCGGTCACTC
CTTGAGTGAGGAGCTTCACTAGTAACTCCCATTTCATACCACGCACTTGATTGTTATCTTAGCCTTTTACTTTATCTCTTGCTTATTGGACTTA
CTGATTATTTTCTTCTTAGAAGCTCATGGTAGCAGGATTTAATGAGTGCATTTTCTACCTTTTTGGACAGAATTTTAATTAAAAAAATACTTTA
TGTGTATGTATGTTTTGCCTGCATGTATGTCTGCACCACATGTGTGCCTAGTGTCTGTGAAAGCCAGGTGTTGGACCCTTTTAAACTGGGGTTT
CAGACAGTTATGAAATGCCTTGGGGGTGTTGGAACCAAGGTCCTCTGCAAAAGCAAGCAGTGCTCTTAAGTGCTGAGCCATGTCTTCAGCTCCT
TGGCAGGATTTTTAGAATATTTATTGTCTGTGTCTGTGCCTGAGTGTATTAGGGGCAGCACGTGTGTGCAAAGCCCACAGAAGTCAAA
AACTGGCATCCGATCCCCTGGGGGGCAGGAGTCGGATGTGGTTGAGAGTCCACGCTGGGTTCTGGGAGTCAAATCTGAGTCTTCTACAAGAGCA
GTGCTTGCTGTCTGTCAACTGCTGAGCCATTTCTTCAGCCCCTTTTCTACCTTTTTAATAAAATACAAATCTTTTTCTTGACTCTGTTTTTTGC
CATTTTCCCCTCTGACATGAACCCTTTTCTTTTGAAACCATTGTAGTGTGCCTTCAGACTCGCTTCTTGGGACTTGATGCCCCTAAGCAAATGG
GCACGTCACTTTTATCAGGGCTCCACTGGCTGCCTGCTGCTCTGGTTTTGAAGCGTTCTCTTCCTTAGGCTCCAGTCCTGGTTATGATCCTGGC
TGTCAGTCTGTTCCAGTTGGTGTACATTTTCTTTATTCTCTTCCATACAAGTGATGATAATACAGCCATCCTCTTAGCTGTGAGATGCTGAAAC
TCACACCTTATAAGCATTGTTCCATTCTTTATTTCCTAGGTACCTCGATAAAAAACATGCTTTGCATAAGACTGTTGATTATGGGTGGGGTCTC
ACACAACATGTACAGGCAGCAAACCCACATGTTATGCCAGATGCAATGTTAGTTATGTCCTTTCGATGCAATTACTTAGTAAGTCTTATCCAAC
AGGATAAGCTTGACCATCTGGATCATACTGTAAGTTATCGATCGGTATATACTTTTTCTTAATGGCCTTTGTTTTACTGTTTTGTTTTTTTCCG
AGACAGAGTTTCTCTGTGTAGTCCTGGCTGTCCTGGAACTCACTCTGTAGACCAGGCTGGCCTCGAACTCAGAAATCCGCCTGCCTCTCGAGTG
CTGGAATTAAAGACGTGCACCACCACTGTTTTAAATAGCCAGTTAAGAAGAAATCAAGACATTAAACACATGTTCAGTTAAGGGATCATAATAT
AAAAGCATAATTCATTATTATTATTATAGATTGATTTTAAAACTTTGTGAATTTGTATATGGGAAGTAACAGAAATGAGCCATTCTATTTCTTT
TTAGATTTTTTTATTTTTTTGAAAAAAGGTCTCACTATATAGTCTTGATTGGCCTGGAACTCACTGTGCAGACAAATTCAGATCTGCTTACTTC
TACCTCCTCCTGAATGCTGGAACTAATGACATGTGTGGGCCACTGTGCCCCACTCTTTATCTCATTATTAAATTATTATTTAAGGAGAAAAAAA
TCTTGCCATTAATATAAGAGATATTATAAAGTAAAGTTTTGTCTTTCATCTGACAAGCAGTTGTGTCTAAAATTATTTAGAGGCAATTTCTATA

ACTAAAGCTGTCTTAGCTGCTGTAGCGATGCATGATGCATGCCTGTAGCTCCAGCCACTCCAGAAACTGAACAGCTTAGGCAGTGTAGCCAGAC
CTGAACTCAAAACAACCAGTGAAACTCTGTCGGGAGCCATAACGTCGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGTTAGTTGGTTTA
TTTGTTCCTCGCCTCATAAGTTTTTTAAACCAATTGAAACATACAGAGTTCTTTTTTTATTTGTCTCTAAGGTCTGTGTGTTTGTATGAGTATCT
ACATGTGTGCATGTGCACCGTATGCCTATTTGGTACTCTTGGAATCCAGAAGAAGCATCGGGTGTCCGGGAGCTGGAGTTACAGACATTTATGA
TTGGCTGTGTGGTGCTGGGGTCCTCTGTGGGAGCAGCCAGTGTTCTTAACCAGAGAGCAGTCTCATGCTGAAACAGTCTCAGTCATTTTTATGA
GGAAATTCTCAATATTTAAAATGTTCTATGATTTAAAGACTATTTAGATGTGAGAGGATTTTATCTTTATGCATTATTTTTTGCCTGTTTTTAC
AAACCTGTTTTCTGTGCATTTTTTGATACCAGGAGATAGCAGCTGCACTAAGGTTCCTTTTTATCTTTTCAGCTGTCTCACTAGTGCTTTGGTA
TGCTGTCTTCTTATTTATCCAACTGATATGTTTTTAGGAGATTTTGAATCTGTAACGTAATGTCTTTCACAGGTCTTAGAAAATTTAAAGCAAT
TCTCTCTGGATTCTCCCGTCTCTGACTTTCTGTACTGGGATTCCAGGCTCCCTGTACTAGAACCAGACTGTTGTGTATGTGTCTTATGTCTCCT
AAGCGCTCCCCTCCTCTGTACTTCATCATGAACATTTTCTATTGATGAGCCTTTCACTCCTGTTTATTCTCCTTTAGCTGTGGCTGATCTGATG
TTAGATATATCTCATTTCAGTTACTTTAGTACTTAGCTCTAAAGTTATCATTTAATTCATTTATAGTTTCCAGTTATTTGCTAGATTTTTCACT
TTATTTTCTGTTAGAATAAAAACAAGGCAAAATAAACAAACAAACAAACAAACAAATGGGTGGTATATATTTTAAGTTTGAGGCTGGCCTGGAC
TAAATAGCGAGACCCTATGTTAAAAGAAATTAAGATAACTATTTTAAACTCCCACTCCACTTACAGTCTTCTGTTCTTGTCTCTCTCTCTCTCA
CACACACACACACACACACACACACGTAACACTAAAAATTACTACATAGTATAGACCTTCAAGGTCAGTATCAAAACGCAGAGGTTGTAAAT
GCTCAATGCAGGAATAGTGAAGGACCGAGTTTGTAAGATATATATGATTTTATCAGTATTTATACCTAAATTTTTTTTTCTGGACTATTTTTTT
AGTTCCATATTTATACCTAGATTTTTTTTCTGGACTATTTTTTTGGTTCCATATTTATACCTAGATTATTATTTCTGGAATATTTGTTTCTGTT
TAGTTCCAACTCTACATGACTGCTCGTTTTCTCATTGACGCCTTTTGTTGTTTGCGTTAGAGCGTATCTCTCTCATTCAGACCTTTGCACTATG
ACTCATAACTGTATATTGCTCATTGTGTAGTAGTCATCTAGCCTAAAGTTCACAGCTAATGGTCCTGAGATTCAGTATCATAAGAAAAGTCGGC
ATAAAGTAATAAAGGTGATTCAGATTATATCTTTAAATGAATGTCTAGAAGGGCTCTGAAGAGAAGCTGTAACTAGAGTGCAAATATCCCTACC
CCTGATACTATCACTCAGTACACCAGGCCCTAGACATCACACCCCAAGATCTCCACTTGGCACTGGGAATTTGTCTTGTCAGCTATGTGGAGGT
AAGGCAGCACTAATTGTTAACCGGTTTAGGATTGCTCATCGCCAGTAAGCAGAAGAGATACCCAAGCTCTGGATTACATTGTCCCTAAGCTCTT
TCTTGAGGAAGCTAATGCCTTGAGTTCCTTAAAACGTACTAAATTGCGCTTTCAATTCATCTCTTACCAGCTGTGTGTAAGAGAGAACTCTATT
TTATTCCAATTCTTCCATCAGTGCTTTGACCGTATAGTGTCACTCTTACAGTCTCTCTGGCTAGGTCATGAGCTTCTGGTCAGTAGTGACGGTG
TCTTACACAGCTGTTTGCTCCTGTGTATTCCCATAGGACTTCCTAAAACATAGCAGATTCTAAATCAATCTTCAGTAGTTGACAAGGTATATTT
TAAAAAACTGATTCTTACTATTTTTAACTTAATTTCATAGCTTTAGAAATTAATTTATTTTATGTTTTCAAAAAATATAAGTGCCTTCTTTAAG
GAAATACTGTGGTCATTGCAGTATATAAACATTTATTAAGCAGGTATAAAGTTCCTAAATTTCTACCTGTCATATTTCATATAAATATTAGAAT
GTTTTCTCTCAGAACTTTGCTATATATGCGCATGCATGCACATACATTGGTGATTATTAGCCATTTAACAAATAAATCTATGCAGAGATATGTA
ATAGTGGTTAGTGAATAATTATGTGTGCCATTTGGATAGAAGTACATTGTAATATTTTGTTAGCAAAATAAAATAGACTGAGTTTGATATTTTC
TTTTTGTCCTAGGGAAAGGTTCACCTTGAGTTAAGACTGAATGAGCTGATAACAGAGAATGGAACCGTGTGCCAGCAGCTTGTTGTACAGTAAG
TATATCCTTTTTATTCATTTATTTGTTTTTGTCAAAACCACCTAGAAATAATTCTGTTTTATACTCTTAGACTAATTTCTTATTTTAAATATTT
TAGAAACTTCAAAATAAAGCTCTCATGCATGAACTTCTTTACCAAACTGAGAATCCAGCTTATTTTTTCATTTAATCCACTTAAGCTATGGCAAG
TCATTAATTACTCAACAAAGTTTTAATGAATGTGGGTTGAGCAACAAATGTATGTAAGCATTAAGGCATGAAGGGTCATAGGAAGGAGCCTCTG
GCTTCCTAGCTGCGGAGACTCAGAAAGTGTTTCCAGGGGATTCTTCTCCGAGCACTCAGTCACTACGCAGAGCTTCAGGGAGCCAGGGATCAGG
GTGAGGAGGTCATACGACGTGATGCTCAAACTACGTGACCACCTAAGATTGCTAGCACCTTTCCCTCTAGGAAGCTCTCAGTAGTCAGTCCAAC
TCTGTTGTGAGGTCATGTTCTAGCCTAGTCTTCTACTTCTTGCCTCTGTAAACGCTTGCTACCAAGCGTTTCTCATTCTGGAACTTTCTGTGTC
TTTGCCTCAGTTGATATCTGAATGTCCCTGAGGTTATGAGGTTCATATCTACATACCTTAGGAAGGAGTTAGAGCAGTTGTTACTTTCCTATTG
CTGCTCCACACTATAATTCACTCTCCTAATGATGAAAACCCCAATTCCTTGAAGCATTGCCTTTCTGTGTTGTGTGTACTATATGATCTGAGGT
GTTCAACTTCTTTCTGCTTTATTAGCTATCTCAACTAATAAATAATAAAGAGACTAAGCGATTTTTGCTGTGTGTGGATGACTTACCAAAACA
GTATGCTTAAGGCATTTTTTCCTAAAAGCTTTATAATCATGGTAACATTTAATAGATTAATAAAGTAATAAAAATTTTTTTATTTACTAACAGT
TTTTGTCTTACTGATTTTCAAATTCCATTTGCCTATTGAAAATAGTCCAAAGCCAGGCATTGTGGTATGTGCCTTTAATCCCAGCACTCAGGAA
GCAGAGGAGGTGGCTCTCTGTGACGTTGAGGCAACCAGGGCTACATAGAGAGTTCTAGGACAGCCAGGGCTACATAGAAAGTCCTAGGACAGCC
AGCCAGGGCTACAGAGAGGGTTCTGGGACAGCCAGTGCTACAGAGAGAGTTCTAGGACAGCCAGGGCTACACAGAGACCCTGTCTTGACAACAA
GAAAAAGACAGTAGAAATGAGTGTGCAGACTTCGCCCGCAGACTGAGAGCCTGTAGTGGAATTCTTTGGATAAGGCCCTCCTGCTCCTCCCTTC
CCTGCTTGGGTTTAGTGACAGTAGTCAGTCATTTGAAGTACTAGTAGTTGGATTAGCTTATTTGCATACTTGTTTAGGTTTTTCTCTTGGGTGC
TTGGCTTAGTTTTTATTTATGTATATTGTGTGCTTGTGTGCGTGTATGCCATACATGTATAAGTCCTTACAGAGGCCAGAGATGTTGGATCTCC
TGAAGTTGGAGTCATAGGCTGTTGGGAGCTACCTGATTTGAGTACTTGGAACTTACCTGGGGTCCTCTGGAAGGGTATCCAGGGCCCTTACCTG
CTGAGCATTTCTCCAGCTTCCTGTTGTTATATTTTAGGATGTAGAATATTAGCATGATTTCAAAGGAAAAATTGTATCAGAAGGCATTATTCAT
CGGTGTGGTTCAGTTCCCTCTTCCTCACACTCAGCCCTAGGCAACCACAGTCTGATTTCTGTGTCTGTTTTTACTTTTTGGTTAGACTGGTTTG
ATATATTTAGTCTTTTGTGTCTGGCTTCTTTTACTTAGTATTCTCCCTTTCATACTCATTTACATCGTTGCCTATAGTAGTAGAGAATCTTCTT
TCCAGTGTTTCCAGTGTCTCCTGAGCTAGGCACACGGGTTCTACCACCCAGACAAACCCCAGCCCCTTATTTTTTCCCATGACTTGACAGATAA
CTCAACAATGTACATGCTACTTAAATAAGCCCAATTCCATACTCTTGAGTTTCAGGGCTAGATTTCAGTTTTTCTATTTTAATGTTTTAACTTG
AGGTTATGGATTTACAAAGTACAAACAGGTCTTTGTGCTCTTTACTTAGTTTCCCCCAGTATTTACATGTTACATGACTAAAGGAAATTTTTAT
TCCTACACTTTGTTGTGTATATACCACTTGGTTACATGTATGAATGTATGCAACCACCACTACAATCAAGGTACAGTACATACTGTCTTCTGAA
GGCTTTTATTCATACTACAGCTGATAGTCATGCTCCTCTCTGCCACTCTCCCGACTCTTTTCAAACCTCTTTTCTGTCTCCAAGTCTATAACAT
TGTCATAACATGGTGTGAGAGCTGGAACTGTGACTCACTGCTGGAACACGGAACTCAGTGCTTCCTTACACGCTGTGAGGTCCTGCGTTCAGTC
TTGAGTAAACACACACAAACATAGGCACACAGAAGTAGGAGAAATAGAACCTAATTGTGTATAGCCTTTGAGATTGGGTTTTGTGCAAATCCAT
ATGAATTATGTGTACTCTCTTGTAGATAGACCCTATCATTGTAAAAAGTCGTTCTGTGGGAAGGCGTTGCTAGAGAGATAGCTCCATAGTTGAA
GAGCACTTGCTGCATGTGCAGAGGACCTGGACTACTTCCCCAGCTCACAACCGTCTTTAATTCTAACTAGGGGAACCTAAGAACATGGTCTGCT
CTCTGTAGGCACCAAGCAGGCATGTGGTAAACAGGCATACATGCAGACAAAACATTCTGGGGCTAGAGAGATGACTTTGTGGTTAAAAATATAT
ACTTCTCTTATAGAGGTTCCAAGTTCAGGTCCCAGTGCCTGTAACCGAATGGCTGACAACTGCCTGAAATGCCGTAACTCCCATGCATTAAACA
CTTATATACTCGTGGATACATGACATCCTTCCAGTATACATCAATAAATAATAGATAAAAACTATTTGTAAAGAGCCATGTTCTGTTCTGTGAA
TTTTTTCCATTTATTTTTAATGTAATTATTGATAGACTTAACTCTGTCTTGTTTCTGTATACTGTCTTCTATTTTCTGAACTTACCTGAACATA
AGTTAAAATTATGTTTGGTTTTTCTTGGATATTTTCTTTACATTTCAACTGTTTTCCCCTTTCCAGGTCTCCCCTTCGGAAACCCCCTATGTCA
TTTCCCCTCCACCTGCCTCTATGAGGGTGTTCCCCCACCCACCCACTCCCATTCTCCCACCCTGGCATTCCCCTACACTGGGGTATCGAGCACC
CTCAGGACTGAGGGCCTCTTCTCCCACTGATGTCCAACAAGGCCATCCTCTGCCACCATGAGCCAGCACCATGGGTCGTTCCATGTGTATTCTT
TGGTTGGTGGTCCAATTTCCGCGAGCTCGGGGAGTGGGGGGGTCTGGCCTGTTGACACTGTTGCTCCCTCTATGAGGCTGCAAACCCCCTCAGC
TCCTTCAGTCCCTTCTTCAACTCCTCCATCAGAGACCCCCAAGCTCAGTCCAATGGTTGACTGCAAACTTCCTCCTCTGTATTTGTCAAACTCT
GGCAAAGCCTCTCAGGAGGCAGCCATATCAGGCTTCCATCAGCAAGCACTTCCTGACATCCACAATAATGTCCAGGTTTGGTGGCAGTATATGG
GATGGTTCCTGGGTGGGACAGTCTCTGGATGGCCTTTTCTTCAGTCCCTGCTCCACACTTTGTCTCCATATTTCCTGTTCTATTTATAGTGTCT
TATTACATAGGTCCTTTAAAGTGGTTGTCTTGGGTATCAGACTATGTGTACATAACATATAACCTCCTGTTGTCAACAGTTCACCAGTTACAGA
TATCTTGCCTCCTCTTTTACCTTTTCCTTGCTCCCATGTTTAATATATTTTTGTATTAAACATTGAGAATTGTGCTAGTGTTAGAATTCTTTGC
ATCAGGCATTTAACTTAATCCAGAAAAAAGGAAAGCATAGTATTATTTACACATTTTTCTCTGTCCCTGTTCCTTTCTTTCTTCCTGAATTAAC
ATTCCTTTTGTCATTCTGTTTAAATATCCTCCCCGCCCCAATTTCCCATACTTCTAGGGTAGATCTAGGGTGACAAATACTCCTCATTTTCCTT

CTCAGAATGTTTTGATTTTTCTCTATACACACACACAAGCTACAACCAGTTCCTCTCTCACCAGCTAAGCTTTGGGCGTGGGTGTGGGTGGTGA
TAGCATTAGTTGTTTTTCATTTGGTTGGTTGGTTTTTGGTTTGTGTGGGTTTTTTTTGTTTGTTTGTTTTTTGTTCTTCTGCTTTTTGCTTTTT
GGTTGAGGAGCAAGTGGACATTAGCTTATGAAGGTTTGTTCTGTTGGGTGCCCTGTTTCTTGCTCTCCTTTGGAGGCCGATTTCTGAAAGACAT
TTGTTTAAAGATACAGGAGTTGGGGAGTAGTGTGTGCACAGGATTATTCACAAATGTGTACAGCATCAAAGCTGACCAATAGATACTTACATGA
CAGAAAATTTACATATTCTCTCATACTTTAGTACCGACTGGCCGTGTGTGGCTGTTGAAGACATGAAATAAGGCATATGTGACTGATATTTTGT
TAAATTTTAATGTAATAGCCAAATATGGTTAGTGGCTGCAATATTAGTATAGCTCCAATAGAAAGCAGAAAGCCTGGAATCCTTGTTAGCAATG
GCTGATCTAGGGCTGGCTTAAGGAAATATATGATGAAGCTAGAATACCTTATGAAATTAGAATGTAAGGAAATACTCCAAAAAATAATGGAGAG
ATAAATGAATGAGAGACATTGAAATCAATCTGAATAAGTTTCAGAAGGCCAATTGTGGGACAGCTTCAGATTTGAGGACAGCCTCAAAATTAGT
ATTAATAATGGACTAAAGCTTGAAGAATAAATATTCATGAATCACTACTGATACAATACACACAATCGTGTAGATACATAGGAAGAAACAGTTA
CTTTTCCTTACAGTATAATTCTAATTAATGAATTTAGGAAGGGTGATGGAGATTGAATCAGCACTGGCAAATACCACAGCTGGGTTCAAGCAGA
GAGACAAGCACTCTATGCTCTCAGTTATATATGGATGCACAGAAAGCCTTTATCAAGGAAGCCGGTACAGAGTAGTTGTTCCCAGAGCCTCGGG
AAGATGTAGGGGAAGGATTGGGAGAAGGAGGATTGTTTAATGGGTACAGAGCTATAGCGTAGGAGGAATAATTTCTAATAATTTATAGCACAGA
ATAATTATGAGTGACAACTGGATATTTCAGCACAGCTAGTAGAATTTTGAACATTCCCCAAAGAAATTATGTTTAGATGTTAGATATGCTAATT
TCTCTAATCTGATCATTACTGTGTGTGTGTGTGTGTATGTATACATATATGTGTGTGTGTGTGTGTATTGGTCTGTGACACTGTATTC
ATAGGTATGTACAATTACATGTCAGAAATAAAAGCATATATGGGGGCTGGAGAGATGGCTCAATTGTTAAGGACATTGACTCTGCTCTTCCAGA
AGACCTGGGTCCGAATCCTAGCACCTACATGGCAGTTCACAACTACCTGTGACTTCAAGATCTGATGTTCTCACATAGACATACATGTAGGCAA
AACATTAATGCACATAAAACAAAAAGGTAAATAATTGAAAAATAAAAGCATATAATTAAAATATAACTGAGATCTGGAAGGATGGCACAGTGGT
TAAGATCACTTGATACTCTTTCAAAGGACCTAGGTTCTGTTCTAGCACCTAAATGGAAGGTGGCTCATAGCTTCATTTCCAAGGGGATCTGATA
CCCTCTTCTGATCTTCACTGGTATCAGACATGTAGGTGGTGTACATACATGTATGTAAACATTCATAGAAATAAATAGCTAAAGTATAATAAAT
AGGATGAGAAGTATCTAAGAGTACTAAGTATGTTAGCCTAAGTATGATTGCATTTTTGTATAGTCTCAAAGAATCTCCCTCTGAAGTTATTTCA
TAGATAACTCTTCACAGTAGCATATCAGGTAGTCTTGGTACTATGTACAGAAAAGAACAGCGAGCTATCTAATTGAACAGTCCCCCTCCAATAA
TAGACATGGCCCCCAGTGGAGGGATGGGGCCACCCATCTTCAAAATTTTTGACCCAGAATTGTTCCTGTCTAAAGGAAATTTAGGGACAAAAAT
GGAACAGAAACTGAAGGAAAGGTCATCCATTGTCCATCCCAATTTGGGATCCTTCCCATGTGCACACACCAAACACTGACACTATTGCTGATGT
TGTGCTTGTAGACAGGAGCCTAGCACAGCTGTCCTCTGAGAAGCTCTATCAGCAGCTGACTGAGACAGATGCAGATACTTACAAGCCAACACTG
GACTGTCGGAGACACCTTTGGAAGAGTTAGGGAAAGGATTGAAGGGGGCTAAGGGGATGGCAACCCCATAAGGAAGACCAACAGTGTCAACTAA
CTGGGACCCCTGCAACTCCCAGAGATTAAGCCACAAACCAAAGAGTGTACATAGGCTGGTCCGTGCCCCCTCCCCCAATCCACACAGAGGACTA
CCTTGTCTGGCTTCAGTGGGAAAGCCTACTCCTCTAGAGACTTGGTGGCCCTTTATCTATTTTTAAATATATAAAACTATATTTAAGCTGGGAC
ATTCACCCCAAATAAAACCTCTTTGGGAGTAGAAACTAGACATGTGTCTGATTTATTTAAATGGTATTTATTTTGATAAAAATGGGGGGGCATC
TGATTCCATTCTGGTCAAGAGCAAATGTCAGACGAACTTAGATTAAGTAATGTGAAAGCAGTTATCACAAGGTCAGAGACTGGGAGGACATGGC
AGCTGAATGCAGTGTAGAATCCCATACTGCATCCTGGAGTTCAGCAAAATTTGAGTGGCATCTGTAGATTAATTAGCGTTAGTAGCATTAAATG
TCAGTTTCTTGATTTCAGTAGCTTCACCTTGGTTACACAGAATGTTAACATTCAATGTTAGGGTTTATAGAAACTCTGTATGTTGTTCTTACAA
CTGTTTCAAAGTCTGCAATTATAACTAAGTGTGTTTGTTTTGAGTCCTGGTCTCCTATAGCCACTGTACTGTCACATAGCACTGCCACTGTCAC
ACACCTGAACTTTTACACATTCAGTTTCAGGTTTGTTCAACTCCTTTCCAGAGTCTTAGCAGATATTTGAGTCTACCTGTGTTTCTTTAATCAG
ACCTTACATTTTTTCCATTTCTAGACCTTTGTTTTATTATGGAAAAATGTTTATTTTGAAATTTTTTAAATTTAGAAATAGAAAACCTCATAGG
AAGGAGGAAAGAAACAAAAACCACAAAGCATCCAGGCAGTGTTTTACTTCATGAACATGTCACCCCCTCTGGCTCACTCGTCCCATGGTGAGAA
AGGAAGGACTCAGCCACCCACAGCAATGTTATTAATCGGGATATGGATCAGTTTCACGAAGAAGCCAGTGAACCCCATGATAGCAAATCCCATC
GCTGTGGCCATGGCAGTCTTCTGGAAAATTCTTTTCTATCAAGTTTGGTACATCTTTTAGTCAGCCGCATTGAGTCTTTTACAAACTCCTGACT
GGGCTCTACAGACTGCATTATCTGATCCATGTGTGTGGGATGACGGTTTGAGAGGGTAGAGGCACGTAGCCTAGGAGAGAATTGAGCCCTAGAC
CTTTATTTCTTAAGGCTTTCTGTGTCTATGGTGTGTGAGGTAAAAATTTTCAGTGTTCTTGTCTACAATTACTTTTTGTCGTTTCTGCTTCTCT
TTTGGTGGTTTTTCTTCTCACTGTAGGCCATGCTTATTCATTGTTTGAGTTGGACATAGAAGTCACTAGCTGCTCTGTGTTGCTGTAATGTACT
TGAATTGGTTTTTAGGTATCAGTTAACTTACTTGGAAACAATTCATTCTGTTTATAATTTGGTTTTAAGCTTTGTCAGACAGATGAGAACAGCA
TATTATCATAGAGCTTGCAAGAGGCCCACCCAGCCACAGAAGAGAACTGGTAGTTTAAGAATAATGCCATTAGTGGGAAAATATGAACCCCAAA
GTATTTCTTTGGGCTGTACTTTTTTTGGTTAGTTTCAGAAATTTGTGAATTTTATTTTTGATGCTCAGTTTAGCAGAAATGAGTCTTGTTTTCA
ATTTTCTCTTTACTTGGCAATACATCATTTGCAGTTCACCCATGAGTGAGTCTTGGAGAGAAATAGAGGATGTTTCTCAGTAGGGGTTTGTGAA
ACAAAAACAAAACACTTGGCATTTATGAGCCTCTGTGAGGGAGCAGGAAATGAGACTCAGACTTTAAACCAACTAACTTAGTAATAATTACTGA
GGAATAAACCAACTAACTTAGTAATAATTACTGAGGAACTGTGAGAATCGCATCATTAGAGCGTGTTCTTTGCTTGCTATAAATACAACCATAG
TCCGTACAGTAGATTGGATGGCCTTGGGTTTGTAGTGCAGTTCATTTTGTACAGAGTGATATAGGAGCTGCTGTTGAGACTCAGCATGAGAGTC
TGGAGAACTATGTGAGGCTTGCCCTATATTTATGAATCAGATTTTAAGTAAAACCACAACCATTTCCTTGTGTGTCATTCATGCTTTAGCAGAG
GATATGGTGCCACAGAGCTGGCCTGGTTTGTAGTTTCTCATGTAAGGCTACACCACTTTCTTTTCCGTTTTAGAAGCCACAGCAGTTTTGATGT
ATTATCAAACCACAAAATGTACCTTGAGCATTTCCCAGGAAGAACTGTGCTATGCTGGTCTGAGTACCGATTGTCCTTGCTGGGTGGTTCTTTT
TGGGAAGTACTCATGTAAATAAGTAATTTGGAGTAGTTGATACATTGGAACTACAAAAATGGAAACAGTGTTACGGTCTTTGAATATATAGATT
TCTATTGAAAGATAGTGTTTTAGGTTTGGTAGTGCAGCTCAGTTGCAGGGCACTTGCCCTGTGTATATGACTGAAGCCAGGGACTGTTCCCAGT
CCACAAGAAGGAAACGAGAGGGAGAGAGAGAGGGGGTAGATACTATGTTATGATGTTAGTGCTAACATATTAAGATCTGTTTTGTTCTACCTTA
GCATCAAGGCCTGCCATGGGTTGCCTCTCATAAACGGACAAAGCTGTGATCCTTATGCAACAGTGTCCCTCGTGGGCCCCTCTAGGTAATGCTT
ACTGAATTGTTACTGCATTTTCAAGTTTAAAGTTGGATTTAAGAATTGGAAATGTACAGTTCTTAGATCAAGTGCTGAGTAACTGACATAAAAT
AATGCTTTAAAAGAATTTTTTGTAAGTTCTAGAGCACACTTGGTAAACAACTGAGTTCTGTTATCACAGAAAGATACTGGGTGTTATTTCAAAT
CTGCTATGTGCTTATTAGGCTGTGGTGAAAGCTTCAATCTTATGCCATTGTAAAATGTACTTTAAAGTATATTCCTGGGCCAGGTATGGGGGAT
GCATGCCTTTAATTGAAGTATTTGGGAAGCAGAGGCAGGTGGATCTCTGTGAATCAAGGCCACCTTAGACTGTATAGCAAACTACAGGCCATCC
AGGATCTAAAACAAAACAAAAAACCAAAAAAAAAAAACAAATCATATACACCTGGCTGCCTTTACTCATTAACATTCTTACTTTCAAATATCCT
CAATTTTCTGTAAGTAAAAAAATCACATTTTAGTGATTGTCAACTCAAAATAGCAAAACAGTTTCCATACCAGTATCTGGGAAGCCGCTTAGGA
CTGAGAACTGCCTTTTCTGTTCATGTGTCGGTGCTTTGTGAAGAGAGCTCCAAACTCTAGAAGAACTACTGAGGTCCCAGGCCATGGTGAAGTG
CAGCATGATGTTGAGTAATTGGTCTATAATTTATGAAAAACCAGTAACACTTTGTGGTATCTATATTAGATAACTTCATTGTAGTTTCTTTACA
AGACTGACTAGTCTGGAGTTTGTGTGCAACTTAAAGCTCTTTGAATCAAGAAACAAAAGCACAAAATTTGTTATCACCATGACTCCCCTTTATC
ACCTAAAGCTGTAGTCTTTGTTTTTTCGGTCATCAAGTCTTAAAAAAAGTGTGTGTGTGTGTGTATCAAAGCACCTGATACCATGGAGCTTAAA
TACTGATATGCTATTATTACAGATTGGTTTTAAATTTAAAAGCAAAAATGTATATGGCATTAAATGCTGCCAAAAGACTTTTCACATCAATGTT
AAAAATGTTCATCCTCACTGGATATTGGAAGCATAATGATAACCCCTGTACCTGGGCAGCAGACGTAGAGGCTCACACATTCTGGCCAGCCTGC
ACTACTCACAACCATGTCTCACAGAGAAATGAGAAGGGAAACCAGCCAGCCTAGAAGAGCTGCTTGTTTGGAGTAAACCTCTTTTGTAGTTCTG
TCATTGAACCAGACTATTGTTACTAAGCAGTTACTCTACCAGAGAGAGATTCTCAACTCAGGAAGTTGTTCTTGGTTTCTGTTTAATGATTTCT
ATCTCATGACAAATTCTTTAGTGGAGCTTTTAAAGTAACATTTCACAAGAACTATTTTTTTAAGATTTATTTATGTTTATTTTATAAACATTGG
TGTTCTTCCTGTGTGTGTGTGTGTGTGTGTGTGTGAGAGAGAGAGAGAGAGAGAGAAAGAGAGAGAGAGAGAGAGAGAGA
GAGTGCATGCCAGATCTCCTGGATGCTGGGAATTGAACCAAGATCCTTTAGAAGAGCAGCCAGTGCTCTTAACCACTGAGCCATCTCTCCAACC
CGAAACTTTTTTTTTAATCACAGTTGATTTTGCTATTATACTACCGTTGCACAGACATTCCCATTGGTTGAGTCTAGTCAAAGACACAAGACTC
CCAGTACATTTCTTTATAACTGCCTCTGAAATTGTCCATTCACTGAGAATTAGCAGGCTTTGTTTTTTTTTAAGTTTCTGTCCTGGCTGCGGCC

CTCAGAAGTACACTGGGTTCAGAGTTACCTTTCATGCTTCTCAGGTGTTCCAGCATCAGTAAAGGCTTGGAGGCTTGGGCCTTTCTTCTCACCA
CTCCTTCTGGTAGTGTAATCGGATCAGCTTCTCCTAGCCGTGGAGACAGTAACCCAATCTTGCCATGTATAGATATGTAAAACTTGCATCCTGT
GTGTGGATATTCATCAGATTCAAGTTTGTGAGGTTTATATCCTTGGCTTTTTTCCTTTGCATAATATGTAAGTTACTGTCTTCTCTCAGTTGTC
CTAAAATGTAGGCAGAGGTTAGGCATCCTAGCTGGGAATAGCTTGTTTTTATAATTGTGTACTATTAAGTTCTACAAGGTATAACTCTACTACAT
TGGAACAGGAATGACCAAAAGAAGACAAAAGTAAAGAAGAAAACAAGCAATCCACAGTTCAATGAAGTCTTCTATTTTGAGGTAATTTCTTGTT
TTATATAAATGTTAATGTTTGATATGTAATTCTAGTTGATTTAATTTCGTAAACCATAGCCATCAAAATTGTTTTATTAATTAATGCAGCTAAT
AATCTCTACCCAGAGATGAGTAGAGCCATAATGTCACACATGCAGCTCTGGTTGGTTTGGAAGTGGGGAGGGCTAGAGCCCCTACCACATAGTC
ACATTGTCACAGCTCCCTTGAGAGCCTCCCCACACTTTCCAGTCTACCTGACACATAGTGACTTCTGAGCAGACTGTTGGAAATCCTATAGAAA
TTTAAATATTACCATTCAGAAGATCTGAAACCTTTTCCCAGCTGATATTAATGATCAATTAAATGTAAACCCTGCCTTCCATATCCTGTAAAAG
GGTAATTTTATAAGGAAGAACGGTAGCAAATCTGCCAAATATGAGACTACTTTGAGAGTTTGAAACAGTTTACGATTATGCCTTTTTACCATTA
AGTTCTCTAAATCTAATTTACTCTGTAGATGTAGCTTGTTCATGCGGATCTCCAGCTGCCTTGAGTGAATCCTAACCACTGGACCACCAAGCTT
GCATCTTCAGCTGCTTTGAAATTGCCCCAAATAAAGTGCTTTGGCATTCTTTAAAGTATTTAGTCTTTTTTCATATTAATTGAAGACTATAGAA
AAACTAAAAATCAAAATATCTAAAAGGTTGTAATAACAGAACAAGTTGCAATTGATATTAAGATGTGAGAACAGGTTGTAAAAGTGGGTAATTA
CATCTTGAAGTTTTTATTTTGTTTTTTTCCTCTGTTTTGGAGAGGGCACCAAAGTACCCCAACTCATGCCTGATTGTTGTTCTTTAATAACAAG
GAGCATGAGCTGAAGAAAATGCCAAAGGTGACATAGGAAACTGGGGGTGGGGTGGGGGACAAGAAAAACCTACTGAGTCAAGAGGCTTCCTTTC
CTGGCTGAGGACTTGGTGCTGCTTTCTACATTTATTAACAGCTCTTATGTCTAACCATGAGAATGAGAAGAAGATGACAGTTCTAACAGCTCCT
GCCCAAAGTCACTCACTGCATATAGTTCACACCTCAGGTGGCCTGGAATTCGCTCCTTAGGAAGAACCTGTAGCCAGAGGGTAACTTTCTGAAA
GTTGAGGTCAGAAATGCTTGCCTTACCAATTTACCTCTCAGGCCTTAAACTGTTTATTCATCTAGTCCTTTGTTAGATTGGTTGTACAGACAGG
CATGCTCAGTACAACCAGAGCAAGACATAAGAAAGCACACACAGGTGCATATACACAGCTATAATGTGGAGCAAGACATAAGAAAGCACACACA
GGTGCATATACACAGCTATAATGTGGAGCAAGACATAAGAAAGCACACACAGGTGCATATACACAGCTATAATGTGGAGCAAGACATAAGAAAG
CACACACAGGTGCATATACACAGCTATAATGTGGAGCACCCTCTCTCGAGCTCAGGGTTAAAACAGTCCAAAGCTAGATTTTTGCGAGAACAGA
AATAATATTACAGAGACAGAACACTTTGGGCACAGAGACAGAAAAACTGAAAGTTATACCCAGAGAACATCAAGTAAAGATTTAACTAAGTTTA
GTAAAGTAACCAAAAAAGATGGGATAAACTGGTAAGTGTCCGGCGGTGCTTTAGCTTTAGCCATTAAACTAGAAAGAAATAACCAGGATCTGTT
AGCAGAGCCCAGAGACCTTCAAAGAGCTGAGAGCGGGGCAGAAGTCGAGATAACTGATCGTGGGAGAAAAGGGAGAAAGAAATCAAAAGCATCC
ATGGATCTGTGTAAAATTCCTCCACCAGGCGTCAGATGTGGTACATGCCTGTCATCCCAGTCCTTGAGAGGTGTAGGCAGGAAGAGCAGTTTCA
AGGCCAGTCTCAGACCACCTTATCTCAGAAAGCAAATCAGATTTGCTAACAGGACAGTTCATGACTGAAGCATGGTAGGTGATAACTATGGATC
ACAATACAGGATTTGGTACAGAGCCAGGAGAGCCAACAGTGAAGAGATGCAGCAGAGGAGAAACCCAGTCAGCTCTGGTGCTTACTAACCACTC
CGCTTCAGACGTGCTGATGAAGTTTGTACTGTCGCTTCCTCATTTTTAAAGTGAGGGGAATAAATCTAGCTCTGCCTGCCTCAAAGCAACAGTC
TAATGAGTCCAGAGATGTGATAGCACTGAGTAAGCCAGACAACATGGTGTGGCGTTAAGTTACATTTAGAACAAAATAAAACAACCTTGGAGAA
CCACCTGTGCAATTCCAAGGAGGAGTAGAGAGCAAGAGGTAGCAGGCTAGCCCACAGGTAAACCGAATGCAAAGAACTTGTCTGGGACTAGGGC
GGGGGAGGGGGAGGGAGGAAAGGAGAGAAGAAAGAAGAGAGAGAGGCCAAGGACACTGACAATCTTAGACTAGAAAGAAGTGATCAGACAGC
TGGACTTAGAGTAGACCAAACGCTTATAACACATGCTTGTTAGTTAATACTGTGGTGAAAGGAGCAGGCTTGGGGAGGTAATCTTAGAACCATC
ACCTCTTCAGAAGTCCTGAGGGTGGGGGAAGTGGATGCTCAGCTTGGTGGCAGTTGAGGAAGTTCCTGCCCAGTGGCCTTGATATTTTCAGTAA
AAACTGTGAGAAGGAAATATGAGTAGGTGTGACCCGTGCAGACAGAGCGTTGTAACCAGGGAACCAGATGTGGCTCTAAGTAGAACTGACGGTG
TGGAGGCGAGGAGGCCTCTGATTTTTATGCCGGACTTTCTTACCTTCTGGTGCATATTTGGTACATTTCCCATGCTTTGGAAATTGCATTCACA
CTTGACTCTTTATATTTGTAATTGAATATTTTGGGAATGGTCATTTTTGAGCTCATGAAGGAAAGATACTTTAAACAGTCTCTACTGAAATCCT
TCGTTTGTAGGTAACCAGATCCAGCAGTTACAGCAGGAAGTCCCAGTTCCAGGTGGAGGAGGAGGACATTGAGAAGCTGGAGATCAGGTCAGTG
CCGTCCTGTGGCGCTGGAGAACGGCTTTTCTCCATGCAAACCTCCATAGAGCCCTTCATAGCAAGCTGATCGATGAACTTAGATGAACAGGCAT
CTAACTTAATCCACTTAGCCTTTCAAAATCGGATTCTTCTCAGAAATATCAAGTAGTTCTCTTGTGTGAGCAAAGACAGCCTAATTTCACCTAG
TCTGTTTTCATTTTCCCTGATTTAATTGCTCCTTCACTACCTGGATTATAGTATAATGAATGGAAGACTGATTATATTTAATCCAATTTAGAAA
TAATTGTTTTATTCTTCTTAACATATCTGCTGACTATCAGACATTTCAGTGAGGTAAGGCGATACCCGCACAGGTGCATGTGTTTGGAGTTTGT
GGTATTTCCTAGGCCTTCAATATCTATGCTGTTTTGGAAAGGAAACTTTTGCAAATGCATGTGTAGGTGTGGTGTTAACAGTGTGTTTTCTAAA
AGGCATATTAATCATGTGTTCACATTGTTAGGCAATATTTTTCTAAATCACCGATCTTTATGTATTAATTAATAACATATTGATTTATCATCAA
AGAAAAAGTGTGGTCTTGTTTTGTTTCCTCAATTCAGTAAAGTAACCCTTTTGTCCTAATGCTACAAACTAAAAACAAACAAACAAAAAAAAAC
AACCCTAGACTTTCAAACTTAGTTTCTCCTTTTATACTGTTTAGAATTTGGCCAGGAAGCTGGCCTAGGTGGGAAAGGCACTTGCTGCCAAACA
AGTCTTCCTGAGTTGTATTCCTTGGACCCTCACAACGGAAGGAAAGTGCCAACTCCTGTTAATTGTCTCTGACCTCCACTGTGCACAGTGGCAT
GCATCCCTCCCCCAAAACTAGTTAATAAGGATGTAAATTACAATTTAAATCGTGATTTTTTTTTCATAAAAATTGCTGTAGTAATTTGCTTTCA
ATGTCTAGATAATGCATTATATGACAATGCTAATCTAACATCTCTTTTAAAAGCATGTAAAAATATAGTACAAATCAAAATCACTTGAAACTAC
TCAGTGTGGTTTGCCAAAACTAATGCTAGGTTTTCAATTTTCAGGATTGACTTGTGGAATAATGAAAACCTAGTCCAAGATGTTTTCCTGGGAG
AGATTAAGGTTCCTGTCAATGTGTTAAGAAGTGATTCCTTTCATCAAGCCTGGTAAGAAGACAGATACTCTAATGAACCAAATTTAATTCTCTT
TAATAAAGAATATAAATATATGCTTGCTGGAAATAAGTAAAAAGTTACTGATATTAATTTGGTTATGAATTTGTTATTAGAGGAAAGATAAGTA
CTTTAATAGTTGTATCACTTGATCTGTGATACTGAGATAAAGAATTTAGTTGTCTAGGAATATTTTTCTGTTTAAGAATAAAATCTTGGGGCTG
TAGAAATAGCTGAACTCTCTTCTCAGTTTGGACGGGGTTTCAGATCCTAGCACCTACCTCAGATCTCTCAAACAAAGGGCTTTAACTTTAGGTC
TAAGGAATCCACTGGTCTCTTTGGTCTTGATGGGCACCTGTACATGGACACACACAAACACACACACACTAAAAATAAAGTCTTAAATCTAAGA
AATGAGAAACATTAAGACATCGAATGAACCGCTCGTTGATGCTTGATCACATGTCATCATCTGCAGTTTGGATGCTTTTCGGTCAAAGAATTGT
GGGTAGAAAGCAGAGGGCTTATTGAGAAGACACAGCAGTCTTCTGTGTGAGGCAGTGTATGATTTTCAGTTATCACACATTTACAAATGCAGAT
AACCTCGATGTGTTTTCTGAGTGTGGGGTATTGACTATAATGTCATTTGGCCTTTTCATGGCTCTAATAGTGATACTGAATTAATAACATTAAT
GTTAATAACCTTAATGTTTTGACATTAAATTCATACTTATTTCAATGTGAAACTTTTTCTCTATAGCCCTTAAAAACTAGTGTTTTCTGTCTCT
TCGTGTGTCTGAGCCCATGTTTCTTCCTAGATTGATTGGTATGTAGGATCATGCTTTCTCAGTTGTTGGTGCTTGTTGATGCTGCTATGTGAGC
ATGTAGGTATGCTTACACTCATGCGCACATAGAGAACAGACTTGACACTGGATATGTTCACCAGTCACTCTCAGTTTCTGAAGAGAGGACTTCA
GAACCAGGAGCTCACTGATTAGCTAGGCTGGGTGGGCAGTGAGCTCCAGGGACTGCCTGTCTTTTCCTGCCCCGTGCAAGGATTGCAGATGTGC
ACACCACTAAACCCAGCTTTTACATGGGTGCTGGGAACCTAAACTCGGATTCTCATGCTCTGCAGAGCAAGCACTTTATCAGCTGAGCCATTTC
TCTGACCTCTGTCTCTTCCCTTTAAAGGTCACTTTTTAAAATGAAATGTAATATTTGTGCCTGCTTATTAAGTGTAATAGTCACTTGTATATAC
TGTGTAATGATCAAATCAGGATAGTCAGCATTTCCATCTCTCAAATACCATTTCCATGTTGGATGCTGGAGAATTAGACTGTGCTGAACCGTGA
CATCAGTTGTTACGGACCATAGTGAACCTGTTGGATTATAAACAGAGCTGCTACTCCCACGCTGCATTGAGAGCCCGTTCTAATAATAATACCT
TTCTCTGATGATCTCCCCTCCTGCCTCTAGCAACTTACAGTCTTTGTTTTTATGTGGATCAACTTTAGTTTTCACAAAGGAATAAGAACTTGTG
GCCTTTGTCTTTCTGTGCCTTACTTCACATGATAAAATGACCTCCAGTTCCAGATGGGTTACCATAAGTGATAGGATTTCACTCTTTAATAGCA
AACCGTCTGTTGATGAGTAAATGAATTTAAATAACGTGGTCTGTACACACTGGGATGTTAACATAAGAACCGCTCTTTAGAACTCAGCTGCCTA
GAAGAGGAGTTGGTGTTGACTGTTTAGGGGTTGGGTTTTTGTTTTTGTTTTTGTTTTTATTGTTTTAGTTTCTGAGACAGAATCTCACTATTTA
ACCTTGACTGGCCTAGATCTTACTATGAGGACCAGACTGTCCTTGAACTCAGAGATCCACCTGTCTTTGCCTTCTAAGTGCTGAGATCTAAGCT
GTGCACACTCCAGCTGACCTAGGACTTAGACGTTTCTCTTTGGTCTCACTTGCCTTTAAAGGAGCCTGCCACCAGACAGTCCTCATTGGGATTC
TGCTATTCCATAGCCTTCCTTAGAGAGACTGTATTTTAGACTAATTTTCAAATTTTATTTTTTAACTCTTCCAATGCAAATCTAAATGTATTAG
TCTCTCTAAAAACATTTTGTGTGTTTTAATTTCTAAATGCATCCAGAGAAGGAGAAAAATGACTTTAATTGTTGAGAAAAATGTATTACCGTTT

GCCTCCCCTGCCCCCATGTCATATTTCCTCCCTTCTCCATGAAAATTCCTGAACTCAGTTTTTAAGTCTTGAAAATAACATTCCATACCTTTAG
TACAGAAGAAAAAATGAGTTGTTGTGTCTCCCAGGGGCCTCCACAATGAGCCTCAGACCTGCCCCCACAGTGTGACACAGTCTTTCCATATACT
TTCAAATTTGACAGAACTTTCTACCTTGGCCAACTTGGAATATTAACAGACAATAAGTAACTTTATTTCAATTTCTTCTATCAATAGTATAAAT
ACTTCATGTGCTCTTGAGTGCTGGTGTCTTTGAGGTCAGAGTCGTTGAATCCTCTGGAGCTGGAGTCACAGGTGATTTGTGGCTGCCTGATTTT
GGTTGCTAAGAATTGAACTCGTTCTTTGTTTATGATCTCAACCATTGAGCTAGTTCTCTAGGCTCCAATAAAAATATTTTAATTTAAAGTAGTC
TGTCAGAAGCATAAATGCTAAAATTTATGTAGCATAAAAGAGAAGAATCTGCTAATGTATATGAATTAATGTACATTGTATGGAAGTATAAAAA
TGTTAATGCCATTTTAATTGAAGATCTTGATCTCCTTTATCACTTATAGAGCTGTAGCATCCTCTAGTGGTATTAAAGATAACTGCACAAAACC
TCATTCCATTCAGGCATAGTTATTTCTAACGTTGATATTGCAAAGGGTCATAATAACTTATTAGTAGGCAGTACTCTTGCTTTAAGTTTTTCTA
TTTTCTTTTTTCCAGTAATTTCCATTAGTATTTGCCTATTATATTGTATGTCTAAAAACTGGTTTTTGATGGTTTAGTTTTTTTAAGATTTCTA
TTTTATGTATATGAGTGTTTTGCTCTATGTATGTCTGTGTACTGCATGTATGCCTGGTGCTTGTGGGGGTCATCAGATGGTGTCAGATGCCCTG
CCACAGGAATTAGAGATAGTTGTGAGCCAACATGTGGGTCCTCTACAGAAGCGGCAAGTGGTCTCCACTGCTGCATCATCTCTCCAGCTCTACT
TCCTATTTAATTTTATTTGCAGATTATAATACAATGACTCATGCCACTTTCCCTTGCTTTCTAAGACGTCTTTTGTTGCCCTTATGTACATATT
ACTTTTATGTGTGTCCCTTGCGCGCGCAGCCTGTGAATGCCTGCAGGAATTGTTCTCTGTTTCCACCACTTGCCTTCTGGGTATTGAAGTAAAG
GCATCTCTGTTTACCTTGAGTCGGTTCTTGGTGGTGGGGGAACCTGGGAGAATGAAACGGACTACAGTCTCGTGCTAGCCAGCCGCACTCAGAG
CATCACACATTTCATACTCGGAGTGATTTACCTCCTTAACCTTGATTGTTTTTTAATTGGTGATAATTAGATTGGACGTTAGCATTGTCTTTTT
TGTGTTGATATTAGCTAATTTTCATTTTGCCATGTGTAGATAATAGAACATAATTTGATTGTTTTTTTAAATAAGTTTTTTTTTAATAGAAATTA
CACCATTCCTAGGTAAAAAGATGTAAAAGAGAATCCTGCCTCCTTCCCCAGTGCCACTTGCCTAGGTCCTATTTCTGAGCCAGCCTCTGTTCTC
TAGATTCTGGGAATATTTTCTATATTCATAGGCAAATGCATGTATATATTTTCATTCGTTGTTTTGTTGTATTGAACCTGGGTTTCTGTGTGGC
CTGGGAGTCATAATCTCCCAAGTGCACACACGACCACATGCCCACCTGTACTATGCCTGTATGTTTACTCAACAGTGTAGTAGAACACTATAGA
TAGGCGTTGACTCTTGATGGTGGTTTACAACTTATACTCTAGAATCAGACAGCCTTAATTCAGGTCCCATCCTCGCCAGTAACCACTTGCTCTG
TGCTTCTTATTTCGTGGGCACAGTGAGGGCTGAATGTGCTGAGAACACAGTCCGCCCATGAGCTGCAGTCTGGCCCTGGCCCGTGGTTTCTTCT
TCAGTAGCTCAGCTGTCTACTTATCCCGCTTGCTCGTTAACTCACTACCATCACGTGTAGTACCATCAGCTGTACTTTTACTTTAGGTACTTGC
TACAGCCAAGAGACAATGGAAACAAATCATCTAAAACCGATGACCTGGGATCTCTTCTGTTAACTCTCTGCTATACAGAAGACTGCGTGCTTCC
ATCAGAGTACTATGGACCGCTGAAAACTTTGCTGCTAAAGTCACCAGATGTTCAGGTACTTTAAAAATCTTTTTTTTTCCCCAAGTGTTTTGTG
ATTTGTTCTGGATTTGTATATAGGTACAAAGCTTCAAGGGATAAACCCAGAAAAACGGTCAGCTTCATCCGTCCACATGTCGGAGGAGCCCTTG
TGGTCAGCTCTGGGAACTACTTTAAAAATCTTATATGATCCCCAAGTGGGGCAGTCTCTGGATGGTCGTTCCTTCAGTCTCTGCTCTGAACTTG
GTCAGACTGCCCCACTTGGGGATCCATGCCATAAACAAACCCAGGCACTATGGCAGATGCCAAAAAGAGCTTGCTGACAGGAGCCTGATATAGC
TCTCTCCTGAGAGGCTCTGCCAGTGCCTGGCAAATACAGAAGTGGATACTCACAGTCATCCATTGGAGTCACAGGATCCACAATGAAGGAG
CTAGAGAAAGTACCCAAGGAGCTAAAGGGGTTTTCAGCCCCATAGGAAGAGCAACAATATGAACTAACCAGTACCCCCAGAGCTCCCTGGGACT
AAGCCACCAATCAAAGAAAACACATGGTGGGACTCATGTCTCTAGCTGCATATGTAGCAGAGGATGGCCTAGTCAGTCATCAATGGGAGGAGAG
GCCCTAGGTCCTGTGAAGATTATATGCCCCAGTATAGGGGAATGCCAGAGCCAGAAATGGGAGTGGGTGGGTTGGTGAGCAGGGGGAGGGGGGA
GGGAATAGGGAATTTTTGGAAAGGAAACTAGCAAATTTCATTTGAAATTAAAATATCTAATAAAAAAAAAGAAATTAAAAAAATCTTACATGAA
AAGGCTAAACTAATTCTGCAAATGATAAAAGATTTCATAGTGTCAGCTCTTACAGAGTGCTGTGTATTTGATTTCTCTGAACCTGAATACTGAT
GTGCTTCAAATCTTATCTCTGATTATAATTTAGAAAACTAAATACTATCTTACCTCTGATCAGTTATAATTAATGAGTGTGTTTAAATTTCATC
CACAGGTTAGTGATTACGCATGCAACCATGGTTCCTTGATTCTGTCCTTGTTTTTACCTTCTTTATCCTAGCCAGTATCCGCCTCAGCTGCTTA
TATTTTGGGTGAAATATGTCAAGATCAAAAGGATGCTGTTTTGCCCCTTGTACGACTGTTGCTGCATCACAATAAACTTGTCCCTTTTATCACT
GCGGTGGCCGAGCTGGACTTGAAGGATACTCCGTAAGAACTGTATTTCATTAAATGTTTAAACTTCAATTTGCCAGATTGTTTTTATAGTCTCA
GTTCTTTTGTATTGACCAAGTTTACTATACACTAGGTTAAAAAGAATCGCTTAGTCAGTAACAAAAGACAGTTCTTAGAGTTACCAAACAGAAT
CCGGCTGACCGTAAGAACCAGTTATGCAGACATGTGTATAAGTCAGTGGTGCCATTTCCTTTGTTACTATTACTGATCTTTGCTCCTGGATGCA
GTGATTCACATGTCACAGCAACAGCTCTCTATCACGGTTGTTACACTGTAGGCACACGTAGAGCGTTGTGAAGAGCGGTCAGTGCCTTTCCATT
TCCATCGCAGTGAGACAACACCATCATCTTATGCACACAGACCCACACTACACCATCATCTTATGCACACAGACCCACACTACACCATCATCTT
ATGCACACAGACCCACACTACACCATCATCTTATGCACACAGACCCACACTACACCATCATCTTATGCACACAGACCCACACTACACCATCATC
TTATGCACACAGACCACACTACACCATCATCTTATGCACACAGACCCACACTACACCATCATCTTATGCACACAGACCCACACTACACCATCAT
CTTATGCACACAGACCCACACTACACCATCATCTTATGCACACAGACCCACACTACATTTTTTTTACATTCATAAACATAGTTTTGATAGGTTT
AGAAATTCTAATGGCAGCAAACATTGCTGTTAATAGTAGTAAAGGTTACTAAAATTGTGTATATGTTCAAAGTCAAATTATTACTGTTTGAAAC
TTTTCTTCTTTTTGCTGTCAATGGTTTTTGTCTCTTTCTATTTCAGAGATGCCAACGCAATATTTAGAGGAAACTCCCTGGCTACCCAGTGTCT
GACTGAGATGATGAAGATAGTGGGAGGGCACTACCTGAAAGTCACGCTGAAGCCCGTTCTAGATGAGGTACAGAGTAGACCTCACAGGCAGAGC
CTGTGACCAGCTAGAGCAGCCTTCTCAACTTGTATGTCCTGAAAAGCCCTTTCACAGATCATCTGAGGCGTCTGCGTGTCAGATGTTTACGTCA
TGATTCGTAACCACAGCTAAATACAGTTATGAAGTAACAGAAAGAGTAACCTTACGCAGGGGTCACCCCAACATGCGGAGCTGTAGGAGAGGGC
CCCAGCAGTAGGAAGGCTGAGAGCCACTGCAGTAGAGCTTCTCTTTTAAGAAGTAATGTGTTGATTAAAAGGGTCTGTCCATTCATGGGCTACT
GGAGGAATAGGTGTAGACACTTTGTAAGTAAATTTCTTTGCCCTCTGTGGATTCATTCTTACTCACAAGACACACTGATCTACATTATTGTTTG
TTAGATTTTTTTTTAACTAGGATTTTGATATAGTTCTTTGGGAAATTGTTTATGCTGCTTTAAGTTATCTTCAGGTGGAAGCTTTAAATTTTGT
TAGATTTATTTTTTATAATATCAGAAGAAGAAGAATTATATTCATGTTGTTAAATCACCTAGGAAAGAAGAGTAACTGAGAAATACTTGTATAT
TCCAGATATGTGAATCCTCGAAATCCTGTGAAATAGATCCTGTTAAGTTGAAAGAGGGAGATAATGTAGAGAATAATAAGGTATGATTATACAG
TGTCATTTATATCTACATTAATTTTTATCTTCATGTGATACCTGTCTCCCATAAATGGTTTATTTTATTTTCTATGTATGAGTGTTTTGTCTGC
ATGTATGTCAGTGTGCCATATGTGTGCCTGGTACCTGTGGAAGTCAGAAGAGGGCATTGAATCATCTGGGAATAGAGTTGAGGTGGTTATAAAC
CATTATGTGGGTGCTAAAATCAAACCCAGGTCCTCTGCAAGCACATAAGTGCTGTTAACCACTTAGCCACCTCTCTACCCTCCAACATATACTC
TTAAACTGTGCTTCTTGTGAAAATTACTCATATATTCATTCATTTGTCTAGAAAGTCTGAATTTAACTTAATAAATTAACCTTAATGTTGATCG
GCCTTTAACCTGAGTTGGGACTAGAAGCAGGAGACTCGAGAGTCATCTTCTAATAAGTCTCATACCCATTATTTGTTCTCATGAAGATATTGAA
GCTGTGTGACAATCAGAATCTTAGTGTTTACTTTGTTAAAACCTGCAGGAGAATCTGTACTACTATGTGGACAAAGTATTCAATACAATCGTAG
GATCAAGTGTGAGCTGCCCCACTGTGATGTGTGATATTTTTTATTCTCTGAGGCAAATGGCTGCTAAGAAATTTCCTAGTAAGTGCCTTGGTAT
ACTTAATCACATTTTCTTTTTCTATTTTTTTCTCCATGCTGCTCATTTGGTTTGTGTGAAATACTTGTGCATAGGTACAATCTTCTGAGTTTTT
CAAAATGGTGCTAGCTTCTTTGTGAGATTTAATGATTTATTTTTTCTAGAATCTCAAAACATGCAATTCACTTTATTTCAATATAATGGCAACT
ATATAAAGAGCTAATCAAAATCATTAGTTTTAAGAAGGGACAGTTTGCATCTGTACAGTTTTCTATAATATGTAAGGAAATCTTTATGTGTCGT
ATAGTTAACAGATTGTAGAATAAACCCGTGTGTACCAGCTATTTTTTCCAGTTGCAGATTTTCAAACAGTAGTAATTGGTAGTTTTATACAATT
GACTAGATTTGACAGCTTGAAGATACTAAGATGTCTGTGGTGAGATGTCTTTTCAGAAATAGTCTTTGGCTTTACAAATACTTGTCCCACAATC
CATAGGATGATCTTGCTTCAGGTTTTGCAAAAATATCTATATTAAGATTTTGCTTGGAAAGGCTTTATAAAGTTATGAGATCTACTTCTTATTG
TTAGCACTTGGAAATACTCAAAATTTTAGTTCATTTCTGTTACATAAATGAATTTGCCAAAACTCATTGCAGATCTGCCCATAACACAGACAAG
GCAACTATTTACAATAATAATCAGGTTTATCTATCTGCATAAGACTGTAAATTAACTTTCTTAGCCATCCAACGAGATTTTGTTATTTCATTAT
GCTTCCATTCGTCAGACCCTTTATTTAATTCACTCATACTAACTGCTACATGAATTCGGGTTTTGGTCTCTTGGCTAATTACAATAAAGAGATA
AAACATTTAGCTTTAAATAAATATATCTAGTCTTCATAATCAATAAAGGAGGCAGAGACTTGATTTTGCATACATAAAGATGAAATAGCAATTA
GATTCTGTTTTCAAATAGTGAGCTAGATCATAACCACTTTGCCTGCTTGCTAGTCTGTCTTATCCTTTACTCTTAACATGTTTGAAACCATTAC
CCATTGATTAGCCAATGAAACTGAGGTCTCAGTTGTTGTTACTACCTGGAGCTCTGCTACCCTGCTAGCAGGGCAGGCAGTCATAATGATGGAC

AGCTTGACAGTTCCCTACTGGGTGATTTGTAAGACTAAACCCCACGTCAAATCCGGAGATTCTTTCCCTCACTGCCCTTTCTCTGGCGTCTGAT
TGTTGGGTTAGTTGTTGACTCCAGTCTGAAACAAGTCCTGACAATGAGTGATCATTGCTACAAGTAGCTTTCAATTCACCTGCAGTTTATGTGA
AATATTGGTAGCTTTAAAAGTACTGTCTCTACCTAATTGCTTTTAGTCTTTAAATTGTTGGCTTTTCTTTTTGTGACAAGTACATGAGAGAAAC
AACATAAAAGGTAATTGTGGGTTCATAGTTTCAGAAGCCTCAGTCCAACACCCACAGGCTCCGTTACTTTAGTCAGGCCTGAGACAAGGCAAAG
CACTGTTACGGCATCTTGTAGCAGAGACCGCTTGTCTCCTGGCAGTGAGGAGGCAGAGAGAGGGAGGGATGAGCCAGGGCCAGAATACACCCTT
CAAAGACATATCCAAAGTCCTCTGCTTCCGCTAATAAGCCTCCAGCTTCCACAGCCCCACCACCTCGTACAACAGTCTATTGCAGTTGGAATCC
GTCAGTGTGGTGAACGTTGATTAGATCGTGATCTAGTCATCTCTGGAAACATTCTTACAGAAATACTCCAGATGGTGGTCTACTGGTCTTGTAG
GCATTTTTCATCTAATGAACTGAATAATCAAGACTAACCATAATATAGCCTTAGACACCATGAAGATTTTTAGGGTGAATTTAAAACAAAAATA
TAAAACTGAAAGCTAGTTTTTGGTATTCAGTGTTGTCACTAGGTAGTACTACGTAGGGCTTTAATGTTACTTTTTTTTTAAAATAATTTCAAGAA
TCTTTTATATCAAGAAGCTATTTTTCAAATTAAAAGTATTTCTTTAAAAACAGCAACTTTGCTTTCCGTTTGTTATTTTAAGTTACAGCATTTT
TTTCTCTTAGTTTAGCCACAGTCAGCATCATTTCACAGCTCAGTTTTTACAAGTTATTTTCCTTTCCTACATAGTTTACATGATTTTTTTTTTT
GCTTTCTCCTCTTTGGTTTATAAGTAGTGTGTTTGCATGACGTTTCCCATTTTATCCCTGCAGATCACCCTCATGTTCAGTACTCTGCAGTGAG
CAGCTTTGTCTTCCTTCGTTTCTTTGCTGTAGCGATACTCTCACCTCATGCTTTTCATTTGCGACCTCATTATCCAGTAAGTGTTTGCTCCTCT
CAAAGCCTTGTTCCATTTTTATTTATTTTTTGTAAAATGAAGAAGAAATATGCCATTTTTCTTTTTCGGTGATAAGACATTTCACAGTTGGCAG
AATGCTGCTAAGTTGATGTCTGCTGATGAGCAGAGGGGAGCACTCCTCAGGGCCTTTCTCCGGCTGCTGCACACGGGCTGCGGTCCTTAGTTAC
AGGGAGCTGGGGATGCTGGGGTGGTAGGTGGAGTTGGGGCTGGTTGTTAGCCGACCCTCTCCTGGTTTATTACAGCAGCTTATTTTTTATTTCT
ATATTCTGAGGCAGACTCTTGTTCCATAGCCCAGATGGACCCTGACTCACAGTCTTCCTGCCTCAGCCTCTAGAGTCCAGGAGTACAGGCATTC
CCACCGCTCCTGGTTTACGGTGGTTTAATCATGGCAGTATTTTAAGATCTCAGAAATGTGAAGGAAAATGAAGAAGTTTATTTGAAAAGTATTC
AGGAACCTGACTTACTTGGTATCTTTGTGCTTTTGCTTTCTGTTCACCTAAGTTATATCAAAAGATGAGACTAAAATGAAGTTCTGTTCAGTTA
CCTAAATCTACATCTGCGTTGAATATATACCTCTTCATATTTTAAGGTTTCCTTTTTCTTTTAACCTATTTCTAGTCCTTCATATAGCATATTT
TTAGTCACTCTTTGGTCTTTCTCTGTTGTAAATATTTTATATATACTCTTGATGCTTTAGCTGCTGCTGTGTACAGTAGAATAGGAAACATTTA
GTGATGACCTTGTTCTAAGCTTTCCTTGAATCACTTTCTATGTCTAACTCGCTTAGGTCTTCCTAGTCACTGTAGGAGTAAATTACTTTATTAG
CCCCATATACAGGTAAGGAAATCACCATGCAATAACTTCTCTAGGCTCATATAACTAAGACATCACATTTGGATCCTACACAATTTGTACTAGA
TTCAAATGGGACTAGTTCAGTCTCCACAGTCTATAAGCAGACTGGTATTGAAAATCTTTTTTTTTTTTTTTTAATGTATGTGAGTACACTGTT
GCTGTCTTCAGACACACCAGAAGAGGGCATCAGATACCATTACAGATGGTTGTGAGCCATCATGTAGTTGCTGGGAATTGAACTCAGGACCTCT
GGAAGAGTAGTCAGTGCTCTTAACCGCTGAGCCATCTCTCCAGCCCTGGTGTTGAAAATCTTACAGCAACCACTGTCACAGTGCTCAGTGCTGG
AGACATATGCAGCCTTAATTGACATTCCCTACTTCAATGTACCCATGGTCCATCTAGTAGTGCAGTGTAGGGAAAACTTAGGGGCAAAACTGGC
TTCTGAATGTTCACTTCCCCTCCGAATAGCCTCACAGTGTTAGCTGAGAGCCATGCTGCAGTGGCAGAAGATGGATGTTCTGTGTAGCCTGTAT
CCTTTTGTTCATGGAGAACCCTTCTGTGGCTGTGTTAACTAAAGCTGGAATGACCTGGGGCAGTGAGAGCTTGCCAGCCACATTCTATACAGAA
GTAGAACTCCCACCTCTCCACTTGTGGCTCTGCTTGTATTCAGACTTGGAATTCCTAGATGGAATTTGAAGAAAATCCCTCTAACACAAACACT
TTTAGGTCACTTTTCACGCAACTTTATTATTTAAAGTTTTCTTTTTGTTGTTATTTGCCCCCATCCCCAATACCTCAGCATCTCCATCCAGTCT
TTAGCCATAATTCTTCATTTTAAAGAAAATTTGAAGTAGTGGGAATAGAGACAATATGACATTTGACATTGGTGCTGTAGGGATGAGCATAGCT
GCCTTCTATTAAGGTAGAACTATTGCATCAGTTTAAAGCCAGCACATGATTAGCCAAGTAAAAAGTAATAGTAAGCACTGCTGTACAGGCCGAG
AATACAGAGCAATCCCAGACTCTGATGGCTTCATCAGGAACTGGAAGTTACAAAGTAATACAGGTGCAGAATTGATCAAATGCTACTGAATTTT
ATGTTTAGAAATCCTTTTAATTCTAAGAAACTAATTATAGAAGATGTTTTAGAGTAGACAAGAAAGAATAAAGAACAGGTAGCTAAATAATCAT
AGCAAGGGCAGGAGATCTGAGCGGTGCTTGCTGACAGTCAAGGGATGTGTGCACACACATGTATAAAAACTGTTTTGAAAACATTAGTTTAGTA
AAAATGAAGGCATGGGCTGGAGAGTTGGCTCCGCGGTTAAGAGCATTAACTGTACTTCCAGAGGTCCTGAGTTCAATTCCCAGCAACCACATGG
TGGCTCACAACCATCTGTAATGAGATCAGATGCCCTCTACTGGTGTGTCTGAGAACAGCAACAGTGCTCACATACACAAAATAAATAAATCTTA
AGAAAGAAAGAAAAGAAGAAAGGGTGAGCTGGATTGATGGCTCAGCAGTTAAGAAGGCATACTGCTCTTTCTAAGCCCCTAACTTCAGTTC
CCAGCACCACGTCAGGCAGCTCACGGCCCTCAGTAACACCTATTCTAGAGGGTCTGACCCCTCTTCTGAGCTCTGGGGACGTGCACCCTGTGTG
CACATACCTACACACAGATACACATATGCAGATAAAAAATAAGGTTTTAAAATAATGTAAATAATGAGATGGACTAAGGGCTGGGACTAGAGCT
CAATGTTCAGTCATTTGCCAAGCATTTGTGAGGCCCTACATTCAATTCCTAGGGCTGTAAGAAAGGAAAAAAAACGGAAACCTTCACTTGAACC
TCCTTGGTGATTGTTGTGTGTTTTTTTTTTAAATACAGATTATGTAAACATTGATTTTGTAAACCAATGTTGAAATTTCAAAAGGAAAATCATT
AGATGATTCTTATTAAATCCCTCATTCTTCCTTGATTATCCCTTTGAAGGCCCTCCTGCTGAAGACCTCTTTTACCCATTGGTTTACTTTCTGT
CTGTTGTATATACCTGTAATACCCTGTGCACTCTCTCTCCCTCTCATGGCATTTTCTATTCTGGCTAGTAACATCTGTGTATAACAGATCTCTG
CATACAGACTGCCAGGATCTCCAGAACAAGGGAGGACCTTTTCCTAATATGTGTATCCAAAGCATGTGGTAGTGTCTAAGACAGTCACATGATC
AGTTTAATTAATAAAAATGATAGTTGAGAGAAGGAACTCATCAAGTGAGTCTTTTCTTAATGGAGAAACAGATTCATGGTTTAAATACAGGGGA
AGAGGCAGGCACTCGAAAAGAGGGCTTGCTGCCTCCAGGTCAGAATCCTAGAGGATTCTAAGCAAAGGTGTAAGATTAGAACCGAGCAGCTGCT
CTTTTGAAAGATAACAGCAAACTTGGGACATTAGTTTTTTTGTAGACCAAAGACAGTCAAATGGCACCAATGAAAAACAAGAGAATGTGTGCTG
AGTTACTTTGAATTAAAAAGTTTAACATTTTGGTTGACTTTAATAATTGTTACATAGTGTTTGCTGAGTTGTGTACTGGAAGCCAGGTGAGGAA
GGTCCTGGGTATACAGTGATGGGAAATTTTTATTACAGTTTGCATGTATACAGTAACGAGTCAAAGCAGCCGAGTGACGTGGTACTACAGTAGC
CACGGTTATGTGGGTCAAAGCAGCCGAGTGACATGGTACTACAGTAGCCACAGTTATATGGGTCTAAGCCAGCCTTGGTGACCTGACACTGAAT
AAAATGAGCTCTGTTCCCTCTTGCTAGTTCAAAAAAAGAATAACCTAAAACACTGAATTTAAAAACCACGTTTAAGCCCGGCAGTGGTGACACA
CACCTTTAATTTCGGCACTGAGGAGGCACAGGTAGGCAGATCTGTGTTCAGGGCCAGAATGGTCTACAGAAAGAGTTCCAGGACAGCCAGGGCT
ACACTGAGAAACCTTGTTTCAAAAAATCAAGAAAACAAACAAATCAACAAGTTTAAATGGAGAAGTCTTGTGAAATTCAATTCAAACTTAATGT
TCCCGGAACTTCTAAAGAATGTTAACTCTCTTCCCAGGTAGAGCTGTAGTGGGGTTCTCTTACAGGTAGAACAGAGTCCCAGGTGCTCCATCTG
AAGTCATTTTTAGATAACCATAATTTATAACTTTTACCAGATATATCATAATGGTCATATACCAGATATTCCTTCTCCGGATTTCCTCATTTCT
TGGTCATTTCTTCCCCACTACATTCATTGCCTGCTTTTAATATGAGATATTGAAAGATAAAACAGTATTAACTATAATAATTGTATTTTCCTTG
ATATGTCTTTTGATAATATTGTTTACTGTGGTAAGATAGTTGGTTATGTAGACATGTAGGTCAGTAAGACTCATGAGCGAACTGTGTTCTGTCC
ATTTATTATATGTACTTTAATGTAAATTACACTACTATCAGGTAGACAGACCTGAAAGATAACGTGGCTAACAGACCCAAACAGTTACCTTCCA
GTACGTTCTTATGTGAGTGGGTGACTCCATTTCCTGGTCTGAATTTGTATTCTCCCTCTGCTCCCATGATGGGAACAGTTGATTGCAGAAGTCT
TACGTGTTCTTTGAATATGCTTAGAAGTAGACTGGGCACAGAAAGTTGGAAACACCTCTAAGTTAGAAAAAAAAAAATAGGTATCTCTGATATTC
CAAAAATAAATAGATTTGGAGTGTGATCCAGTCTTTCGACTACACAAAGCCCTTAGATACAGTTGATTACATTATGTTTTTCTTTTTTCTAAG
TCCTTAGTATTGTCTTTAAAGATTGATTTATTTATGTTATGTGTATGAGTACCACATTATGTTTTTCAAAGGGAACAAGTCATTAAGTGTTTAA
TCTCTGACTTTTTTTTTAATGGTACTGAGAATGGAATTGAAAGGTCACGCATGCTAGGCAAGCATTCCACCACTGAGCTGTTCTACCGGCCCTCT
TTACTCTTTATACTGAGGCAAAGCAGTCTCATTCGGTTGCCTGGACTGGATTTTCTCTGTAGCTTTAACAGACCTGAGTTTGCAGTCCTTCTGT
CTGAGCCTCCCAAGGAATTGAGATCGTAGACCTACACCACCAACTTCTTTCATTGTCTCCCAACCCAAGTTCTATAAGTTGTCTTAGGCTTGGC
TGCATCTTAACTATCTTTGTTTGAATGAACATTTTTAGCCATTATTTTAGAGCCATATAGCCCATTCACTCTATTCTGCTTTTTATATAAACTC
AACTTCTTGAAAACTTAAGAATTTTGATCATTCTTACCTTTTCTAGGATACACAGACAGTTAGGACATTGACTCTCATCTCAAAAACCATTCAG
ATTATTGGAAACTGGGGATGTCAGTCCAGAAAAAAGGTGAGTTTATAACTGTTTCCTCTTTGCATACTTAACAAATTTTATTATATACTAAGAT
TCCTTCTTCACTTACTTCCTTACATGTTAAAAATAAAACTGAAGAGAATACATATTCACATGCAATAATGGTCTTTTAGTGGGTGTTCTACTGT
AGTCACCTTTTGAAGGAGACGGTGATACTTAACCTGATATACCCGTGGTAGGGAAAAAACTAGGAAGAAGACACAGGCACAGCTGAGTTATGTG
GTGGTCTGTGCCATAGTCACCTAACAGCACTGGAAGAAGCCTTCAGCTCCAGGATGGATGATTCATGGAGACATGGACAGCTTTATCCTTAGCT

TCAAAATACAGGCCCGTCATTGTCTTGTGTTCTACCTCAGAGCTTCATAAACTTGTCACTCATGAAGCCGTTTACTTAAGAAACTTATGCAACC
TTACGTATAAAAATCAAACATTTACTGATAATAACTTACTTTAGCATTTTGAAGTCCTCAGCTCCCAGTGCTGAGGAGTTTTTTCTTCCATTTG
CTTTTGCAACTGCTTTCTTGGGGCTTTTCCCTAGTTTAAGACCTAGAAGGAAAAGGTCAAACAGTGACTGCCAGTTCAAAGCTATATGCAGGCT
CTGAGGGATATTCACTGCTCCTCGGTTCCTCTCTCACCAAGAATGTTCATCAAAGAAGGGAGAAGAGCCAGGCTCAGATCAATAAAGTAACTGC
AGGTCACTGACTCTACAAAAAAAAAAAAAAGGCTTTGCTGGCACCCTGCATCTGGCCCAGCATGAGGTATCTTTGGCTATCAGCAGCTGGAATC
AACAGAATGTGAATGGAGCCTGATCATGTTCAGGGAGAGGCTGAGCATGATATCCCATGTGCTGTGTGGGGAAGGCTAAAGACCATGAGTGTGT
GGTAGCCATGATCCTGGAACATTCTGGGTTCGCTGACTTGGAGGAATGCTCTCTAGGAGAGCTCTGAACAAGATGGTGAATGTGGCTGTGAGTT
CCCAGCCCGCCTGCTGTCCCACATGGAGAAGAGTTGAAGAAGCTCTCTATAGTTGCTTCTGAGCCACGATCTGGCCTACTACACAGATGAGGCA
GCACTCTTGGCCCTCTGGCTGCAGACCTGGCTCCTTAAGGCACCCAAGTGAATTGCCATGAGTAATTATGACTGATTAGCCAAGAGGAGAGACA
CCACCTTACTTGCTACCTGACATGAATGAAATCTGCGGATCCCAGAGGATTGGGGAACCAGAAGAGATTGTGCCGCGCTTTCCCGGAGTTGGCT
CTTATCAGTGGGGAGAACCGCATAGTGGCCAGCTACTTCCCTACTCTGAAGAAAGTAGACTTGAGCTCATCTGGGGAAACAAAGCAGTTGGTAT
GGAAGCTGGAAGCCTTAAGAGGAAGTACTTTGCCTTGCCCTGGAAACCTGCCTAGGACACGGCTGGTATGAAGAGCCAACAAACACACAAAGAA
AAGCTAGGATTGGGTGACCTACACTTGCTCTGATCTACTAACTAACCTGTATTAGGTACCTTTATTATGTATAACAAGAGGAGTTAGCTGATCT
TAATGGGAAGTCTCTGTAGGACACAGTCTCAGGCAGTACTTCCTGAAGGAGGAAGTTGTATTTGCTAGTTTCTGGTCCCAGTAAATGGAAGGTT
TTGCCATTTACAGGGGTCTGAGGCAACTACAGTCCTTGACAGGGCTATGTTCTTGCCATCAGTCCACATTCACCCTGTGCTTCATCTGATCCCC
ACACTAGAGTGTTGTAAGTTCCAGGTTCTATAGGGAAAATTTATGAAGTTGTTCACAATTTTTCATTTGTGATAAATACATTTGAACACTCCTA
AGCTGGGCCCATTCCTGTGTGGCTGGTGGGAGCAGCCCCTGTGAGCTGGAGGCCTCACCCTTATCACTGTCTCTCACGTCTCAGGATCTTTCTT
TCCCTCCCTGCCTTCTTCCTTTCCCTTGAGACTAGAAATCAAAGGGCTGGGCTGTATGTACCTCAGTGGGAGAGCCCTTATCTTTTATAAATCA
GACCATAGGTTCAGTCCCCACTACTACCATTTTTAAAACAAAAAAGAAACCAGACATTGGGCTGCATAGCTTCCATCCAGATCTGCATCCCTCC
CTGTGTTTACTCTGAGCCTCTGGAGAGCCATGAGCTTCCAGGAGGCCCTTGTTTTGGATTCACAGTTGCACTTGTCAGGAGACCCCCAGGTAGA
TTTTTATTTCTTACTTGGTCCTTTAGACCTTGGAGTAATGATGGCTCTATACCTTATTGTATGCTAGTTAAACCTATCCATGCATTTGTAAGTA
CTTTTCAAATTCTCTGTTACATTTTTCATTTTGTCATATAATAATAATACAAATTTATATATGCAATGTTTTAATACATATTTACATTGTATAT
TGGTCAGATATTTTAAACCACTCTTTGTATATATAATTTTACCACTTATTAAAGACAAAATACAAATTTGCATACTAACGAGAAGGATATACTT
GTTTATGTTTACATAAATAAATACTAGTTGAATATTTAGAGTTGAGTATATAGAGCATCTTCAGTGTTTTTCAGAGTTGATTGTATTTTGATTT
TGTAATCATTCAGTTTACATAAACATATAGTACAAAATGGCAGAAGTATATTTAAGGCCATTTTTTAAATTGTTGGAAATTTTGTCCTAATCTC
AAGCTAGAATTTACTTAGTGTTTCTTTGGTTTTTGGTTGGTTGGTTTGGGATTTATTTGTTTGTTTAGTGAAACTTAAGTCAGCAACATAAGCA
ATTAAAGTCAAACATTCTAATAAAATCCAAAACTACTAATTGATACATGCTGACTAATGATGTGGGAGAATATTATAGGTTTTTGTTTCTGTAA
TTAAGCCATTATGTTTTTGTTAGAGCAAAAGCCTTCATGTCTAGTAAAAATAGCTCAGTTCCTAGTATACGGTGGCCCAGTGCTTTGCGCTGAG
GCCTTCAGGGCAGCAGTGACTGGGGATGTGTGATGTATTGGCATGCAGAGTGCAAAGCATGCGTGCGGTACCATGCAGCAGAAACACCTCAGAG
TTGGACATGTTTGATTTTGAACTAGTTCTTGTTGTTTGTGTCTTTAGAAACCTTTATTGTTGATAAGTTTCTCATGACCACATGTGAGACACGA
CTAATAATTTAAGAACTGTGCGTATTTAACATACACAAATCCTGTATTTGTTTTTCTCATAGTCACGGTTCAAAAAGTCAGTCATGTGTGAATTT
CTCAAAATGTTTCAAGAAGAAAGATATTTTACAGATGTGAAAAAGGTATGGTTCTTTCTTGTCATCTAGTTTAAAGAAATCAACATCTCATATT
CTTCCAAAGAGTCCATTTCCAGCTTTAAAAAAATAAAATCATGTTGAAACTGTCAACCATGAAGTCTTTTTTGGGTTGGAGAGATGGCTTAGAG
GTTTAAAGCACTGACTGCTCTTCCAGAGGTCCTGAGTTCAATTCCCAGCAACCACATGGTGACTCACAACCATCTGTAATGGGATCCGATGCCC
TCTTTTGGCACCTAGGGCATGTATGCTGGCAGAACACTGTGTACATAATAAGTAAAGAAATCTTTTTTTTTTTTTAAAGGTCTTTTTCTTCCAA
TTCTATCAAATAAAGCTGTGAGATTAAGCAAGTCTTAACAATAACTACTGTAAGCCTTAACTCTATAAATACAGATTTCTATGCAACACTATTG
ACATTTGGGGCTAGGTAGTTATTGATTTTGCATCGTAGGATATATGGCAACATCCATCAATTAAATGTCAATGGCATATACCCAGTTTTGAAGG
CCAGAAATGCTTTTAGCTATTACTAAATAGATGTCCCCTGGAGGATGGAACTGGCTTTGTTAAGAACCTTTGTTCTAGGACTAAAGCCTAGTAG
AGCTTGTTATGTAGTAGAGTGGGTACTCACTTGCCATAGCAAAGCAAAATGGGTCACCAGGATGGCTCAGCAGGTAAAGGGACTTCTTAGAGGA
CCTTATTGCTGGGGTCACAGTGATTGGAAGGAGGGTACCAGCTCCCATAGTTGTCCTCCAACCTCCATGTGTGTGCTGAGACACACACATTCAC
ATAAAGTCAGAAAAAAATGTAAAACAGTGTTTTCAATATAATGAGTATGCATGGTAGTAACTGGAAAAAAATAAGTAAAAATAAAAATATATAA
ATGCCTACAGCATAAAATGTCGATATAAGACCTACAATATGTAAAAAGGAGTGTGACTAGAAACTGAGAAGTCTTTTTAAGTCTTTAATTTTTT
GGTCCTTAACTTGTTATTCATTCACATAAAATACATTATTATAACCCTGAAAAACTTGGAACAAAAAATTATCTTAGGATATAGCTAAACTAAA
CTTGAAGAAAGTAATGTTTCGTTATCACAATCCTAACTTAGTGAACCAAGTTAGCAAGGCTAGTCTTAAAGCCTGTTGAGTTTCTATACATGAT
TTAGCTGTTGATGGCCAAGAACATTTTTACTGAAGTACCTGTTTAGACTGAAGACATACTTTCTCGAAGACTCTATGAGTGAAAATGCTCCCAT
CAGATAGGGCTTGGTTTTGTTTTATTTTTACAGAGTCTCAGTATATAGCCTTGGCTATCCTAGTTCTTAGTATGTAGACCCGGCTGGCCTCAAA
CTCACAGGTAGCCACCTGCCTCTACCTCCTAAGTGCTGAAACTAATGGTGTACACCACTATGCTGAACCTAAATTTTTTTCTCCTTTAGTTGAA
AGCTTTTGAGAAAATTTAATAATATGCTTTTAATTTGTAAAATAAAATTACAAGTTTTGTATANNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNTACATTTACTGTCTCATGTATATCTGTAGTCCTGAGGTAGCATAAGATAGTTTGTCCTAAAATCTTAATT
ATCGCCAGGCAGTGGTGGCACACGCCTTTAGTCCCAGCACTTGGGAGGCAGAGGCAGGCAGATTTCTGAGTTCGAGGCCAGCCTGGTCTACAGA
GTGAGTTCCAGGACAGTCAGGGCTACACAGAGGAAACCCTGTCTCCGGGGGAAAAAAAAATCTTGATTATCTTTGTGTGTGTCCATGTGTCTTTC
TGTCTGTCTATAGATCGGACCTAGGATTTTACATATCCTAGACTGTTCTGTCTCCAGCCTCTATAATTAAGGAATTACGAGTGTCCATGTAACT
CATCCCATACTGGCATTTATACTAGTGACTTTTAAGTGACTCGTAACTAAATCATACGCTGTTGCCCACACAGTAAAAGGAAAGGTAACCAGCA
GAGTTCTGGATACAAGGTGGTTATGCAGTTTGGTGACAGAAGCACAGCACTGTGAGGGAGTGAAGATGTTTACAGCTCTAAGTAGAGTGAATCT
AAACCAGCTCCTTACCTACAGTTACTTACGTCTGAGTGGTTTCACATCACACATTGGCTTTTATCTGATACTTCTTCATATAATGCTAAGAAGT
GAGATATTCAAGTAGCCATTAAACTCCACTGGTGGATGGCCCATCTATTAGAACTACAGATGAGACAGCATACTTTGTTACTGTTGTCCCTGGA
TACTTGAACCTGCACCACCAAGACAAAAAGGATTCTGTTCTTGGTTGTTCACTTACCAAGATTCCCTTCCAGCAAACTGGAAGGAAGCCTCTTG
AGTGAGTGCTCTGGTGGGCGAATCACAGCACCCATAGCCCCAGCTTGCTGCGCCTTCAGTCCTGTAGAGGAAGCACTCGTCCCTTGATGTCCTT
CTTATAAAACTATGTGCTTTTGTCGTGTGTATCCTAAATCCTAAACAAAATAAAGTTAAAAACAAAAGCGAAGACAGCAATACAGGCCAGACAA
CTGGGAGCATAATATCTCTTGGATAAGCAGATAGATAGGATTCCTCTCTAAGAGGGGGAGGTGCTTTGTGAAGTGCTGTTTCCTCTTTCCACGT
GCTGGGAAGCCCGTGACTAGTCCAGCTTACATACTCATGAAGCTAAATGCTGTTCACTGAGTGGCCTCCTGTTTCTAGCAATGGATGCTACAAA
TTTTCTTGAGCCACATCCTTATATTCTGCATAGAAAATTTGTAAATATTTATATTTGATTTTAGGTTAGCTCATTTGTCAAGGTCACCAGTTAT
ATATAATAGAAATCAGCAAGCTATTTTCTATGAATAACCAATGAATGGGAGGGCTTATTGGTTACATAAGACCAATAAATCCTTGTACTTGTAT
TAAATATCCCCCTTTGGTTCCATCCAGTAGTCACACACAGTATTTATTTGTCACGATGGAAAACACACTGTAAAATAGTACATGAGAGCCCTGT
GCCAGTGTTTGCTGCAAATCAAAGATGAGAGTTTTAAAAGGGAAGAAAAATAAATGCTTTGAGCCAGGTGGTGGCAGCACATGCCTTTAATCCC
AGCACTTGGGATGCAGAGGAGGGTAGATCTCTGTGAGTTTGAGGCCAGTCTGGACCACAGAATGAGTTCTAGGCCAGCCAGGGTACCAAAAATA
TGGATAAGGGCCAGATGTGGTGGTATATGCCAGTCATCTTAGCACTGAGGAGGCTGAGACAGGAAGATTACAGTGTGTTTGAGTTCAGCCTCAG
AAATAGTGAGACCCTGTCTCAAAACGAATTACAGTTAAGGATTATAGATTGAGTTATTTCTCTAGGTAAGTACATTCAGAATTTGAGTAAGTTA
AGAAACAATTTTTGCCTTTAATCCCAGCACTTAGGAGGCAGAGGCAGGCAGATTTCTGAGTTCGAGGCCAGCCTGGTCTACAGAGTGAGTTCCA
GGACAGCCAGGGTTATACAGAGAAACCCTGTCTCAAAAAACCAGAGAGAGAGAGAGAGAGAGAAACAATTTTTTAGAACGCCTTTCTTTTTGT
AAATTGGGAACTTTGTATAACCAAATGTATTTTATTTCATAGATTACTATAAGATGAGCCTCTTTGATCCAAGGATGATCTAAGATCTGAACTA
TTGCAATATTTAAAACTTCTTGAGTGGACATGATGTCACAGTGGAAAATTAAACACTTCATCTCAAGTGATAGGTCACAAACTGCAGGTGTAGT
AAAACAAAAACTATATGAAATTACCCTTAGGCTATGTATATGAATTTTGTTTAGATATGAGTCCAGTCCCCAAGATACCTTACTATATATGCAA

ATGTTTCAGAATCCTAAATCTAAAGCACTTTGGTTCTAAGCAAGAGATTTCCAACCTGCATATATATATATACTTTAGTAATAAGAAATTCCCT
AATATAATCAGTGACATGCAAGATAAAAGTTTGTTTGTTTTTTAAGACAGAGTTTCTTGGTATAGCCTTGGCTATCCAGAAACTCATTGTAGAC
CAGGCTGCCTCAAACTCAGAGATCTACCTACCTTTGCCTCTGGAGTGCTGGAATTAAAGGTGTGTGCTGCCACCACCACCTGACAGATAAAATA
ATTTTTTATAATATACCTTATTTACTCACACACTGTAATACTTCCCCATCTCCCCATTTAGTTCTTGGATGAAATTTCATCTACGGAAACTAAA
GAGTCCAGTGGTACGAGTGAGCCTGTGCACCTGAAAGAAGGGTAATTAACTAAATGAGACATGAAAGTTATAACTCACTGTAGACAGTAAGTAC
AAAGAACATGGCTTTGAGAAGGAGGACACCTGAGTTTTCATTCTGTTCCAGAGCTTCCTAAGCGGCTTCAGCCAGGTAAATCACCCTCACGGCC
CTGTCTGCTCCGTCTTAGGACAGCACACGCTGACTACACAGTCCCAGGCTGTTCTGTAGTTAGGAAATGGCTCTGTTTCCTTACCGAGGAGTGG
TTGTTACTAGGAATAATGAGATGGAAATAACTTTCCTGGCCCTTTTTATTCTGTATAGCACAATTCTAAAACGACATTACTTAGAAGAGGAGAG
GTGCCTCACTCATGGTTAAGAGAGGTAGTGGCTCCTGTAGAGGACCTGGGTTCAATTCCCAGCACCCATAGAGCAGCTCACAACTGTTTGTAAC
TCCAGTTCCAAGGGATCTGATGCCCTCTTCAGATTTCCACAGGCAATGTACACTGTGCATAGATGTCATGCCAGGCTACGCCATTCCTAAAAGGA
GAACTAAGACAGCCCTGCATTGATAGAAGGACGTCCTGAGTCATCCCCAGACGTCACTGCTGTGCACTAGTAGCCGTGCATGGCCGCGATGGCA
CCTAACAGTCAGGGTCAGCTTGGTTTCAGGGCAGTGGTTTGCACCTCTGAGGGTTAAATGTTTGCTTCTGTCTGTTATGTTGGCAGTGAGATGT
ATAAGAGAGCTCAAGGAAGAACCCGTATTGGAAAGAAGAACTTCAAGAAACGATGGTTCTGCTTGACGAGCAGAGAGCTCACCTACCACAGACA
GCAAGGTAGAGTTGTGCTTGGGCTTCGTTGTGGCTTTACTCTGCTGGTTCATGGTGCCGCGGTGATCGCTGCACAGTAAATGGTTCAGAGTGTC
TGTCCCACAGTGACACACAAAACTGAACTGAAGTGTTTCTTTTATCACATTATGTAGTATATAATAAAACTATAACGTAAAAGCCTGGTGTAAA
CCAGTTTGAGAATAAAACAACTGGACTTGGTAAGTAAGACAGTATAACAATACAAAGCAGAAAGGCACAGACTTAACAGGTTAACTAACAACCA
CAAGCACTCAGCTAATCTGTTAACTCATGGTGCTCAGTAGGTTTTGAAGTCCCATGAAATCTGATGGGTAAATACCAACTAGGAGAGCTTCTCC
TATGAATACCGAAATGATGACATAAAGGCCTGATACAAGGTACTTTGAGAGAATATAGAGTGCTTCATTGGGAATTCCTGAATAGTAGAATAAT
TGAGAAGAGAGATATTTTAAAGAGATGAGGTCTTGACCCAGAACTCTGGGCTTAAGCAGTCTCTTGCATCAGCCTCCCAAATAGCAGGGACTAC
TGGCATGTGTGCACATGTGCACACACACATATGAGCAGTTTAACCTGAAGGAATGAATAGACATGTATATTCCAAGTATATTAATAAGAAGTTT
TTTACAGTGTGTTGCATTTTAGGCATCTGCATAGTTTGTTACAGTATATAATATGTATACAGTATATAAATATGTAACTAACGATCAGTAGGCT
TACCTTTGTTTTTAAAGCTGTCTTTGAATATTTCAGAATTCTAGTTTATATTAAATTTTATATAAATATTCTTACCTATGGATACCATAGTTGT
GTGATAATGGTTATTTTAATAGCACAAGCACAATTTAAACCAGGCATGGGGGTACATACCTCTAATCCAGGCTCTAAACAGTGGGTGGAGTTAT
AGGACAGAGACAGACAGATCTCCATGAGGTCGAAGCCAACCTGGTCTACATTGTGAGTCCTTAAACAGCCCAGATAACAGAGAGAGACTGCTGC
TTAAAAAAACAATCAAACAAAAAACCCTAATAATTATAACAACAATAGTGCAATTAAATAAAATTTAAGATAAATTAGTCATCTTCTGTGAATA
AACAAGTTATTTGTTCCTCAGTTAAAACACTATCTAGCCAGGCGGTGGTGGTGCACGCCTTTAATCCCAGCACTTGGGAGGCAGAGGCAGGCGG
ATTTCTTGAGTTCGAGGCTAGCCTGGTCTACAAAGTGAGTTTCAGGACAGGGCTACACAAAGAAACCCTGTCTTGAAAAGCCAAAAAAAAAAAA
AAAAAAAACACCAAAACAAAACACTATCTAATCTAACCCAGCATTCCAAAGCCTGCTAGTTAGAAAGTTGTTGAAGTCAGATGATAGTCATGGT
GAATTTCCTGAGAATCTTACTATGTACATATACACATGGAGTTTGCATAGGAATTTCATGGACCTCAGAAGCCTCAAGTGTACCTACAGTTGTC
ACATTTAGCCTTTTGTTCTAGCCAGTGATGCTAAAAAAGGATGGACTTTCACAGAATTAAGCTAGTAGAACTGTAAGAATGGATGTATTAGATC
TGTGTTGGTTTTATGTTGGAGGAAATACACAGGATGGTGAGATTATTTGCCAAAGCTTACAGTTCTAAGCATGAATAATTGTTGTTTTAACTAT
TTTGATGGATTTTTTTCCAAATTGGATTACATCCTTTCCTGCTGTCTAAAAAAGAATTCATCGAACATAAGTTCACATTTTCTGATTTCTTGGG
GTGGTCATGGGTGATATTACTGCATTTTTAGAGTGCCAAAGGGTAGGTGCAGCTGTTTTTTCCAGCTGACAGCCTTTGTTCCCAGTTAAACACC
TCAGAAGCTGCGCTTTTGTGTCCGTGTGTTTGCTTTGTACAGTTTATCTCTCACCTCTTTTAGTCAGGCTGTTATCTTAAGTTTCCTTTGCTGT
CAGTGACGTGTCTCACTCCCATCCCTGTAGCCAGCCTTCATCCCTTATGGCTAATATACTAGGGATTAAGGTGCAGATACTATAATTGCTAAAC
TACACCTAAGATCTAAGGCTTCGAAAGCAGATGTAAGGGCTTTCCCTCATAAATAAAGTGTCCGAGCTTTGTATTTGCTGCTTGCTCAGCTTAC
TTCTATCTTCTGGCTGTTTTCTTGATAGCCTAAACTAGTCATTATTTTTTGTTGCTACAGCTACTATATTAAATTTTGCTATACAATAAATTTT
GAGGTGCCGGGCGTGGTGGCGCACGCCTTTAATCCCAGTGCTTGGGAGGCAGAGGCAGGCGGATTTCTGAGTTCGAGGCCAGCCTGGTCTACAA
AGTGAGTTCCAGGACAGCCAGGGCTACACAGAGAAACCCTGTCTCAAAAAAAAAAAAATTTTTTTTTACATTTGGTTTGGATTTTCTATATTGA
TACAGATTAAGGCTATATTTCGTTACAACATACTATGAATATATGTTTCAACTCTTGTTTAAGGTGTTGTATCTATGCAATGCTTCAAAATGCA
ATATTAAGTTCCATATAATGATCCTTAATTTTCCTCAGAACTTTAAAGTTATAATACTCTGACCTATGGCCATAGTATCATAGTTCCATTCTTA
GCTTACCTCAGAAAATAAGTAGACCCCTAACCTAGTTAGTAGTTAGATGGAAAACTACTTGGGAATAACAGGTGCTGTAGGTGTGTGTGTGCGC
ATATTTTATTTTTATATATATTGCTCCATTGTTAATAGCTTCCATTGTTGCTAGTGAAAATTTTTATATCTGATTATTAAATTTCTGATGTGTC
TCTCTGGAAACTCTTGTAACATTTCTTTAGTAAGTTTTGCTATTTTGTGACCCATAATTTAGAAATTTTTCCTTTTTCTTTTTCTTCTATTCCT
GCCTAACACTTGGTATATCTTTCCATTTAGAGACTCCTTATCTTTTTCTTAAGGGCATTTAGTCACTTGCCAACACTTTTAAGTCCTATGAGTC
TAAGCTTGTATTATTGTTTCTATGTCATTCTGTGTTGTAGTTTTGGAAACTTCTTGGAGAGATCTTTTGTTTCTAACTCACATTGTAATGTTAT
CATGGTTGACAGAAGTAGCCTTCATAGTGTAAGAACAGATAGGTAGCCCCTAGAGCATCTAACATTTGTAGTATTAGAATTGGTTCCAAATGAA
TAAGTACAACTTTAGAGTATGGACATGTTGTAAATATCTAACAGATTTAAAGAAAGAATATTTTTAAATTATCTGGCCTCCACTGTCCTGTATA
GCTTGGTACCCAACGCTGTCTCTCTGTCTCCTTTGTCCCCAGATCATACCTCTGATTCATTCCCTCAGATGTTCTCTGTATGTGTAGCTCTGC
TTTCGAATGCTAATTTTCCTATCTATTTGGTTACCGCCTTGACAGTTTGCTCATCTTGTGTTCTACAGTCCATTTACCTACCTTAGGGTTCAGT
AACATACTCACAATGATCATGTTATCTCATTGCACTGCCCTGCCACCCAGCTACAGCCTTGCTTCACTAGCCTGTGTAGTTTGGCCTGATGGAG
CTCATCTGTTAGTTAACCATCCTGCTATGTCTGAGGCTCCAGCTCCAGCCTGCTGTGCCTGCAGCTCTCCTAACTTCTCCCCAGCTGTGGCTTC
CATCAGCATTTCCTTCCGACCCTACCTTCTGTCCTCGCCAATGTTATCTTGTCTGCTTTTCTTTTGTTCCTGTAGATGACTGGTATTTGTTGAA
TGTTATTTCCACAGGGAAGTTCTCTAACTGCCCAATCTAGAGTAACTTTCCATTACATTTTGTCACATCACTTCAGTTTATCTTCGTCACAGTG
TCCATCTCTAGTTAATATTGCTCTACCAGTCTTTTCAGAACTCAATACAGATTTCACTAGGAACCTATTCCCTGTTTATTGTTCTGTCTTAAAT
TATTACAATAGTACCTGGCATATAGTAGACATTCAAGATGTATCTTTTTAAAAGTACATGCCATGTCTGTTTGAATCACCTTAAATTTTAGGCT
TTGTACCAGGAAAGTGTCTGAACAACTATTTTGTATTAATGTCTTTATTTACAGCAAAAACAAAATCACAATTAACCAGATACTGTTCTTTGTC
AAAAAAAAAAAAAAGGTCACAGCATTAATCCTTTGAATAGTGTAAAATAGAATGTTTTTAGCTTCTTATATTTCAACCCACACGTCCTTAAAGA
AAGGCTTGAGGAAGAAGTAGAAACAAAGCTTTGTTGGTGTAAAAATGCCATCACAAAATGACAGAAGTCAAAACTGCATTTGTCATTAGCTTCT
TCTATAACTGGATGAGGGACAGATACCCAGGCTGTACTGACATGCATCATCTTAGAGGAGGCCCTTTAACAAACTCAAATTCCCTTACCTACGT
TTCAGATTGTAAAGGGTTAGGGATTCCATCTGCTCCATAAACTCTCACATTGTCTCTAGCACCTCCTAAGCAAACTTTGTAGTGTCTAGCTAGT
GACTGGCTAACCGGTGACAGCTGTAAATAGTTTAAACCATGCTTTGGAGCTAGCAAGATGAGTCAGAGGGTACAGGATTGACTGTCACCAAGAT
TGATAAGCAGTCCACTGTCTGGGACCCATATGGTAGAAGAAGAGAACTGATTTCTGCCAGTTGTCCTATACCTCTGTACATGTGCTGGGGTACA
CGTGCAGGTACATACATGTGTGCGTTCGCACACACGACACACACACACATGCACACATATACACACATACACTCAAACACATACACACACAC
TAAAATAAAATGTAATTTTAAAAAAATTTAAACAAGGCTCATGGTGCTCATGGTGGCACACGCTTTTAATCCCAGCACTTACAAGGCAGAGGCA
GGTGGATCTCTAAATATGAGGCCAGATTGGTATACAGGATGCGTTCCAGGACAGCCAAAAGAGACTTTGTCTGGAAGGAAGGAAGGAGAGAGAG
AGGGGAGAGGGAGAAAAGAGAGAAACTTAAGAATTCAGTGCTTTTAACCACTTGGTTTTGCTCAGTTTCCAGCACCAACATGGCGGCTAGCAGT
CATCTGTAACATCAGTCTCAAGATATGGAAAGCCCTCTTCTGACTTTGGGGGGCGGGGGAGAGGGAATTGTTTGTTTTATTTTTTTGAGGGCAC
TGGGCACACATGTGGTACACGTATATACATGCTGGAAAACACATCCACATGCATTAGGAATAGAGATGTAGATCAGAGCTAGAGCACTTGCCTA
ACATGCATCATGCTTTGGGTTTGGTTCCTTGCACATATACACACACTAAACGATGATGTTGTTGCTGTTGCTGTTGTTGTTTTGAGGGCTA
GTCCTTTAATTAAATGTTAGGTTGACAAACAGAAAGGATTCTACTTGAATAGTCATATTCACTGTGGTCATAGCTCCTGAGCCTGGGCCTCAAA
GTGGGTCTCTGTCACTAGACACATTAGTTCTTTCAGCTGCCACATAATTAGTGTTGCAAATTTGTAATAGCATAGAAAATAATTGTCCATATAA
AGATCAAACTTAGATGCTTTTCCTTGAAAATATTTTCATTTATGTGTTAAAAGGCAGGGACATTCCTTTACATTAAACATCAAAATTCTCTTTC

CGGGCTGGAGAGATGGCTCAGCGGGTAAGAGCACTGGCTGCTCTTCCAGAGGTCCTGAGTTCAAATCCCAGCAACCACATGGTGGCTCACAACC
ATCTGTAATGAGATCCGATGCCCTCTTCTGGGGTGTCTGAAGACAACTACAGTGTACTTATAATTAATTAATTAATTAATCTTTTTTAAAAAAA
TTCTCGTTCCATATTATACATAAACCATCCAGAAGTCTATTGTGGATGCATATGCTTCTATCAGCTAGTGGAATTAGCCTTGCAGAATTAACAT
CTCATCTTTATGGTTATTACAGTAATTCTTTTAATTTTGTCGTCTTTTATTATTTAGGCAAAGATGCAATTTACACTATTCCAGTAAAAAATAT
TCTTGCTGTGGAAAAATTGGAAGAAGGCTCTTTCAACAAGAAAAATGTAAGTTGCATAAATATTGAAGCATTTTAAGTCATCAGGTGTACGTAA
TTTTGGTATCTACCATTCAGGTCTCTCAATAATGTCCCAAGTTAGGCCACTCAGCTGGTGCAGGACCCTCCAGTCCCCAGGATGACATCTCTGT
TCCTTAGCATCTCCTCACTAACTTGTGGTTCCCCCAGGTTCTCCTGCATCTGAAATTACCTTTTTGTTCTTATGCAGACAGTGGCCTCCTCTGC
ACTTGTATGGCATCTGCAGTCTGTATTGTTCTGCTTAGCCCCATTGGCTAAGATGATCTTTGGTACTGACCTGCTTACTGCACCAATTCATTCC
GACACATTAGCAGACATTTCTTAGCCAAGCAATCCAGGTCTCCTAAGTGCTTTTTCTTTTTGTATAGTATATGTTGTTTTTAAGGTTTCTCTAA
CTTTTTATTTTAATTTGCAATAAAGATGTTCCAAGTGATACATACAGAGAAAACGCTGTACATCCAAGCAAACAACTGTGTGGAAGCCAATGAG
TGGATAGATGTCCTGTGCAGGGTGAGCAGATGCAACCACAACAGGCTCAGCTCTTTCCACCCCTCAGCGTATCTCAACGGAAACTGGCTCTGCT
GCCAGGAGACGAGTGAAAGCACACCAGGCTGCAAGCCGTGCACCGCGTGAGTAACTCATGACTGCATGCGGGCGTGGGTGTGAGAGCATGACAG
ACGCTATGTAGAAGTAGCTGGACAGAGGCCGCACGGTGCTGAAGACATTTCTATAAACCGTGTCTAGAAAGGCTTGGGTTGTTGCCCAGTGGTA
GAGTGTCTCTCTCACCTGACACACACAGGGGCTTTGGTTTAATTCTAGTACCACAAAAATTAAAATACAGAGAGTAAGTAAATTTCTATAGACA
CAACTGTAAGTTAGTGGTGCCCAGGGGCTAGATTGATGCATTGTTCGGTGAACAACTATAGGTTATATATATGTTTATTGGGACTGGGGAGCAG
TTAGTGCTTGTTGTTCTTGTAGAAAGAAGACTCAAGTTTAGTTCCAAAACCCATGTGACACCAGCTCCAGAGCACAGATCAGATACCGTCTTCT
AGCCTCTGCAGAGGCATGTATAGGCACGCACGCATGCGCACACACACACACAGATATACATATATACATTAAAAATATTTTTTATGATTTTACT
TCAAAATCTTTTTCAAGACTTGAGTCCTTAACAACCAGACCTTGTGATCCTGTTG

MOUSE SEQUENCE - mRNA
ATGGCGGCGGCAGCGCCTGCTGCGGCGGCGGCTTCTCCCGAGGCGCCGGCCGTCTCGGGCAGCGCAGACCCGGAGACGGGAGACGAGGACAGTC
GTGAGGTCCGAGTGCTGCAGAGCCTGCGCGGCAGGATCTATGAAGCAAAAAATTTATTGCCATATCTTGGACCCAACAAAATGCGCGATTGTTT
CTGCACTATAAATTTGGACCAGGAAGAAGTTTATCGCACCCAGGTTGTTGAAAAGTCTTTAAGTCCATATTTCAGTGAAGAATTTTATTTTGAG
ATTCCAAGAACTTTCCAGTATTTGTCTTTTTATGTTTATGATAAAAATGTTTTACAAAGAGATCTTCGTATAGGAAAAGTAGCCATCAAAAAAG
AAGACTTGTGCAGTCATAGTGGTAAAGAAACTTGGTTTTCACTGCAGCCGATTGACTCAAATTCAGAAGTTCAGGGAAAGGTTCACCTTGAGTT
AAGACTGAATGAGCTGATAACAGAGAATGGAACCGTGTGCCAGCAGCTTGTTGTACACATCAAGGCCTGCCATGGGTTGCCTCTCATAAACGGA
CAAAGCTGTGATCCTTATGCAACAGTGTCCCTCGTGGGCCCCTCTAGGAATGACCAAAAGAAGACAAAAGTAAAGAAGAAAACAAGCAATCCAC
AGTTCAATGAAGTCTTCTATTTTGAGGTAACCAGATCCAGCAGTTACAGCAGGAAGTCCCAGTTCCAGGTGGAGGAGGAGGACATTGAGAAGCT
GGAGATCAGGATTGACTTGTGGAATAATGAAAACCTAGTCCAAGATGTTTTCCTGGGAGAGATTAAGGTTCCTGTCAATGTGTTAAGAAGTGAT
TCCTTTCATCAAGCCTGGTACTTGCTACAGCCAAGAGACAATGGAAACAAATCATCTAAAACCGATGACCTGGGATCTCTTCTGTTAACTCTCT
GCTATACAGAAGACTGCGTGCTTCCATCAGAGTACTATGGACCGCTGAAAACTTTGCTGCTAAAGTCACCAGATGTTCAGCCAGTATCCGCCTC
AGCTGCTTATATTTTGGGTGAAATATGTCAAGATCAAAAGGATGCTGTTTTGCCCCTTGTACGACTGTTGCTGCATCACAATAAACTTGTCCCT
TTTATCACTGCGGTGGCCGAGCTGGACTTGAAGGATACTCCAGATGCCAACGCAATATTTAGAGGAAACTCCCTGGCTACCCAGTGTCTGACTG
AGATGATGAAGATAGTGGGAGGGCACTACCTGAAAGTCACGCTGAAGCCCGTTCTAGATGAGATATGTGAATCCTCGAAATCCTGTGAAATAGA
TCCTGTTAAGTTGAAAGAGGGAGATAATGTAGAGAATAATAAGGAGAATCTGTACTACTATGTGGACAAAGTATTCAATACAATCGTAGGATCA
AGTGTGAGCTGCCCCACTGTGATGTGTGATATTTTTTATTCTCTGAGGCAAATGGCTGCTAAGAAATTTCCTAATCACCCTCATGTTCAGTACT
CTGCAGTGAGCAGCTTTGTCTTCCTTCGTTTCTTTGCTGTAGCGATACTCTCACCTCATGCTTTTCATTTGCGACCTCATTATCCAGATACACA
GACAGTTAGGACATTGACTCTCATCTCAAAAACCATTCAGATTATTGGAAACTGGGGATGTCAGTCCAGAAAAAAGTCACGGTTCAAAAAGTCA
GTCATGTGTGAATTTCTCAAAATGTTTCAAGAAGAAAGATATTTTACAGATGTGAAAAAGTTCTTGGATGAAATTTCATCTACGGAAACTAAAG
AGTCCAGTGGTACGAGTGAGCCTGTGCACCTGAAAGAAGGTGAGATGTATAAGAGAGCTCAAGGAAGAACCCGTATTGGAAAGAAGAACTTCAA
GAAACGATGGTTCTGCTTGACGAGCAGAGAGCTCACCTACCACAGACAGCAAGGCAAAGATGCAATTTACACTATTCCAGTAAAAAATATTCTT
GCTGTGGAAAAATTGGAAGAAGGCTCTTTCAACAAGAAAAATATGTTCCAAGTGATACATACAGAGAAAACGCTGTACATCCAAGCAAACAACT
GTGTGGAAGCCAATGAGTGGATAGATGTCCTGTGCAGGGTGAGCAGATGCAACCACAACAGGCTCAGCTCTTTCCACCCCTCAGCGTATCTCAA
CGGAAACTGGCTCTGCTGCCAGGAGACGAGTGAAAGCACACCAGGCTGCAAGCCGTGCACCGCAGGCATCCCTGCAGACATCCAGATAGATATC
GATGAAGACAGAGAAACAGAAAGAATTTATTCTATTTTTACCCTCAGTTTACTTAAGCTGCAGAAAATGGAAGAGACCTGTGGGTCTATAGCTG
TGTATCAGGGGCCACAGAAAGAACCTGGTTATTCTAAGTTCACCATTGAGGATTCTGTTGCAACCTTTAAGACAATTCAGCAAATCAAAAGCAC
CATAGAGAAGCTCGATGAACCTCATGAGAAATACAGAAAGAAAAGATCGAGTAGTGCAAAATACGGAAGCAAGGAAAATCCAATTGTGGGAAAA
ATATCATAG

MOUSE SEQUENCE - CODING
ATGGCGGCGGCAGCGCCTGCTGCGGCGGCGGCTTCTCCCGAGGCGCCGGCCGTCTCGGGCAGCGCAGACCCGGAGACGGGAGACGAGGACAGTC
GTGAGGTCCGAGTGCTGCAGAGCCTGCGCGGCAGGATCTATGAAGCAAAAAATTTATTGCCATATCTTGGACCCAACAAAATGCGCGATTGTTT
CTGCACTATAAATTTGGACCAGGAAGAAGTTTATCGCACCCAGGTTGTTGAAAAGTCTTTAAGTCCATATTTCAGTGAAGAATTTTATTTTGAG
ATTCCAAGAACTTTCCAGTATTTGTCTTTTTATGTTTATGATAAAAATGTTTTACAAAGAGATCTTCGTATAGGAAAAGTAGCCATCAAAAAAG
AAGACTTGTGCAGTCATAGTGGTAAAGAAACTTGGTTTTCACTGCAGCCGATTGACTCAAATTCAGAAGTTCAGGGAAAGGTTCACCTTGAGTT
AAGACTGAATGAGCTGATAACAGAGAATGGAACCGTGTGCCAGCAGCTTGTTGTACACATCAAGGCCTGCCATGGGTTGCCTCTCATAAACGGA
CAAAGCTGTGATCCTTATGCAACAGTGTCCCTCGTGGGCCCCTCTAGGAATGACCAAAAGAAGACAAAAGTAAAGAAGAAAACAAGCAATCCAC
AGTTCAATGAAGTCTTCTATTTTGAGGTAACCAGATCCAGCAGTTACAGCAGGAAGTCCCAGTTCCAGGTGGAGGAGGAGGACATTGAGAAGCT
GGAGATCAGGATTGACTTGTGGAATAATGAAAACCTAGTCCAAGATGTTTTCCTGGGAGAGATTAAGGTTCCTGTCAATGTGTTAAGAAGTGAT
TCCTTTCATCAAGCCTGGTACTTGCTACAGCCAAGAGACAATGGAAACAAATCATCTAAAACCGATGACCTGGGATCTCTTCTGTTAACTCTCT
GCTATACAGAAGACTGCGTGCTTCCATCAGAGTACTATGGACCGCTGAAAACTTTGCTGCTAAAGTCACCAGATGTTCAGCCAGTATCCGCCTC
AGCTGCTTATATTTTGGGTGAAATATGTCAAGATCAAAAGGATGCTGTTTTGCCCCTTGTACGACTGTTGCTGCATCACAATAAACTTGTCCCT
TTTATCACTGCGGTGGCCGAGCTGGACTTGAAGGATACTCCAGATGCCAACGCAATATTTAGAGGAAACTCCCTGGCTACCCAGTGTCTGACTG
AGATGATGAAGATAGTGGGAGGGCACTACCTGAAAGTCACGCTGAAGCCCGTTCTAGATGAGATATGTGAATCCTCGAAATCCTGTGAAATAGA
TCCTGTTAAGTTGAAAGAGGGAGATAATGTAGAGAATAATAAGGAGAATCTGTACTACTATGTGGACAAAGTATTCAATACAATCGTAGGATCA
AGTGTGAGCTGCCCCACTGTGATGTGTGATATTTTTTATTCTCTGAGGCAAATGGCTGCTAAGAAATTTCCTAATCACCCTCATGTTCAGTACT
CTGCAGTGAGCAGCTTTGTCTTCCTTCGTTTCTTTGCTGTAGCGATACTCTCACCTCATGCTTTTCATTTGCGACCTCATTATCCAGATACACA
GACAGTTAGGACATTGACTCTCATCTCAAAAACCATTCAGATTATTGGAAACTGGGGATGTCAGTCCAGAAAAAAGTCACGGTTCAAAAAGTCA
GTCATGTGTGAATTTCTCAAAATGTTTCAAGAAGAAAGATATTTTACAGATGTGAAAAAGTTCTTGGATGAAATTTCATCTACGGAAACTAAAG
AGTCCAGTGGTACGAGTGAGCCTGTGCACCTGAAAGAAGGTGAGATGTATAAGAGAGCTCAAGGAAGAACCCGTATTGGAAAGAAGAACTTCAA
GAAACGATGGTTCTGCTTGACGAGCAGAGAGCTCACCTACCACAGACAGCAAGGCAAAGATGCAATTTACACTATTCCAGTAAAAAATATTCTT
GCTGTGGAAAAATTGGAAGAAGGCTCTTTCAACAAGAAAAATATGTTCCAAGTGATACATACAGAGAAAACGCTGTACATCCAAGCAAACAACT
GTGTGGAAGCCAATGAGTGGATAGATGTCCTGTGCAGGGTGAGCAGATGCAACCACAACAGGCTCAGCTCTTTCCACCCCTCAGCGTATCTCAA

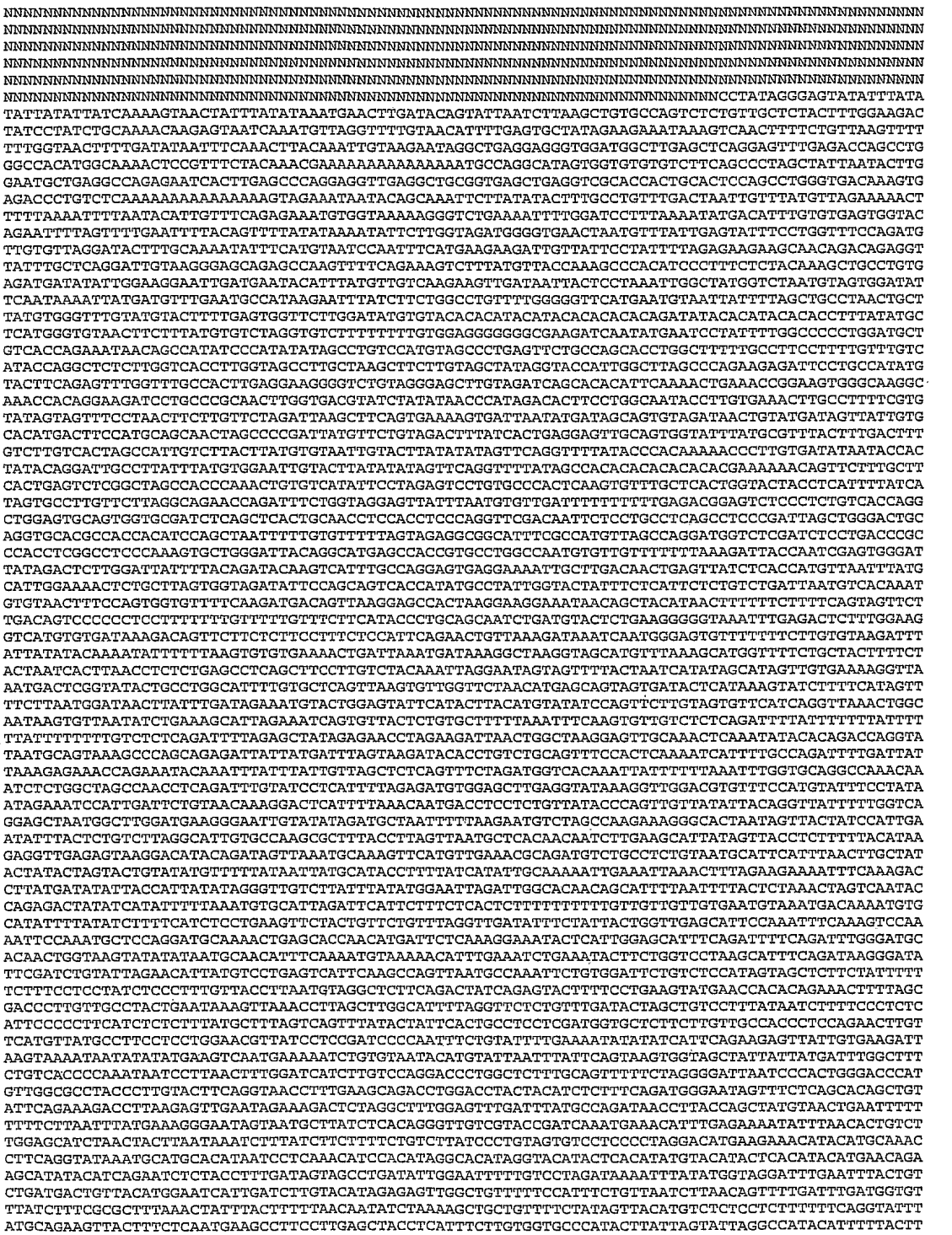
CGGAAACTGGCTCTGCTGCCAGGAGACGAGTGAAAGCACACCAGGCTGCAAGCCGTGCACCGCAGGCATCCCTGCAGACATCCAGATAGATATC
GATGAAGACAGAGAAACAGAAAGAATTTATTCTATTTTTACCCTCAGTTTACTTAAGCTGCAGAAAATGGAAGAGACCTGTGGGTCTATAGCTG
TGTATCAGGGGCCACAGAAAGAACCTGGTTATTCTAAGTTCACCATTGAGGATTCTGTTGCAACCTTTAAGACAATTCAGCAAATCAAAAGCAC
CATAGAGAAGCTCGATGAACCTCATGAGAAATACAGAAAGAAAAGATCGAGTAGTGCAAAATACGGAAGCAAGGAAAATCCAATTGTGGGAAAA
ATATCATAG

HUMAN SEQUENCE - GENOMIC
CTTCCTTTTCCTGATCCTGCCCAAAGTGAGGAGGTTTGTTAAGCAGATAGGGGAAAGGCTGAGGGCTTCGGAGTACTGCATCTTTAGGACCCTG
GGAGGAGTTCACCTTATCGGTTGCCTGACACCACCCCAGAAGTGGCTATATCAAAGTTTAACTCAATAGCACAGCATAGCTTGCAGGGAAAGGG
GTGAAATATAATTTCCTGAGCTTCCCCCAAGACCAGTACGGACTAGACTGGACCAAGGAGTTTCCACATACTCCAGAGAAGAGGCGTGGAAAGC
AGCTGAGGTGGTAGCCACCAGGCTTCCAGGCACTGGCCATCACAAGGGAAAGGTGAATCAGCAGCGAGGCTGGGGAGAGATATTCTAGTGAAGA
GCCAGATGGAGGATGTAGGGTCTGAGAGGCAGCCAGAGTGGAGTCTGAGTCATCAGGGAAAACAAGCAGGCGCTGCCAAGCCAGGAGGAACCAA
ATCACAGGTACTATAGATACAGCCTCAATAGCAGGCCCTCACACAACTCCCAGGATTGAGCCCGTCTCACCCTCAAAAGAAGTATCCAGAAAGT
ATCCAGACCACCCACCCACAACAGAAATCTGCAAAGATGCAAAAGATACTGCATTGATACAAGGACCCCACCTCTTCTCTGTCTCTATGGGGTC
ATTTAGCCACAACTCCATCAAAAACTCAGACACCATCTCAAAAAAATATAAAAAAAGAACGCAGATATCTAAGAGGCTGAGCATTATTTACCTA
AATGGATGGACCATTTATATAATGTCTATTTAGGTCGCTGACACCTGTAATTCCAGTACTTTGGGAGGTCAAGGCAGAAGGATTGCTTAAGCCC
AGGAATTTGAGACCTGCTTGGGCAACAAAGCAAGACCCCCATCTCAACAAAAAATAAAAATAAAAATAAATGGCTTATACCTATAGTCCCAGCT
ACTCAGGAGGCCAAGATGGGAGGATCCCTTGAGCCCAGGAATTCGAGGTTGCAGTGAGCTATGATCATCCACTGCACTCCAGCCTGGGTGACAG
AGTGAGACCGTGTCTCAAAACAAACAAACAAACAAACTGGTGCATCAGAATATTTTCCCCTCTATTCAGTTATTGGAGACTCATAAGGAAGAGA
AGAACAATTTTAGAGAAATGAAGATGCTACATCTTCTTTGCACATCTGTGGGTAGGATGAAAAAAATCTGCAACCCTTCACACATACTAGTGTT
GCCAGTTTTTCTTGTCCTCCTCCCCACTGCTAAATTTGGTGCTGCTTGGGCTGCTCAGTTCCTCCCATCCACCCACACCCAACTGTAGAGAAGA
GCGTGGAGGGTCCAGACCGGATCTTTGGGACTTTTGATGCAAAATTTAAAAAAATAAGAGAGGAATAGAAATGACATAAGCCACATGGGTACAT
TCTAGGGAGAAAAGAATCAAAGCCAAGCTTTTCTTGCAAGAAGCAACTGAGAGTGGGGGCCATTGATGTGCTCAGGGGCATCAAGTGGGAGCAG
GAGGACAGTCAGAGATAGAAAGAGAGAACGGGTGGGTGGGAGAGTGTGCTACTCTGGGGAAAGAGGGTGAGGGATCTTGGTTTTGTTGGATATT
GGAGAAGATAAGATGAAAAACATTTTGATAAGAACTGCTCCAGCCTGGTGCTGTGACACACACCTATGATGCCAGCTACCTGGGAGGCTGAAGC
AAGAGAATCCCATAAACGGGAGTTCGAGACTCACCTAGGCAACATAGCGAAACCCCATCTGAAAAAGAAGAAGAAAGAAGAAGAAGAAGAAGAA
GAAGAAGAAGAAGAAGAAGAAGAAGAAGAGGAAGAAGAAGAGGAAGAAGAAGAGGAAGAAGAAGAAGAAGGAGAAGAAGAAG
AAGAAGAAGAAGAAGAAGAAGAAGGGGAGGAGGAGGAGGAAGAGGAAGAGGAAGAAGAAGAAGAAGAAGATGAGGAGGAGGAGGAGGA
GGAAGAGGAAGAGGAAGAAGAAGAAGAAGAACTGCTCTAGATTATATACTTGTATCTCATTTTTTAACAGTAGAATTACTATCAGGACTTTGCT
TCTTTGAACTCTACCCACTCAGGCACTGAACAACGCAGACCTCAGCTTTGACAGGTTTACAAACACAATGACCCTGTTAATACAAAAGATGTAT
TAACATACAGCAGAGATTCTCAACGGGGCGGTGATTTATCTCCCAGAGGATATTTGGCAGTATCTGTAGACATTTTTGATAGTCACAACTGGAA
TATGCTGGTGGCATCTAGTGGATAGAGTCTAGGGTGCTGCTAAATGCCCTATAATGCACAGGACATTCCCCAACGAGAAAGAATTACCCATCCT
AGCCAAAATGTCAGTAGTGCCACAGTTGGGAAACCCTGAAATAGAGAAATGGAGGAAGGGCAGTTGTTTCCTTACAGCTTCCCTTTCCAATGAC
AAAATAAAAGACAGCTTTGTTTCATTCGAAACACGTTCTCAAGTGTGTGATATTCATTCTTAATCAGCACTACATACATATAATAATCTCAGCC
AAACCATATAAATCAGTTCCCTAAAACCCTTTAAGGTAAAAGAATTCCCATTGAAGAATTCCAGATCCTGTGGAAAAAACGGAGTTGAATAAAG
AAGGCTCCAGAAAATTTTGGAAAATCTTTATAAATATTTGTATTTTCAATATGAAATATGAAAATATAATAAAACTAGCACAGCAAATAAAATA
GCTATGACATGTAAGACATGCTTATTATGGGTAATCAGGTTACTCTCTATGCTTTGCTCATTCTGAGAGAATCCTCAGAATCTAGCTTATATTC
CATCACGCCCCTTGAGAAAGTTTAGCTGAGGTGTTAGTACGTTTGTTTTGCCTCATTGCAGATAAGACATTCACTAAGAAGGATTATTTGGAGT
TAAGGGTGCTGGGGACAGTGGTATATTTGGCCTTCCATACAGATGCTCTATAAATGCCTCTGGATTTTTATTTCAATCTCCTTGGCCCCTCTCT
CCAACAGCCCTTCCCAGTTCTATCTCTGCACAGACAGCCCAAGAATTCAGTCCTAAGGACCCACCTTACATGGCTTAAAACAACAATACACAAA
CTAGATGTTTTACATTCTGGTGGCCATGTCGAGTAATTATTTGATAGGCCACGAGCTTTCATTTGTGGCTGTATATCCAAGTCAGTTTTCCAAA
ATTCAGTTATATGATTATAAAATAAGTACCAATGTCTTTAGAACTAGACAAAATACAATTTATTAAAATATTTTATCTTTATATATGTGATAAG
GATTGAGGGGTTCACTCCCTCATTCCATCCCCAATCTTGCCCTCTTTTAGATGAAAGGCAGGAGGCAGTTGCCTAGGAGAGGGCAACCAATAGC
CCTGGCCTAGGCAGGTCAATGCTGGCCTCTCTCCTTCCCTTGGACCCTCAACTGTGAGGGCTAGGATACCAGGCCGGGCTGTTCCTAAAGACTC
TGAGCCCAAGCAGTGCAGCTGGGCCTAGAAATGGGGAGGTAACCCTTCTTGCCAACTTTGCTGAAAATGTGGAAGCCCCGCGGGTTCTGAAGGA
TAACGCTCTCGGCTTGGGCCTTGATAGTCTCATAGCAGGCATCATAAAGTGGTGAGGGTCCCTTTTTGTGACAGTGGCAGGGGGAGCCAGAGCA
GGAGAGGAAGAATATAACAAATCCAGCAACCCCATCATGTTCCCCACACCCTACTCTGCCAATGTAACCCACTGGGCACTCCTGAAAATCAATA
ATTGGGAAGAGGTTTAATTATTTGGGCAGGTAGAAAGTGGAGACACAATAGAGAACTGCGGATTATTTATGTTAACAGGATTTCATTTGTAGCC
ACAGACTGACATGCTGCCTAGATATTTGGTCATAATAACAAGTATGAAAACACCTTGCAACTTTGAAATCAGTTTTCCCAGCTTCTACAACCAC
CCACAAAAAATTGTATCTAGCCTACGTTTAGAACACAGATTATGATCGATGAGCTTCTGCTCTCCTTGGCTGTCTCTGACAAAAATGAGCTGCT
TGTGACAGACGCAGCCCCAGCCCAGTGTGAGGATTGGAAACCTCAGACCCTGACTCTTTCCCTTTCTCCTTCCTTATCTGACTCCTGAGCTATT
ATTGCCTTTTCTCTGCACCTAAGCTTTCTGCAAAGCCCAGACCCAGCCAGCTGGTTCTGTGGTCTGCTCTGATTTCCCTTGTGGATTTTAAATT
CAGAATTCTAGGCTCATTTGTTAGCAGCTTCTCTGAACACATTATCTCATTTATTTGCTCATTCATTCATTCGTTCATTTATCAAACATTTAAT
AAGTGCCTTCTGTGTTCTTCTATATTTTCTATGCGCTAGGGAGGCAAAGACAAAACATTGTCCAGTCTTTGAGATGGTTTCAGACAGGTAAACA
AACAGGAATAGTAAATGTGTTATGAGCACTACAATGATTATGTGTATTCTTATATACATGGTACATAATGGCCTAAAGGAAAAAGAGGCCAGTT
CTGTGAGACAAAGTCAGGAGGTGAAGATTGGGCATTAAATGTATTGAAATATTTTCATTTGAACTTAGGCACTATTATTGGAAGATAAGTATGT
TGATATGGTGAACAGAGTTGGCTGCCTACTCCATGTCTTACTGCTCCCCTTTCTGTGTCACAAGAAAACACTGGTTTGGTTCAGGCTTCAGGTC
TCAAGTAGCAATGTACTTTGGGAAGGAGGGTTCATCCCCAGACCCAGGGGTATCAATGTTGCTTAGACTAAGAAAATTATATATTCCTTGTGAT
TGTAAATGAGCCTTAAGAAGATACCTCATGGTGGTGATTTACAGGAAAGCTACCTGGAAAAGCGTTCCTCCCTAATATTAGGTTGGTGCAAAAG
TAACTATGATCTTGCCACTGAAAGTAATGAAAAAGACATTTTAGAAAAAAAAAAAATACACCTTCCTGCCATTGGATGTTGAGATATTTGGAGGT
ACAGGAGCCATATTGTGACCATGAGGCAAAAGCCAAAAGAATTGCAAAGAAGCTAACCCAATAAAGTCCTGTTTATGAATGAATACAGAGTAGA
AAATGAAACAAGTGAATGGCTGCACAACATTTCCAGTTTTCTTTTTACACTTATTGTTTTGTATGTTTTTATTTGTTTGGTTGGTTTTGAGTTT
TGGGGGTTTTTGTTGTTTTTGTTTTTTGATTTGTTTTTTTAATAGATTTGGGGTCTCACTATGTTGCCCAGGCTCGTCTTGAACTCCTGGGCTC
AAGTGATCCACCCAACTCGGCCTCTGAAAGTTCTGGGATTATAGGCATGAGTCACCATGCCCAGCCTACACCCATTGTTTTGTTTTATCACTAA
AATGACAAGAATGCACTGCAGATGGAATGGATATGGCAAAATAGTTCAAAAGGAGGGGGATTGAGAAATAACTGAAGTCACACTGACCTAAGGG
CATCAGCTGTATTGTGCTCAGATATTCAGGCCTTTAAAGTTCTCTTGCAAGAGGTGACAGAATTTGAAAAAAAAAAAAATTCTATTTTTAGAGAC
AGGGTCTCTCTCTGTCACCCAGGCTGGAGTGCACTGGGATGATCATAGCTCACTGCAGCCTCAAATTCCTGAGCTCAAACAATCCTCCCACCTC
AGCCTCCTGATTAGCTAGGAGTACAGGCAGGCACGTGCCACCATGCCCAGCTAATTTATTTATTTATATTTGTAGAGACAGAGTCTCACGGTGT
TGCCCAGGCTGCTCCTGAACTCCTAGCCTCAGGTGATCCTCCTGTCAAAGTTGGTATTACAACCGACTGTTGGATTACAGGCATGAGCCATCAC
ATCTGGCCTTGAAAATATTTGTACCGAAGGAGTTGGAGGTTTTAAGGTAAAAATTTGTCCACATTTTTGTCCACACAGCCTTGTCAATGGCCTT
ATTTGGTCTTCAAATGAAATGTTGAAAGTATGTTTTCTGAACATTTAAGGTCTCTCCTCACCTCCTACCACTCCAATTTTATTTTTTAAAATGC
CAGTTGGATTTAGAGATTTTTTTTTAATAATGTAATTAGTGCATAATGCTTAACATCAAACAGTACTCTGATGGGGCAAATGGGGAAACCAAGT
CATCAATGATCAAAGGAACTTGCTTTCCCACCAGTCCGGCAGAAACAGTTCTGTCTCATGAGTGTCCAGCCCTATGAAAATGATCTACATTTAA

ATATTAAAAAGAAAGCACATTTCTCTTCCTCCTACTCGCCAGAAAAAATGTAATAAATAACTCAAGGCCAGGAGACAACCCCTTACAATGCCAT
GTTATAGGTTGGTGGGTGCTGATTCAAAAATATGCCGTAACAGACAAGTTATGGAATTAGTTTCTAGCTGCAGGTTATAGTCTTCTTATTAAGA
GACAATGTAGTTTTCCTACATCATCTGCCATAAAGCAAGCCAATGTATGGGTTGAAATGACTGAATGAGTTTAAAACTGGTGAAGAAATAGGAA
AAGACATAGTAGTGAATGGTTGCTCATCAGAACGAAGAGTGGTAGGGATAGAAGGGATGGCCTTTAAACACATTCATTAATAATTTGAGGAAGG
AAGTGAAGTTCAAGTTTGTGATGATGCAATATTGTTCCAGTTACTAAACATCATGAAGAAAAGAGAGGAACTCTAGATGAATTTAAAACATAAT
GCAAGGGCAATAAGGGGAATGAGATGTAACAGCCTTCTCGTAATTATACTGTATGTCTTGTTAGTCTTTAGAAAACTTTATTTTCGGCCGGGCG
CGGTGGCTCACGCCTGTAATCCCAGCACTTTAGGAGGCTGAGGCTGGTGGATCACGAGGTCAGGAGATCAAGACCACAGTGAAACCACGTCTCT
ACTAAAAACACAAAAAAAATTAGCCGGGCGCAGTGGCGGGCGCCTGTAGTCCCAGCTACTAGGAAGGCTGAGGCAGGAGGATGGCATGAACCCG
GGAGGCGGAGCTTGCAGTGAGCCGAGATCGCGCCACTGCATTCCAGCCTGGGCAACAGAGCAAGACTCCATCTTAAAAAAAAAAAAAAAAAAAG
AAAGAAAGAAAGAAAACTTTATTTTCCAAATATTTTATATTAAGGAAACATTGACATTACCCAAGATCTCTTCAAAGTAGGCAAGTATCAGTAA
AAACAGAATAATTAGAAGTGACTTCGGATGAAAAAGCAATGGAGTTTGGGGATTTTAGTGAAACGGTATAAGTCCGAAATCTGCAAAAGGAAGA
CTGTCTGGAAGAACAAAAAAGTGGAGTGTCCCTTTATGTAAAATTGTTTTCATACCTTTAGTGACCATTTAGTAACAGAGTTATGCACTTGGGG
TTAAGCTAGTGAAAAGGAAGGGAAGTTAGAAGATTTTGACACTAATGGACAAAGATATTGATACTTTGTCCATTGGATACGTTTGTCCATTGGA
TACATTTGTCCATTTGTACATTGATACTTTATCCATGGATACATTTGTCCAAAGGTTCAAATAATTTCTCTGTTTATTGGAGAAAGAAATAGAT
GGATGAGGCATCGCTTGGCCAAGCAGGAGGAAGGCCAGAATCAGGCTGGTGAGAAAAGGGGCTCAGTGTGGCTGGAGATCAGAGGAGTCAGGTA
CGCTGGATCCAGTTCCAACTCTTGGCTGAAGAATTTGAACTTTAGTCATTTCTAGCATTGTTCATTACCTGTAGTGTGCTCTTGCTAGCTGGCT
GAAGGGATAAATGAAGCCACTGATGTCCTCTTGAGCAGGCAACTGATAAGCTCCATTTTTTTTGTTAGGAAAGTTAATTTAAGTGGTATGTAGG
AGGAATGAGAGGGATGGGGGACTTATTACCAGAGTTCCAGTCAAAAGCATGAGGTCAGTTACTGAGGTAATCCTACTACGTGCTCAGCATTCCA
CTAGACACTTAACACCCTGCTCCCAATACTTATTTAATCTTAATAACAACCCTTCAAAGAAGAAAGTTTAGCATTTCCACTTTACTGTTAAAGA
AACAGGTTCAACCGGGCGCAGTGGCTTACACCCAGCACTTTGGGAGGCTGACACGGATGGATCACTTGAGCCCAGAAGTTCAAGACCAGCCTGG
GCAACATGGCAAAACCCCATCTCTACCAAAAATACAAAAATTAACTGGACATGGTGGCGCGCACCTGTAGTCCCAGCTACTTAGGAGGCTGACA
TGGGAGGATAGCTTGAGCCCAGGAAGTTGAAGCTGCAGTGAGCTGAGATCGTGCCACTGCACTCCAGCCTAGGCAACAGAGCAAGACTGTCAAA
AAAAAAAAAAAAAAAAAAAAGAAAGAAAGAAAGAGAAGAAACAGAAACAGGTTTAGGAAGGTTGAGTAACTTGCCCAAATGTAAAAGGGGTAGA
AACAGGCTCTATGTCTGATTCTAAAAAGGGATGCCTTTAAAAATAAGGGGGAAAAAACCCTGTAACACGTTGATACTCTTTAAATGAGAATAAT
TTTAACAAGGGCAATGACAGAGAATGGAAAGGAAGGAAGAGATTTCAGCAGAGTCAGAAGGATGTGGCAACTGAAAACAGCATTGGGACAAGGG
ATAAGAAAAAGTCAAAGTTTCTGGCCTGAGTAACAGTATAAGATGTGAACTCAGATTTGGAAAGGGAGACAGGAAATTAAGTTTTGGACTTATG
TTTGAAATGACAGCAAAACATTCATATAAGAGGAAGTGGTTCACTTTATCCAACAAGTGTAAAGATCACATGGGGAAATAGAAGTCACCTGCAA
CACAGGCAGAACTGGAAGCTTCGCTGGCCAGGTCCATGTTAAACTCTGACCATTCTCTGGGGCTGTCCAGCCTTTGCACAGGCGGCGCGTTTGT
CTTCAGTTTTCAGGTTTCCCCGTCCTATTTCTTATCTCCCAGTGCCTCTGGCCTTTTCTGTGTCTCCCTCCAGAATGAGCTGGAGCTCTCTTCA
TCTTGACCTTTGTGTAGTCTCTGAGGTCTGAGGCCATCACTATGTCTGACCCTCAAAAAATATTTGTTGACTGACTGGCTTATTCCTGTTGTTG
CCCTGGAAAAGAATTACCCTGCCCGATTAAGTCACAGTTTCTTCCTTCTTAGGGCAGCGTAGTTAACAACCTCAACACCAGGAAATTGTCTTCC
TCATCACATACCAGGGTATTATTCATGCAGTTTACTCACTGTAAAGAGTTCCCTTGAAATAAAGCTAACAATTAGTCAAAGATTTACACATTTC
CTAGGGTCAGTCAACTTTTTAACAAAGCCAACTTTTAGTAGTGGTGGCGGTGGCGGGGGGGAGCCCTTCTTTGCTTTTTCTGTTCCTGAAATAC
AAAAGTGATGGTAAATGCTTCAGAATTTCTCTATGAGAGGGTCTCAGGCACTGCACTCACGCTGGAGTTGGGGGTGGCTGGTCCTTTTCTTGAA
CCAGGTTTTGCAGAGAATTGGTCCTAGTAAAGAGTATTTGTGTGGGAGGAGTTTGGCTTGCTGGCGGGGAGTATTTGGATAATACTGGAAGAGC
CTCAAATGCATCTCTTGCCTCCTTTTGAATAAGATACTTTTGAGGTCCACCCACCTGCCAAATTCCATTCTATTTTCTTCCCACAGGGAGTTTC
CCTGATTGGGAAGGGCCTGTATTTCCCGCGAGCGTTAGGAGATGTGCAGGTCTATTCATTGGGGGAGCCCAATTCCCGGGAGGATTTAGGGATC
ACGGGAGGGCCGGGGCGTTCTCCTGGTGGGGATTTTAAGGCCGCTCAGAGCCACGACTGGGAGCTACCCTTAGCCAGCGCCCCAAGCCGGGAGT
ACGGTTCTCTGCAGGGTAGCCCGGCTCGGGGGTGGCGAAGGCGGTGAATGGAGACCCGGGGGGGGCGGGGCCGGCGGGCGGGCGGGCGG
GGCGGGGCGAGTCGGGCCGAGGCCCGGGGGCGGGGCCAGGCGCGCGGCTGGCCTGGGCCTAGGCCGCTGCTGGGCTCCGCCTCGCCCGGCTACG
CAGGCGGCAGGGCTGCGGCACGGGCCGGGCGGCACCATGGCGGCGGCGGCGCCTGCTGCTGCGGCGGCTTCTTCCGAGGCGCCAGCGGCGAGTG
CGACTGCAGAGCCCGAGGCCGGGGACCAGGACAGTCGCGAGGTTCGAGTGTTGCAGAGCCTGCGGGGCAAGATCTGTAAGCGGGGGCTGGGCTG
AGGGGACGCCCTGGCGGCGCTGGGCGCGAGGCTGAGGGGGCGGCGGGTTCGCGGCGGTGGCGGCGCCGAGCTGCGCTGGGATCGCGGGCCCGGG
AGGGGGCCTGGGCCGGGCGCGGTTGAGGCTGGAAGGGGGTGTGTTGGGGGGCGGCGTCGCCTCGACGGGGCGGCGTGGGCCGGGGCTGCTGCTC
TCCGGAGGGAGTGGGAGCTGGAGATGGGCCTGGGGTGGGAGAGCCCGGGCTGCGCCGGCGTGAGGGGCTCGGTCGTGGGGAGCGGCCTGGACGC
GGGGACGCTGGAGTCCGGGGCGCGGCCGGGGGCGCGGTCCGGGGGCGTGAGGAGCTTCCGGCCGCCCTCAGACTCAGGCCTTCGCGCGGCTGCG
GGCGCTGGGGAGTGGCCCCGCGGTGGGAGCCGAGCAGTAATTATACGGAGGCGCGGCCCGAGGAGGTGGCGGGCTGGGAAGTGGGGCTGGCCCG
AGGGGAGGGGGCTGTTCGTTTCCTGGGCTCGGCGAGCCTGGGAGAGGTTGAAAAAGGCGCCCTGAGCTGCAGGAAACGGGCCGCCCTGGGGCCC
GAGTGGCTACCGCGCGGTCTGTTCGCGGGTGAGCGCCCCGGGAGGAGCTCGGCGGGACACCTGTACTTGCCCCACCTCGCTGCGGCCGGGACTT
GAATCGAGGGACGGCGTGACAGGCGGGACTAAAGGCAGGATGTAGTGGCTTCCTGTGAGCAGGTCTCAAAACACAATCACCCAGCCCGCACTCA
GCCCGCTTAATTCCCTTCCTTCTCATGCGTGTAATTGCTACTTTAGTGAGCGAGCCTACCAGTTGACTAAATACGAAATTTTGCTCAGAGTTGT
CCGAGCATTACTGTGGACAGATTATTTGAGTTCTGTCATTTGAACATTTTAGTTTTAAAAACGACCTTTTGGTGTCAGGTTGCCATTTTTTTTT
TCACAGTGGTTTATTTAGATGAAGTGCTTTTTGTTTTCTGTTTGTAAGAGAGATCAATAACATTTATTTTTGCATTTGTCGAAAATTAGCATTA
TTTTCTTCATGCAGTATTCTCAGATTGGAAACATGCTTCATGTTTCTTATAAATAACCCTCAATTATGAGGGCGTACTTTTCACTTTGAAGAAA
ATTGACTTGCATTAAAGTGGCTAACAATTCTTTCCTGGGCAGGATGTAAAATTTTCCTCTCCTCTAATACCAGTACTGTTGAGCTCACATTCTC
CCACTTTTCCTCTTTTCAGGTGGTTCACGTATTTGGGATTTTATGAAACCTCAGAAGCAGACATGTTAACTTTTCTTATCTTTTATTCCCTGA
GGTAGTCCTGGGGCTCTTAAGAGATTACAGTTCTTAAAACCTGGAAAGTGACACCAGAGAGGTAGATCTTAGTTCCCAAAATTAAAGTTACTTT
CTAGGGCATAAAACCTTTTCAGAATTCAGATTAAATTTTATTTATTTTTTCTTTTTTCTGTAACCTTATATTTGAGGGGAAAATTTTATTTTCA
ACTTTTGCATATATCTAATTTAACATTTGGGAAAACTGTAAATGGGCCAAAGTTTCTCCCTTTATATGATTTTCCAGATTTTTACCACTTTCTT
AGTGCCACTTGATGCTAGGCATTGTCTATTGGAGACTCACTGGTACGTAACTGCAGGTTTTACCATGGAACTACATATACACATGTCTTGGAAT
TGAGGGTTAGGGTTTCCAGAAGGACTTAGTTGTCCTGTGCTTTTGTCTGCCCCATGCCAAAGACCACTAAGAACAGTTTTGTAAGTGAAACTTG
GGTCTACACGTTAAAAAAAAGAAAAACAAAAAACCACTTTGTTTCTATGGTTTAAAGCAACCCTGGCTTGGAAATTGATCATCCAGCTGCTGGG
AATGATATTACTGCTTTAACCACAGTTGAAGTATTCTATCTGTTATCCTAGTCAGTTTCTTGCTTTTTAAATTGCTTATCTTATAGCTCAGGTT
ATGGAGTGTCTGCTTTCTAGAAAAAAAAAATGTATTTGTATACTTATATACAGAAGCTCTCTTCCCATTTCTTTGTCCTCCTTTTAAATGATGT
AATCCACAGTTGGTTGACATTCAGAACCTTGTGAAGAGATGCTGTTTTCTGTTTCCCTGAAACTAACATGTGGGTTTTGTAGGGTGGGGACTGA
GGGGTTGGAAGAGTCATTAGCAGGTGTCAAGGTCACAGAAATGAGATGGTGGTGGTTCTGACAAGATATTAAGCAGCTTGGGGAGGGTGTAACC
GTGTCAGCTTTTCTCTTCACCACAGTAGGAAACCTTGGAAGAAAGCCTGATAGTGCCCACTAGGAGATGTGCTGGCAGATTTTATACTACTGAT
TGAGAGCCTCTTTTCTGGAGAGTTAGAGATCTGTAGGGGCTGAAAATTAGCCTGAAGAAATTTTCTTATTTCTGGACTTGCATAGGACTTTTAA
ACTGCACATCACCCCAGTGAAAAGTGAGGATGGATTGGTTTATGTATCTTGAATGTTCAAGAGATAATAGTCCATAACCTTCTTTAGGGATTTC
ATTCCTGTAATTATTTCCCCTTATACTTCACAAGGTGAAATATCTGTCAGTTGGACAGATATTTGTCTCTTGGACAAGAGGAAACTTAACAAAA
AGTGGTAACCAAAAAGGTGGAGGTCACAAAATAACAACATGAGACCTCAATATATATAAAGGATGAAGCCCCAATACCCCTTTTTTGCTTGAGT
GTACTTTTTTTTTTTTTTTTTGCCGGGGGGCTGGGGAGGAGGGAAGAAGGGACATGCAAATATGTTTCAGGTGTTTTATATGCGCTCAAACGAAC
CCAGGGAATTCGAGATCCATCTATAAGACAAAATATTGTCAGCAACCCTGGATTTGCTGCAGTTTGCGCTAGGAAACCATGACAGTTCTGAATT

SAGRES DISCOVERY 02-12

GTCTGCTTCCTTAAACTTTTTCAAGAGGTGAGTTTGGTTGTTTGATATCCTAAGGTTGTCATATGAACCCTTGATAAAGGAAATTAGGGGTGTA
CTCGACTCCATTCTTCGGTCTGCACTCCTGTGTAGCGAGTAGCAAGTATGCTAGAACACCTGAAACACATTTGCATGCTCCCTCCTCCCCTCAA
AAAAAAAAAAAAAAAAAAAACCGTATTCAAACAGAAAAGAGGGATTGGGGCTTCCTCCTTTATGTATCTTCAGGCTTCATGCTGTTATTTGGTG
ACCTCCTTTTTGATTAGCACTTGTTAAGTTTCCTCTTATCCAATTACATTAGATTGTAAAAATGTTGCGGAGAGCACCCATGCCACCATATGTG
TGGGCTTATCTACTCAAGGAATACCAGATCAATAAGAGAGCCAAATGGGAAAATTTTGTGTGAATTTTCAGATGTGTGGTACAGTGCGAGATCT
GTGGGACTATGTGTTCCAAAACTCACTTAGTTTCTCTGGTGTCTTCAGACCAAGAATAGCCTAGGGTTATTTGACAGAGTAGGGAAGATCTATA
GGGTATGGTTAAGTGCTTGAGCTTAGAGGCTGGGTGAAAAAGTTAGTTACCTGGGTTTGAATCTTCACCTAATTTCCAACTTTTGTTAATGTCT
TTGGGCCTTCATATTCTCATATATAAAATGGGGATAGTAAAAATACCTATCTCACGGGTTGTTATGAGGTTTAAATAAGCCTCCCTCCCTACTC
TGCCCCTCCTCATCTCTGCCTGCTCTTTCTCACTCCCCAGGATCTGGGTCATACACCGACCATCTCTTAGGAAGGAGTAAAGTAGGAGATAAAA
ACTAATCTTCATCTGATGTTCTTGTCCAACGTATACTGGAGTTTCCAGGTGTACAAAGCTGATTAAAATCTGAAGACCTATATTCTTCTTTAAA
CGTTGTTAATTAATCTTCATATGGCGTTAGCCAGCTCACTTATCTTGAAGCTTACCTTCCGCATCTTTTAAATGGGAATGATGCTTTTCCACTA
TCCATTGTATACAGGTTGTTCCCTCTGCTTGGGATTGTCTTTCTTCTTTACTCCACCCCATCTTTATGTCAGGAAGCTCCTACTCATCCCTCAA
AAGCCTGCTCTATGTGATCTCCTTCCCAAAACCTTCTGAGACACTTCCAGTGCCATCTCTGGCCAGCATCTCTGCTGCTGGGGAACACAATTCC
TTGCTCATTTCCTTATTATAGCACATTTCATAGAAATCATTTGTTCACTTCTCCTGTTAGATTGTGAGCTCTTTCAAGATAGAATTGATTCTTG
TTCATTTTTAAAAAATCATCCCAGTGTCAGCACAATGCCTAGAACAGAATAGGCCTTTAGAATATGCCCTACCTCACAATGTTATCCTGTGGAT
AATTACTAGATATGAAAGGATTTTATAAATTATATACCTAAAAAAACTAGAAGGTGTTAGTATTAAGAGAAAACTGTATGAGTCTGCATCAGGA
AGTTCATCCCTTTCAAAATCACAGTGCCCACTAAGCTTAGGTTTGAATTGATGCCAAAGTTGCCTTGTTAGGAAAAAGATTAAATTTTTCTTAA
TGCTCTGATTACTTATTATTAGGGCATTTGAATATTGTTACTAATTGGTCCTGGAGCTTGGAAAAGAAAATCTCATATTCATACTTTACACATT
AAGTGTTTTAATTTGACATGACAGGTTTGAATAAAACCGTCTATTTAATTCTGTGAAGTATAAATGAAAACATTTTATTGACTATCCAGTAAAG
TTGAGTGGAAGAGATTAAAAAGGGTGTATTCATGCTAAGAGTTCATTTTTATCAGATATTTGAAATGAGATGATGAGTTATTTAGGATGGAGGA
AGAATCCATCTTTCAGATGGATAGAAACTGGGGAGAAAAGGGTTCTTTGTAAAAGTTCACAGAGCAGTCTGCTAATCATTTGCTCTGTGGAAGA
CGGGAGGTAAACCTCAGTGAGTTCATAGAGTTGTTTTTTTAAAACTTAGAACTCTTTGAATAGATCCTTAAGTGACTAATATAGCCAGAATAAA
ACCATCATTTTATCCTTTAATCATAGCTGCTAATCCTATTTCCTTGTTAATGTGCTTTATGAAATTATTTGACAATAATATCAGATTACATGTT
TTTGCTACTAATAAAGTTCTATTCTCTTTTGAGAACTGCAAACAAAATGTTGTATAGTCATATATTCATGTAAGTTAAGCTTTTATGTGTATT
AAGACATTTTTATGGCATCTCTTTAGGTTTGTATGTAATTTTAGTTATCAAAAACCCCTATCTAAAGTGATAAACATTAAAAGTTTGTATCAGT
ACACATACAGAGAACCATAAATGACAAATTTGTTTTCCTGTCATTAATGACAATGACTTTGGGCAAATTCTTTAACCTTGCTGAGCCCGTATTT
CCTTACTTGTAAAATTAGAGGTTTGGATATGGTCTTTAACATCCCTTCTACCATTTTGATTATTGCTTTTTAACTTGAACCATTTGCTTTAAGG
CAGTACATCAGATGCTTTATTTTAGTGTTTAAATGTATTTAGTACACTTGTTTTGCATGATTCACTGTTTTAAAAATATTTAAGATTTATTAGA
TAAGAGCGTTTGAATTCTAAATTTTTTTTCTGTGACTGTTAATTAATTCAGCAGCACGTAATACATATCGAAGGGTCTGTTAAGAGACGCTAAC
CCACTGGACTGAAATGGGCCTAAGCTGTGAATCGGATGAAAGATCCTATTTTATCCTAAAGTCTATACTAAGCAATAGCTGTTTTTAGACATCT
GTATTCTTAGACAATTATAGAAATTTAAAGCTGGAAGGTAGAGAACATGAAGGTAGAGAAAATAAAGGTTCTTACCCTTCATTTTACAAATGAA
GAATCTAACAGAGACAGCAAGTGTCACACAGTTGATGGCCTGTTCGGCACTAGTCCACTATTATCAAAGTTCTTTCTAGAATGCTATATGAGAT
TAACTTATTACTATGAATGTTGCAAATGTACTACATTTAATACACAGAGATTATACTACTTATCTGTTTATATATTGAGAGGTGGTAAGATTTT
CACTGTGCCGTCTACACACTCTTAACTGTTCCTTCTTAAGAACTTTGTGAAGTGGTTAGGATTAGTGATGAAACTATGGTTATGACCTAGGTGG
AGATTGAACCTGGATGTTTAGTTACTTGTGCCATGGTCTACCTCAGCTATTTTCAGTTCTGACTGTCTGTCACCATCACCTGTGAACTAAAAAA
ATTATGATGCCCAGACTGTACCCCAGACCTACTAAGTCAGAATTTCTGGTTTCAAAAGTTCCATAGGGGGTGATGTTGGGCAGCTAGGATAGTG
AATTTCTGCTTTTGTCACAAATAGATTAGCCACATACCCTACCTAAATGATGGCAACCTGCTGTGCTATCATTTAAAAGGTATCAGTAGAAAGG
TTGGTATAGTTACAGTGAGATTTTAGTTTGTTTGCATATATATTTGATGTATTAATTCTATTTGATTAGATAATATGAACACTTGGTACAAAAT
TCAAGAGGTACAAAACAGTATATACATTGAAAAGTATTCCTTCCTTTCATTATCTTCTAGCCATTCCCTCCCAAGAAGCAAGCATTACCAATTT
GTTATATCCTTTTTGTTGTGTGTTCTTCCAGAAATTAAGCATTTACAAACATAAATTTATGTGCACTAATATATTCCTTCCACCAACATACAAA
TTATAGCAAAATATATACATTTTTCTGTATCTTGCTTTTTTACACTTAACAACATAGCTTGAAGATTTTTTCACATTCACATAAAGAGAGATCT
GCCTTATTTTTTAAACAACTGCATAATATTTCATCATTTGGCTGTACCACAGTTTATTTAGCCAGTCCCCTATTAGTTGACACTTAGGTTGTAA
ACAGTCATTGCTATTACAGACATTACTACAATGAATAACCTTGTAAGCATGTCATTTTTAATATGAGTGTCTTTTTGTAGGATACATTTCTAGA
TAGATGTTAAATTGATGAATTGAAGGATATGTGCATTTTTATTTTGGAAAGACAATGCTAAACTATAGCAATTTAAGCTCTCACCAGCAATGTA
TGACTGCCTATTTCTTTATACCCACGTAGGGTGTATTTTAAAACTTCTTAATCTTTACTGGTCTATGAAATAAAAAGGAACATTTAATTTGTAG
TTTTAATTTGCACTTTTAAATGAGAGTGAGGATTGCTCTGTCACCAGGGCACGATCTTGGCTCACTGCAACCTCCGCCTCCCGGGTTCAAGCGA
TTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGTGCCACCACGCCCAGCTAATTTTTGTATTTTTGGTAGAGACGGGGTTTCAC
CATGTTGGCCAGGATGGTCTCGATCTCCTGATCTCGTGATCTGCCTGCTTCAGCCTCCCAAAGTGCTGGGATTACAGCCGTGAACCACTGCGCC
TGGCCCTAATTTTTAAATTTTAAATTTTTCTAAGGCTTGAAATTAAGTTATAGGATCTCTTCATATTTTTAAGAGCCATTTTTTTTGATGTGCT
ATGTGAACTGGTCTATTTCTTTTGTCCTTTTTTTTCTGGTGAGTTACAGTCTTCTTGATTTGTGAGAAAATGCTTTATGCTGTAAGGAAGTTAG
CTATTATTTTAAAACCTGTGCAAAGATTTAAAAAATCTGTATACTTTGGCTGATGCCTGAATTTATTCTTAAGTTGATTGTGAGATCCAGTGAG
GGCAGTCAGTTGTAAGTTTCATCTACTTATATAACGTCTGATGGTTGAGAAATTGAGAAAGAACTGCTTGAGGAAAGGTAAGTGAAGACTTATA
AACAAAAGTTAAAAGACAATAGATTGGGAGAAAATATTTGCAGTGTATCCTTCAGACAAAGGAAATGTGTATAACACTGAATTCTTTGCCAGGC
ACTGTTTTAAAGCACTTTATGCGTATTAACTAATTTAATCCTTACAGTAACTCTAAAAATACCATTATTATCCCCATTTTACACATTATGAGGA
AACAGATACACAATAGCTAAGCTAAGTAAATTGACCAAGGTTAGATGGCTGGTGAATGGTGGAGCTATCAATCAGACTGGGCAGATTGGCTCTA
GAGTCCATCCTGTTAACTCTTAACCTACTGTGCTATTATGCCTCTCTATTTATTATGTCCAGATTATATAAATAATTCATACAGACTTAAAAAC
AAGAGGCCATTAGAAAAATAAAGGATACGAATAGGCATCTCACAGGAAAGGAAATACAAATGTCCAGTAAACATGAAAATATTGGTAAAGTAAA
AATTAATCAGGGAAATAAAATTTTAAAACATCAATTTACAAAAAAAGGAAAGTTTATCTCAGTCTTTGGTGAGGGTTTAGGGAAATAAGTATTT
TCCTCATTGTTGTTGTGAGTTTAAATTGATAAAGCAATGTTGGAGAGCATTTTGGCTATATCTGTTAAGAATTTAAATGTCTATACACCATGCA
TTTTTACTTCTACCTATTTGCCCTGCATCAACAGTTGTACATTTAGAGAAGAGGCATATACAAAGATATTCAATGTTGCCTTGTTGGTAAAACA
GAATAATTGGAGACGACTTAAATGTACATCGGTAGGAAAATGGATAATATGTTCATACACGTATTCTATAGCAACTAAAAAGAATGAGGTATAT
CTATGTTATGAAAGGAAAGAACTCCAGGATGTCTTGTTGGGTAAAAACAGCAAGTTGTAGAATAATATGTGTAGTATCCTGTGTATTGTTTTAA
ATCTCAAAACATTTTACTTTTCTGCATGTAGATGGATAAATACATAAAAAGAGGTCTGAACAGTTGTACAGATAACAGTGATTGCCTCAATGGT
GGATAAAGGGAGTTAGCCGGTGCTGGGAAAACTGGCTAGGCATGTGTAGAAAGCTGAAACTGGAACCCTTCCTTACACCTTGTACAAAAATTAA
TTCAAGATGGATTAAAGACTTAAATGTTAGACCTAAAACCGTAAAAACCCTAGAAGAAAACCTAGGCAATACCATTCAGGACATAGGCATGGGC
AAGGACTTCATGTCTAAAACACCAAAAGCAATGGCAACAAAAGCCAAAATTGACAAATGGGATCTCATTAAACTAAAGAGCTTCTGCACAGCAA
AAAAAACTACCATCAGAGTGAACAGGCAACCTACAGAATGGGAGAAAAATTTTGCAATCTACTCATCTGACAAAGGGTTAATATCCAGAATCTA
CAAAGAACTCAAACAAATTTACAAGAAAAAAACAACCCCATGAAAAAGTGGGTGAAGGATATGAACAGACACTTCTCAAAAGAAGACATTTATG
CAGCCAACAGACATATGAAATAATGGTTATCATCACTGGCCATCAGAGAAATGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN



ATTTATCTTATTTGTTGTCGATCTCTCCATGTGTGTTAGCCTAATAAGGACACAGACTTTTTGTCTGTTTTGCTCACTGTCATATCCTAGCAGC
TTAGTAGGTACTCAGTAAATATTTGAATGTGTGAACTTCAGCACTGGTTTATTTTCAAAACGTCTCTGTATTAATACAATAAAGATTCTTTAAG
TGCTTTTGGTAACTGTATACAGGAGACTTTTTAAAAAATCTTTGGAGTAGTTGACATAAATCAACTTAAATGAAATGGAAAAAAGAAGTTTACA
TACAATTTTATGGTTTGTGATGTGGTATTGGAACCTCTTTTTTGCCCATGCCAAAGTTATATACACACGCATTGATACTTATTCAGCAGCTGTT
TCATTATATATTTTATGCTAAGGATGGTGCTAAGAATTGGTCCCCTTCCTCAAGAAGTTTATAGTTCAGTGAAGAGACAACCAAACTGCTTTTG
CTTGGTTGTGTCTCATCTTTACCACCTCAAAACATTAGAGAGCCCTGAGGCTCAGTCTTCAAATTTCTTTTCTATATTTGCTCCCATTGTGATT
TTGTATTGTCTCTTGGTTTTGTAAATTTTATGTACTTACTGATGATTCTCAAATTTTTTCTCTATCTAGGACCCTTTGTCCTTGGACAGATTGT
CTGCACTTGGATGTATAAGGCATCTCAGATTTAATATTCAATACAGTCTCTTGAATTTGGTCCCCAACAAGAGGCTGTGTCTCTAGAAATAGCA
TCTCTATTCATCCAGCTGCTCAGACTAAGACTCTTAGAAGTCATTCTTGACTACTCTATTTCTCACACCCTGCAGTAAATCCTGTTGGCTCCAT
CTTCAAAATACATGCCCAAATGACCCATTCTCTCCAGACCCGTGTCTGCTCTGCCCCTCCCCTGACCTGCAAGTTTTCGCTCATTGAGATTACT
ACAGTAGCCTCCTATCTAGTCACCTGCTTCTACCTTTCCCCTCTGCACTGATTTTAAAACAAAAAATCTTGCCATTTTTATGCTGAAAATCCTT
CAAAACCTTACCATCTGACACACAAAAAAAGCCTAAGACTTTCCCGTGCCTGTAAGACCTTATTTAACCTGTCTCCTCCCATACCCTTACTCCA
TCTCTTACTATCTCCTCCCTCTCCCCACTTTGCTTATTGCTTTGTAGCCATACTGCCCTCCTTGCCACTCCTCCAGTGTGCCAAACTATCCTGT
CTCAGGGCCTTTGCACATTTTATTCTTTCTGCCTGTCCGTCTCCTTCCCCAGATATCTGTATGGCTTATACCCTCAATGACTTCCTTCAGGTAT
CTGCTTAAATATTTTAATTGAAAGGCCTTCCCTGCTTCCCTATATAAAATAACATTGACCTCCTCCCTGTCTCTACCCTCTGGGCCTGCCATTC
CCTAACTCTCTTAACCTGCTTTGTTTTCTTGAATAGCAATAAATATTTATTTCTTCCATGACAATAAATACTATATGCTTATTTAAGAGTTTGT
GGTATTTGTCGTCCCTGTATATATTGTACAACAGTTTCGTATGGGCAGAGACCTGTTTTTATTCACTGTTATATCCCCAGCACTTAGAACAGTG
CCTCGTGTGTTTAGGCACTTAGTAAATATTTGTTGAGTGAAATGCAACAAGTACAAAACAATATGATCACTGTAGTAGAGATGCAAGGTACAGT
AGAAACACATGGGAAAGAGTGACATGACTACATAGGAATTGAGGAAGACTTTGCAAAGATGCCCTTAAGCAGAGCTCTTTGGAGAGAAAAACAG
GTAGGGCATTTCATACAAAGAAAATAGCATTGCAGATACACAGAGGAATGAGAGAACAGTGTGTTCAAGGAACTAAAATATAGTACTGCTACAG
CATAATTTGTGGGGGTAAAGATGAACTAGATGAGGTTGAACATGTAGTAGATAGCACCTGATCATGGAGGGATGGAGGGTTTTTGTGCCAGACT
AAGGAATTTTAGATTTTGTCCTGTCAAGTGGGCAGTGGTAGATAGTGTGAGCCATTGAAGACTTCTAAGCAAGGGATGTTTTATTTATATTTAT
TTATACGTGTCTCTGTGTTTGTGTGTGTGTGTGTGTGTACGTATTAAAAAGGTAACTAGCAACATTGTGAAGGTTGAGTATCAAAGCTAAACAC
AGCATTTTATTTAAGATATGTATGATTTAGGAAGATATGATGTAGAAAAACAATTACTATCACATGTGGGCGAGAGGATATTTCATTTTATATT
TGGACAAAATCATGGATGTATAGTGGGAAGATGTTCTTGGCATACTTGCAGTACATTTGTGAAAGAGAAGAAATGCACAATGGAGGATTATTCT
GTTTGTCTTTGAAAATCCACCCTTTAAGAAAGAAGACTTTAAAAAATTAGTTAACAGTTATGTTGTAAGTCGTAATGTACACTAGAAAAGTGCT
TAAGGAGTACCAGTTATGAATCAACAAGAAAAGATGTTACAGAATAAAATAAATTGTGCTTGAATGTCAACCTCCTTTCTTCGTAGAGGAACAG
TTGGTTGTCATTGATATACCTCCTGATCTTGATTTATTGTTGAAGGAAATAGTGACAGTTGTACACACAATCAAATCTATACTGTTTGCTGTGG
GAACAATGTATCTGCCTTTGTAGGACAAATGTCTGCTTTTGCATATTGCAGGACTCCGCATGCACAGAATTTTTGAAATGAGGGATGAACTATA
AAAACATTTCTTCCTTTCATTCAAATGCAAGTAAAAACCATTTTTATTATTTCAGCTGGCTTGCTTGTGTCATATCTTAGCAATATATTGAATT
TCTTGAATACTTTATTCTTATTAATTTAGGGTCAAACTATGATTTGTGAATTTAAGGATAAAATAGAGGCACCCAAAATGGTGCACACGATTTG
AATGTTAAGAATTTGGATTTGGCACTCCCAGCCAGGCATGGTAGCTCACGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGCAGATCTCT
TGAACCCAGGAGTTCAAGACCAGCCTGGGCAACATGGCAAAACCCTGCCTCTCCATAAAATACAAAGCAAATTAGTCAGGCATGGTGGTATGTG
TCTGTAGTCCCAGCTACTCGGGAGGCTGAGGTGACAGAATCACGTGAGTCCAGGAAGGCGAGGCTGCAGTGAGCCATGATTGTGCCACTGCACT
CCAGCGTGGGCGACAGAGCGAGACCCTGTCTCAAAAAAAAAAAAAAAAGAAAAAGAAAAAAGAATTTGGCATTCCAAATTCATGAAAATATGA
ATACTGTATTATTGAATATATTTTTAAAATTTTATCCAAATGCTACAGAAGATGAAGAAATATTTTGTGAAGGTAGATACAACTATATATGGAG
TTAAGATCCATTTCCCAAGTTAAAGGATTCCCTTTTTAAGTGTGCTGCTATTCAACTCACTATCTGATGGAACAATGAAAATAATTTTCAGTGA
AAAATTGCTTGGTAATTTCTGTGTCCATGTTTGATCCAGATAGCCACGTGTAGCCGGTGGATTTACCCAACCATGATGACCAGTAACTCAAAGT
GGGATTTTCTAATTTGTTGGAAACAAAGGTTAGAAAAGAATTGAGATTAGGTGACAGCATCAACTCTAGTTAGTTTAAGCAGAAAGAGCTTTAA
TAAAAAAATTTTAAGTGGCTTACAAAATTGTTGACAAGGCTGAAGAAACAGACTCTAGATCTAGAAAAAGCCATGTTGCATCTAGGCCACCAAG
AGAGTTATTGCCTCTTTTAGGATCAGAAAGACTTTTGCAGAATTGTGAAACTGTAACTTTTAGATGCCTGTCTTAGAACCTTACCACCTCTGCC
ATGATCAGGAGTCTACTACTGTTAGGAAATAGCCATTAGCAAGCAGCCACCTTCCTCAGTAAGCCGTTGTTGTTGCTGGCCCTAGAGCCAAGCC
CTGCCTACCACAACCTGTACTGCAGAATGGATGCCTTGTGCCTTTCTTAATATTCATGAAATCTGTGACTGAATACTAGGACTTCAACAAATAC
TGCTGTGAACATGAACATCTCCATGACAATGTTTGCTAGTAAAACAACCCAAACTCAACCTCCCTTCTCTTCTGTCCTTGAAATTTCTAGTGAG
TGCATCTGGTTGGTGGAACTTAAATCACATTTACAACTGTAGCCACAAGAGAGGCTGGGAAATGTATTTTTTAACTTTCTCTTCTCTGCAGCAC
AGGAAGACATACACTGAAGGAGGTTGAAATGGATGTGAACAGTAATCTACCATATTTACTGCAGGTTTAGAACCTGGTTCTCCTTAAGGCTGGC
TGTCATTAAACGGGCTATAGATAAGTTGAGAAAGTTTATAAATAATACCGTCAAACAATGTTGAGAAACTCATTTGTTTCTTTGTATATTTTTA
TTGTTTTATAATGACTACATTAAAAAAAAAACTAGAATTTGTCCTTCACCTCTATGATGAATTAAGTGGTCTGTGGATACCGAAAGTTTCCTCA
CGTTTAAGATGTGGTTAGTGGATAAAAAGACCAAAAGAGGGAGTATAAGAAAAACCCTCATACAAGGTTACCTGAGCTGAGGAAAGGTTAGTGT
TGTCAAATAATGAAGAGTGGTCAAATAAGGTGGGACTGAAAAGCAGTGTTACGATTTGGGCACTTAATATTAGTGGTTTTTTGGGTTTTTTTTT
TCTTTCTTTACTATTGAGACAGGGTCTTGCTCTTTTGTCCCAGGCTGGAGTGCAGTGGCAGCTCACTGCAACTCCCATCCCCTGGGCTCAAGCC
ATCCTCACACCTCAGCCTCCCAAGTAGCTGGGACCACAGGCATGCACCACCACGCCTGGCTAATTTTTTGTATTTTTAGTAGAGATGAGATCTC
ACCATGTTGCCAAGGCTGGTTTCAAAATCCTGTTCTCAAGCAGTTTGCCCACCTTGGCCTCCCAAAGTGTTGGGATTACAGGCATGACCACTGC
GCCCAGCCTGTTAGTGTTCTTCAAGGTTCTAAACAAGAAGTAGAGAAGTAGGATAAGAGGGCAAGTTGCAGGTTTAGGCTGTGAGTTGAAGGGA
GCACTTGAAAGGAGAGATTATAGAATAAGTTTTCAAGAAATTTGGCAATGGATTTTTTTTTTTTTTGGTCCAAGGCGCATGCTCATTTATATAC
CAGAATTGGCTAGAGTTCATGAGGCCCTGAACAAATATCACACACAAGCAAGTACAGTCTTCCAAAGTTCTTCACTTTTGTCTTTTTGTGTAGC
TTGATGTAAAGTGTGGCTCTTAACATATTCTCTTTATGCTTAGAGATATAATAGGCACAATATTACTTTTATTATATCTGTAACCATTACTTCC
TTTTTGATTATGTTGTTTATAAAGTGCCAATTAATCACTACTATAGTTTGGAGTTACAGTATCTGACTTAACATATTTGTACAATTGATTGTTG
AGCCGGGCATTGATTAGATGAATTAACTTTCAACAAAGTTTATTTGAACTTCAGTCATTGGTGGATATTTAAGAAGTACAGATTATGATAACTG
CTTTTATAGGAAAGGATGCTTGGTACATTTTTTCATATGACATAGATCTTACATTTTTATTTATTCTGGATAAATATCTGATAATGTCAGGTTC
ATTGGATTCTTCAAAATAACCTCATTGTCTCTCTCTTAAGAGGGAGAGGGAAGTAGAATATGTGTAAATTTATATAATGTTGTTTTTCTCAAAAC
TGCACCTATGTGAATGAAACAGAAACATGTTCAGGGACAGTTAGTGTTTCAAATTCTCCCAATTAGATATGGAGCATATTTATTATGGAGCATA
TTTATTAAGTAGAAAATTATTATGGTCTAATTCCAAATTTTTATATTTTAGGTCCTATATTGCGACCTAGTTGGACTTTCGTTTAAAAAAAAG
TCTAAATTATGCAGAAGGGAGACGTCAAAGAAAAAGGAGAGACTGAAGAACAAGAAGGCTGAAAGTAATGAAAATAGAATTGCTAGACAGTGTC
CTGGAGGGACAAGAGGGAATGGGGTAGAGAGAGCACAGGTAAATGGATGAGCTTTGGATGAGAAGAGGAATAACTAGTCTTTGGAGGAAGAGGA
AAATGGATGAATACCGGTTCAGATATAGATTATTTGTCTTAGTGACCTGGTTTATTTGTAAGGACTAACCCATTTTAGGCAGTTAATTAAATTA
ATCATTTAAAAGGTGAGATTCCTCAATTCTGACTTGAGATGGACCTAAATTTGTTTATTCTGTTTAAGTAGTAACTTTATTTTTTTAGTGACAG
ATTTAAGAAGTATCTTACTGGTACTATTCCATTGGTTTTCTTATTTTAATTTTATAAATAATGTGTTTACTGAGTTTTTTTATAGGTGCTTCTT
AGGTTTCTAATAGACTTCTCTAAAATATATTGGTTTAAATGGCCTTTAAAGTTGATAAGCAGAAAGATACTTGAGTTTATCTAGTCCAAACCTT
CATCAGGAAAGCTGTGATTGAGTGATTTGTCTGAAGTCATACAGCCACTTAGTAGCAGAGTAAGAGAGGAATATTGGTTTTATGGTTCTTGGGG
TAATGCTGTTTCCCTTATGCCAACTGATTGCATAAGGGAACTAGTGTACTGATTTCAGCGCCCATACTTGTGTATGTCCTTTGAGCTAGAGTAT
CAAAGGACTTCAAAACTTCAAAACTAGACTTTTTAGGTTATTTAATATTCCTTCAACAAATGTTTCTCAGCTGTCTACCGTATGACAGTCACTG
TTTAAGATCTTGAAGATCAACAAGTTCTTGGGCCTCAAGAATGAGGGAACCAAAAAATAAACACTGAATTAAAAATGAACAGAAATTTAGATAA

TCATCAGTGCTATCAAAGAAACAAAATGGAGAAATAGAATATGGTAGCAGAACTATGTGCTTTAGATAGAATAGTCAAGGAAGATTTCTCTGAG
TTAGTGATATTTGAGCTGAGACTGAATGATAAGGCACTCGCCATTGAAGATATCTAGGAGTGTAGCATTCCAGACAAAAGCCCTAAACTTGAAC
ATGGTGTGGCACAGTTGATGAATGAAAAAAACTAAACACTGACCGGGGTTGGGGGAATGGAAGGAGAAGAGATCAGAGAGACCATTAAGTAGGG
CTTTGTAGACTGTGGTATAGAAAGATAATTTTATTCTAAGTGAAATGGTGTGGTATTGGAGGAGGAGAGTGAGTGAGTAACCTAAAGAATATGT
TTCAAATATCACACTGCTTGATGGAGAATGGATTGTAGGAGGGCCAAAAGTGGAAGCAGGGGCACCAGTTAGGCAACTCTCATGTTTGTTCGAA
TAAAAGATTGTGGTGGCTTGGACTCGGTGATTCTGGTCAAGGCAAAGAGAACTGGTTGGATTTGGGATTTATTTTGGAGGTCTGCTGGATTTGC
TAAGAGACTGGGTATGGGAGTTTGGGGAAATAGAGGATGGTGAGAGTAAGAGAGAAAAATGGTAGACTGGGGAAAGGGCACATCTTGGGGAAAG
AAATCAGATGGTTTTTCTGGGACTTGTTAAATTTGAAATGCCTACTGGATATCCAAGGAGACAGTTAAATAGTCACATCTAGTGTTTGTTGAGG
AGAGGTTAGACCTGGTGTTGCAGATCTGGGAGGCGTTCGCATTAACACCATATACTGCAGAGTTGGCAAAGAGAAGGAAGAGAAGGTGGTTTGG
AATTGAGGCATTGCATGTTTAGAGGTAGCCAGGGGGAGAAGTCAGCAGAGAGCCAGTGACGTAGGAGAAAAGTCAGAAATACTGTGTTGTGGAA
GCCAAGAGAAGAGAGCATTTTAAAGAGGGATATTTATGTTCACTTGGGTTAAATCATGCTGCCAGGCCGGGTATGATGAAAACAGAGAAGTGAC
CGTTGATTTGGCAATGTGGAAGGCATTAGTGTCCTCAGCTAGAGCAGTTTTAGTGGCATGGTGGGGTCAGAAGCTGATTGGAGAGGGTTGAAGA
ATGAATGGAAGGTAAGAAGAGACAACGACTAGAGATGATGCTTTTAAGAAGTTTTTTTTCCTTTTCTTTTTGTGTGTTTTTTTAAGTTGAGAAA
TTCCCATCATCGTTTATATGCTGATGGGAATGATCGCTAGAGAGGAAAATTAATGGTGATTTGGGAAAGAAAGATTAATTGTGGAGTAAAGTCC
TTGAGGTAGCACTGGTGGAATGGGATAGAGAGCACAAGTAGAGGGATTACCCTTTCATAGGAGTGGGGATGCAATTACGTAATATAAAAAAGGG
ACCTCAAGCCACTTTACACACAGCCCCTCCCTTCAGTCTTAACAATCTCCTTTAGACCAGCTTGATCTTTCTGTAATCACTAGTGTTTTTTTTT
TTTTCTGTGCCACATTAATATGTTCTTTCAGATTGAAGTCATCCTATATAAGGCTTAGTATGAAGCAGTTGATGATATTTAATAACAATTTTAA
ATTTTATGCCAACAGGTGAAGCAAAAAATTTATTGCCATATCTTGGACCCCACAAAATGAGAGATTGTTTCTGTACCATAAATTTGGACCAGGA
AGAAGTTTATCGTACCCAAGTTGTGGAAAAATCTTTAAGGTTGGTAGAAAAAATTGGTAAATTATAATTTTTACTATATAGATTGGTAAATATT
ATGCATTTTCCAGATTATAATAATCAAGAAGACAAGACAGAAACAGTGCTTGCTTTCATGTGGCTTTTCATTGCCTCAAAATGTATCTTCCTCT
TAATTGTTCCTAATTTTATCTTTGTTTTCTGGAGAAAAGTTTTTTCACATGACAGGCTAAATATTGCCTATTCGTTTGAACTTTCCTCAAAGTA
CATCTTTATTTTATTTATCTAAAGAATAAGTTACTTAAAGTTCATAGAAGTTGCTTAACTTAGTAGTGCATTATCAGGGAATGAATTCTCAGAT
AGATGTCTCATCTTTGAAAGTGTAATTGCCCTTTGAGAGTATCATATTAAATTCTAATTCATAAAACTGGAATATACCACCTCTGCACCGTAGC
AATGTGAACATAATTCTAGTGCAGAGTTGTGCTGAGAATCTTGTTCAGAGACAAAAGTCAAAATAAGGAGGCCGGGCGTGGTGGCTCACGCTTG
TAATCCCAGCACTTTGGGAGGCAGACGCGGGCAGATCACTTGAGGTCAGAATTTCGAGACCAGCTTGGGCAACATGGTGAAACCCCGTCTCTAC
GAAAAATACAAAAATTAGTTGGGCGTGGTGCTGGGTGTCTGTAATCTCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGGGT
CGGAGGTTGCAGTGAGCCAAGATTATGCCATTGGACTCTAGCCTGGGCAACAAGAGTGAAACTCCATCTCAGAAAAAAAAAAAAACAACAAAAAA
ACAAAAAACAGGGTGTGGGGTATTATTGGAATGAGCATGTGGTGGATGAAATATTGAATGCCATGCCTTATCTGAATCATTTTAGGTCAGTT
GTATTTTAGGGATCTGTTTTTTTTTTTTTATGCCTTTAAAAAAATATCTTTCTTTTACATTTGCCTTTGAAGTTTCCCTTTATGTCTTTATTTTC
ATTTTTTATAATTTTAAATATCTATTGAATTCTTCTTAGAAAAGGTATTGTATAAAACTGAAAATACTTGAGTAGCCCAAAAACATTTCAAGGA
GTAAACTTGAAATCTTTAGTCTTAATTCTCATATTGTTCTTATTTGGCTTTAGAATGTACTTTAAACATAATATTTGAATGTGGATGTGATATA
TAAAGGAAATTCTGCATTTATAATTGTTTAGAAAATAATGCAAAGAGATACATACCTACACATGTCTTGTCTTTCATATCATGTTTTCATATCA
TATTTGACTAATAGTTCTTTTTGCATTGATTTCTATGTTGAAATTAATTAGAAGGCTCTAGTTACTTTGTGAGACCAACTTTTAAAAGTTTAGT
TTGGTTACATTTGAAGGGAAAAATATAGTGACAAAAGTTCACCAGGCATTTTAACAACTAAAAAGCTGAACCAACTGTTTTCTAGACAAGATCA
GATATGACTTCTGTAGGAGTATTTTACTTTATATTTCAGCTTCTCATTTAGTTATGACATCATAAAGATACTGCATTTCATAGCGATATTTCTA
GAGAATCTTTTTGTTCTTTAAACTTTCTCAGGAAAGAGGTACACTTGACAAAAGAAACTATCATTTCAGAGATTCGCGTCTTCATAGAAGAATC
ATAGAAGGATAAATATATCAAAATGGCATTCTTAAAATGAACTTATAAAAATAAGCTTTGCAACATGAGGATGGGCAAAGATTTCTTGCTTTGA
ATGCAAGAAGCACCACTAATTATAAAAGATGAAAATTGGTAAATTAGATTTTATCAAACTTAGAGGCTCCTTTTCTTTAAAAGACACTGTCAAG
AAAATTAAATGGCAAGCCACACCTGGGAGAAAGTATTCTGACAAAAGACTTGTATCCAGAATTTATTAAAAACAAAAACCCTGATAACTCAAA
AGAAGACCGATGGCCATTTAAAATATGGGGAGAATACTTAAACAGATACTTCAGAAAAGATATGGCCAAGAGCACATGAAAAGGTATTGGACAT
TGTTAGTCATCAGGAAATCAATTTAAAACCATTTTTGTCACTATAGATTCTAGAACATAATCTGCAGTGATAGAAATCATATCACTGGTTGCCT
GTAAGAATATGGTGGGAGTGATTGCAGAGTCACAAGGGAACTTTCTGGGGAGATAAAAATGTTTTGTATCTTGATTATAAGGTAGAGATTACAT
AGGTGTATACATTTATCATGTTACATTCACTAGAATAGCTAAAGTTAAAGGCTGTCAGTACCAAGATGTGGAACAACTGGAGCATTGCTGTTAG
GGGTGTAAAACAGTACAACCACTTTGAAAACAGTTTGACAGTTTCTTGTAAATTACACATTCACCTGCCTTTTAACTCAGCAGTTGCATTCTCA
GTAATCAAAAGCATGTGTCTAGAAAAAGCTTTATATAAGAATGTTCATAGCAGCTTTACTTTTGATAGCCCAAACTGGAAACAACTCAAATAAC
ATCACTAGGCGAATGGATTTGGAATGCAATGGAATACTATGCAGCAATTAAAACAGTTGAACTACTATGTACACAACAACATCGAAAAAATCTC
ATAGACATTAAGCTGAATGAACAAAGCTGGACATGAGTACATACTATATGATTCTATTTATGTGAGATTTTAGGATAGATGTATAGTGATAGAA
AACACATCACAGGTTGGGGCAGGTATGATGGGGTAACTGAAGGAGAGGCATAAGAGAACTTTCTGGGGAGATAGCAGTGTCCTTTATTTTGATT
GGGGTGGAAGCTACACAGTTGTATAAATTTATCAGAAGTCATCAACCTCTATACTTTAAATTGGATTTTTATTGTTTGTAACTTATAGCTCAAT
AAAACTGATTTAAAAATACCTTGTTTTAATTTTTTAAAAATATTTTTTAAAGTTGATTTTAAAATTGCATATTTTAATTTTTTAAAAATAGCTT
AATTTAAAAAAAAATTTTGAAGTAGCCTTTCACATAACATTGGCTGTTTTAGGTATTATGTATTGTAAATAATACAGCTTTACACATTTCTAAG
ACAAGGATGGTATGAATGACACTATCCTCACCTCTCAAATGGTCCACCTTAGGTGAGCATGACCCCAGGCAGTTACTGTATCTTCTATCCACAG
GACTGCTGAAAAGCTATTTGTTCAGAACTCATACTGGCAACTTAGATCCCTTCAGTGTTCAGCTTGGTTTGTATAGAACTTAGTTGAAATTTAG
CATTGAGAATTATTTTGGGGCTTTTCAAATTCTTTTCAATGGCATTTTAGTCCATAATTTCATTAACTTTATTGAAAGTGATATTATTTGGCCA
GGAACATTAGCTCACTCCTGTAATCCCAGTACTTTGGGAGGCTGAGGCGGGTGGATCGCAAGGTCAAGAGATTGAGACCATCCTGGCCAACATG
GTGAAACCCCATCTCTACTAAAAATACAAAAATTAGCTGGGCGTGGTGGCATGTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAA
TCGCTTGAACCTGGGAGCTGGAGGTTGTGGTGAGCTGAGATCACGCCACTGGACTCCAGCCTGGCAACAGAGCAAGACTCTGTCTCAAAAAAAA
AAAAAAAAAAGTGATATTATCATTCTCAGCAAACTATCGCAAAGACAAAAAAACCAAACACCACATGTTCTCACTCATAGGTGGGAACTGAACA
ATGAGAACACTTGGACACAGGAAGGGGAGCATCACACACTGGGGCCTGTTGTGGGGTGGGGGGAGGGGGGAGGGATAGCATTAGGAGATATACC
TAATGTAAATGATGAGTTAATGGGCGCAGCACACCAACATGGCACATGTATACATATGTAACAAAGCTGCACGTTGTGCACATGTACCCTAGAA
CTTAAAGTATAATAAAATATATATATATTAAAAAAAGAAAGTGATATTATTTGAGTATTTATACAATTATTATTGAAAGTGATATTAATTATTA
TTTATTTTATATTATTTGAAGTAATGAGCTTTCCTTTTCTTTCTAGCCCATTTTTCAGTGAAGAATTTTACTTTGAGATTCCAAGAACTTTCCA
GTATTTGTCTTTCTATGTTTATGATAAGAATGTTTTACAAAGAGATCTCCGTATAGGTATGTACTATTCATAATTATCTTTAATCACAATGTTA
ATGTTTATATTCATTCGTTCTCTTAGTATAGTTTTGAAAATTGCAGAATAATATATGCTCAACATCTCTGATCTTTTTCTGTAGACTACATGTT
CATTTGTGAAATTTCATTTTTAATTTGTATGTTCAGCTTATATGACACTTTCTCAGGGAGGCCTTTGCAGCTCCCCTAGTCACTATGTCATATG
TTTTTATAATTCCTGATGGTTCCCTTTCCATGGTACTCATTATGCTTATTCATTAGTTGGCTGTTTCATATCTAGGTTCTCTAGTTAAATGTGA
AATTTAAAAGGGCAGGGACTCTTTTTTTTGTTTTTTTTTTTGACACAGAATCTTGCTCTATCTCCCAGGCTGGACTGCAGTGGTGCGATCTTGGC
TCACTGCAACCTCTACTTCCCAGGTTAAGCGATTTCTCCTGTCTCAGCCTCCTGAGTAGCTGGGATTACAGGCGTGTGCCACCACGCCTAGCCA
ATTTTTGTATTTTTAGTAGAAACAGGGTTTCACCATGTTGGCCAGGCTGATCTTAAACTCCTGCAGGAAATCCACCTGCCTCGGCCTCCCAGAG
TGTTAGGATTACAGGCATGAGCCACCACGCCTGGCCGGGCAGGGACTCTTTCTTACGGAGCACCTTACACTTAGTAAGTGTTGGGTAAGTATTT
GTTTAGTGGTTCAAATAATGTTTTTATAGAAAGATTGCAGTTTTGATCCTTCCAAAGAACATCTGTTGTTGAGGTTTTTCTAATAGAAGTAATA
ATTCACTTTAATCTATTTATACATTTTCTTCCTGTCTGTATTAGTGACTGTATTAGTCCATTCTCACACTGCCATAAAGACATACCTGAGACTG
GGTAATTTATAAAGAATATAGGTTTATTGGCTCACAGTTTTTCAGGCTGTACAGGCTTCTGCTTCTGGAAGGCCTCAGGAAACCTACATGAGTG

AAAGGCAAAGGGGAAGCAAGCACATCTTCACATGGCTGGCAGGAGAGAGGAGAGTTGGGATGTGCTACACACTTTTACAATAACCAGATCTCAT
GAGAACTCACTGTCATGAGAGCAGCAAGGGGATGTCTGCCCCCATGATTCAGTCACCTTATGCCAGGCCCCTCCTCCAACAGTGGGATTACAGT
TTGCCATGACATTTTCGTGGGGACACAGAGTCAAACCATATCGGTGACCAATAAATATATTTCTCTTTTTTTTTTGAGACGGAGTGTCACTCTGT
CGCCCAGGCTGGAGTTCAGTGGCGCGATCTCAGCTCACTGCAAGCTCCGCCTCCTGGGTTCACGCCATTCTCCTGCCACAGCCTCCCGAATAGC
TGGGACTACAGGCTCCCACCACCACGCCCGACTAATTTTTTTTGTATTTTTAGTAGAGACAGGGTTTCACCATGTTAGCCAGGATGGTCTCGAT
CTCCTGACCTCGTGATCTGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTCAGCCACTGCTCCCGGCCAATAAATATATTTCTTAAA
TAATTGTCAGACTAGAGTGTGATCTGTGGGCATGAACTAGAACAGAGCTAACTGGCCACATATGTGTCACATTCCTGATCTTTGCACCACTATC
TTTGTATTTTAATCATAGGCAGAGGTCTAATTTACATTTATTCTCTTTCTTTTTAGTATCCTAAATTTCATCTCCCTTTCCTTTTTTATTTGAA
ATATGGTCAAGTCTCCTACAGCTTAAAAAATTAAGCATTATTTGGCCAGGTGCAGTGGCTCATGCCTGTAATCCTAGCACTTTGGGAGGCCGAG
GTGGGCAGNNNNNNNNNNNNNNNNNNAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATAAATTAAGCGTTGTCTTTGTCCTCTTAACTAACTT
CTGATGTTTCTCTGTGTTTGATATTGAACTCCTTAACAAATGGTCTGTGTCAGTCCTCTGCTTGCTACTTATTTCTTTTAAAATCTCTATAATC
TGGCTTCTATGTTTTTTTGATAAACCTTTCTTGAAATTTGCCAACATCATTTTAATCAAATAACCTTTAAAACAATATGTTTTTCTTAATTATA
AAACTGTTATATGTTCTTAGTATTTGGTAGTGATTCTCTACAGAAATAACTACAGTTAATAATTTGGTGTATTTCTTCCATTCTTTATTTCATA
CATTTGTATTACTACATTTTATTCAGATTTTTTCCTTTTCAATTAATACCATAGTGATCCTTTCCCCATATCATTAATATTTGTTAAAACTATT
TGTTACATAATATCCTTTATAGAAAAGTGTTTTATTTTAACCACATCCTTGTTGGTGAACATTTACATTTCCAAATTTTGGGCATCCTCAGTGG
TGTTGCTATGAACAAATGTCCTTTGGCATAAATTTTTGCATGTCTCTTTTTCCCCAGGATAAATTCCTAGAAGTGAAAATACTGAGTCAAGGGG
TATGAACATTTTTATGATTTCCTCTGTAAATTTCTGTATTGCCCCTCTGCCCCACAGAGTATCATACTAATATGGACGACATAAATGTTGTACT
AATTTACATTTCCTCAAAGATGTCATGGGCATAACCATTTTACCACCCCCTGGCCATTCTTGCATATTATCATTGAAAAAAATTTGCCAATATG
ATAGGTGAAAAATAACACATTATTATTTTAATGTGTGTTTTCTGATTTTGAAGGAATTTGAGGAATTTTTCATATGTTTATTGGTATTTACATT
TTTCTTCTGTGAATTGATTGCTCATTCCTTTGCCTATTTTTCTTTTGGTTGGAGTTCTAACATTTATCCTTAAGCCTTCTTATTTTTAGATATG
TTAACTTTTGTCAGCTATATACATACCAAATACTCTGTCTCACAAAAGGCATTTTCTTAGTTTTTATTGTTATCTGCCTCTGTGTCACATTTCA
CTCTCTTGATTGCTTATTCGGTTTGCTGAAAGTGAAAGAAAAGACATTTTCATGGTGGTGTATTTTTTTAGATGTGTTTCTCCCTCTGATGCCT
TCTTATATGCAGACTCTTCTGTTTGTAGCAAACCGTTGATTATAGATCACCCTTGAAGCTGTATCCTCAATTCAGTTTAACATTTACCAAACAC
TTCTCCGTGGCACACAAAGGTTGGGACTTTTAAGATGAGTAAGACTCGTTGCTCATCAGAGAGGCAGACTTCTAGTCTAATACTAATATTAA
TACTAATATATTAGGGTCTGTGCTGGAGATATGAACAGAATACTTAGAATAGTAGGGAGAACAGCTCATTTTATTTGGTAGGGGAATAACAGAG
ACTACATAGGTAGGAAAAAGAAGAACAATTTCTTTTCTTTTTCTTTTTCTCTTTTTTTTTTTTTTTTTTTTGAGATGGAGTCTTGCTCTGTTGC
CCAGGCTGGAGTGCAGTGACATGATCTCCGTTCACTGCAACCTCCACCTCCTGGGTTCAAGCGATTCTCCTGCCTTAGCCTCCAAGTAGCTGGG
ATTACAGGCATGCAACACCACACCCAGCTAATTTTTGTATTTTTAGTAGAGACAGGGTTTCACCATGTCAGCCAGGCTGGTCTCGAACTCCTGA
CCTCGTGATCTGCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGTATGAGCCACCACGCCCCACCAGGAAGAACAGTTTCAAGGTGACAGG
GATTGGCAGAAGCAGAGGGGGAAGAATGAATCATGTTTGTGGTGTACCTGCTGGAGGAGGGTGATAGAAGCTGAGGATATAAATTGGGACCAAA
CTGATGAACCCTAGAAACCATTCTTAATTCCAAAAGCTAAGGAACTTGGACTTTATTCTGTAGACAGTGGTTTTGAACCTTTTGAGAATGTATG
TAACTATATATAACTGGAGTGTGTGTGTGTGTGTGTGTTATAATATACATGCATTTGTACTGCTAGAAACAGAAGAATCTGCATATTGTATTAT
ATGATATACAGTTATATATAGTTACATACACATATATATATGCACACACATATATACACATACACTTATATACACAGATATATATACACACA
CAGTTATATACACACGCAGATATTATATATTCTAATTTAAATATGTAATCTATATACATCGAGTTTGTAGTACTGTTGTAGGCCATAAGAAGTT
GTTGATTTGGAATAGGGAGCGGTTAGAGGCAGGAAGACCAACAGGTATGCTGTTTTCAAATGAAATGAGTTAGGGCAGTTGCAGTGGAAATACA
GATGAGGGAATGTACTTCAGGGGTTTCAAATAGGGCATAGGGACCAAGATGAACAGGAGATGTGAAAAGGAGAAGAGTTTAAAATGGTCTTGTT
TGTATGGCTGTCATTAAATTAGATAAAGAACACAGCAAGAACATTCACTTTTGAGTGAGAAGGGGAGAGGATGACTTTGGTTTCAAACAAGTTA
AACTTAGTATTACCGGGGTACATCTTAGTGGACATGTTGGTTGACAGTTGGAAATATAGATCTGAAGCTTAGAGAAAAGAGCTAGAGATGTAGA
TTTGAGAGTTATTAGCATTAAGTGATAGGTGAAGCCTGTGTTGGAATGAACGAAATTACCTGGGAGTGGATAAGGAGGGTTTCAGGGAAGAAGA
GACTTGAAGATAGATAAGGCATATCAGGAAGTAGAAAGAAAGATGGGAGAGATTAATGTCAGAGAAGATAAGGAAACCTTTTAATGTCAGCAAC
TAGAGAAAGGTGGAGTCAGATAAGGATTGATAGAGGCTATTGGTAGTTATTAATAACCTTTGAGAGAATGTATAACTTCGGCCATCATACCTTA
AGAAAAATGTTTAGTAATTTTCGTCTCTTTACATGTTATAATCTTAAGGTAATATTTCTTGAAAAGGCCTTTAAGGCCTTTTAAATAGCAGCAT
AAAGTTGAGGTTTATGATTTCCAGAAGTTGCCTTTGTTTTTTGTTTATTTTGAAAGTAAAAATCAACTTTAGGTAAAATAATTTCTAGTAAAAA
TCAGTTGTTTAGGGAGTGGTGTCAGAAAGCTGTAACTGTTGGTGTGATAACTTTTTCTTAAATGTTTATTCTTTCTAAGGGATAAAATTTATAC
ATTTAACAGAAAATTCTTTTTCCTTTTGCATATAGAGTTATTATTAAACACACTACATACCCTTTAAGGTTGGAAGTGGTTGATGGTTTTACTT
ATACATTTTTAACATTTTTCTAGTTCAGTATCATTTTCTTTTGTCATTAACACACAGGTTTTTTTTTTTTTTTAATTTTGAGCTATTGGAAGTTG
AGTTTTCTTAATTATAATTTGGAGCCACTCAATTGTAGATTAAACACTGACACAGCATTTTCTGGAAATGAAATTTGAGCTAGAATTTAGAGAA
TCATCTTTTAAACTTAAGATCTTAGATTCAGTACAAGTTGAGCATAGATAGATTTTAGGGGTTTTTTATTTTTAATTACATGAGTAATGTATGG
ATTTTTTTTTTTGTCATTCATTTATTTCACATTTATTCTCATTGTACCAGGCAAAGAGAGGAAGGAGTCATGCACCAACACACACAGATTGTGCT
GTTTTTCAGTCTTTCTGATAGAATCAGGATCCAGATTCTAACTGTCTTCTAAATCTGGATCAGTCAGTAGAGATGGACCACTGTGGTGGAGGGC
CCGGGGCTGCTGAGAGAAAGGCAGGATACATCTGTAGAACTGACCATGGCAGGTTCATGTTCCAGGGCTCCCATCTGGGTACCTGAGCATTTTC
CATATAGATCACAGGTGTTGGGGCCCACATCGGCTCCTGAAAGTCTCCGGGAATGCCATAGGCGTGGGGCTGGTGCTCGGGAGGTGCAAGGTCA
GCCACATCAGCACAGGGAGGACCTGAGAAGACGCTGATCTTCCATCTGTATCCCAGAATCCTGTGCAGGGCCTCTCCATAAGGACATTGCAAGG
GGTGGCACCTTGGCCTCTGGTTGGCCTCATGAATAGTGAAGTATAAGTCCTGCAAGCTTATCAGCATCTGGAGACATTCCTGCCAGCTCTTCTT
TATACCTCTGTGCTTGAGATGCGGGGCAACTGCTTTTGATACTGTGTGATACTTCTTCACCCCGTACACTTCACGCTCAAGAAATTCCCATTCT
TGCAGGAAACTCTGGACTTCCTGGCTACTCCATGGTTTAATTAACTGGACTGAGGGCTTTTCTGGTCCCTGGACTGCTTTTTTTCTGCTTCATT
TTCAGGATGTTTCTGGTAGTTTCAGTCTGAAGTATCACTTTCTCCATTTTTATTCCTGAGTTTTCTTCTGGGATGATTCTCACTGAGTCTGCAG
GGCCTGTTCCTGGGTTGGCGGAACACTGGCACTTACTCTGCTCTAATGGAACCTAGGAGAGTCAGAAGGAGCCTGAGTGTGGAAATGTGTTTGC
TTCTCTCTGCTTCTTATGTATGGATATTTTTATTTTTGTAAAAAAATTTTAAATTATGGCATAGATAATCCCATTTTTTTTTTTTTGAGACGA
AGACTTGCCCTGTTGTCCAGGCTGGAGTGCGTTGGCATGATCTCGGCTCACTGCAACCTCCGCCTCCTGGTTTTAAGCAATTCTGCCTCAGCCT
CCTGAGTAGCTGGGATTACAAATACCCACCCCCACACCTGGCTAATTTTTATATTTTTAGTAGAGACGAGGTTTCGCCATTTGGCCAGGCTGGT
CTCAAACTCTTATCCACCTGCCTTAGCCTCCCAAAGTGCTGGAATTGCAGGCGTGAGCCACCGTGCCCAGCCTAAATTACTTTTGACCACTGCC
TCCTCCCAGTCCTCTTCCCAGAGGTAATAATTGTTATTAATTCGGGGCATAATTGTTTATATTAGGCATCTTTATATGCTAGGAACTGTTAGTA
CAAAATGAGAGAAAAAGAAAAACTTTAAGCATATATTTTTATTTCCAATGAGGATTCTAATAATATTGAAATTAAAACATAAATGTTTTACCTC
CTATTATGTATTTTTTAGTTATTTTGTTATTCAAGAGCTCAAACAAGTAAACTATGACTATTTTTCTAGAGCTCAAACAAGTAAACTGACTATC
TTAGTAGACTCTGGCAGTTCTCCCCGACCCCTCACTCCACCTTGGTTCAGAACCATATAGAAATGAAAGGATTTTACTAGAATGTCAGAGACCT
GAATACCAGTCATGACTATGTCACTATCTATCTATGTGATCTTCATTGAGTCATTTTCTTAGGCCTGGTTCATCCATAAAATAAGATTGGGTTT
AAAATTGCTAAGGTCTTTTCCAACACTTTGAATTGTAATTTCTGCTGACATTTAGCTTTTAAGCAAAATTTACTGTGTATAAATTGCTTATGGC
TACACTTTGGTGTCTGTTTGCACAGGGACTATATCAGTTATCTACTGCTATGTAAGTACTCCAATACTTACTGGCTTAATACAGCAACCGTACA
TTTACTCATGATCCTATTGTTTGTCAGTTTGAGCTGAACCTAGCTGAGTGGCTCGGCTGGTCTCGCCTGGGGCTGATGTGCAGTTATCTGGGAG
ATTGGGGCTGGCTGGTCTGATTCATATGTCTGATGGTTGGTGCTGACTATTAGCTGGACCTTCCTCACCACATGGTCTCCTGATTGGTTCTAAG
AAGGCAAGCCCTAATGCAAAGGTGTGTCACATTTGCTGATGTCCCATTGGTAAAAGCAAGTCACATAATCCAAGAGTCAGTGCTATAGGAGACC
ACACAATGGTGTAGATAACCAGGAGTTATGGAGGCCATTAATATACCAGTTTACCACAAAGACCAAAATATGTCTATCGAAACCTCGTACACTA

AGGCTTCGAAGTGCTGCCATTGTCTCTAAATTGCTGCTGTTGACTGTTTGCCAGGATTTGTTCAGTCCTCTGGTCCTGTTTCATTTTTCTATAG
ACAGTAATATTTGTCACTGTTTTTGTTTGTTTGTTTTTTTGAGATGGAGTCTTGCTCTGTCGCCCAGGCTGGAGTGCAGTGGCGTGGCATGATT
TCATCTTACTGCAACCTCTGCCTCCTGGGTTCAAGCAATTCTCTTGTCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGCACACTGCCACGCTC
GGCTAATTTTTTGTATTTTAGTAGAGATGGGGTTTCACCGTGTTGCCCAGGCTAGTCTCAAACTCCTGAGCTCAGGCAATCCACCCACCTCAGC
CTCCCAAAGTGCTAGGATTACACGCGTGAGCCACCATGCCCGGCCTGTCACTGTTTTTATCTCCTCTTTTAGCCATTTCTGCTAGTGCTCAAGT
AGGAACAGGACTATCAGGATTTTCCTAATTGGTGAATTGTATCAGGCTGAAATTTCTAAGAATATATTGTATCTAAAAATGGGTCCCAAGGGTA
ACACAGTATTTACTGATGGCAAGAAAATGCTGCTGAAAAATGGTATTAGAAAGCTAAAAATGCTTTTTTTTTTATTTAAAGATCAACAAAGGTGG
TTTCTGTGCCCACAGTTCCTTCATTTCCTTTTGTGTTTCCTTTCTTTGTCTGATTTTAAGGAACTAATACAGCATCTGGTGTGTATATGTTTGG
TTTTAAGCTCTTTCTGTCTGTGAGTTTGTCAGGACAGTGAGGAAATGAAGTACTAACTTTAAATGATTTGTTGGGACGTTTGTTTCTTGTTGAC
TTTTTTTTTTTAAGAGTTGGGGGTCTCACTGTGTTGCCCAGGCTGGACTTGAACTCCTGGGCTCAAGCAGTCCTCCTGTCTCAGCTTCCCAGGT
ACCTGGAACTACAGGCATGCACCACTGCACCCAGATGTGTTTGATTTTTTTTTGAAGTTGGTAACTTCATAGCTAGTGAAATAATGAATTAATTT
TGTTTAAAATAGTAATCAACAACTGGCCACAGTGGCTCATGTCTATAACCCCAGCACTTTGGGAGGCCAAGGCAGTTGGACTGCTTAAGCTCAA
AAGTTCAAGACCAGCCTCGGCAACATGGTGAAAACCCATCTCTACAAAAACTATAAAAAGTAGCCAACTGGGACCAACTGTAAAAATTACTTCT
GGCTACTTGGGAGGCTGAAATGGGAGGATCACCTGAGCCCAGGAGATCGAGGCTGCAGTGAGCTGTAATCATGCCACTACACTCCATCCTGGGC
AGCAGAGCAAGACTCTGTCTCAAAAAAAAAATTAAAAAAAATACATAAATAAAAGAAAATAGTAAACACTAAACTAAAACAATCTTTGGGACTA
TTAGAGGCACAAAAAGGGTTTTTAAGATCATTAAGTTAAAAGTCATTCTAATGCAGAGGAGGCACATCAGATGTAGAGTTTGAGTAATTCACCC
AAGATTACACAGCTAATAAGTAACAGAATTGACACTAGGTTATGGAATTAGTGTTTGTGTTGGAAGGAGCACAAACAGGCATGCCTTGGTTTCA
AAATCTGGCTGCAGCACCTGTTAGCGGCAAGTTTAAAAATATTGTTCAGCTTTCCTCATCTGTAAGATGGTGATTATACCCTCTACCTCCAAGA
TTGTTAGGAAAATTAAACAAGAAAATATATAAGAATGTCTCCTACCTGGTAGAGACTCAGTAAATGCTGGCTTTTCTTTCAGTTCAGTGCTCTT
TCCACTGTGTCGGGCTGCCTACCTTTTACTGTTAATGCCTGCCAGTTTAGTGATTAAACAACAAATCAGAATCGTGAGGCTTTTTTTTTTATTC
TATTTGTGTTTCAGAAACTTGTTCCTTCTTTCCCCATCCTCTCTTCTCCCTCTCCCGTACTTCCTTCTCATTTATCCTTCCACCTTTTTCCTC
CTTCATTCTTTGTCTGTCTTCTCCTCTCCCTCTTCCCTGTTTTATTCCCTTGGGCTGATGATGTATATTTCTTTTTATATGTTATATTGCCTAA
TAAAGTGCTGGACATGTTGTAGGTATCCTGCTACCTATTAACTTCAAATATTTTTCTTAATTTTCCTGTGCCATTCTTATATATCATTTTCTCT
AACTTTGTGGAATCATGTACTCTTTCTTCTCTGTTTCTTCAGGCCAACTGGCCTCATGCAACTAGATCTTTACATATCAGAAACTGACATCTTA
AAAAGGAGCTTAAGAATAAGAGCTGGCAATAAAATTACAGATTATTCTCAGCTCACAAATGACTTGTTTATGCAGCTAGTCAGAGAAGGGTTTC
CCTCTCATAGGACAAGAAACATTCAACTCTTCAGTGACAGTGAATGTCATGATACTCATGATGCAGAATAGGAGGAAGAGGCTGCTTGCTTTAG
AATATATTACCTGTGTGACTAAGAGAGGATTCTCTTTTGGGAAGGCACCTGTGACAGATGAGATGTATTTCCAGTGATCTGAGAGTAGTGAGTC
ATAAATAGGACAGGTAAATTTCTACTCTAGTTTTTAGCAGCATTGTTAGTTAAATAGAGTTTGGTTAGGGAAGCCTGGAAATCAAATCAGCATT
TACAACACAATGCCATTGTGATTGTTGAATGAGGGAATGAATTTGTCAAACCAATAAACTCCTAAATAAACTTTGTAGGCAACCCTCTTTTAGA
ATTTGGGACTTGTTTTAGTGGTGTTTGTATGTATTATATGTATGTACATATGTACATCTATATACATATTCATAAATTGTGTACAAAACTAAAA
ATTATGGAAATTGTAAAGTAGAAATTTCACCAGAAGTCTACTGATTCGTTTCTGGATGGTAAGTAAACTCTCTTAAAATTTTGTGCCAGATATT
ATCTGTCCTTTTTCTGGGGAGAGGACATAAAAGATACACAGTTACAAAGATTCTTAAAGGGAGGGTAATGGTTCTCAAAAGGTAAGAGCTTCAG
CTATAGGATGTATAGATATATTTCTGTATGTACATATATATTTTTTGAGTATCAAACTGTTATGCATTGCCTTAACATTTTATTTATGTCTGGT
GTGGAATCTGTGGTAATTAGGACTACTTGATAGAATTATGGTAATCATTTGTGGTGTGCAATATTGAATACTTTGTCATAATTTTATATCTTAA
GCCATTCCTGGTAATATATGGATTTGCCAGGAATTTGATACAATTCATAGATAAAACATATCCAGAGATTTGGATGATTTGTCTCTTAACCTAA
ATTCTTCCTGCAGTTTAAGGAACATTTGAGTATTCCAGTTAGTACCTGAATTTTATATTTGGCTTTTAATCTGTGTATTTAATACTATAAGAAT
TTCTGTTTTCCCATCATTTTTATCTTAAATTTAACCAAAAAAGAACTAAAATACATTATTTCCCTAGTGTCATTTTCCATGTGATTTGAATGAA
CTATAAATGCTGTATATTCACATAAAGATTTTGATCTTCAATTACATTTTATCCAAAGTATTCAAAAGAAAGTTGGGAAGATACGTATTTGTTA
TCAGGACCAATTTATTTTAAAATTTTATATGTTTTAACTTCATGTATTCATAGACATATAAAGATGAACTTTCAATAGGCCTCCTTCGATTGTA
TTTTTTTAATACAGTTACCACTCGTATTTTTTTAATACAGTTACAAACTCTTTAATAAAATACAGCTGTGTACTTTACTATTTTCTTTAAAATT
AGATGTATCGATTGTCTTTACAGTTTGAATTCCAAGACATGAATGAGAAGCTTATCAAAAACTGTAATGTGGTTACATTCTAAAAATAACAGTT
TTATTGAGATGTAATTCACATACCATTAATTCACCCTTTTAAGGTATACATTATATTTGCTTTTCAGTGGTTCAGAAAAAGAATCATTATATAC
GTTAGAGGGAGAGAAACATTATAAAAGTTAACAGTAGGGGAATGTGAGTAGAAAATATGGAAATTTTTAGTGTACGGTTCTTGTAACTTTTCTC
TGTTTGAAATTATTTCAAAATACATCTTTTTTTCTTTTTTCCAGCACTAATGGCTTGGGTGAATTAAAATATTTTTTAAATTAAAAAAGTGTA
TGGTGTGGTGGGGGCCTTAATATATTCACAGAGTTGTGTAACTGTCACCACTAATTCCAGAGTGAAATTTTAAGCATAGTTTGTGTTTGTTTTC
CTGTTCCTTCCTTTTCACTTGATATACAAAAGTTGACGTATCTTGACAGAAAAATTTCTTTACAATTTTCTTAAAGTTTTCAAATGTTGAACTA
AAAGACCAAGGTATATCATAAGTACAAGGAAATAAAGTAGAATTAGGGCGTATAAAATGAAAATTCTTACTTGACAAAAGAAAGTGAACTGCTT
TTAACTTTATATATCCTTTGTTGAAACTTTTGTGTAGAATCCTGGAATAAATCATTAGTCTTATGCAAAACTGTGTCTACTTCTTAAAACTTGA
ATTGAGGAAGGAAATGCTTTGTACCAAGATGGCAAATATTTTATTATAAGAACATTTCTGTTTCTTCCTCTCATACTACTATGTTCATTGTACT
GTATCTTCCTCTGAGAGGGTTTAAACTCTTTAGAGAACTGCCTTAATTTTTGTATGTATTGGAGCAACATAATCAGTGTTTGCAATGTTTTGAT
AAAAGTAAATTCTTAATAATAAAATTGTTATAATCTCCCATAATTTTCAAGTCAGTTTTCACTGTTGTTAATGATGTATGATATTGTTTTTCCT
TTTCTCTTAATTGGAATTTATAAACTCTTACTAAATGCAGATACATCTGCTCAAAACTTGTCATTTGTTCTTAGGGTCAAAAAATTGGGAAGAT
TAGTTTGCACTACCATTGTACCTTGCTTTTTATAATGAGTGTACTCTGGGTAAAAACATGAATCTGAATAAGTACTAAAAAAATGCAGTTGCCT
GTAATACAACTGAGGTTTTATCTAATCCCCTGATTCAAAATGACCCAGACAAATGTCTGCCAAGGGGCAAGGAGAAATGAGACACTTTTTCATT
CTTTAGAATGTAGAAAAAATGCTTTATAAAAATGGATTTTTATGTCAATAGGTACAAATCATTTTAAAATATTTTCTATAAAGTATTATATAAA
ACAGTGCTAATGAGTCTTAGGATTATACGAAGCATGTTTTCTTATATTGTTTTACTTATTTTCTGTAGGAAAAGTAGCCATCAAAAAAGAAGAC
TTGTGTAATCACAGTGGCAAAGAAACTTGGTTTTCATTACAGCCTGTTGACTCCAATTCAGAGGTTCAGGTAAATATTAAGGCTTATGTAATAC
AAGAGATTGTCACAGGAAATGAGTAAAAAATGAACTAATTAAACTGGTTCATGTAAATAGAGCATATTATACCTTATTTTAAATTCTAGCATCA
AATATTATAGACTTTTGGGTAATATAGGACAGGAAGGTAATGGCTTTGTCATATTGTTTCAAGAATAATGCTCATGTATATGCATATGTGTAGA
TTTGTGGAGATTAGGGCATTTCTTTCTTACCTTCTGTTTGAGTCACAATAGCAAATTATTTGTCTTTGAGGGAAAAGTTTTAAGGGAAAA
TATGTGTTTTATTAACTCTGACTTTGGGGGAGAATCCCTGGAAGTCTGATTTTGTCTGTCTTGATTCTCTGTTTACTCTCTAGTAAACTGGACT
TGGGGAAATGTTATTCATTTAAACCCTGCCTGAGCCCACTGTGCACAGCCTTCACTCCCACACCCACCCTTTCCTGTTGTTCACCTCGCTTTTT
ATTTGAAAGAGTATCATTACTCTTTAATCTTTTTCTTTTTTCCAAAATAAGAAGACCTTTTTCAGATTCTGAGTAAAGATGTGTGTTTAGCCATG
TAGCTGAAGTTTCTATTTGTTTTTAGAAAATCTGAGTTGCTCTTAGAAATTATTTTTCTAACTAAAGGGAATCTTTTTGCTGTAGCCTTATTTA
TTTATAAAATATGGTAAGGATTGTGAAACCATTTCCCGAGGGCATAATTGCAAGCAGGATTCTTCCTCTCTAAAAGAAGTTTTAATTTGCCACT
GTGACTCAGAAGTTTAAGACAAGAAAAAAGTGCTACACCCACACCACAGATAATTTGCAAATAAGTGCCTGTGTCTCCATTTCCTCATAATCTC
TCAAGCATTCTCTTTGATTAATTATTAAATTCTCAAAAAATTAAGTACTTATGCACTAACCCCCCTTCTTAACTGCAAAATTTAACATACTTTT
CCTGTTTAACCTACTTTGCCATGTTTTAATATTCTTGTCTTTCCTTATGACCATAGCTATTATTCAGATCCCAGTTGTACAGTATTGTAAATGA
TCCATGTGAGAAGCAATGTGAAGAAGTGGAAAGTGTTTAAATTAAAAGGCAGAAAACTTAGGTCCTAGTTTTTATATGTAGTTACTTAAATGAC
ATTGAATTTCATTTCTATAAAGTGGGAATAAAAGTTGCTGTGTTCGATTCATATGGTTGTGAGAATTAAGTGAAATATCTGTAAGAATAGTTTA
AAAGCTGTTAATGCTATACAGATGTAAAATATTGTCTGTTTACCACCAGTCAGTCTGGTGGCTATTTCCCTAATATTCCTTTACCAAAAGGCAG
ATATGAAAGTTTTAAAGTACCAGTTTTTCTTTTAATAGTTTTAAGAAAAGGCATGATAGGAAAAGGCTTTGAAAATTTAAACTGAAATTTTATG
AACCATTACATTTTATAAAACTCATAAATTTTGTGAATTTTATGTAAATTTGCTAAACAATTTAAGAGTTCCAGCTCTCAAAAGGTAAAAATCT

ATATAGAATATAGAATTCTTGTAGATGGTACTAAAGATTAATACAGAGACACAAGACTTTATTTGATGGTGTGTGTGTGTATATATATGTGTGT
GTATATATATATGCATATGTGTATATATGCATATGTGTGTATATATATGCATATATATGTATATATATACACACACATTACATACACATGGGTA
TGCATATTTATAGATATACATATATATGCATATATGCATGTATATATACACATTTGAGAGATATATATCTCATCTATGAAACATGAAAATTGGG
GAAGCAACAGTTACCCAGATATAATATAGTCATTTAAAAATTTTGTACAAGTTATTTTCATGACTGTGAGTTATTAAACTTTACAACTCTTTTG
TCTTAAATGATACTTACTTAATAAGATTTGCTCACTATTTAAAACAGATTTTAGAAGGAAAAGTACTTTGTGGGGTGGAAGAGACATATAACAC
TTTTGGGTTAATATGGTACCATTGAAAATGTTGTTGTCCCACTGCTGATAAGGGAATACTAAATTATGAGTCTAGAAAAGATAGAAAATCATCC
CATGGTTCATACAAATCCTACTTTGTTAATAAATTTGTTCACTTCCATAAACTTTATAAAATTTTACAAAAATACCATGAAACATAAGAGCAAT
TAATAGGGAAATAGGTGAAAGCTATGAAACAGATTGCGTTCAACAGGAACTCAGTCTGATAATTACTATTAGTAATTATACCAGTGTATCCTAA
GCACAGTACTAAGTACTTAATGTCATTTAACTTTCAAAGTAGCATTATGAGGTAAATAGCATCACCTGCATTTTACAAATAAGGCAAATGAAAT
TCAGAGGTTAAATGTCTTCTCCAGAGTCACAGAACTACTAAGTAGTGGAGCCTTGATTCCAAAAGAGATCTGTCTGATTCTAAAACTCCTAACC
ACAGTGCCTTTACTACCTTTCACCATTCTGTACTATTAGTCATTAAAAAAAATAGATTAGGAGTATCACTTAAGTAACATCTGAGTGTAAGGAA
GAGAAGCCTGCTCAGATTTGCTCAAAGAAAATGGGAGAGGCCATTGGAAAGCTCCTAAAGAGTTTCTTGGAATGTCATCATAGGAACTTTACAT
TGCCAGTGTGAGCTAGAAAGTTGTCAGGCATTTGCAGAGGAGATGCATCTTAAGTGGAGGCTAGATTCTTAGAACAACAGACATTAAAATTTGC
CTAAGTTCATCTGTAAAATGAGTATACAAAATGAAAAGTTAAAAATTTTTGCGTAAGTTACAATTATTTTTGAAAAGAGTTTAGTTTCTTATAA
AATACACTAAGGTATTTGGGTGGTTTGTTTGTTTTTGGTTGACTACCGCATAAAATAATTGGCTTGCATTCTGGGCCATGGTAAATGAAAACTA
TATACTGTATCTTTAAACTGTAGACCTCCCCCCTGCCCTGACTCAGTACAGCAATAGATACTGCAAGTGGCACATGGAAACTGAGACCCACTAA
TCATTTCTTATATTCCTATGTTCACTGTGCTTATTGAGCATAAGTTCTCACTGTTTAAATATTGTTTTTTTTCTTTCCCTTTCATGAAGTGAAT
AATGTTTTCTCTCAGTCTTTCCCTCTCATTTTAATAACTATTTGCTTTGCAAAATATAAAGGAAAGAAAAAAACACCATTTTGAGATGCCATTG
TATTCTTTTTGTATGTATGATGAGACATGTCTCTTCCTCTGCTTCTCTGTAAATCTACTCCAGTCTCTTTTTGAGACCTAAAAGACGCCACACC
AATTTTTGAGTCCATGTGACCATACAGCTTCCTCACCTCCAACATCTGACTCAGTTTTCTGCCACAATCTAGAGAGAAAGTTTGGCTAAACTTG
GGTCAGATGTCTACTTCAATCTAATTTGATATGGTTGGAGGAAAATTCACTGTAAGGCAGTCCACTTTAGGGCTTTGAGTAGGCATGTTCCCTA
AGGAAGGGGTTTGAGTAGAGGAAATGAATGGCATTGCTACCTCAGAGGGAGAGATGCTTGTTTCCTAGTTCTACCACTAATTAGCATTTGTGCC
CCAAATAATCGCAAGCCTGTTACCTGAGGATCTTCATCTATGAAATGATAATGTCAGCGCAAAGGGTTCCCTTAGTTGTGAAGTTCTAGGGAAA
TAACATGCAGAAATGTAATTTAGCTTTCCAGTGGAAGGATCCCAGTAGTATTAAGATGGGCTTTATGCCAAAACAGTTGAAAAATTGTTTAGAA
CTATAACCTCTTACCTTGAATTGTCTCCCAGAGATAATTTTTTATTATTGCTGATACTGTTATACTTGTCAATAATGTTAATAGTTCTTTTCAG
TTTCATCTTCAGTAGTTCAAAATATTGTTAGTAACATTTCATGAGTGTATTTTTCTACTTTTTTTTTGTATTTAGATTTTGGCTTGATTCTACC
TTTTGTAATTTTTCCTTCTGGGCTGAACCATTTTTTTCCTCAACCTATTCTAATCTGCTTTCAGACTCTGCAGTGGGTCAGAGAGAGAGCAGAA
ATGGTTCTTTTTACCAATGACATTGTGTCAATAAGTCTAGTGGACATTTTTCAGTCCTCATCTTACTTGATCTTTGAGCAGCTTTTGATACTGG
TGACCACTCCCTCCATTTTGAAGCATTCTTTTCCTTAGTTTCTGATCCTGTTTATGGTCCTAGTTATCATCTATTTCATTTGGTATTCTTTCTC
AATATTCTTTGCCACATATGTGAAGTTAATATGGGTTGTGCTGGTGCCTTCTATAAATCCTCTTTTGGCTTCAGTGAACTACAGCCGTGCTATT
AGTTATTAGGTCCTGTAACTCACCAGGAACATTAGGTATTTATCCTTTCTTTATTTCTTAGGCACAGTGATAAAAAGCATACTTTACATATGGT
TGATTAACCAGGCCGGGTATGGTGGCCCACTGTAGTCCCAGCACTTTGAAAGGTTGAGGCAGACAGATTGCTTGAGCCCAGAAGTTTGAGACCA
GCTTGGGCAACATAGCAAGACCCCATCTTTATAGGGGGGGGAAAAAGAGTGATTAAACCAAATCTCCCATATGGAGAATTTGCTGCTCTCATTA
ATTAAGGAGTTTGTCTCACACAACTTGTCCAAGCAGTAAATCCAGATGTGCTATCAACCATGTCCTATATGATGCAATTACTTAGTTAATAGGT
CTTTACCAACAAGCATATCTTGAATTTCTGGATCATGCCATAAGTTATTGATTGTTTTATAGGTGTTTTTTTTTTAAAGACCTCTGCCTTACCT
GTTTAAAAAGACATTTAAAAAGAAATGCAATGATTATAGCTAATAATAAATACATGAGGATTTTAAAACATGCCCTATTCAAGACATAACAAA
TGTAAAAACATAATTCATTATTGCAGGTTGATTTTTTTTAACTTCATTTTAAATTTTTATGTGAATTAATAATGAGCCATTCTAGATCATATTA
AATACTTCTTTAAGGAGAAAACAACACCTTCATAAAGAACTGCCATTAATATAAGAGATATTAAATAAAATTTGTATTTTGCTTTTTCATCTGA
TGGGCGATTGTGTCCAAAATCATTTATAGAGGTAATTTCTACGTATTAAAACATCCATCAGAAACTCCGAAGTTGGGATATTTTTCACCTCATG
TACAGGCATACCTTCTTTCATTGTACTTCACTGTGTCGTGCTTCACAGATACTGCATTTTTTACAAATTGCAGGTTTGTGACAACCCTGTGTCA
AGCAAATCTATCTGCCTCATTTTTCCGACATCATATGCTCACCTCATTTCTCTATGACAGCCTTTTTTTAGCAATAACATATTTTTAAATTAAAA
TATGTATATTGTTATTTAAGACATATTGCACACTTAATAGACTGCAATATAGTATAAATGTAACTTATATACACTAGAAAACCAAAAAATTTTT
GTGACTTTCTGTTTAGATATTTGCTTTATTGAAGTGGTCTGGACCCTTAGACAGTATTTCCAAGGTATGCCTGTAAAAACATTTTTTACCAGTT
GAAACATACTGAGTTATTTTATATGGAAATGGTTGTTAAAATTTAGTGTTTTGTGATAAAAACAAAATAAAGTTTAGACTTGAGAGGATTTTAA
GTGCATGTATTATGTTTTGCTCAAATACCTCTATATTAGTCCATTTTTGTGTTGCTATAAAGGAACATCTAAGGCTGAGTAATTTATAAAGGAA
AGAGGTTTATTTTGGCTTACAGTTCTTCTGCAGGCTGTACAGGAAGTATGGTGCTGGCATCTGCTTCTGGTGAGTGCTTCAGGAAGCTTACAAT
CATGGTGGAAGGTAAACGGGGAGCAGGCATATTACATGATGAGAGAGGGAGCAAGAGACAGAAGGCAGAAGTCCCAGACTCTTAAACAACTAGA
TCTCACATGAACTAACTAAGCAAGACGCACTTATCACCAAGGGGGTGGCACTCAGCCATTCATGAGGGATCTACCCCCATGATCTGACACCTCC
CACTAGGCCCCACCTCCAACACTGGGGATCACATTTCATCATGAGATTTGGAGGGACAAACATTCAAGCCATATCAACCTCTGTTCATCTTATT
TTCCCAAACTGTATGCAGAAATTTACACAGTATCTTCTATATGGTACCAAGAATGTATGTAATACACAATTGAAATAATCACAGATATTTTTGT
GTGAAATTTTTGTAAAATTAATTGAAATAAAGTTAGCGTATAAAATACTAAATCTTCAAATAGTACCTGTATTAGCCCATTTTCACGCTGCTGA
TAAAGACATATCCAAGACTGGAAAGAAAAAGAGGTTTAATTGGACTTATAGTTCCACATGACTGGGGAGGCGTCAGAATCATGGCAGGAGGTGA
AAGGCACTTCTTACATGGCAGTGGCAAAAGAAAATGAGAGAGAAGCAAAAGCGGAAACCCCTGATAAACCCATCAGATCTTGTGAGACTTATTC
ACTATTACGAGAATAGCACAGGAAAGACTGGCCCCCATGATTCAATGACCTCCCCCCGGGTTCCTCCCACAACACATGGGAATTCTGGGAGATA
CAATTCAAGTTGACATTTGGTGGGGACACAGCCAAACCATATCAGTACGAGAGTAGTGTAAGTTCCTCAGAATGCCCCTTAATATAAGATAATG
TGATATTATAACTGCATGTATCAGCCTAACATAGTCAGTGCTATGGAAGTCATATAGAGCAATACCTTCCAAGAATTTGGTTTATTTTTTATTA
AAGACGTATAATACAGTGCAAGGTATCTGATCTTCCAACATTTTCTGACATACATGAAAAGTATACTGTCATTGAGCTTCCTTTAGGAGATTGA
ATAATAAGAATGCAGTTGTAGACCAAATCACATTACATGTTTATTATCAAACATAGTACCTTGTTAGATTCTTTTTTTTTTTTTTTTTTGAGAT
GGAGTTCTGCTGGAGTGCAATGGTGTGATCTCAGTTCACCACAACCTCTGCCTCCTGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCGAATAG
CTGGGATTACAGGCATGCGCTGCCACACCCGGCTAATTTTGTATTTTTAGTAGAGACGGGGTTTCTCCGTGTTGGTCAGGCTGGTCTCAAACTG
CTGACCTCAGGTGATCTGCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCGCCCAGCCTCCTTGTTGGATTCTTAATG
TTACTTCTTCGTAGGTTCTTTATTTTTCTTATTTGTCCCTAGGAGTTCTTGAATCTGTGGCTTGTCTTCTATCAGTTTTGGAAAATTCCAGGCA
ATTATCTTATCTCCTTTTTTTTCTGCCCTGTTCTTTTTTTCTCTTCTCTGCTGTGACTCCAGTTACATGAATAATAGGCCATTTCACCATGTC
TCATATGTCTCCTATGCTTTTTCCCTCTCTGTGCTTCATTGTGGATATTTTCTACTGACCTGTCTCCCATTTCACCAGTCCTCTTTTCAGCTGT
GGCTACTCTGCTACTAAATACATTTTCATTTTGGTTTATTGCTTAGTTCTAACTTTTTTATTTCATTCATTTTATAGTTTCCAGGTATCTGCTG
GATTTTTCATTTTGTTTTATGTCTTTTAAAAAATAGCTATTTTAGGCTGGATGCAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAA
GGCGGGAAAATTACTTGAGGTCAGAAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCGTCTCTACTAAAAATACAAAAATTAGCCGGGCG
TGGTGGCACATGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCAGAGGTTGCAGTGAGCTGAGATCA
CGCCACTGCACTCTGGCCTGCGTGACAGAGCTAGACTCTGTCTCAAAGAAAAAAAAAGCAATTTTAAATTCTGTCAATTCCAATATCTGCGTCT
CTTGTAAGTCCACTGCTTTCCTCATTTTTTCTCTTGGTTTTTGATCTTCTGGCATATTCTGTAATTTTTAATGGAATGCTGGAGAATAAAATAT
AAAATATATTGGAGATAATTTGAGGGCCTGAATGGTATATTTCCTCTAGAGAAGAAGTATGATTCCCTGCCAGCAACTGCTGTTTCTATCTTGT
TGGCCAGAACTACATCATATGGCTATCCCTGATCTCAAGGGAGGCTACAGAATGTCAGTTTGCTGGGCTCATAACTGCCCCATCAAAAAACAAA
ACACACACACACACACACACACACACACACAAACTTGTTTTGCTGCAATTCAAATCTATTAAATGATTACAGATATAAGTAAAACTGAACTTTT

GTGTGAAAAGAGACTAAAAAGTATTCTAAAATGTTCACTGATTTGAGTTTCTAAAACTGAAAAGCAGTTTTAAATAATTTAAAACTTTATTTTT
CTTTACTAAGAACAACACAGTAGTAGTAAAAACTTTGAAAATTAAATTGGTAGTATATACTTTTAAAATCTGAAAATTAAATTGGTAGTATGAA
CTTTTAAAATCTAGAGCAAAAAAGCAAAGAAAATCTTCTGAAATTTCACCAACCAAAGGTGTCTTCTATCAACATTTTGGTAGATGATCTTGTA
ATTTTATACATATATGTTTTTTATTTTTATAAGTTAACATTATAGTATGTACCCTATTTTGTGATTTATTTCTTTTGCTAAGGATAGTATGTAT
TTCCTTGTTAAAGTATATAATGAGTTAGTGTTTTACAGTTTAGAAATTATAATTTCCTTAATTTAACTCATAATGCCTTTTAATTTAGTGTTCC
ACCCTAACAGTATGTGTTTTGTGTCTGCCTGTTCTGTCCTCACACTTTTCTTGACCTGGTTAATATATAATTGTGTTATTGTTGATTAATACCT
AAGGAATGTTTTATTTACCAGTCAGTGGGAGTAATGAACATATTAGGTAGGCTCTGACTCAATAATAATGATTTCTGGCAGAATCTCATTAAAT
ATCCTTTTGACTTGCTATAATACTATGATTTTAGTTGTAAACAAAATGATTATCTTTTTCTACTCTATTGTCATAGTTTTTATTTCTTAGAACT
GGAATAGATCCCAGACATTTCCTGAGAGACAGTTGTGTTAGCATACGATTTCTGTAATAAAATGTATATATGTTAAAATTGTAAAACTGCAAAT
TTTTGTGCCGTTGGCTTGGCTCCCTTGCTAGCCAAGTAATACATACATGCTGTCACAACAGAAAATATGATTTCAAAATTCTAGTTGAGTAATA
TTACAAATTACAGATCATGGACCTTCAAGATCACCCTTGAATAGTAGAGATTGTAAATACTAAATGCAGGAATAATGAAAGACCTAGTTTACAA
ATTATATATGATTTTATGAATATTTGTGCCTAGATTTTTAGTGGAAGATTTGCTTAATTTAGTTCCAGCTCCACGTAACTGCTATTAATTTTTC
TACCACAGATGTGTTTGCTCCTTTAGACCTTAGCTTTCTCAGGCAGACTTCTGTTTTAAGATCCATCAGTATTTTTTGCTCATCTCTTACTATT
CATCTAACCCTGAGCTTTGTACCTGGTGGACCTCAGATTCATTCTTGTATAAGTCCCCTTAAAATAGTGAGGGTGTTTCAGGTTAGGTTTCTGT
GAAAGAATTTTTGAAAAGGGTTGTTCTAAAGAGGAACAGTGACTAGATAATGAACTTTCCTACCTCTAATGAAATCACTCACGTCATCAGTCCC
TAGACATCACTCCCCTGAAATCTCCACATGGCAATGTGAGAATTTGTCTTGTCAGCTGGAGGGAGGTAATCCAGTACTGTTTCTTAACCAGTTT
AGAATTGTTAGCGCAGAATTGCTCATCACCAGCGGCAGGTTAGAAATATCAAGCTCTAGATTATATTGTTCCTAAGCCTTTATTTCTTGAGAAG
TTGATTGTTTGAATTCTTTTGAACTTACACTACTTAATTTTTAAAAATTCGTCTATTAATATCTCTTTAAGAAAGTACTCCTTTATTTCAGTG
TCCCATCTTTCCATCAAGACTCTTGGCCATATGTTATCTTTTGTTTATTGTCTTCCCAACTAGATTGTACGCTGCTTGTAAGCAGTGACTTACA
TCTTTAACATCTATGGATTCCTACCCACTCCCACAGTGCCTTCTGAAACATAGTAGACATTCCATAAATCTTTATTGTTTGATCAAAGTAAGTA
GTGACAAATTGAGTTTTATTGGCTGTAACTTAGTTTTTAGTTGTTTTAGAATTGTATGATTTCTCTGTCTTTTAATGAGACTGCTTCTGTCCTT
AATGCTGGTTTATCTTCTGGAAAAAGCATCCTACATTTTATAATTTGGTTTTATCTCAAAATTTCCTTAAATTTAGGTATTGTCTTTCCTTTTA
GTCTGTGATAATTAGATATATAAATATTTATTGAATTGGACATAAAATTCTTAAATTTGAATACCATGTTTGACATAAGTATTTGTTTCATATC
TTTCAGAACTTTGATCTCTGGTTTTGGTTATTATTCATTTAACAAGTACTTAGTGTAGGCAAAGCCATGTGCTAGTGGTCAGTGGATAAATACT
GTGGTGATTTGAAAAGGCACATACCTTTAATATTTTGTCAGTAAAATAGACTACTCAGTTTGTAATCTTTTTGTCATTATAGGGTAAAGTTCAC
CTTGAATTAAAACTGAATGAACTGATAACGGAGAATGGAACTGTATGCCAGCAGCTTGTTGTACAGTAAGCATTTTTTTTAACCAAAATCAACT
AGAAATAATTCTCCATTTTGTATTCTTTCGATTTTAAGCCAACTCCTTGTTTTAACTTCAGAAACTTTTTTCAAAAATGAAATTCTGCTATGTC
ATTCCTTTTGTGAAGTTGATTTTCAATTTAATTTTCTCATAGTCTACTCAGGTTATGGTGAGTCATTAATTTATTCAACTAATATTTATTGAAT
ATGGGTTAAATGATATATATGGGCATTAAGGATAAGGGTGTCTAACTCTCTGGCAGTGGAGAATTGGAAAGGCTTCCCAAAGAAGGTCCTCTAG
AAATTGTCATACCACAGAGCAGAGCTTTAGAGACTTTGGAGCTAGAACTAATGCCCACTCAGAGATGACCAGTATTGATTCCCACCTACTTTGA
ATTCCTTTTTACCTCTTCCACCCTCAAGTCATTTTTTACCACCCAGACTCTAATCTCCTGGCTGTTCTGGAAATCTGTTGTAGCCCAATCCCCT
ACTCTTTTCCTCCCCTCCAAACCCTTACTCTGTGATATCAATAGACTGCCAGATAACCTTCACTTCTTCTGGGTGTTTTCCTCTATTTTTGCAT
TAGTTGACATCTGAATATCCCACAAAGTACAGCAGTTTCACAGCCTTCTCAGTTAGAGGCTTTGTTTTTTCTATCATGTCCACATATTGTAAGGT
CAGGGAGTAGAGTAGATATTACTCTCCTATTGCTGCTCCAGACTGTAACTTATTCTCATCAATTGTGAACCCCAGCTCCTTTGAGGTATTCTAT
CTGTATATAAATATGTCTGTTTGCTACTATATATAATATTTATTCATTAATTTTTTCTGACCTCTTTGAAAGAAGATTGCATATGTATGACTC
TTAATATATCAGTATGTATTTCCTAAGAATAAGGAATATTATCTTAAATAACTCCAGTACAGTTACCAAATTCAGGAAGTTTAACATTGTTACA
ATACTTTTTAAAAATCTATAGTTATTTTCTAATATTTTAATCTGCAGTTATTATATTCCACTTTTGTTAACTGTCCCAATGATGTCTATTAAGG
CGTTTTTTTCCTTCTAAGAAAGGATCTGCTCCAAGATTATGTTTTATGTTTAGTTGACATGTCTCTTTAATCTCCTTTAACATGGAATAGTTTT
TTGCTTTTCTTTGATTGTATTAACATTTTTTAAGAATATAAACCAGTTTTTTTTTTTTTAATGTTTCTCAATTTGGATTTACCTACTAAAAATA
GTTCAAGATCTGTTTGCAGCTTTTTCTCCACAGACTGACTCTGTAGACCAACTGAGAGCATATGGTGAAAGTATCTGGATTAGGTCTTCCACTC
CTCCCTCCCCTGCTTCAGTTTAATTATAATAGTCATTTGAAATATAGTTAGTTTGGTTGGTTTGGTTTGTTTGCATTCAATTTAAGGGTTTTTT
TGTGCCCCTTCCCCCCAATTTAAGTTTTTTCCCCCATCCTTCTAGGCTTAATTTTATTTTTGAATAGAATATTTGCATGATTTCAAAAATCAAA
ACTATAACAAAAGGCGTTACTCAGAGATGTGTGTAGTTCAGTTCCCTCTCCCCACACCCAGCTCCAAGCAACCATGATCTGATTTCTGTCCCTA
CAGTTTTTGCCTTTTCCAAAGTGTTATTTGAACAAAAGTATATGATATGTCTTTTTTTGTGTCTGCTGTCTTTCACTTAGCATAATGCTTTTGAG
ATTCATCCACACTGTACGTATATCATTTCCTTTTTGGTGTGTTATTTGTTTCTTGCCATAATTTGGTAGATACTGTTATCCTCATTTTGCAGAT
GACAAAACTGATGCCCATATTGGTTAAATAAGCCTAATTTCACACAGGAAGTGTTGGAGGCTGGCAGTTTGATTTTTTTCCCCCAACTTTAAAA
TTTTGAAATAATTACAGATTTACAGAAAGTTGTAAGGATAGTACAGAGAGGTCCTGTGTACCCTTCATTCTTTTTCCCTCAGTGGGTACATCTT
GCATGACTATAGCACAATACCAAAACCAGGAAATTTACATTGGCATAATGTATGTATATAGTTATAGATCATTTTATCATGTGTGTTGATTTGT
GTAACTACCACCACCAAGATACGAAACTCTTCTGTCACCATAAAGATATCTCTCATCCCATAGCTTTATAGTCATAACCACTCCTCTCTTCTAA
CCCTTGGCAACCTCTAATCTGTCTTTATATCTATAATTTTGTCATTTCAAGAATGTTATGTGAATGGAATCTTATAATATGTGACCTTTTGAGA
TTGGCTTTTTTTTACTCAGATCTATCTGAATGACTGTGTGTAGTTTTTTGTAGACAGAATATAGTTGGGTCACTTTTTTAAAAAAATCATTTTTG
CCAATCTCTGTCTTTTTTTGGTGAGTTTTTTCCATTTATTTTTAATGTAATTATTGAATATTAGGCTTAAATATGCCATTTTTTGTTTGTTTTC
TGTTTGTCTCCTATTTTATAGTTTTCTGTTTTCTTTTTCCTGTGGGTTACTTGAACACTTTTTAGAATTCCATTTTGATTTATTTATATTGTGT
TTTTAAAAAATCTATGGTCTCTTTGTATAGATTTTTTTTTAGTGGTTGCTCTAGGTATTACATTATACATGCATAACTAATCATAATGTACTGA
TGTCAACATTTTACCAATTAGAATAAAATGTATGTACTTTACCTTTCTTTAAATCCCTTTACCCTCCCCCATTTGTAATATACTTTGTCTTAAA
TATTTTGTCTACATATATTGAGAACCACATCAAACAATGTTATAATTTTTGCTTCAGCCATCTAACACAGTTGAAAAGAGTTAGAGGAAAAGGA
AAGTGTAAGTCTGTTGTCTCTACCCACATTTTTGCCCTTTCCATGTTATTTTTTTCCTTTCTGATGTTTCACGATTCCTTCTGTGATTAAGTGT
ATAGAGTTTCCTCTTAACATTCTTTTAGAGTAAGTCTCTTGGTGATACATTCTCTTGGTTTTCCTTCATCTCAGAAGGTCTTGATTTCCTCTTC
ATTTGTAAAAGATAATTATACTAGATATAGAATTCTGAGTGGACAGTTCTTTTCTTTCCACATTTGAAAATGTACCACTTCCTTGTGTCCTCGA
TGGTTTCTGATGTGAAGTTCATTGTCATTCAAATTGTTTTTCCCTATAGGTAACACACCGTTTTTCTCTGGCTTCTTTTAAGGTTGTTCTTTGC
CTTTAGATTTCTTTTCTTTTTTTCTTTCTTTCTTTCTTTTTTCTTTTTTTTTTTTTTTTTTGATATGGAGTCTAGTTCTGTCACTCAGGCTGGAGT
GCATTGGTGTGATCTCAGCTCACTGCAACCTCTGCCTCCCGGATTCAAGCGATTTTCATGCCTCAGCCTCCTAAGTAGCTGGAATTACAGGCAT
GCACCACCATGCCCAGCTAATTTTTACATTTTTAGTAGAAACAGGGTTTCGCCATATTGGCCAGGCTGCTCTCGAACTCCTGGCCTGAAGTGAT
CCTTCTGCCTTGGCCTCCCAAAGTCCTGGGGTTATAGGTGTAAGCCACCACGCCCAGCCTGCCTTTAGATTTCTATATGTTTTAGCTTGATTGT
GATGTATCCTGGAATAGATTTATTTAATTTATCCTGTTTGGGGTTCGCTCAGCTTCTTGACTATGTATATTTATGTCTTTTGCCAGATTTGGGG
AATTTTCAACCATTATTTCTTCTATTAATTCTTTATCACCTCTGCTATCTTTCTCTTCTTCTTTCAGAACGCCAGTGGCACAAATGTTAGGTCT
TTTTTTTACAGTCCCAGAGGTCCCCCTGAGGCTTTGTCCTTTGCTTTTCCCCCCAGTCTATTTTCCCCTCTGTTGTTCAAATTGGGTGATTTCTA
TTGTTATGTCTTCAAGTTCACTGATTCTTTCCTCTGTCTTCTTCATTCTTCTGTTTAGCTTATCTGTTGAGTTTTTTATTTTGGTTATTTATAT
TTTTAAGTTCTAAAATTTATATTTGATTCTTCTTTATAACTTTTTTCCTTTGGTGAGAGTTTCTTTTGCAGAGACTTTCTTGTTTTTTTGTTTC
AAACATATTCATAATTGTTCATTGCATTATTCACAATAGCAAAGACATGGAATCAACTTAAATGGCCATCAATCGCAGACTGGATAAAGAAAAT
GCAGTACATACATGCCATGGAATACTAGCCGTAAAAAAGAAAGAGATCATATCCTTTGCAGGAACATAGGCGGAGCTGAAGGCCATTATCCTTA
GCAGACTAACGCAGAAACAGAAAATGAAACCAAATACTGCACGTGCTCACTTATAGTGGGAGCTAAATGATGAGAATGCATGGACACATAGAGA
AGAACAACAGACGTTAGGGCCTACCAGAGGGTGGAGAGTAGGAGGAGGGAGAGGATCAGGAACAATAACTAATGGGTGCTAGCCTTAATACCTA

AGTGACAAAATAATCTGTACAACAAACCCTTGTGACACAAGTTTGCCTATATAACAGACCTGCACATGTACCCCTGAACTTAAGTTAAAAAAAA
ATTGCTCATTGAATTATTTTTATGATGGCTGCTTTCAGATCCATGTCACATAATCATAACAATCATGTCATCTTGGTGTTAGTGTCTTGTGTTA
GTCCATTCTCACATTGCTATAAAGAAATACCTGAGACTGGGTAATTTATAAAGAAGTTTAATTCACTCATGGTTCTGCAGGCTGTACAGGAAGC
ATGGCAGCATCTGCTTCTGGGGAGGCCTCAGGAAGCTTCCAATCATAACAAACACCAAGCGGGAGCAGGTGTCCTACATGGCAGGAGCAGGAAC
AGGAGAGAGAGTGGGGAGGTACTACATACTTTTTTTTTTTTTTTTTTTTGAGATGGAGTCTCACTCTGTCGACCAGGCTGGGGTGCAGTGAC
ATGACCTCCACCTCCTGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCGAGTAGCTGGGATTACAGGTGTGCACCACCAGACCTGGCTAATTTTT
GTATTTTTAGTAGAGTTGGGGTTTCATCATGTTGGTCAGGCTGGTCTCGAACTCTTGACCTCGTGATGTGCCCACCTCAGCCTCCCAAAGTGCT
GGGATTACAGGCATGAGCCACCAAGCCTGGCCCTCTTTTAGTTATTTTTAAATGTATAATAAATTATTGTTGTCTGTAGTCACCTTCTTATGCT
GTTAAATACGAGATCTTATCCATTATATCTAACTATATTTTTGTACCCTCACTTCCCGTCCCAGCCCCTGGAAAACTTTGTTCTACTCTCTGTT
ATCATGAGTTCAATTGTTTGAGTTTTTAGCTCCCACAAGTGAGACCATACGAGGTTTGTCTTTCTGTGCCTGGTTTATTTCACTTAACGTAATG
ATCTCCAGTTCCATCCCTGTTATTTTGAATGACAGGACCTGATTCTTTTTTTGTGACTGAAAAGTACTCCATTATGTATATATACCACATTTTCT
TTATCAGTTCGCCTGTTGATGGACACTTAGATTGCTTCCAATTCTTGACTATTGTGAATAGTGCCACAGTAACCATGAGAGCGCAGATACCTCT
TCAATATACTGATTCCCTTTCTTTAGTGGGATTGCTGGATCATGTGGTAGCTCTATTTTTAGTTTTTTGAGGAACCTCCAAACTGTTCTCCATA
GTGGTTTTATTAATTTACATTGCCACCAGCAGTGTACAAGGGTTCCCTTTTCTCCATATCCTCACCAATATTTGTTACGCATGTCTTTTGGATA
AAAGCCATTTTAACTGGAGAAAAATTATAATTTCATTGTAGTTTTGATTTACACTTCTCTGATGATCAGTGATGTTGAGCACCTTTTCATAAAT
TTGTTTGCCATTTGTATGTCTTCTTTTGAGAAATATTTATTCAGATCTTTTGCTCATTTTTAAATCAGATTATTATATTCTTTTCCCGTAGAGT
TGTTTGACCTCCTTACATATTCTGGTTATTAATCCGTTCTCAGATGGTTAGTTAGCAAATATTCTCCCATTCTGTGGGTTGTCTCTTCACTTTG
TTGATCCTTCCTTTGTTGTGTAGAAGCTTTTTAACTTGGTGTGATCCCATTTGTCTATTTTCGCTTTGGTTGCCTGTGCTTGTGTGCTTGTGGC
AACCATTATGCAAGAAATCTTTGTCTAGTCCAATGTCCTGGAGAGTTTCCCAATGTTTTCTTGTAGTAATTTCATAGTCTGTGGTCTAGATTTA
AGCCTTTAATCCATTTTTATTTGATTTTTTTAATATGGTGAGAGATACGGGTTTAGTTTCATTCTTCTGCATATGGATATCTATTTTTCCCAGC
ACCATTTATTGAAGAAACTGTCCTTTCCCCAGTGTATGTTCTTGGCACCTTTATTAAAAATGAGTTCACTGTAGATGTACGGATTTGTTTCTAG
GTTCTCTGTAATGATCTGTTGGTCTATGTGTCTGTTTTTATGCCAGTACAATGCTGTTTTGATTATTATAGCTCTGTAGTATAATTTGAAATCA
GATAATTGTGATTCTTCCAGTTTTGTTCTTTTTGCTCAGGATAGCTTTGGTTATTCTGGGTCTTTTGTGGTTTCATATAAATTTTGGGATTTTT
TTTTTCTATTTCTGTGAAGAATGACATTGGTATTTCAGTAGGGATTGCATTGAATCTGTAGATTGCTTTAGGTAGTATGGACATTTTAACAACA
TTGATTCTTCCAGTCCATGAACTTGGAATATCTTTCCATTTTTGAGTGTCCTCTTCAATTTCCTGCATCAGTGTTTTACAGTTTTCATTATAGA
TGTCTTTCACTTCTGTGGTTAATTCCTAGCTATTTTGTTTTATTTGTAGCTATTGTGTAAGCAGTATTACTTTCTTGATTTATTTTTCAAATTG
TTCACTGTTGGCATACAGAAACCCCACTGATTTTTGTTGTGTTAATTTTGAATCCTGCCACTTTACTAAATTTGTTTATCAGTTCTAATAGTTT
TTTGGTGGAGTCTTTAGGTTTTTTCCAAATAAGATCATATCATCTGTGAACAAGGATGATTTTACTTCTTTCTTTCCAGTTTGGATGCCTTTAT
TTCTATCTCTTGTCTGATTGCTCTAGCTAGGACTTGAATAACAGTGGTGAAAGTGGGCATCCTTGTCATGTTCCAGATCTTAGAGAAAAGACTT
TCAGTTGTTCCCCATTCAGTATGATACTAGCTATGGATATGTACTATATGGCTTTTATTGTGTTGAGGTTTGATCCTTCTGTACCTATTTTTTG
AGGGTTTTATTATTATGAAGGACTGTTGAATTTTGTCAAATACTTTTTGGCATCAGTTGAAATGATCATATGGTTCTTGCCCTTCATTCTGTTG
ATATGATGTGTCACACTGATTAATTTGCACATATTGAACCATCCTTGCATCCCTGAGACAAATCCCACTTGGTCATGATGAATGATCTTTTTAA
CGTGTTGTCGAATTGGGTTTGCTCATATTTTGTTGAAGATTTTTGCATCAAGGTTCATCAGGGATATTGGCCTATAGTTTTCTTTTTTTGATGT
ATCTCTCTCTGGTTTGGTATCAGGGTAACACTGGCCTCATAGGATGAATTTGGAAGTGTTCCCCTCTCTATTTTTTGGACTAGCTGAGTAGGAT
TGGTATTAGTTCTTCTTGAAATATTTGGTAGAATTCAGCAGTGAAGCCATCAGGTCCCAGGCTTTTCTTTGCTGCAAGACTTTTTACTGTGGCT
TCAATTTCATTACTTGTTATTGGTCTCTTCAGGTTTTGGATTTTTTCATGGTTCAATCTTGGTAGGTTGTATATGTCCAGGAATTTATCCATTT
CTTCTAGGTTTTTCCATTTATTCTTTTTTTCAAAGTTTCTTAAGCTTTTGCTCTCCATACTCACTGTCTTGTAGCAGCAGAGTTCCAGTGGTAG
CTTTATGGAATTTATTGTTGATTTCTCATCCTTATAGATATTCTGAAATTCATGACATTCTCTGTTTTTTAGTATTGCTAAAGGCATGGTTTCA
CATATGGCTTTCTTTGTGCTTCTTGCTGGACTTTGGTTTTGGGGGAGTAATGTATGGGAAGATTCATATCCTAGTAGTTACTATTATCCTCCAG
ACCTAGAAAGTCCCCACTACAACATTTTTTGAACTTTAGTGAGACCTCCCTGCCATCCATTGATCTTCACTGTGTTCCTGTTTTCACTTCTTTC
TACATCTTTTTCCGTGACCTATTGCTGTAGTCATTTTCTCGCAGGTTCCGTAAACTCCCCTATTGTTCTCATCATTCTTATTTATCTGGAAAAA
CTCTAATTGAAAATGACCTCTTCCTCTGTGTTCAATCTGCACATGAATATAGCTGGAGAAAATCATGTAGGCTGATTTCACTTTAAATTTATCA
TCACAGGCCTCACATGGGCACTTATATCTGCCCTGGAATTTAACTGTGCTTCTCTAATACAGCTATAAGATTCTCTACCACCACAGCCTGGAAA
TTGCTTACATCTTCCTGAATCCAAATCTATAAACCTAATTTGCATCCATAATTTTGTCCTTAGAGCAGAGGAGGTACTCCTTTTCTTGACATTG
AATTCTTCCATCTGAGCTCTGGATTCCATTTATTTCCTCTACTTAATGAGTTTTGCTCCTTCAGTTATGCCTTCTTTTTCTTGTTTTGTCAGCT
TTACCTTCTCTCCTACATGGTTCTCACCACAAATAAACATGGTCTAGTATCTCTGTCCTAAAAGGCATGCCTCCCCAGACCTCATCTCTGCCCA
CCCATACCCCAGTCCTTTTTATCATTCCCATTCCTCTGCTCTCCTTTGAAGGCAGACTTCTCTAGGGAAAAATAGTGGTAGGAGTGTGTATGAG
TGTGTGTGTGCGTGTGTGTGTGTGTGTGTGTGTGTTTGCAATTCTCCAGTCAGCACTCTCCAGTAGATTTTTCTGTGATGTGGAAAAT
GCTTTGTATCTTCACTGTCCAAAACAGTAGCCACTAGCCATGTGTGGATATTGAAAACTTGAAATACAGCTAATGTGACCAAAGAGCTGAAGTT
TAATTTTATTTAATTTTAATTAAATGTAAAAAACCACACATGGCTAATGACTACAGCATTAGTGCAGCTTCAGTAAAAGAACCTGGACTCCTTT
TTAGCAGTAGCTTATTTCAGGACTTGGGCAGGGAAAATATGAGATGAGTCTGGAGCATCTTGGGGTCTCAAAAAGTAAGAAAGTGCTAAAAAAT
AATGGGGATATGTAAAAAGGACATTGAAGCCAATGTAAAGGGACTTCAAATTACCAAATCTGGAACAATTTGAGCTTCAGAATAAATAATAATA
GTGGATTAAAACTTATAGAATAAAATAAATATAAGCAAATACTGGTACAAATAAACAATTAAAAACTCAAATACTTGGTAGGGAGAAAGGACTG
ATTTTTCCTATAGTAGAATTCTAGTTAATGAATGTAGGAGGAATGATGGAAATGAAAATCAACATTGGCAAACATCACAATAATAAGTGGGTGA
GGGGACAATTCAAAAAATCATCTATGGATGCTAAGTGAGCATAAGTGTGGTGACAAGATGTCTGATAGATGCCACCTTAATTGAGTGATCAAAG
TTAACATCACCAATAATGAGACATCCAGTACTTCCCAATAGGATGCATTGAGAAGGACACCAAGATACATAACCTCAACCTAATCATGAGTAAA
CATCAGACAAACTCAGATTAAGGAATACACTACAAAATAACTGGCCAATACTGGCAAGATCACGGGGCAAAGAAGGAAAACTAATGAACTGTCT
CAGGATGGAGAGGAATAAGAAGACATGACAACTAAATGCACTATGGGATCCTGTATTGTGTCCTAGATCAAAAAAGGACATTGGTGAAATTTGA
GTAAGGGCTACAGATTTCAGTAATTCTGCTGTGGTTCTACAAAACGTTAACATTTGTTGATGAGTATACAGAAACTATTATTTTAACAGCTTTT
TTGAATATCTGAAATTATTTCAAAATAAGGTTTTTAAAATTGCCTGTACCTTGTGCATTCAACCCAGGTCTGTTTTCTGAGTTTCAGATTAATA
TGTCTACTTTGATGAATCACATTGCAAACTTAACACATTTAAAACTGAAGTACAGGGAGGCTGAGGCAGGAGAATGGCGTAAAACCGGGAGGCG
GAGCTTGCGGGGAGCCGAGATTGCGCCACTGCACTCCAGCCTGGGCGACAGAGTGAGACTCTGTCTCAAAAACTGAAGTACTGATTCTCATGTC
TATCCAACTCCTCCCCCAAAGTCTTAGCAAATGTTAATTCCGCTCAGTATGTTTTTCATCTCTAGATTTTTCCATTTTTATTGTCTTCTGTGT
CTGGATGGATCATATGGAATATAATTATAACTTTTAAATGTCTTTGTCTGCTAGTTCTGTCTTCTTTGTCATTTCTGATTCTGTTTCTATTGAT
TTTTCTTTTCATTATGGATCATAATTTCTTAGTTCCTTGCATTCCTGGTTATTTTCTGTTGCATGCCAGACATTGTGAAGTTGCTGGATATTTT
AATATTTCTATGAATGTACTTGAGCTTTGTTCGGCACTTGGTTAAGTTACTTAGAAACAGTTTGATCCTTTTGTGGTTTACTTTTAACTTTTGT
TAAACAGACAAGCACAGTCTTTACTGGAGGGCTTATGTTTTCCTACTATTAAGGCAGTACCCATGAATTACCAGGTTTTCTACTGTGGCTGATG
GTACCTCTTGCTAGCCATGTGTGGGTTTTAGGAACTATTGCCTCTATTCTTTTCAAATGGTTCTTTCCCCAGCCTCAGATGATTTCCTCATATA
TACACGTATCAATACTCAGCTGAATACTCAGTGGGGATTCTTGTAGCTCCCTGGAGGTTTTTCTTTCTCTGTGCAACTTTCTTCCCTTTAGTAC
TCTGCCCTGGGGTCCCTAGTCACTTTGACCTCCTCCTGCTGACAGCTTTGCCTCTTCTTCTCAGAGAAACCATTTAGCTGTAAGCTGGGGCAGT
TGGAGGGCTCACCTGTCCTTCACTGCTGATTTTGTTCAATTCGTTTTGGGTGGAGAGTAAATCTAGTTCCTGTTACTCCATCTTACCTGGATGT
AGAAGTTAAAATTTTCTTTTAGTTTAAAAAAAAATCCAAAGAAAAGAATCAGATCAGTCTTATTCTGAACTGTTTATAATATTTTCTTACCTTT
GTAAATTTTAGATACTATATTGTAAATGCTTTATATGTCACATATAAATAAAATATCAAATTCCTTATTGAGGTTATTTTCAACATTTGTTTTC

TGCCCATCCATGATTTATGATATGAAATTGCTTACTTACAGATTGGAAGAACAGTGCTATGCTAGGTAATTAGAAAAATAATATTTCCAAATAT
ATGTAATGAATAACCTATATTTAATAATATTACTTAAGTTTTGCAGAAAACTCAATTTTTAACTGTTTTATATTTAAAAATTAAGAGTACTGAT
GATTTCTGTAGGGTGCACTTCTGGTTTATGGGCATCCGTGTTTTGGTTTGTGGGTATTCTTATCGTTTCATAAGTTTTTTATAAGTCAGTACTG
CATTTTCCTCTGCTTTTTTTTATACCTCATAAAATAGAAAATTGGATTTCTGTCATTAAGGTTTCTCATAATTGGTGTTTATGTGAGATAAATG
TGGTATTACAAGGACAGTAATATTGTATTTGGGGGCACAGTGGGAATGTAGAAGGGCACTGGACTTCAGTAACAAAATTAAAAAGTAGAAGTTG
AGTCTTGGCCAGCTTCTTACAAGTTACGCTACCTCTTTGAGCCTTACCTTGTAACTTCCTCACATAACCTGTGAGCCTTACTTCTTTTAAATGG
CATAATTCTCTTCTCAAAGGCAGTTGTGAGAATTAGGTGCATTTTGTGAAAGTGCATAGTAAACTGCAAATGCCGTGTCAGATATCATTTTGAG
GTTTAGCCTGAGAAGGGTAAGTTTTAAGCAGTATGTACAGTGGGAAAATCTGACTGTACCTCAACCCAACATTAAAACCCAGAATTATCTTGGC
TTGTGTTTTCTTTGGCTAGTTTCAAAATTTCTTTCTTTATTTTTTTATGCTCAGCTATAATAGAAATGAGTCGTATTATCATTTCTGTCTTTAC
TCTGCAGTATACCAATAGCACTTCACTCACATCTGTGACCTGTGGGTTGTGGAGAGAAATAAGGATGTACTCAACAGCTTGCATCTTTCAACAA
AGAATACTTTTCAGCAACACTCATGAGTTTCTCTTAGGCATTAGAAAATGCAGACCCTTAGACATTAAACTAAACTCATAAACTCAGTAATATT
TAGTGAGAAAATTGGAGGAACAAATCACTAAAGTTAGATTCTGTGTTCTCTGTAAATGCCAACAACTGTGAGCCATGGAGTAGATTAGATGACC
TTGGTTTTTATGGTCTAAAACATTTTCTACAGAATGGTGCTTACTGAGGAGCTGTTTACTGAGAATTGGAATAAAAGGCTGCAGAATTGTGTGA
AGCTTGCCCTATATTTATGAATCAGATTTTTAAGTGGAAGCTGCAGTTGTTTCCTTGTTTGTCATTCATGCTTTAGCAGAGGATATGATGCCAT
AGAGCTGGCTTGGTTTGTAGCTTCTCATTTAGGGTTTGCACCACTTTCTTTTCCTTTTTAGAGGCCACAGCAGTTTTGATGTATTATCAAACCG
CAAAATGTACCTTGTTGGGTATTTAGCAGAAGGAAATGTGTTGACTATTACACATCCCTTATCTACAGTGCTTGAGACTGTTTTGAATTTCTTA
TTCTTATTTTTTTTTTTGAGTATTTGCATTATATATACTTGCCCATTAAGCATCCCAAATCCAAAAAGCCCAAATTTGAAATGCTGCAGTGAGC
ATTTCCTTGGAGCATCATGTCAGTGCTCAGAAAGTTTTGAATTTTGGAGGACTTTGGATTTTTGAATTTGGAATGCTCAGTCTGTGTTTGATAG
TTTCATTAGTGATTGTGGCATTCCTGTTTAGTCTCATTTTGAAAATACAGCATAAATTTAAAAATGCATACATACATATGTCCATACATATTAC
TACCTATTCCATATAGGTAGTATATAGCCATACAACTGCAGACACATGGAAAACAATTCTTAACCTTTTGAATGTATTAGTTTGTGTTTAAAGA
TAATGTTTTATCTTGTTTAACTGGAATCTAATATGTTAAATCTCTTTTATTCTACCTTAGCATCAAGGCATGCCATGGGTTGCCTCTCATAAAT
GGCCAAAGCTGTGACCCTTATGCAACAGTTTCTCTAGTGGGCCCTTCTAGGTAATATTTATTGAATTATTATTAGGTTTTAAAGTTTTGATGTT
TGATTTAAAAATTTAAAAAGTAAGATTCTACGAGCAAATGATAAATAGCTATTTATAACACACAGTAATAAATGCTTTGAAAGAAAAATCTTTA
GTGAGTTCTATTATACACTTGTCAATAACAAAGCCCTCTTTTTACAGACAGAAATTGGTACCCCATTTTAAATCTGCCATGCTCTTAGGCTTTA
AGGAACAACTTCAGTTTTATACTAGTACAATGTAGTACTTTAAAACATAAACTTGACTTTTCATGCATCAGCATTCCTACTTTTCAAATATCCT
GAATTTTATGCATGTAAAATCCTGTTTTAATGAATGCCAGTTCAGAATAACAAGACAATTTATATATTTTTATCTGGAAGGCAGCTCAGGACTG
AAAATTGCCTTTTCTACTCATGAAATCTGTCCTCTACAGAGAGAATTCCAACTGTAGAAAAACTGCTGAAGTACTAGAGCATGGCAAAGTGTAC
CATATCATTGATTTAAATGATTTATAATAATTTGTGAAAAAACCTATAGCACTTTGTAATACGGTGTGTTATATGACTTCATTATGATTTCTTT
AAGGAACTGACACATCTGAAATATGTCTACAACTTGAAGGTTTAGAATCAGGAAGCAAGAAACACAGTATTCCCTCTACACACACATACATGCA
TACATACACACCCCTTTTCCCCATCCCCAGAATCTCTAGTTATTCTTACTTTGTAGAAAATCACTACTAAGTCACTTTGAAAAATGTATTTATG
TATGTATGTAAAGTACCTAGTACCATGCCGGTATTTATTAGGTGCTCAAACAATAGTATGCTATTAGCAGATACTCAGTCGTATGACATTAAAT
GCTATTAGAGAGATTTATTTTTGTGTGTTAAAAATGTTCAATCTAGTGGAGCTATTTTTGTTTTTTTTAATAATCTCTACCTGACAAATTATTT
GGTAACATACAGTTAGAGACAATTTGGCATATGAATTTGTGTTTTAAAAAGTCTGGCCAGGCGCAGGTGGCTCACGCCTGTAATCCCAGCACTT
TGGGAGGCCGAGGCGGGTGGATTACCTGAGGTCAGGAGTTCGAGATCAGCCTGACCAACAAGGAGAAACCCCGTCTCTACTAAAAATACAGAAT
TAGCTGGGTGTGGTGGCTCATGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCTGAGGCGAAGGTTATGGTGAA
CCGAGATTGTGCCATTGCACTCCATCCAGCCTGGGCAACGAGCAAAACTCCATCTCAAAAAACTAAAAAATAAAAAGTCACTGTTGGTTTTGCT
ATTGTACTGTAGTTGTGTAAGATGTTAACACTGGGAGAGGCTGGGTAAAAACACAAGATTTCCTTATGCGTTTTTTGTGACCTCCTCTGAATCT
ATAATTAAATTAAAAGATTTTTTTAAGAAGTCTCTATTATACCTGAAGCCCAAGAAGTAAGCTGAGTTAAGAATGTTTTTCAAGTTCCTTGGGT
ATTTTTCAACATAGATGAAGGTGCTCTAAATCTTATTGTCTTCCTTCTATTTATTCTGAGTTGCTTATAGAATAGAATGTGTTTTTAAAACCCC
TGAAAAAGGTTGGCAATCTAGTGTGTCCGTAGAGAGAATAATACAATCTTGGCACATAGGGGATGCCTAAAGCTTATATATTCTTTGATTTGAG
TTTATAAGGACAGTTACTTTTTTCCAAGCAATATTTAAAACTGAATCTTCCCTGAGTCACCTTAACTTTTAAATGGAGGTCAGGCTCCCTGGTT
GGAAATAGCATGTTTTATAATTGTGTACTGTTAAGTTCTACAAGGTAAAACTCTACCACATTGGAACAGGAATGACCAAAAGAAGACAAAAGTA
AAGAAGAAAACAAGCAATCCGCAGTTTAATGAAATCTTTTATTTTGAGGTAATTTTTTGTTTTACGTAAATGTTAACATTAAATATGTAATATT
TAATGCTAGTTGATTTCTTTTTTCAAACCACAGTCATAGTAATCATTTTATCAATTAATGCAGATAAGCATTTCTCTCCTGAAAGCAGTAGAAC
CATGGTGTGATGCAATGGATGCCCAATATATAAAATGAATAAAGGCAGAGCTCTAATTTGGGAGCAGGAAGGGCCAGGGCCATACCCACTCCCC
AGTCATCCTCACTATTCATGCCCTTCCTTTGCACCCTCCCTTACCCTACCCAGCTCCCTACCTAACACATAGTGGCCACAGGATTCTTCTGCAG
GGTACCCTTTGACAGTCACTAGTGAAGTAAGTGTAATTATCACTCAAGAAATCTGAGTTCCAGTCAAGTTGACTGAAAGAGTCACTAAATGTGA
CTCAAGTTTCTTATCCTGTGAAAGAATAATCGGAAGGGAAACTAGCAGCACTACCTGACTCAGAGTTTTTGTAAGACCCAAAGCATGTGAGAAT
CCTTTGAGACCATAAAATACTTTATGATTACAGCTTTATTATTACTTTTTTTTTTAAGCCTAATTCATTCTGTGGACGCCTGCTTATCTTCATA
GACAGCTTCAGCTGCCTTGAAGTTGTCCCAAATACAGTTTGGACAAAAGCTTTGGAGTGCTTTTCTTTGGAGCATTTGTTAAAGAAATCCTTTT
TCATATTATTTGCAAACTACAGAAAAAAAAAATCAAACTCTCAAAAAGATTGTATTCTAATAAAGCATGTTGCAGTTCATATCAACGTGTAGGG
AAGGTTTGAAAAAAGGAGTTACATTTTGTGCCTTTTCTTCTGTGTGTATTTTTCTTGGTATTTCACAGTGGAGAGAATAACGGTACCTCTAGTC
ATGCCTGATTGCTGTACTTTAATAAAGGAACACAGGCCGAAGAAAATGCCAAAAGTGAAGCAGGAAGAATTGTGGAGGGGGAAGCAAGGGAGAA
AAAAAAAACAAAAGAAAAAGTACCAATGTGAGACTTTTCCATTTCCTGGCTAAGGACTTGGTGCAGTTGTTCTACGTTTATTAATGGCGGTTGC
ATCTAACCTGGAGAAAACAAAGAAGGCAGCAATGTAAAGGGCCGCTGACTAAAGGCACTCACACTCCCCATTAGCCCACATACCTTAAACCTCA
GCTGGATGGAATCTACTCTGCTTCATGGATCCTTACAGTCAGCAGATGACCTTTTAAAAGTAGAAGGCCTGACCTGCCTGCTGTAGCAGGAGTA
CTTGTTAGGCCTTGCAACATTCATTCAGAGGGCCTTTAGTTGGTTATAAAGATAGATACATTTCCATCTCTGTCCCTTTAACTGAAGCAAGGAAC
ACAAAGCAGACATATGTATGCATATACACAACAGTAAAATGCAGTAGATATTGGGGAGGTCAGATGAACTCTGCTCCATTAAAGGCTTGAAGAA
ATATTGGATTTTCTAAGATTGAGGAAAGAGAGTATTAGAGATGACGAACATTTTGAGCAGAGGCACAGAGACAGAAAAGCAGAAAGTTATGTCC
AAAGTACAGTGAGTACTGATTTTACTGGGCTTGTGTAAGGAAATAATGGAAACTAAGATTAGAAAGGTAGAGTAAGACCAGCTGATGAAAGGCC
TTGAGTGCCTAGTTATGGTGCTTAAGTAAATGATTTTGAGCCTATAAGTTATGAGTAAAACAGTGTTTGGGAAGGAATTAACTATGATCTGAGG
TCCAGGTGGCTTAGGGAGAAAGAACAAAGCTGGGGAGACTGTTGTACTTTAGGTGTAAGAAAAATGGGGAGGGGATGGGGTATCTTTCAAGAGA
GTGCTATGGAAATAGAGAGGAAGAGGCAGATAAAAGAGAGAATGCAAAGGGCAAGGTAACAAATTGGTTATAGAAAAAAGAGAAAGGAAGTAG
TTGAATGCTGCCCCCAAGGTTCCAAATCTGGAAAAATAGAAGAGTAGGGAAGAAGGAAATAAAAGTGGCTTAGTTTGGAGCATAATTAGCTTG
AGGGCTGACATTTTAAATCCTCCAGTAGGGAGTTTATGACTGAAACTTAATATGAGTGATAGTTATTGACCAACACTCAAGGTTTGTTTATATA
AACAGCCAAGAAAGCCAAGAGAATAGAGGTATACAATACAGGAGAAAAGTGAAGAAACTAATTTCTGCGACTCAAGTATTTAACTTTCAGCATG
TCATTTAATTTCTGTACTTCAGCTTCCTCATTTTTAAGTGAGGGTAATAAATCTAGCCCTGTCCGCCTCTGAGCAGCGTTCTGATGAACAAAGG
AGATAATGCATGTGAAAGCACTTTGTAGATTGTACAGCACTGTGCAGCTCCAAGTTGTTTTTAGTGCAAAATAAAACATAAAATTTTGAAGAAT
AATTTATCTATAGATTCTGAAAAAGAAACAAAGACAGCAGCATAAGGTTGCCAAGGTAGTGCCCAGGTAAATTCTATAGAGTGTTTCTGGGAAA
GGAGATACAGTTGTATGATCACTAAATTAAATAGGAGATCAAGGGAGGTAAGAACTGAGAATTTATCGTCAGATGTGGTGATGAAGAGAGATTT
TAGGAGAGTGATCTGTGAGGAAGCCAAGATTATAAGGAGTTACTATAGTGAGTGGGTGGTGAGGAAGTACAAGCTGTAAGGATGGATTGCAGTT
TTCAGATTTGTCTAAGAAAGGAAAGAGATAGGAAGACCATAATTTAAGGGGAGAATTTTTCTTAGACTTGAGTGAGATGAACAAGCTGGTATTA
TTTTGATTTTTTTTTTACACTACCTTATTCTTTTCTGCTACTTCCATAGTTGCTTTTATATTCAGCTATTGAGTAAAATATTACTTGGACATTT

TCCTCTGCTTTTATCCACAATTGAATATTTTGCAGATGATCATTTTTAAGCTGTAGGAAAAATGTATTTTTTTAAAAAAAATTTTTACTAAAAT
ATTTTGTTTACAGGTAACCAGATCCAGTAGTTACACCAGAAAGTCCCAGTTCCAGGTAGAAGAGGAGGACATTGAAAAGCTAGAAATCAGGTAT
GTGCCTTGGGGTTTTACAGAATTGCTTTTTTTGTATACCAAAAGAAAATCCTAGATTCAACCAAAAAAAGTAAACCAACTTTAATAGAATTCTCT
ATAGCAAGTTGGTTGATGAAACTTAGAGGAATATGCAACTAATTTAAATCCAGATTATCTTTCCAAAGTCTGATTTGTTTGCAGAAATAGTCAA
AGTGTATTAATTTTATAAACAAAGATGATCTAATTTTCATCTGTTTTATTGTATTGATTTTTAATTTTTCCCAAATTGTTCCTTACATTTCTGG
ATTATAGTGTAATGGATGGAAAGGAAGTTATATCTCAGCCAATTTAGAAATTTTTTTTTATTCTTCTTAACATATCTGCTGTCTAACAGAAATT
TCAGTGAGGTAAGAAGATAATTCAACAGGTGCATGTGTTTGAAGTTTGTGCTGTTTCCTGGGTCTTAAATATCTATGCCCTTTGCGAAGGAAAA
ATCTTATAAATGCATGTGTAGGTGTGATGTTAACAGTGTGTTCATCTAGATGGTATATTAATCATGTGTTTGGAGTGATCAGGTAATGTATTTT
TCTAATTTTTCTATATATATATTAATTGGTGGTAATCTAGAGAGAAACTGTAGTCTTATTGTAGTTTCTTTCTGTAGTCCTTATTGCTATAGGT
TAAAATAAAGCCTCGACTTTCAAACTAAGACAGTTTAAGTGCCTTCTTTCAGACTATTTAAAATTACTTTCTGTGCTTTTTAAATAAAAGCTGC
TGTAGTATTTTGCTTCTCTAGTCTGGATAGTGAGGTATGTATATGGTGTTGCTAACATCTTTTAAGCATGTAAAATTAATGCTGTAATACAGAT
CAAAGTAATTTGAAGCTGTTTTGTGGTGTGAACTCTCTTAAACATTGTTTGCAAAACATAAAGCCAGTTTTCAATTTTCAGGATCGACTTGTGG
AACAATGGAAACCTAGTCCAAGATGTTTTCCTAGGTGAGATTAAGGTTCCTGTGAACGTATTAAGAACTGATTCCTCTCATCAAGCCTGGTAAG
GGCCCAGCATTTTAGTGAACTCCATAGTTTAATTCTCTTTAGTACAGTATATATATGCAAATAAATGCTTACTCTGAACATATTTTAAATTTGC
CATGTAATAAGCTAAACGTCATTAATATTGATATGTTCATTAATTCATTGTTGCAGAAGTAAATTGTAAGTTTTATGACTTGACCTGTGGTACT
GAGATAAAAGAACTGAATCATCTAGGAATATTTTTCTGTTCAGAAGTGAAGACGACTCTTAAGGAGAAAAATGGGAAACATTTAAAACATTACA
TAAGAGTTGTTCATGTAAGAAAACGCTTGGTCACAAATCAGTGTCTGCATTTCAGAAGTTTTATTAGTGGTCATAGGAACTGTGGGTATTTGAA
AGCAAAGGATTTTATTTAGGGGACTCAGTTGTTTATGGGAACTAACCACTGTTCTTCCTTCACCACACCCCATTGAAATGTACTGTAGATGGCC
CTAATGTTACTTTTTGAATGTCTAAGGTCTTATGTTGTTGAGCTGGCACTTTTTAGGGCTCTTGGTTTTCAATAATGACTATAATATTATTTTA
GTTTTCAGTGACTCTAATAATAACATTACACTGATGTTAAATTCAAATTAATGTTCAGACATTACATTGAGCTAGTTTCCTTAGCAGAATCAAT
GTGAAACTATTGTTTTTTTTTCTGTCTATAGCACTTAAAAGCGTGTGTATCCTTTCAGTATGTTGCCCAGCATCTCTCTTGCTAGATTTTGGTTT
CAACTGGGTATAAATGAACATGCCTTTCTCATTTGCCTTTTAAGGAGCACTTTTTGGATCTCAGTTTCTGCTGCCTCAAAGAGGAGTGTTTAGG
TGTTTCTTATGGATATCAGTTTCATCTGTTCCTAAAAGAGCCTGCCTCTTCTGATTGGCCATCAGACATCTTCATTTTAGAGTCTTGTCCTAGA
GCAGTTATCACTTGTAGACTGATATGGAGACTCTCAAAATTTTTACTTTATTTTTGCCTCTCTATAGTCCAAGGCAGATCTAAGATTTATTGGT
CTTTATGTTGGCATTTTGTGTATTATAGTTTGTAAAATGCATCCACAGAGGGGGAAAAAAATCAAATGTAGTCACTATGAAAAATTGATGAAGA
TTTGGGACCTGTCATCCTCCCACTACACCATGTCTTCCACCTTCCATCAAATAGCATACATTTTAAAATGAAAATTTCTGAGCTCAGTTTGTCA
AGTTTTTAAAATTATGTGCCAGACCACTCAGTACAGAAGAGAAAAACACGTTGTAGTGCCTCCGGGTCCCTCAAAATGAACTTGAAATGTGCCA
CATAATCTGTTTTTTAAGTAAGACTGTCTCCAGAGATGCCTTCCAAATTTGGCAAAACTTTGTGCAGCTTCCTTGGCAGTATGTAAGAACATTA
ACAAACTAATTTTATTTTTATAGATGTTTTTGGCCCATGATATTTTAAAGTAACCTGCCAGAAATATAAGTGCTGAAATTTATATAGCATGAAA
TAGGAACATCTGGTAATTCATATATAATTCCACAGTTGTAAGGAAACATAAAAATGTGAATGCCATTTCTTTTAAGTTGGAAATAAAACTCTTA
ACCTCCTCCATCAATTGTAGAGCCATAGCATCCCCTTGTGGGGTTGTTAGTAACTGCATGAAAACTCAAGAAAAGATTTATTTACCCTCAGGAT
TTCAGGCAAATTCTTTCTAATGTTGATGTTAAGAGAGTAATCATCAGTAATTTAATTCTGTTGTTTGAAAAGTCTCAAAATAGATTAATTTTTA
AATTTGAAAGTAAGATTCAAATAATAGATAAAATGAATTACTGGGTTTTTCTTTTCAACAGAAGCACTTTATACATGATTTTAGACTAGATGAA
TATTTGATATGATTTAGCTTTCCAGTTTGTTAATTTTGACACCTTTTGTCCTCAAACTTTTTTTTGTGGGGGGGCGGTCTTACTTTTTTTGAGA
CAAAGCCTCACTCTGTTGTCCAAGCTGGAGTGCAGTGGCATGATCTCGGCTCACTGCAACCTCCACCTCCCGGGTTCAAGTGATTCTCCTGCCT
CAGCCTCCCAAGTAGCTGGGACTTCAGGCACACACCACCATGCCGAGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTTAACTATGTTGGCC
AGGCTGGTCTTGAACTCCTGACCTTCGTGATCCGCCCACTTCGGCCTCCCAAAGTGCTGGGATTGTGAGCCATTGCGCCCAGCCTTTGGTCTCA
CATTTTTAACGTATCTGTTTAATATTTGAATTTAGAAAATATAACAAGTCTCCTGTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
CAGGCATCCGCCACCACACCCAGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTCACCAGGCTGGTCTTGATCTCCTGACCTC
TTGATCCCCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCACCTGGCCCACGTTCAGTTATTAATAGAACTGCTTCTT
TATTCTCTCATTTACATAGCATTATGTACAAATAATTGCACTTTGGGTTTGTCTACCTCAATTTTAATTACACAGACCCTATGGTTAGAATTGT
TTAAATGCTGATTTTTTTCTGTTAAGGGACTGTCAAAACTGCTTACTCTTGAGAGCATAAGGATTGCTTTTATGCCTGTGAATGAAAAGTACAT
GTTTAGAGCAACTGAATGCTACTTTCAGTTAAAAATTTCTCTTTATTCCCTGTTTCTTTTTCTTTCAAACGGAAATATTTCATTCAAAAACTGA
CATATATATATATGAGTTTTTTGTTTTGTTTTCACTTAGAAATGCCAGATAGTCCTGAACTATTTAACAAATCTTGAGCCTTTTCTCTTTAGCT
CTAATTCATACAGAATTATTTAATTCACAAGGATCCTTCAGGCAGTTTATTAAATTGAGCTTTTGTAATAATATTTTAAAATAATCACATTTAT
ATAGTTATACAAATGACTATTGATAGTTATTCATATATTTAAGTGGTAATAGTTATACATCACATATATAAATGTTATATGTGTAACATTTACA
TAGTGATTACTGTGTGCCAGGAACTATTCTAAGTACTTTACTTATAATAACTTTTTTAGGGCTGTTGTAGGGTTTTAATGTGTTAAGACACTAT
TAATACTCCTTATTTGACAAATGAGGAAAAAGCACAGAGAAATTTAGCAACTTGTCTAAGGTCACACAGCTGGGATTTGAACCAAACTGTTTGA
CCCCAAAGTTTGTGCTTTTAACCAGTGTACTGTAAGTTTGAACTCTGGCATATTTCTGAATATATTTAAAACTCAAAAACATTCTTTTAAGCCA
TTAGCAAAGATTTGAGTGTCCCTTGCTTATAAAATATTATATAAAAGAGAATCAGAGAGTTCCCTACTCATTTAAAAAATGATCTTTTCAAGGG
ATGGGTAAAACAACAACATGTTGTGAAGTCTTTTTTTTTTTTTTTCAAGTAGACATAGATGAGATATTTTGTCTATGGGGATTTCTTATCCTGC
AAAGAAAATCCAAGGAAACAAGTTTAGAAAGTATGGCAGGAGTGAACCCTTCTGGAGTTCTTAAGCATCCAAAAACAATGTATGCATAAAAATG
AGTAATTGGTATAGCACTACCCTAATTCCTCTACATAGAACAATGCTATGTTAAGACTGTAGGCCTGGTAATTTTCAGTTATATGAGAGTAAAG
AGGGATGTCATACCCCTCCCTCAGTTATTTGGAGCTAAAGGAAATAAAGTTGCGCTCTGAGCAAAATTTCTGTAGTAAAAACCAAAACAGAGTT
TGTTTTGACTGTAGAGTTCAGAGACACTGTTTAAGATGGATAGGGATGGTCCCAGAGAGGCAGAACCAGTTGTAACTGAGTAAGCAGTAATACA
AGTAATGTTAATCTACTGTGCATGGAAAACATTAGTTCAATAGGAGGAAAAGATTCATCTAGAGTAATAAAAAAGGATTCCAAAGAGGTAGGCA
TGGTACTGCCTATTCAAGCACAATTGAGGGGGTAGGGGATTCTGGTCCAGAAGAATTACTGTTTCCTTGGCAAGACTGTTGTCTTAGCTGAGAG
ATTCTTAAGGCTGCATAAAACTCCTTGTCATGCCTCTGTACTCACCACAACGCCTTTTGATAATTTGCCTTTCCAAATAGCCTACCAACAGGTA
AAAAAATACAGTGAAAGATATAGATGAAAACCCTATGGTAAATGGTGATAATTGTTGTAACCAAGTGACAAGCACATGGGGGTGGTGGTAAGAA
AGGGTGTTCATTATTACTATTATCACTCTTCTCCCTACTTTTGTAAGTGAGCATTTCTATAATAAAATGCATTGGTCACTTAACAATCCAGGTA
CTTATGCCACTTGACTATATTTCTTTTTTCATAAATTTAATAATTGACCTGCTTTTAAGTATATCAGGCTCTGCACTCAGTCATTGCAATTCAGG
TGCACCTTATTCTTTTTTTTTATTTTTTTGAGATGCAGTCTCTCTCTGTCGCCCAGGCTGGAGTGCAGTGGTGCGATCTTGGCTCAGTGCAACC
TCCACCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCCTGTGCCACCATGCCTGGCTAATTTTTGTATT
TTGGTAGAGATGGGGTTTCACCATGTTGGCCAGCCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCCGCCTTGGCCTCCCAAAGTGCTGGGA
TTACAGGCGGGAGCCACCACACTTGACCTTCAGGTTCACTTTAGATGTGCTGATAAAACGAGATGTCTGAATTTGCAAGGTTGCCGAACATGCC
CTGGATTGTGAAAAATTGACCAAAGTATCAATTGTCAGGATGCTTGGTCATCAACCAGCTAAACTTCCTGATGTGGTTTGGCTGTGTCCCTACC
CAAATCTCACCTTGAATTGTAATCATCCCCACATGTCAAGGGCAGGGCCAGGTGAAGATAATTGAATCATCGGGTGGTTTCAAATCCCCATACT
GTGCTTGTGGTAGTGAATAAGTCTCATGAGATCTGATGGTTTTATAAATGGGAGTTCTCCTGCACAAGCTCTCTTGCCTGCCGCATGTAAGACG
TCCCTTTACTCTTCTTTGTCTTCTGCCATGATTGCGAGGTCTCCCCAGCCGTGTGGAACTATGAGTCAATTAAACCTCTTTCCTTTATAAATTA

CCCAGCTTTGGGTATGTCTGTATTAGCAGCATAAGGACAGACTAAATACACTTCCCTTAGAGGTACTTCTGAGTCACCTTTGCTAACAGGCTTG
TTTCTAATTATTTCATTGACCATATCTTTACATCACTATTTCTTAAATCAGACAGTAGATGTTCTGAAGGTTGATCTTCCTCTTTTGTGGGATA
GTGATGTAATTTCTTCTTGTATTAACCATCCCTTCATCCTTTAAATTTGCCTTGGTTAATTCGCTAGTTGTCTTTTCTGTCTTTATCTTATCTT
TCTCAAAGCTAATAAATGTTCTATTAAAGCCTTCCTCCTTCTATTTTTAAATGAATTAATATATTAGAGGAGGTCATAGCTGATAAATATATAA
ATTAAGTATTAAAACTACTATTTCTTTTATAAAAAGCATCTCAGCATTCCAGCTAAGTGAAGGAGGAGTGATAGAGTTATAAAATTATCATTTT
GATGATTAATGGCTCTAAGCCGTGATCATCAGTGGCTGCTGATATTGCAAAAGGAGAAACAACCAGACATTTATGCCTCTTGGTAGAACTACAC
AGCATTATCAATGAAGCATTCTTGCCAGAACATCAAATCTGAATCTAACCAAGCCTCTAGATCTAACTACCAATATAGAGGAAATACAGAGAGG
ATGAAGGAATATGGTAAATGACATTGTGGAGGTAGAGATAAGAGTTAACACAATTCCAAAGGTGGAAAACTCTATAGGACCAACAGTGAGGAAT
CTATAAAAGAGACTTAAGAATGCTATTACCAATTCTAATCTATGGACCTTATTTGGATTCGAACAAACTGTAGAAAAACATTTATGATAAGTTT
GGGGAAATTTGAATACTAAGTGAATAGTGATGACTTTTTAAAATTATATATGAAATTATACCTGGAAATTGCTTTAAAATAATAATGCAGGAAC
AGGATGGGAGAGTGAGTGAAGGTATGGCTGAAACAAGATCAGTCTTTTATTAAAAAAAAATCAGTGTATGTATTTTTAAATTTTGTTTGGCATT
GCCTTTAGATAGAGAATAGAGAAGATGGCAGCTTTTTTCTCATGTTAGTTAGAAACTTCTAATTGCTTTCAAAAAGTGACCCAAGGCTTCAAAA
CCAAAGCATTCATTCACTCACTCTCTAGTCAATATCCATGGGAATGTCTACTACTAAGCCCATGTGCCCTATTCTGACCTATCTACTAAAAATA
AAATCGTGGGTTCAAACAGCAATGCTTAAAAAAACTCAAACTGCTTAAAAATATTGCACCTGTGAATCTGTTTTAGTATTTTTAGGGAATTACT
TTACTACTGGGCTTTGTAATTTTAAACTTTAGAAAGGCCTTAGCACAGGATTTATAAAACTTGAAAACTATGAGTATAAATAAATAATTCCAGG
CCAGGCATGGTGGCTTACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGTAGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCA
ACATAGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAGCCCGGTGTGGTGGCCCGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCGG
GAGAATCGCTTGAACCCGGGAGGCAGAGGTTCAGTGAGCCGAGAGCATGCCATTGCACTCCAGCCTGGGTGACAGAGTGAGACTCTGTCTCAAA
TAATAATAATAATAATTCCAAACATTCTACATTCTTAGATAAAATATGTAATTTATTTCTCAAACAGTATAGGGGAAATATTGACAACATT
TAAAATGCATTTTAATGTATTTTAAAACTTTTAAATGTATTTTAAAACATTAAAATGCATTCTTAATGTATTTTACATGTATTCACAAAATA
TAAGAAAATGCAATTCGTGTCATAATTGTGACATGATACCAAAGGAGAAAATCCCTCCCTTTACTGTAGCAAGTGTATACCATAGAGGCAGTGA
GTAAGAGAGGAACAGAATAGAGCAGTAACAAGATGAAAATGGAAAGACAAACTCTTCCTCAGTATAAGTAACCAGTGCTATAAATTTGCCGTGC
CTAGTACAAATGTTGAACAATTGTATAAACAGAGGTTGAGGATTTTCTGCAAATAATAAAAGAAATATCAGTGCAGATTATTCTGGGAGAAGAA
TGGCAAAGAAAATCCACAAAAGCATTTTAGCAGGACTTGGGTAACAGAGGACTGAGAGAGAGAATTTCCCAGACCCAAAAAGCAAATAAATAAT
TTTCCCCAGTCTCTTAGTAAGGAGGGTTGAAATTAAATTCAAAATTTTAATGTTTGCTGTTTATTGCTTTCTGAACACAATTATTTTAAGTTA
CTTATGGCCTATTAAGCTGTATAGCATTTTCACTTCACAAGACAGTACAATTATTTTTCATTATATTCATAAATACCTCTCTTAAAGAACTCGA
GTCCATTCATTGCATGAATATTATGTACCCGTTAAAAAGAACAAACTGGATCTATGAAAAGTAGTTTCAAAGAGTTAACTAGGAAGTGCTTTCA
GGTAAAAAAAACAAGATACAGGAGAGTAGAATATGATAACATTTTTGTAAACTGACTAATAGGCTCAGAACTCATTTATAAATGTGTATATATG
CACACATTTTAAAAAATCTATATAAAATTATATAAGCATGAAGAAAATAGAGAAGAAGGGTCCATAGTAGGTAGTTAACAGGTTCCTAAGAGAAGCG
GAGGTGCAGAATGGTAGTGTTTTGAAGATAGGAAAAAAGATAAGAGAAAAACAAAGTTAAAAGAGAAAATAAAGAAAACGTTCCTTAAAAAAAC
AAAAGCATTGATTTGATGACATTGTTTATATATGTATGCATCGTTATCTATTTGTCTATGTGTAGTAAGGATTTTTTAATATTAAATAAAGAAG
ATTCTGGTTCAAAGAGTGATGAAAATAGTAAGTGGCACTCCACACAGATTCTTTCTTGGTTCTTGAAGTTTGAGCTTCACTACAAAAAGAATCT
CCATTCAGTTGCTTTTATCTACCCTACAGCGTTTGTTAATAGCAAATCCAAATTTGTAAATTTAATTTGGAGTTATTTCTGAAAATAAATTTTG
TGGGCAATATGATGATAAGCCACAGGAAAAAAAATATGCAGATAAATATTTATAAATAAATTCCTTTAATATATTCTAATTGTGATAGTTTCTG
CAGCATAATTTAAAATTATGCTATTTTCAGTGTCCAAATAAGGATGTTATCAGTGTTAGTATTGATCATCTGGCTGCACATAGTAACTTAAAAT
AATTTTGTTTTAGAATATACTAATAAAAGACATATATAATACAGTTTTTCTGCAGTTTGGTTTCTGGTTATAGTTAAGTAAAGCAAAGATTCAC
TATTTTATATACAGCACAAGAAAACGCCTTTTTAAAATAATGAATTATTGAAGAATAAGAATACAGTTAAGTTTTTTTCCTGGATGTTTTTAGA
TATTTTGCTCTAATGGAATAAAGGGGATGAAGTATTTGTAATGGGCATATTATTTTAGATAAATAAATTTTTAAGAGTTTGAACAATTTTTTAA
CTCCTGGAACTCTTGTGATATCTTGAATGAGTAGCAAACTTTTTTTTTTCCAGTCCTAGAAAGATATATTTTGGCTAAAGCCCAGCAATTCTGA
AGTTTTAATGACCAAATTAGTTGAGTTCAATTGTTTTTGCCAACTTAGGCTACTTTAAGAGTAAAAATTGCCTTTCTCTAATCCTGATATAGTC
TAGAAAAAAATAGGTATTTACACTAACAACAAATCATAAATTTCAAATTTAGGCAAGCATATTGCTGAGTATCCCCCCAAAAAGGAAATATGAA
TACTTGATTGTCAATGGTACTTTACAATTTTTATCAGCCTTCATCCAATTTTGTTTTGTTTTGTTTTTTAATTTTAGATTCAGGGGTATAGGTA
CAGGTTTGTTACATGGGTATATTGTGTAATGCTGAGGTTTAGGCTTATTATCCCTTCACCCAAGTAGCGAACAAAGTACCGGATGGTTTTTTCA
ATCCCTACCCCCCTATCTCCCTCCCCACTTTTGGAACCCCCAGTGTCTATTGTTACCATCTTTGTGTTTGTGCATACCCAGTGTTCAGCTCCCA
CTTACAAGTGAGAACATAGGGTATTTGGTTTTCTGTTTCTGCATTAATTCGCATAGGGTAGTGGCCTCCAGCAGCATCCATGTTAGTGCAAAGG
ACATAATTTTTTTCTTTCTGTGACTGCGAACAAGATTAGTCTTCAGTTGATAATTGTTTAAGCTAGATAATGGGTACATGAGCGTTCAATATTC
TCTTTTGTTTGTGTTTTTAAATTCCCATGATAAAAAGCTTTTTTTTTTTTTTTTTAAACTCTTAGATTTCTGGTTTTGGTCCTGCAAATTTCTC
TTAAGTTCAAATTTTTGGAAAAAGAATTTACTTTAAAACAAGGTTACTTACGCATTCTGATATGTCTTATCTACTTTTTTTTTTTTTTTGAGACG
AAGTCTTGCTCTGTCATCCAGGCAAGCCCAGACTGGAGTACAGTGGCGGGATCTCAGCTCACTGCAACTCCGCCTCCTGAGTTCAAGTGATTCT
CCTGCCTCAGCCTCCCAAGCAGCTGGATTACAGGCACCTGCCACCATGCCGGACTGATTTTTGTATTTTTAGTAAAGACAGGGTTTCACCATGG
TGGCCAGGCTGGTCTCGAACTCCTGACCTCAAGTGATCTGCCTGCGTCAGCCTCCCAAAGTGCTGAGATTACAGTCATGAGCCACTGCACCCGG
ACTGTCTTAATTTTCAGCTAAATGCCTCTTTCTTAAATTTAGTTGGTAAAAATTTATTTTTGATAATACATTGGATTTTAAATGTTTACCTTTT
ATTATCATTTTTTCTAAACCTGCAAGCTAATCAAACTCTTGTTCAACTCCTTTGAGATCTTAATTTCTGTAATATCTATGCTTTTTGTTTCCTG
GATAAAAATGTGTTTATAGCTTTGTAATCCAATGTATAACCAATATTAGTTTTCTGAAGATGAGTATCCTGCTACTTATGAAGCTTCCTAACTG
TAAATACTAAGTTGACTTTTTTGGTTTAGTTTTTTTATAACTTAACTCTTAACTTGCCTCATTGGCTTGAATGCATTTCCATCACATGGAATCA
CTTATATTTTTACTTTAGGTACTTGCTACAGCCAAGAGACAATGGAAACAAGTCATCCAAAACTGATGACCTGGGGTCTCTTCGATTAAATATA
TGTTATACAGAAGACTACGTGCTTCCTTCAGAGTACTATGGTCCTTTGAAAACTTTGCTGCTAAAATCACCAGATGTTCAAGTATGTTAAGAAT
CTTAAGGATATGATTTAACACGAAACGGCTAAAATAATTCTATAAATGATAAGGAAAAGATTTCAAGAGTATCAAGTCTTATTAAAACAGTAAA
AATTATATACATACATATATATACACACACACATTTCTATTTATCTGAACCAGAGTACTATGATTCCTACATGTGCTCCCACAATCATCTCTGA
TAAAAAATTTCGAAAATTAAATGTCCTGTATAACAGCTTTAGTGACATTATTTCAGTTACTTTTACAGGCTAGTGATTGAACAGTTAATCATGT
TTCCTTGATGTTTGTGCTTGTTTTCTACCTTTCTGTATTTAGCCAATATCTGCCTCAGCTGCTTACATTTTGAGTGAAATATGTCGAGATAAAA
ATGATGCTGTTTTGCCCCTTGTACGACTGCTGCTGCACCATGATAAACTTGTTCCTTTTGCCACTGCTGTGGCTGAATTAGACTTGAAGGATAC
ACAGTAAGAGTTATATTTTATTAAATGTTAATTACATGTTGTTGAAATTGGACCTTAGTTTGACAGATTGATTTTGTAGTCTGAATTTTTTTGT
ATTGATCAGCCTTACTGTATAGTAGGCTGAAAAGAAGTACTTAACAAATAACAAAAGGCAGTTAAGCTATCAAACAGTATTCACCTACCTTAAG
GACAACAATTAATGAAGGATGTTTTTCTTTAACTCAGGAAATTTCATTTGTTACTAATCTGCTTCTTAGTGTAATGGTTCACGTGTCACAAGTT
AAAACACCAGAGCAGAAGTGTTTTTTTCTTTATTCATTATGTATCACCCTTATATGCATATGTATGACATTCTAAAAAGCAGTCAAGTGACTTC
TCATTCACGTCATAGTCTAACACTGTTGTTTTTTTACACACAGAGACATATACTCCACATTTTTGGTTCATAAACATGATTTGCCTTTTT
AAAAAAACATATATATATATATATATATATATATATATATACACACACACACACATATGTATTGAGTTTTTTGTTTGTTTGTTTTTAAGACA
GAGTCTCGCTTTTTCACCCAGGTTGGAGTGCAGTGGCATGATCTTGGCTCACTGCAGCTTCTGCCTCCTAGGTTCAAGCGATTCTCATGCCTCA
GCCTCCTGAGTAGCTGGGATTACAGGCACTCGCCACCACGCCCAGCTAATTTTTGTATTTTTGGTAGAGATGGGGTTTCACCATGTTGGCCAGG
CTAGTCTCACACTCCTGACTTCAAGCGATCCACCTGCTTCGGACCCCCAAAGTGATGGGATAACAGGCATGAGCCATCACACCTGGCCATTATT
TTAATATATTTTTGGTAAGTTTGAAAAACCTAATGGCAGCAAGCTTTTAAATAAATGGTAAAAATTACTAAAATTGTAGGTCACTTATGCCTTC
TAGTATGTCTTAATCTATTTCAGCTAAATGCTTCTTTCTTAAATTGGTCAAGTATGTTATATTATTGGTTTCAAAACCTTTGTTTACTACATTT

GGTTTCATCTATTTCTATTTCAGAGATGCAAACACAATTTTTAGAGGAAATTCCCTGGCTACCCGATGTCTGGATGAGATGATGAAAATAGTGG
GAGGGCACTACCTGAAAGTAACATTAAAACCTATTCTTGATGAGGTACAGAATATATCTCCAACAATGATAGTTTGTGGCCTTATGATAGTTGT
TCTTTTATCAAGTGATCTATTGATGGGAAGGATTTATTCATTCATGTGTTACTGAAAAAATAGACTGAACACTTTAGAAGCAAATTATTTACTT
CTCTGTCAATGGATTTTTACTCAAAAGGTACAGTATAGTATAATCTACATTATTTCTTTGTTATGGGATTTCTATTTTAGCTAGAGTTTCAAAT
ATATGACAAATACTTTTTGATATCATGTTTTAAGAAAATTGTATATGTTATCCCTGCATAGGACATTTTACGCTTTGCTACAGTTTAAATTTCT
ATAATTAACTTTTATTATCAGAAAAATAAGTTATTTTCATTTTGTCAGACTACTTAGAAAAAAATCATTAACTGAAAAATTTATTTTTCAGATA
TGTGACTCCTCAAAATCCTGTGAAATCGATCCTATTAAATTGAAAGAGGGAGATAATGTAGAAAATAATAAGGTAAGTCCTTGTTATATTATTT
ATAATTGCATTAAAATTGGTCTTAATGGTGTACCTTTCTCCCACTTACATTATGATAAAGCCATATAGAGGGAAGCAGTGCTGTTTATTCTTCA
CATAAGCCTTTATTATTAGCAGCACTTCCAGCTCCTAGGATTAGTTTTTAGAATGTTATTTCCTCAGTGGTTTCACTTTATTTTTGTTCTTGAT
TGTCTCTTTTTGGCTCTAGTAACAATAGTGAACTTAAGCTATAGCTAGTTGCAGCCCCCGTTCTAGCCATTCCTTTGGGCTCAAACTGATCAGG
CTAAGTGACACAGTGACTTTATCAGTCAGTAGTTTCAGTGGCCTCTGAAAAAACAATGATTGTGTTAGGGTCACAAATTTTTATTGCAGTGGAT
AATAGTGTCACAATGTCCTTGTGCTTGTGTATCCGAGTTATTTTGTGATTTCCTTTTGGATCATTTTATTCCCTCTTGCTTCTTGTGAGGTTTA
TTCATAGATTCACCTCTTACGCCTAGCAAATCTAAATTTAATTTATTAAATTAAGTCA

HUMAN SEQUENCE - mRNA
ATGGCGGCGGCGGCGCCTGCTGCTGCGGCGGCTTCTTCCGAGGCGCCAGCGGCGAGTGCGACTGCAGAGCCCGAGGCCGGGGACCAGGACAGTC
GCGAGGTTCGAGTGTTGCAGAGCCTGCGGGGCAAGATCTGTGAAGCAAAAAATTTATTGCCATATCTTGGACCCCACAAAATGAGAGATTGTTT
CTGTACCATAAATTTGGACCAGGAAGAAGTTTATCGTACCCAAGTTGTGGAAAAATCTTTAAGCCCATTTTTCAGTGAAGAATTTTACTTTGAG
ATTCCAAGAACTTTCCAGTATTTGTCTTTCTATGTTTATGATAAGAATGTTTTACAAAGAGATCTCCGTATAGGAAAAGTAGCCATCAAAAAAG
AAGACTTGTGTAATCACAGTGGCAAAGAAACTTGGTTTTCATTACAGCCTGTTGACTCCAATTCAGAGGTTCAGGGTAAAGTTCACCTTGAATT
AAAACTGAATGAACTGATAACGGAGAATGGAACTGTATGCCAGCAGCTTGTTGTACACATCAAGGCATGCCATGGGTTGCCTCTCATAAATGGC
CAAAGCTGTGACCCTTATGCAACAGTTTCTCTAGTGGGCCCTTCTAGGAATGACCAAAAGAAGACAAAAGTAAAGAAGAAAACAAGCAATCCGC
AGTTTAATGAAATCTTTTATTTTGAAGTAACCAGATCCAGTAGTTACACCAGAAAGTCCCAGTTCCAGGTAGAAGAGGAGGACATTGAAAAGCT
AGAAATCAGGATCGACTTGTGGAACAATGGAAACCTAGTCCAAGATGTTTTCCTAGGTGAGATTAAGGTTCCTGTGAACGTATTAAGAACTGAT
TCCTCTCATCAAGCCTGGTACTTGCTACAGCCAAGAGACAATGGAAACAAGTCATCCAAAACTGATGACCTGGGGTCTCTTCGATTAAATATAT
GTTATACAGAAGACTACGTGCTTCCTTCAGAGTACTATGGTCCTTTGAAAACTTTGCTGCTAAAATCACCAGATGTTCAACCAATATCTGCCTC
AGCTGCTTACATTTTGAGTGAAATATGTCGAGATAAAAATGATGCTGTTTTGCCCCTTGTACGACTGCTGCTGCACCATGATAAACTTGTTCCT
TTTGCCACTGCTGTGGCTGAATTAGACTTGAAGGATACACAAGATGCAAACACAATTTTTAGAGGAAATTCCCTGGCTACCCGATGTCTGGATG
AGATGATGAAAATAGTGGGAGGGCACTACCTGAAAGTAACATTAAAACCTATTCTTGATGAGATATGTGACTCCTCAAAATCCTGTGAAATCGA
TCCTATTAAATTGAAAGAGGGAGATAATGTAGAAAATAATAAGGAGAATCTGCGCTACTATGTAGACAAGTTATTCAATACAATTGTAAAATCA
AGTATGAGCTGCCCCACTGTAATGTGTGATATCTTTTATTCTCTAAGGCAGATGGCTACTCAGAGATTTCCTAATGACCCTCATGTTCAGTATT
CTGCAGTGAGCAGCTTTGTATTTCTTCGTTTCTTTGCTGTAGCCGTAGTATCACCTCATACTTTTCATTTGCGACCTCATCATCCAGATGCACA
GACAATTAGAACATTAACTCTCATCTCAAAAACTATACAAACTTTGGGAAGCTGGGGGAGTCTGTCCAAAAGCAAGTCAAGTTTCAAAGAGACA
TTCATGTGTGAATTTTTCAAAATGTTTCAAGAAGAAGGATATATTATAGCAGTTAAAAAGTTCTTGGATGAAATTTCATCTACTGAAACTAAAG
AGTCCAGTGGTACGAGTGAGCCTGTGCACCTGAAAGAAGGTGAGATGTATAAAAGAGCTCAAGGAAGAACTCGGATTGGAAAAAAGAATTTTAA
GAAACGATGGTTCTGCTTAACAAGCAGAGAGCTCACCTACCACAAACAGCCAGGCAAAGATGCAATCTACACAATCCCAGTAAAAAACATTCTT
GCTGTGGAAAAACTGGAAGAGAGCTCTTTCAACAAGAAAAATATGTTCCAAGTAATACATACGGAGAAACCACTCTATGTCCAGGCAAATAACT
GTGTAGAAGCTAATGAATGGATAGACGTACTCTGCAGGGTGAGCCGATGCAATCAAAACAGGCTCAGTTTTTATCATCCCTCTGTGTATCTAAA
CGGAAATTGGCTCTGCTGTCAGGAGACTGGTGAAAACACTCTCGGCTGCAAGCCATGTACTGCAGGTGTCCCTGCAGACATCCAAATAGATATT
GATGAAGACAGAGAAACAGAAAGAATTTATTCCCTTTTTACCCTCAGTTTACTTAAGCTGCAGAAGATGGAAGAGGCTTGTGGAACTATTGCAG
TCTATCAAGGACCACAGAAAGAGCCTGATGATTATTCTAACTTTGTAATCGAGGATTCTGTAACAACCTTTAAGACAATTCAGCAAATAAAAAG
CATAATTGAGAAGCTGGATGAACCTCATGAAAAATATAGGAAGAAAAGATCCAGTAGTGCAAAATATGGGAGCAAGGAAAATCCAATTGTTGGG
AAAGCATCTTAGAGTTTAACAGATTGGTTCAGAAGAACTGGAAAATATTATTTT

HUMAN SEQUENCE - CODING
ATGGCGGCGGCGGCGCCTGCTGCTGCGGCGGCTTCTTCCGAGGCGCCAGCGGCGAGTGCGACTGCAGAGCCCGAGGCCGGGGACCAGGACAGTC
GCGAGGTTCGAGTGTTGCAGAGCCTGCGGGGCAAGATCTGTGAAGCAAAAAATTTATTGCCATATCTTGGACCCCACAAAATGAGAGATTGTTT
CTGTACCATAAATTTGGACCAGGAAGAAGTTTATCGTACCCAAGTTGTGGAAAAATCTTTAAGCCCATTTTTCAGTGAAGAATTTTACTTTGAG
ATTCCAAGAACTTTCCAGTATTTGTCTTTCTATGTTTATGATAAGAATGTTTTACAAAGAGATCTCCGTATAGGAAAAGTAGCCATCAAAAAAG
AAGACTTGTGTAATCACAGTGGCAAAGAAACTTGGTTTTCATTACAGCCTGTTGACTCCAATTCAGAGGTTCAGGGTAAAGTTCACCTTGAATT
AAAACTGAATGAACTGATAACGGAGAATGGAACTGTATGCCAGCAGCTTGTTGTACACATCAAGGCATGCCATGGGTTGCCTCTCATAAATGGC
CAAAGCTGTGACCCTTATGGAACAGTTTCTCTAGTGGGCCCTTCTAGGAATGACCAAAAGAAGACAAAAGTAAAGAAGAAAACAAGCAATCCGC
AGTTTAATGAAATCTTTTATTTTGAAGTAACCAGATCCAGTAGTTACACCAGAAAGTCCCAGTTCCAGGTAGAAGAGGAGGACATTGAAAAGCT
AGAAATCAGGATCGACTTGTGGAACAATGGAAACCTAGTCCAAGATGTTTTCCTAGGTGAGATTAAGGTTCCTGTGAACGTATTAAGAACTGAT
TCCTCTCATCAAGCCTGGTACTTGCTACAGCCAAGAGACAATGGAAACAAGTCATCCAAAACTGATGACCTGGGGTCTCTTCGATTAAATATAT
GTTATACAGAAGACTACGTGCTTCCTTCAGAGTACTATGGTCCTTTGAAAACTTTGCTGCTAAAATCACCAGATGTTCAACCAATATCTGCCTC
AGCTGCTTACATTTTGAGTGAAATATGTCGAGATAAAAATGATGCTGTTTTGCCCCTTGTACGACTGCTGCTGCACCATGATAAACTTGTTCCT
TTTGCCACTGCTGTGGCTGAATTAGACTTGAAGGATACACAAGATGCAAACACAATTTTTAGAGGAAATTCCCTGGCTACCCGATGTCTGGATG
AGATGATGAAAATAGTGGGAGGGCACTACCTGAAAGTAACATTAAAACCTATTCTTGATGAGATATGTGACTCCTCAAAATCCTGTGAAATCGA
TCCTATTAAATTGAAAGAGGGAGATAATGTAGAAAATAATAAGGAGAATCTGCGCTACTATGTAGACAAGTTATTCAATACAATTGTAAAATCA
AGTATGAGCTGCCCCACTGTAATGTGTGATATCTTTTATTCTCTAAGGCAGATGGCTACTCAGAGATTTCCTAATGACCCTCATGTTCAGTATT
CTGCAGTGAGCAGCTTTGTATTTCTTCGTTTCTTTGCTGTAGCCGTAGTATCACCTCATACTTTTCATTTGCGACCTCATCATCCAGATGCACA
GACAATTAGAACATTAACTCTCATCTCAAAAACTATACAAACTTTGGGAAGCTGGGGGAGTCTGTCCAAAAGCAAGTCAAGTTTCAAAGAGACA
TTCATGTGTGAATTTTTCAAAATGTTTCAAGAAGAAGGATATATTATAGCAGTTAAAAAGTTCTTGGATGAAATTTCATCTACTGAAACTAAAG
AGTCCAGTGGTACGAGTGAGCCTGTGCACCTGAAAGAAGGTGAGATGTATAAAAGAGCTCAAGGAAGAACTCGGATTGGAAAAAAGAATTTTAA
GAAACGATGGTTCTGCTTAACAAGCAGAGAGCTCACCTACCACAAACAGCCAGGCAAAGATGCAATCTACACAATCCCAGTAAAAAACATTCTT
GCTGTGGAAAAACTGGAAGAGAGCTCTTTCAACAAGAAAAATATGTTCCAAGTAATACATACGGAGAAACCACTCTATGTCCAGGCAAATAACT
GTGTAGAAGCTAATGAATGGATAGACGTACTCTGCAGGGTGAGCCGATGCAATCAAAACAGGCTCAGTTTTTATCATCCCTCTGTGTATCTAAA
CGGAAATTGGCTCTGCTGTCAGGAGACTGGTGAAAACACTCTCGGCTGCAAGCCATGTACTGCAGGTGTCCCTGCAGACATCCAAATAGATATT
GATGAAGACAGAGAAACAGAAAGAATTTATTCCCTTTTTACCCTCAGTTTACTTAAGCTGCAGAAGATGGAAGAGGCTTGTGGAACTATTGCAG
TCTATCAAGGACCACAGAAAGAGCCTGATGATTATTCTAACTTTGTAATCGAGGATTCTGTAACAACCTTTAAGACAATTCAGCAAATAAAAAG
CATAATTGAGAAGCTGGATGAACCTCATGAAAAATATAGGAAGAAAAGATCCAGTAGTGCAAAATATGGGAGCAAGGAAAATCCAATTGTTGGG
AAAGCATCTTAG

SAGRES DISCOVERY 02-13

TABLE 13

MOUSE NOMENCLATURE
ICSGNM Gata1
Celera mCG3964

HUMAN NOMENCLATURE
HGNC GATA1
Celera hCT10890

MOUSE SEQUENCE - GENOMIC
TGCCTATAGTTTCAGAGGCTGAGTCCATTATCATTGTGGAAGCATAGCAGAAGGCAGACAGGAGTTGGGGCACTATCTGAGACCTTGATATCCT
GATCCATAAGGCAAAAAGAGACACATGAGCTTTTGAAGCTTCAAAGCCCAGCCCAGCCCCAGTTGACACAGGTCCTCCAACAAGGCTACTCCTC
CTAATCCTTCTCAAATAGTGCCCTACCCCTTGATGGCTAAGTATTCAAATAGATGAGCCTATGGGCCATTCTTTTTTTTTTTTTTTTTTTTTT
TTTTAGTTTTCAAGACAGGGTTTCTCTGTATAGCCCTGGCTGTCCTAGAACTCAAACTGTAGGTAGACCAGGCTGGCCTGAATTCAGGAATCAG
CCTGCCTCTGCCTCCTGAGTACTGGGATTAAAGGTGTGCACCACCACTGCCTGGCTGGGCCATTGTTATTCAAACCACCGTGTGTGTGTGTGTG
TGTGTGTGTGTGTGTGTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNN

TGTTTTGAGAGCTTCCCACTTTAGCCTGGCCTTGAACTCAAAGTAATCTTCTTGTCTCAGCCTCCCAAATACCAGGATAACAGGCATGAGCCAG
GGTGCCTGATTTCCGATGCTTTCCTTGTGCATACTCATGTGTATTCAGATGCCCGTGAACGTGTCAGTGTGTTCACATGGAAGGCCAAAACTGA
TGTTGAATGTCTTCGCCAATCATTTTCCACTTTACTGAGGCAGGTTCTCAGGGAACCTGGAGCCTGTCGATTTGGACTAGTCTCACCTGCCACC
CTGTTCCAGGGATTCTGTCCCCATCCTTCTACTTGCTGGCATGATAGGTAGACAATATGTCTGTACCACTATGCTCTTGATGACTAGGGAGTGG
AGTCTTATGAAAGTCAAGGTTATGGGGTGTGGTGGTACACCCTGTTAAGTCCCACATCAGGCAGCTCACAATGCCTCTGCAGCCTGCGTTCAAG
GGGATCTAGTTCTCACTTCTGGCCTACACACACAGACACACAGACACACGGACACACAGGCACACAGACACACTGACACACTGACACACAGGCA
CACAAAGAAAAAAGTTATCTTTTAAAAACCAAAGTCAGTTGAGTGCAGTGGCATGTGCCTTTAGTCCCAGTGCTTGGGAGGCAGAGGCAGGAGA
ATCTCTGTGACTTCAAGGCTAGTCTGGTCTACTTAGTAAGCTCCAGGACAGCCATGGCTACACAGAGAGCTCCTGTCTCCAAAATGTTAATTAA
TTAAAAAAATAAAACTAAAGTAAAACATTTATTCAAGTACATAATTATTGTAAAGTTCTGAGACTAATTCCTTTACAACTATGGTTAAGTAAAC
AACTACTGACTTAGGTGTTCTGGGATATTTGAAATTCTACATATCTGTTGCTACACATATATACACGCACATACACATCTTGAGGCTAAATTAG
GATATGTGTCTAAGTTTTTCCAAGTGTTAGGCAAAAGTTTGTGTGTTAAAAGTGTGTAGGTTTAATACATTAAGGCAGTCAATAATATTCTCTA
AACATGATGCATTGTGTGAAAACCTTAAACACATCATTACTAAACCATCTGACATTTCTGCTGTATATTTAGTAAAATTCAGGATTATCGGCTT
GTTTTATTTTTAATTATGTGTCCATACTTAATTATTTGAGTATATATATATATATATATATATATATATATATATATATATATATATATATATC
TGTGTAGGAGCATTGTAGACATGAGTACAGGCCCTTGGAAGCCAGATCCCTCAGCTAAACCATCTCTCCAGCTCCTTGTTTTGTTTTATGAGAC
AGGGTTGTGTTACATAGTACTGGCTGATCCAGAACTTGCTATGTAGATCAAGCTTGACTAAAACTCACCACATAGTCAAAACTGGCCTTGAACT
CCTGGTTCTCCTGCCTCTACCTCCAATATACCATCATGCCCCAGTCAGGTGCCATTTGTATACTTCTCACACTTAAAATCTGGCCTGCAGCAAG
ATGTGGCAGCTTATATCCATGAGTCAAGCACACGCACCCCCAAGTCTGACACGAGAGGATCACCAGAAGTTGGAGGCCAGCTTAGGCTGGCCTG
TAGTGTATGGTTCTGTCTCAAAAGAGAAAAAAAAGGAGAAAAGGAGTAAAGAAAGTGTAAAAAGCTTTGGGCTAGGGGTACAGCTCAGTTGATA
GATCACTTGCCTAGCATGTGCAAGGCCATAGGTCTATTATTAAATCTGGGGGAATCACATCATGTACCCCAACTCAGGTGTGGCCATCTGTTGT
CAATAAGCTATTTAAAAGAGGCAAATTAAAAGTGAAAAGCAGAGCCGGGCGTGGTGGCGCACGCCTTTAATCCCAGCACTCTGGAGGCAGAGGC
AGGCGGATTTCTGAGTTTGAGGCCAGCCTGGTCTGCAAAGTGAGTTCCAGGACAGCCAGGGCTATACAGAGAAACCCTGTCTCGAAAAAACAAA
ACAAAACAAAACAAAACAAAACCCAAAAAGTGAAAAGCAAAAAAAAGTGATTTAGTCAATCAGGCCACATTGGGAAGAGGGATAAAGACCTCAA
TACAAGTGCTTCCTTCGAATAGCTTCAATTCTACCAGACCAGTCCCAATTCTACCAGACCAGTCCCAATTCTGAGCTGGCACATGGTGTCTATG
TCTGAAACAAAAGGATAAATACAGTGACCGTAGGGATGGCAGCTACAATATAGTGTGGGGTACCACACCTAAGAATCATTTTCCATGGCTCTTA
GTTACTGTTGGAAGGGGTGGGACAAGCAACTCCATTTCACTGGCTTGAGACAGGCTCCCATCAGGAGGTCTACACTGGCCTCAAATTTGGGATC
TGCTTGTGTCAGCTTCCCAGGCAAGTGCTACCATGCCTACTGTGACTTTATTTTCAGTCTGACCATCTCTCTACCCCCCATCTCTGAACAAATA
TTTTCTGAAGACATTGCTAATTGACCATCTGGTGGTTTGCTTTCCAAAGTCCCATGATGCCAGGCAAAGACTCCTTCTGGTTGGTCTGCTTTGA
ACCGCTTTGGGAGCGTAAATGAGAGATGTCAGGAGCTAGAACTAGTCAGCCTTTCAGGCCTGATTTAAACAACTGGGATATAGAGGGATTGGCT
CCGAGGTCAGGTACACCTGAGGTCCATTCACTTGTCCTGTGGCTAATGTCCTGGTGTCTCAAAAATGCTGTTCGGGTTCATTTGTCAAAAGCCT
GACTTCTGTAGAACGTTAACAGACAGTTCACTTATAAGGCTCTGCAAAACAGAGTTAGTGGGCTGGAGAGATGGCTCAGTGGTTAAGAGCACTG
ACTGCTCTTCTGAAGGTCCCGAGTTCAAATCCCAGCAACCACATGGTGGCTCACAACCATCTGTAACAAGATCTGATGCCCTCTTCTGGAGTGT
CTGAAGACACCTAGAGTGTACTTACATATAATAAATTAATAAATCTTAAAAAAAAAAAACAGAGTTAGCAGGTATTTCGCAACCAGTAACTATA
ACACAGTACACAAACACTAGTTGGGGCTGGNNNNNNNNNNNNNNNNNNNNGAAACTGAGTCTGGGATGGTGAGACTCAAAGTTCCTGAAAACAG
ACCCTTGTCCCCACCCACCTGTTACTCTTCTCAGAGGAAGCCAGTAGCTTTGGGGTGATTTCAAAAGTTGGGCGGGGATGGCAGAGATAAGCAG
TGTGGGGGCAGGAGTACTGACCCCCCCCCCATAGAACAGGGAGGAACTAACGGGGCCCACAGTCTGCAGACACAAGTGAAGTGGGGGAGGGGAT
AAAGCCGGAAACCACGGGGTTTCTGAGAAAGTCAGATGGCAAGATACAACAGATAGGGATGAAGTTGGGGAGCACAGAAGGGTGAACCCCAAAC
TCCTATGGGAGCTGTCAAGGGGTCCAAGGGATCTTGGTCCTGCATTCTGCCTCTGCAGAAGGAAAGAAAGGAAGGGGAAGAGAGAATAAAAAGA
GGAAATGGAGGAGGCCTTGAAGAATGGGAGAAAGAGAAGCAAAGGCTTGCCGGAGGAGGAAAGAGGAAGTTAGAAGGAAAGTAAAGGAGGA
AGGAAAGAGGAGACACAGAAAGAGGAAGAGAAATATGGTACATGAAAAGGAGGGACAGGAGGAAAGAGGTGCGAGGGAAGGGACCAACAGAGAA
AGGAAGGGAATACAAGACAGTGGAAAGAGGAAAAGGGGAAGAAAAGAGGGAAGAAGGAAGACCTGGAGAGACCTGGAGATGAGGAAGATGGGAG
GAGGGATAGGAGAGGAAGAAGAGGGACTCAGAGGCAGCAAACTGATGGAGTAGTAGAGGTATGACAGACAAGAGGCAACAGGAGGATGGGGAGA
GATCAGAGGAAAGATGGGAGAAAGGGACAAAGGATGATGGAAGAAGACAAGAGACATGACAGCCTAGGGAGGGATGGAAGGGAAGGGGAGAAAAA
TAATCTGAGAGCCCAAAAGGAGACACACAGAGTCTCAGTGACAGATTCGGAGAAAGAGAAAAAAAAGGAGGGAAGAGCCAGGCGGTGGTGGCGC
ACGCCTTTAATCCCAGCACTTGGGAGGTGGAGGCAGGCAGATTTCTGAGTTTGAGGCCAGCCTGGTCTACAGAGTGAGTTCCAGGACAGCCAGG
GCTACACAGAGAAACCCTGTCTCGAAAAAAAAGAAAGAAAGAAAAAAGAAAAGAAAAGAAAAGAAAAGAAAAGAAAAGAAAGGAAGGGAAGAGAA
TGTTTCTGTGTCTCACAACCCTTTCTGTCCTCACAGGTTCAACCCCAGTGTTCCCATGGATTTTCCTGGTCTAGGGGCCCTGGGGACCTCAGAA
CCCTTGCCCCAGTTTGTGGATTCTGCCCTGGTGTCCTCACCATCAGATTCCACAGGTTTCTTTTCCTCTGGGCCAGAGGGTTTGGATGCAGCAT
CTTCTTCCACTTCCCCAAATGCAGCCACGGCCGCAGCATCAGCACTGGCCTACTACAGAGAAGCTGAGGCCTACAGACACTCCCCAGGTAACTG
TTGGGTGGCTGCCTTGGCACTGGCTGGAAGCTGTCAGGGTTGCCATAGAGATGGTTAGCTAGTTCACAGTTCTGTGAGGTCATCTTGGAAAGAG
TTAGAAGCTCTGTGGATAGGTGTACCGCCCCATTTGTACCAATCCTCGTCTCTGTCTGCCATACTGTAGTGAGCACACGGAGAAGCCAGGCTGG
AAGTGTGTACGAAGCTGTCTTATTTGTCACTTGACCTGCAGCCTCTTGGTCTCAATATCAAAAAGGGATGGAGGGGATCGTCCTTGCTATAGTG
ACCAGAGGGACATAGAACTCCGAAGTCACCCAAGCAGCAAGAGACTATTGTAGGAAGACCAGAAAACTAGCCACCATGTTGGGACAGACGAACA
CCATTTCACTGTAAAAGTAGGACTACCTAAGGTTTGCTGTTCTTTCCTTTTCCTCTCTACCCCTTCAACAGTCTTTCAGGTGTATCCACTGCTC
AACAGTATGGAGGGAATTCCTGGGGGCTCACCTTATGCTAGCTGGGCCTATGGCAAGACGGCACTCTACCCTGCCTCAACTGTGTGCCCCAGCC
ATGAGGATGCCCCTTCCCAGGCCCTGGAAGACCAGGAAGGGAAGAGCAACAACACGTTCTTGGACACCTTGAAGACGGAGCGGCTGAGTCCAGA
CCTCCTGACGCTGGGGACTGCACTGCCTGCATCGCTCCCTGTCACCGGCAGTGCTTACGGGGGAGCTGACTTTCCCAGTCCTTTCTTCTCTCCC
ACTGGGAGCCCTCTCAGCTCAGCAGCCTATTCTTCCCCCAAGTTTCATGGAAGCCTGCCATTGGCCCCTTGTGGTGAGGCTTTCAAAAGGGAC
CAGGAGGTTGAGTTGGGCTAGGTGGCTCAAGACATAGCTAAGCTGACCGAGCCTTGCTTCCTTTTCTCTCCATCTACCAGAGGCCAGAGAGTGT
GTGAACTGTGGAGCAACGGCTACTCCACTGTGGCGGAGGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNCAGTGGTGGTGCATGCCTTTAATCCCAGCACTTGGGTAGGCAGTAGGCAGGTGGATTTCTGAGTTCAAGGCCAG
CCTGGTCTACAGAGTGAGCTCCAGGAACAGCCGAGGCTACACAGAGAAACCCTGTCTCGAAAAACCAAAAAAATTTAAAAAAGACTTATTTAAG
AACGCCACCTGGGCTGGTGAGATGGCTCAGTGGGTAAGAGCACCCGACTGCTCTTCCGAAGGTCCGGAGTTCAAATCCCAGCAACCACATGGTG
GCTCACAACCATCCGTAACAAGATCTGACTCCCTCTTCTGGTGTGTCTGAAGACAGCTACAGTGTACTTACATATAATAAATAAATAAATCTTA
AAAAAAAAAAAAAAAAAGAACGCCACCCAACTCATACTGGTCCCGGCACTATTATACTTGCCCTCTTCCTTATCCTTTCCCCATAGGGACCATCC
ATCCCTTTCCCATGCAGGAACCCCGCTACCTACCTAGAACTCCCATCCAAGGCCAGGAATTTTTACAGCTTCCCCAAGGGATTCTTGTGTTTGT
TTTGTTTTGTTGTCTGATTTATTGATTGATAGATTTGGTTTGTTTTTTGTTTGAAATGGGGCTTTGCTATATAGCCCTGGGTGGCCTGGAGCTA
TGTATACGATACTGGTTTTTAATTTGCTATGGTCCTCCTGTCTCTGTCTCTTGAGTGCCAGGGTTACACCCCTGTCTTCCTCCAAGACATTCTG
ATATGTGGTCAAAGTCTAAAACTAGAGATAGAAGAAGTCTTGCATAGCTATAGAAAAGAAACTCCTTGCTGGGCAGTGGTAGTGCATGCCTTTA
ATCCCAGAACTGGAGACAGAGGCAGGTGGATCTCTTGTGAGCTCAAGGCCAGCCTGGTCTACAGAGAAAATTCCAGGAAAGCCAGGCTACACAG
TGAAAGCCTGTCTTGACAGATAAATACACAGATACATAGATACATAGATGAATAAACTTCTTATCCCAGATAGGAAGCCTTTCCTTAATAGGAC
TCTCATCCCTTAAGCTCTTTTCTCAGGCCCTGTAAGGCCCTGTCCCCGAATCCTACCTCTCCCCTACCCCCAGCACTAATCTCCTGTCCTTTTA
TTCCTCAGATTGTCAGCAAACGGGCAGGCACCCAATGCACTAACTGTCAAACGACCACTACAACACTCTGGCGGAGGAATGCCAGCGGAGATCC
GGTATGCAATGCCTGCGGCCTCTATTTCAAGCTCCATCAGGTATGCTATCCTCCATGTTGCTTCCTGTCCTCCAAGCACACTCCCGGCTCCTCA

TCCAGCCCTCATCTACCTTGAGCTGTCTTCCTCTGCCTTTGCTTCCTCCCTCTTTGCTCCTCTTTCTCTTCTCAGAAGTTGTGTACTTGCGCCT
CCTTGCCCAATTTCCACGGCTTCCACCTCAAGCCTCCTTCCATCTGTCCTCTCTTTCCTCCTTGCCACCTCCCGTGATTTGAGTCTTGGCTACC
TCTTACCAGTGTAGGAGGATATTCTGAGCTGAGATCAGGGCCACACACAAGCACAGGTCTCACCTCCCTAGCACACCCTGGGTATATTACTCTA
GCCATTGAACTAATTCCCCATTCTTAACAAAGTGGTGTTAAGAGACTGTCCCTAGCCCAGCTACATCAGCACAAAGGGCTGGAGCTGGTAACCC
CTGTGGTGGTCTCCGTTTCTACAGGTGAACCGCCCACTGACCATGAGGAAAGATGGAATCCAGACGAGGAACCGCAAGGCATCTGGCAAAGGGA
AAAAGAAGCGGGGGTCGAATCTGGCTGGAGCGGGAGCGGCTGAAGGACCAGCTGGTGGCTTCATGGTGGTAGCTGGTAGCAGCAGTAGTGGGAA
TTGTGGGGGAGGTGGCCTCAGGCTTGGCACTGGGCACTGCAGGTACTGCCCACCTCTATCAAGGCCTAAGACCTGTGGTACTGTNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NN

AGAAAGAAGAAATATTTACTTGTGCTGGCTGGGTTTTCCCCATGATTTATTTATTTTTACTCACATTACGTCCCCATCTGCAGCACACCCTCTT
GTTCTTGGTGGTCATCCCATGGTACTGGCATCTCCAAAACTGCTGGGGTCTTGCACTACAATTGGGCTGCACTTTCACCAATAGGTTCTGTTCA
CGGTGCCAAGCCTCAACTTCTCTCCATGACCCCATCAATCTTGGGGCTTCATTTGCTATGGAGGCTGCACTTTCAGCAATGGCCTCTCCTGGCT
CTCACAGTGCTAGGCGTCAGCTGCTCTCCATGAACTCTCTACGCCTTCAAACCAGTACCACCTGGGTGACTCTTACACTGCCAAGTTCAGCTGA
TAGCGCAAGGTACAAACTTGGCTGCCTCTGGAACATAGCTTTTAGATTTCACCTTGACAGTGCTGGTCGTCTCCTCTACCTCCTCCTCCTCTC
CTCCTCCCCCTGCTTTTCTTTCTCTTCCTTCCTTTTTCTTTTTCTTTTGCCCCGTCTGTCCTGGAACTCACTCTGTAGACCAGGTTGGCCTC
AAACTCAAGAGATCCACCTGCTTCTGCCTCCCTATTGCTGGGATCAAAGGCATGGACCACTTCCACCTGGCATTAAGATTTTTTATTTTTGTGG
ATCTGTGTAAGTACACTATAGCTGTTTTCAGACACACCAGAAGAGGGCATACGATCTCTATAGATGGTTGTGAGCTACCATGTGGTTGCTGGGA
TTTGAACTCAGGACCTCTGGAAGAGCAGTCAGTGCTCTTAACTGCTGAGCCATCTCTCCAGCCCTCTGGTCTCTTCTAAATCACCATTAATTTC
TCATCTACAGATGAGCAGAACTGAATATCCCAGCAAGACAAAGGATTCACTTAAGCAGTTGTGCTAGCTTGTTAAATCTTCAGCCCCTACTGAC
CAGAACCATGGAATATTAATTCAAAACAACAAATGGCCCCAGTAGTGTCTTTAAACTTCTCCCTGTCACTTCACAAGCCAGGTCTCTATCCTCG
GCATTGCTCTCAAAAGTCTCATCTTCCAACCTTTTACAGAACAGCTCATCAAGCAATGAACACCCTCCCCAAAACAACATGGCCAGGGTTGTCA
CAGCAATGCCCCGCTCCTAACACCAACTTGTCTGAGTTAAGGTTACTATCTCTGGGATGGAACACCATGACCAAAAGCAACGTGCAGAGGAAAG
GGCTCATTTCACTCACAGTTCCACGTGATAATAGGTAATCATCAAAAGCAGTGAGGACAGGAACTCCTAGGGCAGGAACCTGGAGGCAGGAGCA
GATACAGAGACCATGGAGGGTGCTAATTACTGGATTGTTCCTCATGGCTTGCTCAGCTGCTTTCTGAAAGAATCCAGGACCACCAGCCCAGGAG
TGGCGCCACCCACAATGAGCTGGGCCCTCCTCCTCAATCACTAATTAAGAAAACGCCTCAGGAGAGGCCTGCAAACCCCAGGCCAGAACAATAG
ACCATCGCCCTTCCCACTATCAGAGAGGCTCTATTTAGCACCTGATGGGAGCAGATACGGAGACCTGCAGCGAAAAATTAGGCACCTCTGGAAA
CCCCAGGGAAGAGGGGGAGGACAAGTTGTAGAGGTCAGAGGGATCAAGGATTCCAGCAGGACACTGCCCACGGAATCAGTGAAGCAGGGCTCAT
AGGGGCTCAAAGACACCGAACCAACAACCAGGAGCCTGCATGGAGTTTGCTAGACTCTCTGCATATGCTACGGTTGTATAGCTTGGTGTTCTTT
CTCGACTCCTAACAATGGGAGCAGGGGCTGTCTCTGACTTTTTTGCCTGCTTCAGGGACCCTTTTCCTCCTACCGACTGGCCTGGTCCAGCCTT
GATGTGAGGGTCTGTGGCTAGTCTTACCGCATCTTGTTATTGCGGTGTTTAGCAGGTATCCGTGGAAGGCCTGTTGTCTTCTGAAGGGAAAATG
CAGGAGAAGTGGATCTGGGAGAGAGGGGATTGGGAAGGGGTGGAGGGAGGGCAAACTGCTTTTGAGATGTAATGTAGGAGAGAAGAAGAAAAAA
GATTGATACAAATAACTGTCCTCTAAGTACCCAAGAATAGAAACGTAACCATTTAGAGAGGGGCAAAGAAAGCCTTACAGGCCTGCCTACAGCC
TGATCTTACGGAGGCATTTCTTTGCTTTTTGTAATTTTGCTAGTTATGATAGATAATGTAAATATTTTTAGAGAGAGAGGGTTGTCTAAGGGGG
TCATAACCCGCAGGTTGAGAAGTACTGTTTTAAGTTGCTGAACTAGAGAGATAGATGCCTTCAGTGCTTGAGTCCCAGCACCCACATCTAAAGG
CTCACAAACACTTCTCACTCCACCTCCTGGAGGATCCAGTGTCCTTTCTTGCCTCCTTAGGCATACACACAGGCAAAATCCATGAAGTATGCTG
GGCATGGTGGCACATGCCTTTAATCCAGCACTTGGGAGGCGGAGGCAGAGGCAGAGGCAGAGGCAGAGGCAGAGGCAGAGACACATGCATCTCC
GTAAGTTGGAGGCCAGTCTGGTCTACATAGTTAGTTCCAGTACAGGTGGGACTGCATGGAGAGACCCTGTCTCAACAAATAAGTAAACAAGTAG
CAGAGGAAGATGGCGGCCGCCTTAGCTGTTCGTGGAGCGGGATCTGCAGTGGTCTTTGGGCCTGAGGCTCTCACCCCAGACTGGGAAAACTGAG
AAGTCTCCACAGGGACCATGATCATGGCTTTGTAATTTAATGGAGGCGTGGTTCTAGGAGCAGACTCCAGAATAACACTGGGTTTTACATCGCC
AATCGAGTGACTGACAAGCTGACCCCTATTTATGATTACATCTGCTGCTGCTCAGGCTCAGCAGCTGATACCGGAGCAGTAGCAGATGCTGTCA
GTTACCAGCTTGGTTTCCACAGTATTGAACTGAACAATTCTCCACTAGTACACATGGCTGCCAGGCTCTTTAAGGAGATGTGTTACCGGTGCAG
AGAAGATCTGATGGCAGGAATCATCATTGTAGGCTGGGACCCTCAAGAAGGAGGGCAGGTGTCCTCTGTACCCATGAAGGGTATGATGGTAAGA
CAATCTTTTGCCACCGGAGCCTCCGGAAGCTCATACATCTATGACTATGTTGGTGCTATCCATCCTGAAGGCACGACCAAGGACGAATGTCTGC
AGTTCACTGCCAATGCTCTCTCTTTGGCTAGAAAACACGAAGGCTCCAGTGGAGGAGTTATCCGCTTGGCAACCATTCAAGGATCAGGGGTAGA
GCGGCAGGTGCTTTGAGGAGACCAGATCCCCAAGTTTACCACTGCCACTTTGTCACCTCCCTGAAGCCTAGATGCAAAAGCTAATAAACAGTGT
TAAAGAAAAAAATAAGTAAACAAATATAATTTTTAAAACAAATGGTTGGCTGGGTGGTGGTGGCGCATGCCTTTAACCCCAGCACTTGGGAGGG
AGAGGCAGGCAGATTTCTGAGTTCGAGGCCAGCCTGGTCTACAAAGTGAGTTCCAGGACAGCCAGGGATATACAGAAAAACCCTGTCTCAAAAA
CAAACAAACAAACAACAAAAAATACCAAACAAACAAACAAAAAACCCCAAATGGTTGTTAAGCTGGGCAGTGCTGGCACATTCCTTTAATCCCA
GCACTTGAAAGGCAAAGGCAGGTGAATTTTTGAGTTCGAGGCCAGCCTGGTTTATAAAGTGAGTTCCAGGACAGCCAGGGATATACAAAGAAAC
CCTGTTTCAAAAAAAAAAAAAAAA

MOUSE SEQUENCE - mRNA

ACTCGTCATACCACTAAGGTGGCTGAATCCTCTGCATCAACAAGCCCAGGTTCAACCCCAGTGTTCCCATGGATTTTCCTGGTCTAGGGGCCCT
GGGGACCTCAGAACCCTTGCCCCAGTTTGTGGATTCTGCCCTGGTGTCCTCACCATCAGATTCCACAGGTTTCTTTTCCTCTGGGCCAGAGGGT
TTGGATGCAGCATCTTCTTCCACTTCCCCAAATGCAGCCACGGCCGCAGCATCAGCACTGGCCTACTACAGAGAAGCTGAGGCCTACAGACACT
CCCCAGTCTTTCAGGTGTATCCACTGCTCAACAGTATGGAGGGAATTCCTGGGGGCTCACCTTATGCTAGCTGGGCCTATGGCAAGACGGCACT
CTACCCTGCCTCAACTGTGTGCCCCAGCCATGAGGATGCCCCTTCCCAGGCCCTGGAAGACCAGGAAGGGAAGAGCAACAACACGTTCTTGGAC
ACCTTGAAGACGGAGCGGCTGAGTCCAGACCTCCTGACGCTGGGGACTGCACTGCCTGCATCGCTCCCTGTCACCGGCAGTGCTTACGGGGGAG
CTGACTTTCCCAGTCCTTTCTTCTCTCCCACTGGGAGCCCTCTCAGCTCAGCAGCCTATTCTTCCCCCAAGTTTCATGGAAGCCTGCCATTGGC
CCCTTGTGAGGCCAGAGAGTGTGTGAACTGTGGAGCAACGGCTACTCCACTGTGGCGGAGGGACAGGACAGGTCACTACCTGTGCAATGCCTGT
GGCTTGTATCACAAGATGAATGGTCAGAACCGGCCTCTCATCCGGCCCAAGAAGCGAATGATTGTCAGCAAACGGGCAGGCACCCAATGCACTA
ACTGTCAAACGACCACTACAACACTCTGGCGGAGGAATGCCAGCGGAGATCCGGTATGCAATGCCTGCGGCCTCTATTTCAAGCTCCATCAGGT
GAACCGCCCACTGACCATGAGGAAAGATGGAATCCAGACGAGGAACCGCAAGGCATCTGGCAAAGGGAAAAAGAAGCGGGGGTCGAATCTGGCT
GGAGCGGGAGCGGCTGAAGGACCAGCTGGTGGCTTCATGGTGGTAGCTGGTAGCAGCAGTAGTGGGAATTGTGGGGAGGTGGCCTCAGGCTTGG
CACTGGGCACTGCAGGTACTGCCCACCTCTATCAGGGCCTAGGACCTGTGGTACTGTCAGGGCCTGTCAGCCATCTTATGCCTTTTCCTGGACC
TCTGCTGGGATCGCCTACAACCTCCTTCCCCACCGGTCCTGCACCTACCACCAGCAGCACCAGCGTGATCGCCCCACTCAGTTCTTGAAGGTAC
ACAGAATAGCCTTGACCTTGTGGCAGAGGAGACCCCCCCTTTTTTTGGAGACAGGATCTTCTGTAGCTATGTAGCTATGAACTATGTAGATAAG
GGTGACCCCACATTTCCCATTCTCCTGCCTCTACCTCCCGAGTACTGAGATTCAGGCATGTATTGCTATGCCTGACATTTTCCTTCCTTTCAGT
TTTGTTTTGTGGGGTTTGTTGTTGTTGTTTTGAGACAGGGTTTCACTATGCAGCCTAGGCTGGCTTTGAATTCCTTATGTAGTCCAGACTAAGC
TCCAGCTTGAGATCCTTGTGCCTCAGTTCCTGAGTGCTGGGATTACAGGCATGTGCTACCGTGCCCGTTTCTCCCTCCTCTTAGAGCCACTGGC
CTTTACAGCCCAACCATCTCCTTGCCCTGCACCCTTAAAGATTTTGTAAAATAAAACCACCTGGAGACATGCGCTGGTATTTGGTTAAATAAAT
GTCAGTGTCAAGTGGAGCATG

MOUSE SEQUENCE - CODING

ATGGATTTTCCTGGTCTAGGGGCCCTGGGGACCTCAGAACCCTTGCCCCAGTTTGTGGATTCTGCCCTGGTGTCCTCACCATCAGATTCCACAG
GTTTCTTTTCCTCTGGGCCAGAGGGTTTGGATGCAGCATCTTCTTCCACTTCCCCAAATGCAGCCACGGCCGCAGCATCAGCACTGGCCTACTA
CAGAGAAGCTGAGGCCTACAGACACTCCCCAGTCTTTCAGGTGTATCCACTGCTCAACAGTATGGAGGGAATTCCTGGGGGCTCACCTTATGCT
AGCTGGGCCTATGGCAAGACGGCACTCTACCCTGCCTCAACTGTGTGCCCCAGCCATGAGGATGCCCCTTCCCAGGCCCTGGAAGACCAGGAAG
GGAAGAGCAACAACACGTTCTTGGACACCTTGAAGACGGAGCGGCTGAGTCCAGACCTCCTGACGCTGGGGACTGCACTGCCTGCATCGCTCCC
TGTCACCGGCAGTGCTTACGGGGGAGCTGACTTTCCCAGTCCTTTCTTCTCTCCCACTGGGAGCCCTCTCAGCTCAGCAGCCTATTCTTCCCCC
AAGTTTCATGGAAGCCTGCCATTGGCCCCTTGTGAGGCCAGAGAGTGTGTGAACTGTGGAGCAACGGCTACTCCACTGTGGCGGAGGGACAGGA
CAGGTCACTACCTGTGCAATGCCTGTGGCTTGTATCACAAGATGAATGGTCAGAACCGGCCTCTCATCCGGCCCAAGAAGCGAATGATTGTCAG

CAAACGGGCAGGCACCCAATGCACTAACTGTCAAACGACCACTACAACACTCTGGCGGAGGAATGCCAGCGGAGATCCGGTATGCAATGCCTGC
GGCCTCTATTTCAAGCTCCATCAGGTGAACCGCCCACTGACCATGAGGAAAGATGGAATCCAGACGAGGAACCGCAAGGCATCTGGCAAAGGGA
AAAAGAAGCGGGGGTCGAATCTGGCTGGAGCGGGAGCGGCTGAAGGACCAGCTGGTGGCTTCATGGTGGTAGCTGGTAGCAGCAGTAGTGGGAA
TTGTGGGGAGGTGGCCTCAGGCTTGGCACTGGGCACTGCAGGTACTGCCCACCTCTATCAGGGCCTAGGACCTGTGGTACTGTCAGGGCCTGTC
AGCCATCTTATGCCTTTTCCTGGACCTCTGCTGGGATCGCCTACAACCTCCTTCCCCACCGGTCCTGCACCTACCACCAGCAGCACCAGCGTGA
TCGCCCCACTCAGTTCTTGA

HUMAN SEQUENCE - GENOMIC
AGCAGCTTTCCATCTCTGCTGTGACTGCAGGCCGTATTTGTCACATTCTTCTCTGCTTATTTTATGTTTTACAGCAAGATTCTCTGCAGTCATT
GCCATGGGGAGCTGGACATGCTGATCTGTTAATCCTATCCATAAAGAATCTTCCAGCTTGATATCTGATCCAAGCTTGGTTCCAAAACACACAT
TTCTGACACAGTAGGGAGCTTGGCTCATGCTTTTGGTTCCTCCGCATAAAACAACTTCAGCTTCTTTAACACAAATTTCCTAACACCTATTCAC
AGTGGACTGAAAACCAGAACCACAGAGCCTATTAATCGTGAGAGCTGGGGTCTCCTTTGGGATTCCCACACGCAAACCAACATGCCTTGCCAAA
AAAATATGGAACGCTTCACGAATTTGCATGTCATCCTTGCGCAGGGGCCATGCTAATCTTCTCTGTATCGTTCCAATTTTAGTATATGTGCTGC
CGAAGCAAGCATGGAGATGATTTTTTTAAAATGGTTAGATTCTGGAGATATTTTGAAGATAGGGACTGGATGAGTTCAACAAAAAAGAGGATGT
CAGCTAGAGAAGAGGCCTGAGGACATTTTGGGTTCTAAAACAAGAGAAGGGACAGACAGATGAGTCAGGCAAGTGGGAAGGGAAGTGTGTGGAT
TCCTGAGTGAAGGAGTGATGGATGGAGGAGCATGCGTGAGAGTCTCCTGAAGTAAAGGAGCCCCTGGTCTTCTGGACTCTGGTCGCTAAATAGT
CTTCAGACGGTAGTTCAGCCAGACCCTGTGACTGAACCGCCAAGGAGCCCCAAGAGTGCTGCGAAGAGAGGGAGTGTGAGGATATGAGTTTTAG
CAAGTAAAAGGCTTTCCTAAAACCTGTAGCATTTTCTGGCAGTGGAAAAAAAGAGGAAAGGGGTTTTCTGCCTCATTCTAAAAGACAATTTGCC
ATGGACCCAGACATTATATGCCTGAAGATGGATGATTTATGGATGAAAGGAAAGAGAAAATGAAGGAATAGAAGAAGGAAGGAAGGAACAGATG
GGTGGATGGGTGAGTGGGTAGGTAGATGAATGAATGGGTAGATGCTCTGATATTTCCTCCCTCCTCCCCCGAGAAACTCCTTCACAGGTGTGCA
CAGAGAGAGGAATATGAGTTTATGAATTGCAGATTTGCTATAATAGGGAAAGAAACTAGAAACAATGCAAATGTTCATCAACAGATTAGTGGTT
AAACAAAATGTGGTATATCCATTCCATGGAATATTACTTTCAATAAAAGGGAACGAACTTATGAGGCCAGCATTACTCTGATGAGAAAACTAGA
CAAAGATATCACAAGAAAAACTACAGACCAATATCTAAGTATAGATGCAAAAATCCTCAAAAAAATACAAGTAAGTAGAATCCAGCAACATATA
AAAGGATTATACACCACGGCCAAGTGGGATTTATCCCAAGAATGCAAGGTTTGGTCAACTAATGAAAATCAATCAATATAATGCATCATATTAA
CATAATAAAGAACAAACACCACATGATCTTTTCAGGAGATGCAGAAAAAACATTTGACAAAATTCAACATTCCTTCATGATAAAAACACTCAAC
AAACTAGGAATAGAAGAGAACTTCCTCAACCTGATAAAGGACATCCACAAAAAACCCACAGCTAAGATCATACTTAATGGTGAAAGTTGGAAAG
GAACAACACAAGGATGCCCCTTCTTACCATGTCTTTTCAACACTGTATTGGATGCTCTACCTGGGGCATTAGGCAACAAAAAGAAATAAAACGT
ATCCATATTGGAAAGGAAGAAGTAAAACTATCCCTATATGCAGATGACATGATCTTATACATAGAAAATGTTAAGGAATCCACCACGAAACCAT
TAGAGCCCCATTAGTGCATAACCATTAGAGCAAGGTTGCAGGATATAAGATTTTGTATCATATATGCTAGCAATTAACAATCCAAAAGTGAAAT
TAAGAAAACTATTCCATTTACAATAGCTTCAAAATGAATAAAATACTTAGTAATAAAATGAATGAAAGAAGGGTAAGACTTATACACTGAAAAC
CATAAAATATTATTGAAAGAACTTAAAGAAGACCTAAATAAATGGAAAGACATCACATGTTCATGGATTGGAAGACTTTATAGTGTTAAGATGG
CAATACTCCCCAAATTGATCTACAGACTTGATGCAATCCCTATCAGAATCCCAGCTTGCTTCTTTGCAGAACTGACAAGCTGATTCACATGGGA
GTGCTAGGGGCCCAAAATACAACAATCTTGAAAAAGAAAACAAAGTTAGAGGACTCACACCTTCCAGTTTAAAAACTTACTATACAGCTACAG
TAATCAAGACCATGTGCTACTGGCATAAAAACATACATATAAATTAACGAAATAGAATTGAAAGTCCAGAAATAAATTCATACATTATAGGCAA
CTGATTTTTTTGAGACAGGGACTTGCTCTGTTGCCCAGTCACAAACATAGCTCACTGCAGCCTCAAACTCCTGGGCTAAGCGATACTCCCACAT
CAGCCTCCCAAGTAGCTGGGACTACAGGCATGCACCACTGTGCTCAGCTAATTTTTAAAAAACTTTTTGTAGAGACAGGGTCTCAATGTGTTGG
ACAGGCTGAACTCCTGGGTTCAAGTGATCCTCCCACGTTGGCCTCCCAAAATGCTGGGATTACAGGTGTGAGCCACTGTGTCCAGCTAGCAATT
GATTTTTGACAAGTGTACCAAGACCATTCAATGGGGAAAGAATGCTCCTTTCAACAAATGGTGCTGAGACAGCTGAGTATCCACATGCAAAAGA
ATAAAGTGGGACCCCTTCCTCATACCATATACAAAAAACAACTCAAAACAGATCAAAGACCTAAATGTAAGAGCTAAAACGATAAAACTTTTAG
AACGGGGGTCCCCAACCTCCAGGCCACAAACCCATCTGTGGTCTCTTAGAAACTGGGCCACACAGCAGGAGGTGAGCTGCGGCTTGCTGCCATT
CATGAAGCTGAGCCCGCCTCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNN

GTTTGTTTCTGAGGGCAAACGCTTGACTCCTTAACCAGGCTTTGGTTGACATTTGCCTTGGTGCTTTTGACACCACAGTCTGTCAGGCTCTGTC
CCCACCCTGATGGGCTCCACAGTACAGAAGAGGCACAAACAGTACAAATGCCATGGGGCCTGGACCAAGCAGGGGCTCTAGAACCCCAGAAGAT
GCCAGGAGGGAGTGAGCCAGTCAGGGAAGGCTTCCGAGAAGAGAGGACATTGAAGAAGAGTCTCAAACTTAGGCCTGACGGAGAAGACGCGCGG
CCAGGACACCCCACCCCCGCCCTCGTCTCCCCCAAAGCCTGATCTGGCCCCACTGATTCCCTTATCTGCCCACTCCCAGCTGCCTCCTTGCTGG
CTGAACTGTCGCCGCAGACTTCTGAGCCTGCGCCCCCTCCACGGGGATGGGGGAGGGAATGGGGTGAGGCCTGGCCTCACAGCCTCGGGGTTTC
CAGCTCTTGCTGGAGGCAGGGCTCTGGGGCGCCCTACTCCTCACCCTTGGCTTCTCTTCCTGAGCGCTCTGTGCTCTCCAGAAATGAAGAAATG
GGGTGAGTCCAGCGGCCAAACCCTTGTCTTAGCTCTTAGACATGCCTCGAGCCTGCCATTCCCTGTGAGGACAGATTTCCCTATGTTGCGACCG
CTGCTTCTAATAATAATAATGATGATGATAATTCCCATTTACAGAGCACACCATTTATGGTGTGCCAGCAGGCCCTGTGCTGAGTGGTTCCTAC
CCACGTGGGGGGCTAGGACTTTACCCGTTTTCCAGATGAAGAAACTGAGGCTCAGAGGGCGTCTGGCCCAGGAATCACACAGCAAATCACACAG
CAAATCAGAGTTGAGACAAGAACCCAGGGCCCTGGAGGAACATCTTCATTTCCACACACCTATGTAGAACCAGTCTGGAGGTGAGGGCAATTAT
ACACACTTGCACCACAAGGAGCTGGTGAGAATGCGATAGAATTATGGGTGGAGAGCGCTTAGCACAGTGCCTGGGGTCACTCAGCAAATAATGC
CGCTGCTGTTATTATTAGTCTATTAATGCTATTATTAATATCAGAATTAAACAAGCCTCGGCAACATAGCGAGACTTCATCTCTATTGAAAAAA
AATTTTTTGCTGGGTGTGGTGGCATGCACCTGAAGTCCCAGCTCCTCAGGAGGTTGAGGTGGGAGGATCACTTGAGCCCAGGAGGTGGAGGCTG
CAGTGAGCCAAGATTGTCACTGCACTCCAGCCTGAGTGACATAGTGAGACACTGTCCCCAAAAAATATTTAGTACGTATCATTATCACTATTGT
TGTTAGAATTAGAATAGTTTTAGAATTAGTGTTAGTATTAATAATAGTATTAGTGTTAGATTAAAATTAGTATTAGCATTAGATGAGTATTACT
ATGAAAATTAGTATGTCCTCATAGAAGTAGAGAGTAGAATAGTGGTTACCAGCAGATGGGAGGGTAGGAGGCAGGGAGGGATGGGGAGAGGCTG
TCAATGGGTACAAAGCTACAGTTAGATAGGAGGCATAAGTTCTGGTGTTCTAATGCATAGTACAATGACTAGAGTCAACAATAAATGTATATTT
CAAAATAGCTGAAAGAGGCGTTCTCGAATGTTCTCATCACAAAGAAAAGATAAATGTTTAAGGTGATGAATATGCTAATTACCTTGATTTGATC
ACTACACAATGTATACATGTAACAAAACATCATGTTTTACCCCATATATATGTACAACTATTATGTGTCAATCATAAATTTAAAGAAATAAAAT
TAGTTTTAGTGTCAGTATCAATATTACAATATTGGTATTACTCTTAGTGTCAGCATATTATTAGCATTAGTACTATAAGTAGTAGTAGGGTTAG
AAAGGGCTATGTACTCTCCCTTGTATGCAGTAGGTACTCAATAAATAAATAGGGGTACTTAATATTTATTGAGATTTCAGATTCAAGTAAGTTA
AGATCATGTAACATGGGTTAAAACTCATTTAGTCTCCCCAGTCACTGCATGGAGTGGCTTATTGGGGTATATTATTACCCCATTTTTACAGATG
AGGAGCTAAATTCCAGAGGGGATGGTAACTCTCCCAAGGTCACCTGATCCATTAGTGGTTAGGGCAGTCTATGAACGAGGATGAGCTGGCTCTA
GAGACCATCTCCTGAAACCACTGCCACTTAAGTCAGAGGTGTCTTTGTATTCGTTCTCCTTATTACTGATGAGGGTTCAGCATGGGGCGTGGCA
CACCAGCAGGAGCTCAATAAATAGGAATTCATGGGCTTGCTCTCTTTCCTCCTCAAATCTCCCATTGCATATGAGGACACTGAGGCTCAGAGGA
GTGAGATAAGAATGGTAAGATCCCTCCAGGGTGGGCCAGTGGGCAAGCTGACCCCACTGACCTGGGGCTCCACCCTTGGCCTCTGCCCTTTGTA
GGTCTCAGTCTCCCCATCTGTAGACTAGGTGGGCAGGACAGCTCCTTGTCCCACGTGTGCATGTGTGTCAGATGCTTTCATATAGAAAAAGTGC
TCAGGTTAGGTACAAGTCTATGTGAGGTCTATGAGACACTGTGGTTGTTGTCATTAATATTTGGAGGAGGTGGGGCAGGGCAAGAGTGTGGGGA
CTGGGGTGCGGAGGCCTAGCCACATTCTGGTTGTCCCCTGCTGAGGGCTGAGGGCAGAGCCACAGGCTACATCAATCCACATCCTCCCATCCTA
CCTGCATGGGCACCACATGCCCAGGGTGTGATCCAGTCTGCCTGGACCTTCTTCTGAGTCTGTCTCTGAATATCCCTCTGTCTCTGTCTCCCTT
CTCAGTTCTCCACTTCTGTCTTTGGCCTCTTTCCCTTTCAGGTTTTATCTGTCACTTCTGTCCATCTCTGTCTCTCATTCTCTCTTTGCCTCTC
TCTATATGTCTTTAATGGTCTCTGGTTCTCCCCGGGTGTCTCGCCCTCTTTGTCTCTCCTTTTCTTTTGTGCCCTCTCTCTGCCTCTTTCCACG
TCTGTCTCCTTCTCTATTCATCTCTGTCACTCTCTTTCTCCCCATTTCCATCTCTCTCCGCCTATCTCTGTTTTTGTTTGTCTCTCTGCCTCTG
TCTCTCCCACTCCACCCCTTTCCTTTCCTACCCTATCCCACTCCTCGAGGAATCATCCCTGGCTCCCACCTCAGTTTCCCGCCTCCAAGGCAGC
ATGGCGGGCAAGAAGTTGAGGCCACTGTCCCTGGGTGTTCCTACCCCCACACCCTCACCCCAAGACAGCCTGTTACTGCGGCGCCAACAGCCAC
GGTCGCCTACATCTGATAAGACTTATCTGCTGCCCCAGGGCAGGCCGGAGCTGGCGTAAGCCCCAGTGGGGCGCTAAGTGAGTGTGCCCCTGCC
TCCCGCCAGCACTGGCCTGGCCTGCAGGCTTAGCCTGGGTCATCAAGGTATCCCACAGGCTCTAGTTCAAATCCAGCAGAACCTCTCTGAGCCT
CACTCTTCTCACCTGCAAAATGGGTACAGCCACATCCCTTCTCTCCCTGCAGCCAGGAAGACGCACATACACAGGAGTCTAGCCCACACCGGCC
CCGCACAAATTAAGGGCTTTACTCTCTGAAAAGCCCAGTGAAGTCATGAAACCATATCTGCTATTTTCATTTATCTTGGTTTCAGCCTATTTTG
CTTGTCTGGACACTACAGTCCACGGGAGCCTAGGTCGAGCGAGGTCCAAGAATCCCCAGGGTGGGCAGGGAGGGTGGAAGAGGGCCTCCAGTGC
CCAAGAGGTGCCCCACAAGCATGGGACCCGCCCCCTCCCCTGGACTGCCCCACCCACTGGGGCACCAGCCACTCCCTGGGGAGGAGGGAGGAGG
GAGAAGGGAGGGAGGGAGGGAGGGAGGAAGGGAGCCTCAAAGGCCAAGGCCAGCCAGGACACCCCCTGGGATCACACTGAGCTTGCCACATCCC
CAAGGCGGCCGAACCCTCCGCAACCACCAGCCCAGGTCAGTCTCAGCCCCCAGAGAGCCCCCACCAAGGCAACCCTGGGCCTGCTGCCCCTACC
CTTATGCTTGCTCCAGGCTCCCCAACCCACAGCTGGTCCCCAAAGTGTCAGCCAGCCCTGAATCCCTTTACAGCTCCTCCAACCCACCTGTCTT
TCCAACTCCCATTTCTACCCCAAATCTACCCCCTAAACCCCACCTCTTTCTGCCCTCTCATCCACTCCGTCCAAGATATCTATATCCTCTGGAT
CCCTTCACTTTGCTCGCTATACCCCTAGGTCTGTCTCCCCTAAACACTAACTCTGTCTCCCAAAACATGACTTTATCTCCCCAAATCCTTTCCC
TGTCCCATATCTGATTTCCACTCACCCAAACTTGTCTCTGTCTCCCTGACTTCTCCTCCAAACCTCACTTTTCTGCTCCCAAACCCCTTATCTG
CTCTACAACGCCTTGTCTTTGCCCCACTCTCTCTGAGCCCCCAAACCTGTCTCTGATCTGCCAAACCCTAGCTCCATCCTCTTACCACCATCTC
TGCCTTTCAAACCCACTCTTTGTTCCCAATGACTTCTCTCTGATCTCCGCAAACCATTTATCTCTCCCAACTCCCTGCCTGCTCAGTAAAATAT
CTTTGTCACTTCAAACACCAAGTCAACTCCCCAAAATCTGTTCTGCCGCATGAACCCTCATGTCTGCCTTCCCCAAACCGTATCTCAGCCCTAA
AACACATCTCATTGTCTCCCTGAATCTCTCCAGCTCCAAGCCTTTCTCTACTCCAATTCTATCTTGGCTTCTCAAACTCCCCTTTACTAGCCAC
ATTCTGTCTGCCCAAACAGATCTTTGACTCCTAAACTCCATCTCTCCTCCAGAAAAACCCTTGAACTCCCCAGACTTTTCTATGACCCTCAGAA
TCTGACTCCCACACTACTTCTCAACTTTATTTCTGACTCTCAAACTTCGCCCCGATCCCCCAACCTCGTCTGTTTTCACAACCTATTCCTGAGC
CCAAAATGTGTCTCTGAACTTCCAAGCTCGTCTCTGCTCCACAACCCCGCCCATATCTGCCTCCCCACAAACTCCATGGCTACACCCCAAACCT
CTCTGACTTAACCCCATATCTGACCTTCAAATTCCACCTCTATCTCCCCCTAAGCCCCATATCTGCCCCCTAGACCTTATATCTGCTCCCTTCA
GCCCGGTGAGACCCTCCCTTGAGGGCTGGGATTGGAACGTTACCTGGGGTGAGGGGCTGGGGCCGAGGGAGAGTGGAGGGTGCCAGCTGCTGCC
TGCTGCCGCCGTTGGGGCAACACTTACTCTAGTGGGGCAGCTGATAAGGAGCTTTCATATCCCCCAGCCTCGAGATAAACTTTATCTCTGTCCG
GAGAGTGATAACTGGGGGTGAGGAGGCTGGGCCCCTGCCATGGGAGGGGTGGGCAGCCCTGGACTCACCAACGTGTGAGGTGCAGGGGTTGGGG
GCAGTGGGGCTGGAGGGAGATCATGGTGGGTAAGGTGGAGTTGAGGGGATGAGGAATAGTGGTGAAAGAGTGAGCAGAAGACACACAATGAGA
CAGGGAAGAGAGAGGGAGAAACAGGGAGAGATGGGAAGAGAGAGACAGAGACACAGAGACAAAGAGCAAGAGACAAAAGAGACATGAAGAGAAAGG
AAAAACAGAGAGAGAGAAACTCAACGAGTAAGAGACAGAGACAGACAGATGGCCGGAGAAAAAGAAGGAAAGACCCGGGAGCAGAAAAGGAGAT
AGAAATGCAGAGATACACGCAGGTAGCACTGTGAAGAGGCAGAGACTAACACAGAATTAGAGACAGAGAGGAAAGAGATGGAGACCAAGATGGG
GAAGCAAAACACTCTCTTCAGAGAGCAACAGCAGGCACCCTGGGGCTGAGAAGGTGTTGGCGGTGGGCACACTTGTGGCCCATCTCTTTCCTAG
CATAACTCCCAAGCCTGGGCCTGCCCCTTAGCCTGTCTATACCATGGGTCATGTAAGCAGGAGTGAGGGGCAGTTTGAAGACAGCCTTCTAGTC
TAGCCCTGTCACTCCACCCTACAGACACAGAAACAGAGCAGGCCAGCACAATAGGGCCAGGGCCAGCATTCCAGGCTCCTTATCCTGAGCTGCA
TGTGGCTGGGTACGGTCAGGGGTATGGGACTAGTAAGAGGCACGTGGACATAAGGTCAGAGGGCCCAAAGAGAGGGAAACAGAGGGAACAGACA
AACAAGCAGGAAGAGTGGGAGAGATGCAGAGATGTTCAGAGAGATAGGAGAGGAGGGAGAAAGCAAGAGTAACAGAAAGAGAGAGCCAGAGA
GAGAAACATGGGAAGACAGAAAAGAAGACAGAAAATCATCAAACATTACAAAAGCACAGAAAGAGGTCGGGCGCAGTGGCTCACGCCTATAACC
TCAGCACTGTGGGAGGCCGAGGTGGGCCGATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGCAAAACCTCGTCTTTACTAAAA
ATACAAAAATTAGCTGGGTGTGGTGGCATGTGCCTGTAATCCCAGCTACTAGGGAGGCTGAGGCACGAGAATCACTTGAACCTGGGAGGCTGGG
GTTGCAGTGAGCTGAGATCGCACCACTGCACACCAGCCTGGGTGACAGAGTGAGACTCCGTCTCAAAAAAAAAAAAAAAAGAAAAGAAAAGC
ACAGAAGGAGAAGACAAGCTATATCATAGAAACACAGAAAGCTGGGGAAGCTACAGAGTCAGACTTGAGAGGGAACAGAGAGTCAGGGGAAAGA
GCCCCAGGGGATAGAGAAGTGGAGAGCTAGATGACAGACACACACAAGGCAAAACAGGCAAAGGGCCATCCCACAGGTCTCAGCTCAGCCCCAG

CCCATCACCACCCCCAATACAGCAGATGGGGAAACTGAGGCCTGGGAACTGAAAGAGCCTGAAAGCAGAACTCTGGTGGGCCTCTCCAGGGGAG
AGGGTACCGGTAGAGGTACCTCCCACCTGCCACCCTCTTCAGAGGAAGTCAGTGGCCTTGGGGTGATTTCAAAAGTTGGGCGGGGAAGGCAGAG
ATAAGCAGTGGGGGGTACTGACCCCCCCCCCAACCAAGAAGTAGGGAGGAACTAAGGGGGCCTTCTGTCTGTAGACGCAACAGAGGTGGAGGGAG
GAGGGAGTCAAGCCCGGAAACCATGGGGTTTCTGAGAAAGTTAGAGGGCAAGATACAACAGATAGGGATGAAGTTGGGGAGCAGAGGATGGTGA
ACCCCAAAGTCCTGGGTGAAGTGACCAAGAGGCAAGGGACTCTGGTCCTGCATGCCATCCCACCCTCACCCAGACTCTTCTAGAGGGGGAGGGA
AGAAAGGACGGGGGGACGGGGAGAATAAGAGGAAGTGGAGGAGGGGAGGAGAGGAGATGGGGAAAGGGAGAAAAGGATGAACAGAAAGGGAGG
AGAAGGATGAAGAAATTGGAGGGGAGGAGAAAATGAGTAGTAGGAGAAAGGAGTGGAGAGTAGATGTAGACAGGGGAAGAGAGGCCGGAAGTGG
TGGCTCACACCTGTAATCCCAGTACTTTGGGAGGCTGAGGTGGGAGGATCACTTGAGGCCAGGAGTTCAAGACCAGCCTGGGCAACAGAGTCAT
ACCCCATTTCTACAAAAAAAAAACAAAAACTAGCCAGGCCTGGTGGCACACACCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGGATCA
CTGCCGGGAGGCAGTGGTTGCAGTGAGCCGAGATCGTGCCACTGCACTCCAGCCTGGCAACAGAGGAGACCCTGCCTCAAAAAAAAGTGTGTGT
GGATGGGGGAGAGGGAGATAAGGTGTGTGAGAAAGGTAGAAAAGGAGAATGAAGACAAAAAGAGAAGGAGGACAAGGAAGAGGGGAAACAGGAA
AGGAGAAGGAGGAGGTCAAGGAGGAAAAGAAGAAGGTGGAGGAGAAAAAGGAAGCAGGAGAGAATGAGAAAAGAGTGGAAAGAGAAGGAAATGG
GGAAGAGGGGGGCAAAGAAGAGATGGGAAGAAGAGAGACGGGAGAAAGACAGGAGGAAAAGGGAAGGGGGGAAGAAGAGAGAATGGAAGGAA
GAAGGGAGAGGTAGAAGCAGATGAGAGTGGAGGAAGAGCGAGAGGAGGGAGGAGAGGAAAGACAAACGGCAAGAGGGGGAGAACGAGGAGGAAG
ATGAAAGGAGGGGCACACAGGAGTGGAACGGGGAGATGCAGGAGGGAAAAGAGAGGAGAGGGAGGAAGAGAAGGAGGGGAAGGAGAGGGGAGAC
TAAGGTGAGGAGGAGGGGGGAATGGGGAGGTGGGAAGGAGAAATATGGAGACTGAGGTGATGGAGTGGGAGGAGGGGGAAAGGAGGGAAGAGGA
GCAGGTGAAAGGAGGTGGGGGGGAAGGATTTCTGTGTCTGAGGACCCCTTCTGTCCTCGCAGGTTAATCCCCAGAGGCTCCATGGAGTTCCCTG
GCCTGGGGTCCCTGGGGACCTCAGAGCCCCTCCCCCAGTTTGTGGATCCTGCTCTGGTGTCCTCCACACCAGAATCAGGGGTTTTCTTCCCCTC
TGGGCCTGAGGGCTTGGATGCAGCAGCTTCCTCCACTGCCCCGAGCACAGCCACCGCTGCAGCTGCGGCACTGGCCTACTACAGGGACGCTGAG
GCCTACAGACACTCCCCAGGTAACTCCATTGAGTGGCTGTCTTGGCATTGGCTGAGTGCTGTTGGGGTTGCCATGGAGATCCTTGGCTAGGTCA
GAATACCACTGTGAGGATATCTCAGAAATGGCTGGAAGCTTCTCAAATGGATGTGCCGACCACTTTCCCTAGTTAAGTGCAGACCTGGGAATTC
CAATGCTCCTCAACCTGCCATATTGGGGCGGCCACACTGAGAGGCAATACTGGAAGTATGTGGTGGTTGCCCTAGTTGTCGAGTGATCCGTGGA
GCTCCAAATCCCAACAGTCATCCTCAAAAACCCACTTGGAAATGGTCAGAGGTTATTGCAGAGGCCACACTGACCAGTGGGGGTCAGGATCCAG
GAAGCATCCAATGGCCAGCAGCTGTTCTGGTAGCCTGTGGAAAAGCTGGGAACTTGGCCACCATGTTGGGGGTGCTGGGAACCACTGCACCCTG
ACGTGCGCTGACCCTAGACTGATTTTGCCTCTTCTTTCCTCCATCCCTACCTGCCCCCAACAGTCTTTCAGGTGTACCCATTGCTCAACTGTAT
GGAGGGGATCCCAGGGGGCTCACCATATGCCGGCTGGGCCTACGGCAAGACGGGGCTCTACCCTGCCTCAACTGTGTGTCCCACCCGCGAGGAC
TCTCCTCCCCAGGCCGTGGAAGATCTGGATGGAAAAGGCAGCACCAGCTTCCTGGAGACTTTGAAGACAGAGCGGCTGAGCCCAGACCTCCTGA
CCCTGGGACCTGCACTGCCTTCATCACTCCCTGTCCCCAATAGTGCTTATGGGGGCCCTGACTTTTCCAGTACCTTCTTTTCTCCCACCGGGAG
CCCCCTCAATTCAGCAGCCTATTCCTCTCCCAAGCTTCGTGGAACTCTCCCCCTGCCTCCCTGTGGTGAGAAATTCAAAAAAGGACAGGGAAGT
TGAGGTGGGAGGGGTGGCCCAAAGTAAAGCTGAGCTGAGCCTAGCTCCCTCTTCTCCTCTCCACCCCACCAGAGGCCAGGGAGTGTGTGAACTG
CGGAGCAACAGCCACTCCACTGTGGCGGAGGGACAGGACAGGCCACTACCTATGCAACGCCTGCGGCCTCTATCACAAGATGAATGGGCAGAAC
AGGCCCCTCATCCGGCCCAAGAAGCGCCTGGTAAGACCACAGACCTGCTTCACCTTATACACAGGAACCCCTGTCCTCACCCTGTACAAGAAGC
CACATCTTCCCATTATATAGGAACGCTGTTCTCATGATTACAGGAAGCTACTGCAGGCCACCCTGTATGGGAACCCCTGTCCCAATATCACATG
GAAACCCTTGCCTTCATCCTACACAGGAAATCTCCTCATCCCATATGGAAATCCTTGCCCTCACCCTGCATGAGAACTCCTGCCCTTTCCTTG
TACAGGAACCCAGATCTATAGAAGCTCCTATCCTCAACCTACCCTTATAAGCTTCAAACAGAAACCTTTGTCCTCACCCTGCACACCAGTGTTT
TCGTCCTTGGCTTCACACTGGAATCACCCCAGGTCCCTTCTCCCAGATGTGCTGATGGAATTGGACTGGGATGCTGCTTGGGCATCAGGATATT
TTAGCTCCCCAAGTGATTCCGATACGCAGCCAAAGCTGAGAACCACCAATGTAGTCCCCCATAGAATACAGAACAAAAGAAACTTATACCAGAT
AGGAACCCCTGTACTGGCCCCATACAGAATCCTCAGGCATCACCCTGTAAACAAAGCCCTGCCTTCAACCTGACCCTCACTTCTTGGGTCCTCC
TGACATCCCCTGTGAGCCCCTTACCCCCACTTCCACATCCCCAGGGCACTGATCTCACATCCTGTCGTCCCCTAGATTGTCAGTAAACGGGCAG
GTACTCAGTGCACCAACTGCCAGACGACCACCACGACACTGTGGCGGAGAAATGCCAGTGGGGATCCCGTGTGCAATGCCTGCGGCCTCTACTA
CAAGCTACACCAGGTGACGCCCTGCCCCTTGGAGCCACCCCTCTGCTTTCCCTGTCTTCATGCCACACTGCCCCCCACTCTGTTCCTGTTCTAC
CTCTCTCTTCCCCCACAACCCTCTTTCCTCTTTCCCCTTTCCCTCCTTCCTCCCCCTTCCCCCATCTCTTCTACTTTCCCCCTTCCTCCATCTC
TTCTACTTTCCCCCTTCTCTGTTATTACCCTCCCTCCTTCCTTCTCCATTCCCTCCTCCTCCGCCCTCCTCCTTCCTCTCCTCTCCCCCACCTC
CAGGCATCAGCTAATGTCCAACCCCCTGCCCTAGACCTTGGGCAGCTCCTATCAGCCTTGGAGGCTTTCCTAAGCTCAGGGCCTCACAGCCTCA
GGATTCCTTGGACAATCTCAGCACCCAAAAATTATCTTACCCTGAAAGAAGTGGGGTAGAGAGGGTGTCCCTGGTTGACACAGAGAGGCAAAGG
TCTGGAGTTGGGGACACCCGCAGCCTCCTTTTTGGCAGGTGAACCGGCCACTGACCATGCGGAAGGATGGTATTCAGACTCGAAACCGCAAGGC
ATCTGGAAAAGGGAAAAAGAAACGGGGCTCCAGTCTGGGAGGCACAGGAGCAGCCGAAGGACCAGCTGGTGGCTTTATGGTGGTGGCTGGGGGC
AGCGGTAGCGGGAATTGTGGGGAGGTGGCTTCAGGCCTGACACTGGGCCCCCCAGGTACTGCCCATCTCTACCAAGGCCTGGGCCCTGTGGTGC
TGTCAGGGCCTGTTAGCCACCTCATGCCTTTCCCTGGACCCCTACTGGGCTCACCCACGGGCTCCTTCCCCACAGGCCCCATGCCCCCCACCAC
CAGCACTACTGTGGTGGCTCCGCTCAGCTCATGAGGGCACAGAGCATGGCCTCCAGAGGAGGGGTGGTGTCCTTCTCCTCTTGTAGCCAGAATT
CTGGACAACCCAAGTCTCTGGGCCCCAGGCACCCCCTGGCTTGAACCTTCAAAGCTTTTGTAAAATAAAACCACCAAAGTCCTGAAATTGTGGG
TGTGTCTATGTGTGGCTGAACAGCAGAGCTGAGTGGAGTGTGTAACAATGCCTGTGGCTCTCTGATGACAGTGCATGGCTGCAATGTGTGACCA
TGTGAGGCTGGCTGAGGCGGCACATGTGACACTTTGTGACCAAGGGTTATGTTGTGTGATTGGAACAATCTATGTGAAACTTCTTGTGAAGTGT
CCAGGTGGTTCCATATGTCATGGTAAGAGGCCACGCAGGGCTTGCTGACGGTGGGGGTGGTGCCGGGTGACTATAAGCACACTGGAAGTGTGTG
TGCTGGAGCAGGTGATAAGGAGGTGTGCGGGGCTGTGGTCTTGTGGCTGGGCATGACGCTGGGGGACCTTTGAGACGGCATGACGCTGGGGGAC
CTTTTAGACAGCATGACAGCATACGTGGTGGGCACAGAATCTGGTAAAGATTCTTGGAATGTTGAACAAGAAGTGTGTGTCAGGATGTGTTTGT
GGGTCTGGCGATGGCAATATTTCAGTGCAAGTCCCTGTGCATGGGCATGGGTGTGCGTGTGTGTGCATTACGTGTGGCATGTGCCATGTCACAG
TGTCTCTGAGTGGCTGACAACATGAGCAGCTCTGTGTACATTTGTTTGTGGAGGTCTCAACAGCAGAGTTTCAGAGGGTATAAGTTAGGGACTC
TCTTCCAAGGGACAAAAGACACATTCAGGAAAGGAACACGGAGAAGGGTGGAGCTGGAATGGTAGCTGGCAAGGTCAGAGGCCAGTGCTGGGGC
GCAGGGTTGTCCGTGGGTCTTCCTGTCGGACTGGTCTTATCTTGCTCAGCCCAGCTCAGCCTGCAGCCCTGTGGGAAATGGTAGAGAATGAGAG
GGGGAGATTAGGGGGACAAAGCAGCCCCTGGAGGTGGTTTCAACCTCAGTAGGTGGGGCGCTCCACACAGTGCCAACCCCTTCCCCAACATTCC
CACTCACCTGGGTGAACTGCTCCCCCCACAGCGGAGTCTGTTCCTCAATTTCACAAACACACAGGAGCATAATTCTGAGTCATGCCTTAAGCATC
CTAAGGCAGACTGCTTAAGTGGCTCAATGGAGGCCACACAGCCAGTGGCAAGGGGCCCAGCGGGGCAGTCTGGCCTGGTGTCCATGTGCTCAGC
CACACCCCACAGCCAGCAGCACCCTTTCCTAAGGGCTCACTGTGGGTCAGGCGGCAGGCTGGGAGGCTCCAGTTGCTTTAGTTCATTAGTGCCT
GAAATAAATATTCTGAGGAAAATATACCCATACTCATTTCACTAATGGAAGAGTGAGGCCCAGAACTGATGAGTAACTTACCCTGACCACCAAG
TTTAAGGAGTGGATTTTGGATGGGGTGACACACCCAGCCCAGCAAATAAGTGCTGCTCACACTTAACCGCTCTTTATGGCTTCTTCCCTAGAGC
CCCGGATATGGGGGTTGCAGGGACCCACAGGTCCTGACCATATTATAGGTAAGCAGCTGTCCTCCACAGAACACCAGCCCATCAGCTAGCGGGC
ATTCCAGCTCCACTAAGTAGCCTGCTGCAGAATCACAGGAGTCTATTATGCTCACTGTGGGCATTGTCCACAACAGCCCTGATCCCATAAAAGA
CACGTGTCTGGCCTCCCCTCAGAAGCCCAGCCCTCACACCCTGCAGGAGGCCCCATCCTCTAAAAACCCCCTTCAGAACCTGTGCTGGACACAT
GCCTGGCCCCACCTTGTTCAGGAGCCCCGGGCCTCACCCCCATAAGTATAGCTCCCCCAGCCTGGTACAGAAGACTAGCTCTGAAGCTCTAGGG
GAGCCCTTCATCTAATTATCGACAGGAAACCCATCCTGATCCTGTACAGGAATGCCAGCGCTTACCCTGAATAGGAGGAACCTCTGCCTAACCC
CAGCTAGGGACATCTGGACTAAGCTGTAAGGAAGCCCCTGCACACCCTGGACAGGAACCCTTGTCCTGACCATCCACACAAGCCTCAGTCTCCC
TATACGAATCCTGTCTTGACCTCAGACAGGAACACCTTTGTACTCACACTGCTGCAGTCCTGTCCTCCAGGTAGCATTTTAAAAACACCTCACT

CACAATAATCTGAGTAGTAAACCATGGACCCAGCTCTGTCTTTACAGAAATCCCTGTCCTCAACCTCTTCAAGGACCCTGACTGTGTGTGGAAC
CTCTTGCCTTCATTGTTGACAATGATCCCTGATGTTGCCCTGCACAACAATCCATGACCTCACACCCTATCCCATAGAGTCCACAGGAACCCAT
GATCCAACTCTCAACATGAACCTCAGTCTTTAACTTGTATAGAAAACCACTTCCTGACCTTATGGCAGGAATGCCTGTCTTGACCATTTACTTT
AAGCCCTGACCTCAGCCTATACAGGCACCTATGGCCTCACCTGATACAGGACCCCCCCTTCTCACTATATAGGTCGCATTTATTGATGCTGCAC
GAGGCTCCTGGGCCTTACCTTGTATTAGCTCCACTACCCTGACCCTCTACAGCAGGGGTTCCCAACCCCCAGGACACGGACTGGTACTGGTCCA
TGGCCTATTAGGAATTGGTCCACACAGCAGGAGGTGGGCAGCAGGCAAGCAAGCATTTACCACCTAAGCTCCGCCTCCTGTCAGATCAGCAGTGG
CATTAGATTCTCATAGGAGCACGAACCTTATTGTGAACTGTGCATGCAAGGAATCTAGGTTGCGTGCTCCTTATGAGAATCTAACTACTGCCTG
ATGAGCTGAGGTGGAACAGTTTCATCCCCAAACCATCCCCCACCATCCGTGGAAAGACTGTCTTCCACGAAACCGGTCCCTGGTGCCAAAAAGG
TTGGGGACCGCTGCTCTACAGGAAGCCTGACCCTAAAACTGTTCCAGGACTTCTGACTGGTCTCTGCAGAAAGCCTTTGTCCTGAACCTCAACA
GAAATCCTTTACTTTTACAGTAATTTATTTACAGGAATCTCTGTAATTTACAGGAATCTCTGATCTTTATAGGAACTCCTAGCTTTACTCTCTG
GAAATACACTGCTTACCCTGAACAGGAAGCTTAATGTGATTCTCTATAACAGCCTTTTCCCTGGCCTTGTCCCAGAAGCCCCACCTGCACCCTG
TACAGGAACCACTGCCCTGACCCAACAAAGAAACACCGACCTGAATCTCTGAAGGGGCAGTGTCCTAACTACACAGAGGATCTTTGTCCTGAAC
CCGCACAGGAACCTCTATTACCCCCAGCAGGAACCTGTGCCCTGAGCTAGCACAGAAAATCCTGCCCTTACACTCAACAGGAACCTTTGATTTG
CCTCTTTAGAGTAATCCAAAGAATGAACCAGTATAAAAAACCTCTACACTGTACAAGAACCTCTGTTCTGTACTTGTTAAACAACCCATAATCA
GAATCACCATGAATACCTGCCTGGAGACTGTACAGGAACCCCTGACCTAACCCCCAATGGAATCACCTGATCTGTCTGTCTCTAGTAACACAGC
TCTGATCCTGGACAGAAATACCTGGCCTGAGTACGCTGTGATCCTCTGGCCTGGCCGTCTACAGAAAACCACTCTCCTGGCCTCAAAAGGAACA
CCTAACCTTAATCTGTATGGGAAAAAATGCCTTCACAGTTTTCCCTCTCACTTTACAATGTCTCCAACCTTTGTATTTCCCTGCAAACCTGCCT
TACCAGGTAACAGAATCATTCTCCTGACCCCAGACAGGAAACACTAACCTGACCCAGAGATGCTCCTACCCCTACACAGTAAGAGTCCCTGTCT
CAATGCTTTAAAGAGAAATTTCTATAGCAGTGCTGTCCAATAGAAATATGTGAGTCACACGGGTAATTTTATATTTTCAATGTAGCCACATTAA
AAAGAGAAAAAAAAGATAAAATTATTTTCAATAACATCAATATACTTAACTTTACCCAATATATTCAAATATTATTTTAACATGTAATCAATAT
AAAAATTACTGAGCTATTTTAAACTTTTTATACTGAGTTTTGTGATCTGGTGTACATTTCACATTTATAGCACATCATCTCAAGTTAGACTGGC
CACATTTCAAGAGCAGTAGCCACACGTGGCTGGTAGCTACCATATAGGACAGCATAGGTCTGTGGAGTCTACGGAACCCTATAGCAGACACTGC
TATAAGCTCATTGAGACCTGTTCCTGTTCTTCCTGAGCTCACTCTACCTATTCCAGCCTCCTCTGCAGATAGATGTGGGCACATGACAGAGTTC
TGACCAATGGAGTATGGGCAAAAGTGACATATACCAGTTCCAGGCCTGACCCATAAAAATCTCTCATGCAATCCTCCATTTCCTCTCTTTCCCT
GTCTACCAACTGAAAACCAACTAACTCCAAGGACCTAGAGGAGGACAGAGTCACAAAATAGAGTTTGCCTGGGTCCATGAATGAACAGTAGTAA
ATATTCAGATTGGCTTTTGAATGAGCAAGAAATAAACATTTATTCGTTAAGCCCCTGAAATTCTGGGTTACAGCAGCTAGGATAATTTAGCCTA
ATTAATAATAATCTCTCCCCCTCTCTCTCTCTCCCTTTTTTTTTTTTTTTTTTTTTTTTTGAGATGGAGTCGCCCAGGCTGGAGTGCAGTGGTGCA
ATCTTGGTTCACTGCAACCTCCGCCTCCCAGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGTGTATTAGCCCGGCTAATTTTTG
TAGTTTTGGTAAAGATGGGATTTCACCATGTTGGCCAAGCTGGTCTCAAATTCCTGACCTCAAATTATCTGCCCACCTAGGCCTCCCAAAGTGC
TGAGATTACAGGCGTGAGCCACCACGCCTGGCCAGTAATTTTTTTTTTTTTTTTTTTGAGACAGGATCTCACTCTATTACCCAGGATGGAGTACA
GTGGCACAATCTCGGCTCACTGCAACCTCTGCCTCCCCTCCCAGGCTCAAGCGATCCTCACACCTCAGCCTCCCGAGTAGCTGGGACTACAGAT
GCACACCACCACACCCAGCTAATTTTTGTGTTTTTTATTGAGATGGGGTTTTGTAATGTTGCCCAGCTGGTCTCAAACTCCTGAGCTCAAGCAA
TCTGCCCTCCTCTGCCTCCCAAAGTGCTGGGATTACAAGTGTGAGCCATTCTGCCTGGCCAATAATAATCTCTTGACCGAAATCTAGACACCTG
ATCTCACTGTCTATATGAACACAAGCTCTGAACCTATACAGAAACACCTGTGACCCAGTACTGGCCCACCTGATCTCTTTGTAGGAAGCTGTCA
TAACATAGGTCTAAGAAGCCCCATCCTGGCCACGAATGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAAGCTGAAGCAGGCAGATTGCTTG
AGTCCAGGAGTTTGAGACCAGCTTGGGCAACATGGCGAGACCCCATCTCTATAAAGAAAAAAAAATTAGGCAGGCATGGTGGCATGCACTTGTA
GTCCCAGCTACTTGGGAGGCTGAGGTAGGAAGACAGCTTGAGCCCAAGAGGTTGAAGCAGCAGTGAGCCGTGTTCACACCACTGCACTCCAGCC
TAGGCAACAGAGTGAGACCCTGTCCCCTGTATCAAAAAACAAAAACAAAAAAACAAAAAAACAAAACCTTAATCCTTAACTTGCACAGGAACAG
GAACCCATAGTCTGGAGCTCTCTAGAAACCCCTGCTTGATTCAGTAAAGGTACAATATAGAAACCATAGGAATCCCTGTCCTCATTCTGTCCAG
GAACATTTGGAATGACCCACCAGAGGTACACTAGAAGTGACCTGACCCTGCCCATGAATCCCTGTCCTCACACACCTCACACAAAAGGAATACC
TCTCCTTAGGAAAAAAGGCCCCTACCCTCAATCCTGCAAAAGAATACCAGCCAGATAGAGACCAAGGCCTGACACTACAGCACAGATCGGCAAA
CTATGGCATTCAAGCCAAAGCCAGACTGTGGGCTGTTTTACATTTTTAAAGGGTTGTTTTTTAAAAAGAGAAAAAAAGAAAAATGCCACTGAGA
CCGTATGTGGCCTGCAAAGCCTAAGATGTTTACTCTCTGTCCCTTTATAAAGTTTGCTGACCCCTGCTCTTCAGAAACCTCTCTTCTGATCCAA
CAGAAAAATGGGCCTTGACCCTTTGCAAGACTCCCTACTCTATCAGGCTGCAGGTATCAGAACTCTAGAATTTTTTTGTAGTGTGTTATCATTG
TATGTGTTTTCTTTGGTGAGTGTAGGGGTTTAAAGGTCTTAGGTCTGCAACTCTTTTGCGCTGAGACAAAAGATAGGTTCACGTAGGAGGGGTG
AGAGGGAAGAGGCGGCAGGACATCTTCAAGAGGATCAGAGGGCAAAGCTACTGGGCGGTGAGACCGTCAATCTGTCAGTCTGATGCAGAACCCC
CGGACTGCTTATCTCTCCGGTCCCAGCTTATAGCCCGGTAGGAAATGGTGGAGAATGAGACAGGGAGATTAGGAGGACAAACCGGCCTCCTGCA
GAGCTGACATTTAGACATGGAGTGGGAGTTGCGGGGGAGAGGGGGTGCCTAGGGACAGCTCCCCAGACGCACACACACTTTCTATTACTGCTTG
GGAGCAGTGGTTACCCGTTGGAGGGGGCAGATAGGGAGAGCTGCTGCCCATGAGAACTCCCATCCTCAAGGCCATTCTGGCCCTGGGCACTATT
ATTATCACAACTTTCCAGATGAGGAAACGGAGCACAGAACTGTTCAGCAACTTGCCCAAAGTCACATGGTTAAGTCCCGTAACCTCAGTTTCCT
TATCTGCAAAGCAGCCTTAATAATGGGAACTACCTCATAGAATTGTGGTTTACAACGATGCCTGTCACATAATACTTGCTATCATTACCATTCC
CTGCCCCCACTAAGACTCCTTCCACTCAGAATATTGCGGCAGAATATTAATAGCTAATATTCGGCCAGTGTTTCCTGTGTACCACCATAGTGAA
TATTAACTCGGAAAATCCTCACATTTAGCATCGTCACCACGCCTATTTTGGCCGCCACCACCAACGTCCAGTGGCAACCTCGCTCTCGGCCCAG
CCACAACCAGCCCGCCCGCGCTACGTCATCACGGCGCGTCGCGCGGGAAGTCGCGGGGAAAAGGTAAGATGCCCCTTCCTAATTCCCTCGCTTC
CTTGCTTGCTCTCCAGACACCGCCGACCCGAAGGGCTCCTAAGTGACTGGACAGGGACGGAGGGGCGGCGGCTATGGCATCCGGGACGACAGCG
ACGATAGCCGAGGCAAGAAAAAGCTTGCACCGCAGCCCTGTCGGGAACCGCCGGCGCCTGCCTTTTACGTAGGCGCAGCACAGCTGGCGTAGCA
CGCCGACGCACCGCCCCGTCGCCTGTGAGCTCGCGGTGTGGCTCAGCCCAGCTGGCGTAGCACGCCGACGCACCGCCCCGCCGCTTGTGAGCTC
GCGAGAGGTGTGGCTCGCGCGAGGGGCGCGGCCTTGAGGCACGGTCCCCTCTGGAGGCGGGATCTGGGCGGGCAGTCGAGAGACGAGGCCCAAT
GGAAAAGAAAAGCCTGAGCGCTCGCGTCCCCACAGGTCGCCAGAAACTTGGTGGAGCGAGCCAAGGGCGGAGTTTGGAAAGGGGCTGCGTCCA
ATGAGTGGAGCGGTGAGTACAGCGCGTCGACGGCGGAGGCGGGAAGGGGGCGGAGGCCGACCGAAGGCGGCTAGGGACTGGCTGAAGAGGGTTA
GCGAAACGTTAGCGGTCGGGTCTGGGCAGGGGGTGGAGCTGGTTGAAGGAACGGGGCAGTCCCCTGAGGAGCGGGGCTGGTTGAAACGCTAGGG
GCGGGATCTGGCGGAGTGGAAGGTACCGGTCCGGCCCGATAAGGGGTGGAGTTAAGTGAATCGTTAAGGGTGGAGTCGAAACCGGGGTCGGGGC
CGGGGCCGGCTGAGTGAAAGGGTGGGTGATTATCCCGGGAGATAGGCCGAAAGGGCAGGTTCGTGAAGGAATGGGGTCTGGGCTGGGCTTAGAG
GGTCTGGGAATGGGGCTTAGGAGAGTAGAAGGGGCGGTGATTGGTTGGAAAGGGCAGGCCCTAAGACGGACTGTGTGAGCCCGGGGGCTCATTG
CTCCGTGAAAGGGCAAGACCAGGGAAAGAGAATCGTGTAAAAGGGGTGGAGTCTAGCGGGCCGGGCGGGGCCGGGTAGAATGGCCACCTGAGTG
GAGGGAGAAGGCCTGAGAGAGGCGGAGTTTGGAAGGCTGTGGAGAATCAGATCGCGTAAGGAATGGAATCTAATAGAGGGGGCGGAGCCTGGAA
AAGGGCAGAGAGGTGGGGTCCTCAGGGCACACTAGCCCCCTCACATACCCACGCTCCTCCCCCCACCCCCAGAACCGCGGCAGGGGCCAAGCCT
CCTCAACTATGACCTCAACCGGCCAGGATTCCACCACAACCAGGCAGCGAAGAAGTAGGCAGAACCCCCAGTCGCCCCCTCAGGACTCCAGTGT
CACTTCGGTGAGGCCCTAGACCCGCCCTGATGAGGGGGAGAGGGAGCAAGTTGGTCATGCCCTGGACTCTGACCCTTCTCTCTGATTCACAGAA
GCGAAATATTAAAAAGGGAGCCGTTCCCCGCTCTATCCCCAATCTAGCGGAGGTAAAGAAGAAAGGCAAAATGAAGAAGCTCGGCCAAGCAATG
GAAGAAGACCTAATCGTGGGACTGCAAGGGATGGTGAGCAGGGCCTGGCTGCAGTTTAGCCTCGTATGACAATCAAAACCCAAAGGTTCCCCAC
CCTGGACAGTTCCCTCTGACTCAGGGCCTAAAATGGATCTGTGTCTCCTTTTTTTTTTTCCTCTGCAGGATCTGAACCTTGAGGCTGAAGCACTG
GCTGGCACTGGCTTGGTGTTGGATGAGCAGTTAAATGAATTCCATTGCCTCTGGGATGACAGGTGAGGCTGGGTCCTCCAGGCTGTCTCCAAAC

CACAAAAATACACACACTTAGAGCCCATTAGCAAGAATAAATCTTTTCTTACCCCAGCCTGGATACTGGAAGCAGATGATTTGGGGAGGTAGGG
CTCACACTTGAAAGGGTTCTTTTATGTAGCTAACAAACATTTATTGAGTGCCTATTGTGTGCCAAGAGTTGGTGATACAAATGTACCAAACAAC
AGACAGGGGTCCTTCTCTAGGAGCGGATTGATGAGTAGGAGGGCAGATCATTAAACAGCCAACAGCAGTATGAGGTGTTTAATGAAGACAGACT
TAAGACCAGGGGATTCAAGGGTGTATAATAGAGGATCCTAAACTAGTATCCGGGCTTCCCAGAAGCCTTTATAGAGGAAGAGACGTTTGTACTG
AAACAGAAGGATGAAACCTCCCGTTTGCTTTACTTTTCAAAAAGAATCAGCAAATCCTTTTGGCTATATGTTCAAAATATATTCACCATCTGAC
CTCTCCTCACCACCTCCACTGCCACCATCATCATCACTCACCTAGACTTGCAGAGGCCTCCTCCCTGGTCCCCTACTTCCAACCTCACCTCTAT
TATCTGTTCATGCAGCAACCTAAAAAAATATGTATGAGTTGATGTCTTTGTTAAAATACTTTAAGGAGGCCAGGCATGGTGGCTCACGCCTATA
ATCCCAGCACTTTGGGGGGGCCAAGGCAGGTGGATCACTTGAGGTCAGGAGTTCGAGACCGGTCTGACCAACGCGATGAAACACTGTCTCTACT
AAAAATACAAAAATTAGTTGGGCGTGGTGGCACACACCTGTAATCCTAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGATCTGGGAGGCG
GAGGTTGCAGTGAGCCGAGATTGTGCCATTGCACCCCAGCCTGGGCAACAAGAGCAAAACTCTGTCTCAAAAAGTAAAAATAAAAAAAAAAAAA
GTACTTTAAGGGCAAACTGTTGCCCTCAAGGTAAAGTCCAAATTTTTCATCCTGGCCTCAAAGGTTCCACATGATCTGGCTCCACATCACTTTG
TGACCTCATCAGCCAATCCTTCTCGC

HUMAN SEQUENCE - mRNA
GCAAAGGCCAAGGCCAGCCAGGACACCCCCTGGGATCACACTGAGCTTGCCACATCCCCAAGGCGGCCGAACCCTCCGCAACCACCAGCCCAGG
TTAATCCCCAGAGGCTCCATGGAGTTCCCTGGCCTGGGGTCCCTGGGGACCTCAGAGCCCCTCCCCCAGTTTGTGGATCCTGCTCTGGTGTCCT
CCACACCAGAATCAGGGGTTTTCTTCCCCTCTGGGCCTGAGGGCTTGGATGCAGCAGCTTCCTCCACTGCCCCGAGCACAGCCACCGCTGCAGC
TGCGGCACTGGCCTACTACAGGGACGCTGAGGCCTACAGACACTCCCCAGTCTTTCAGGTGTACCCATTGCTCAACTGTATGGAGGGGATCCCA
GGGGGCTCACCATATGCCGGCTGGGCCTACGGCAAGACGGGGCTCTACCCTGCCTCAACTGTGTGTCCCACCCGCGAGGACTCTCCTCCCCAGG
CCGTGGAAGATCTGGATGGAAAAGGCAGCACCAGCTTCCTGGAGACTTTGAAGACAGAGCGGCTGAGCCCAGACCTCCTGACCCTGGGACCTGC
ACTGCCTTCATCACTCCCTGTCCCCAATAGTGCTTATGGGGGCCCTGACTTTTCCAGTACCTTCTTTTCTCCCACCGGGAGCCCCCTCAATTCA
GCAGCCTATTCCTCTCCCAAGCTTCGTGGAACTCTCCCCCTGCCTCCCTGTGAGGCCAGGGAGTGTGTGAACTGCGGAGCAACAGCCACTCCAC
TGTGGCGGAGGGACAGGACAGGCCACTACCTATGCAACGCCTGCGGCCTCTATCACAAGATGAATGGGCAGAACAGGCCCCTCATCCGGCCCAA
GAAGCGCCTGATTGTCAGTAAACGGGCAGGTACTCAGTGCACCAACTGCCAGACGACCACCACGACACTGTGGCGGAGAAATGCCAGTGGGGAT
CCCGTGTGCAATGCCTGCGGCCTCTACTACAAGCTACACCAGGTGAACCGGCCACTGACCATGCGGAAGGATGGTATTCAGACTCGAAACCGCA
AGGCATCTGGAAAAGGGAAAAAGAAACGGGGCTCCAGTCTGGGAGGCACAGGAGCAGCCGAAGGACCAGCTGGTGGCTTTATGGTGGTGGCTGG
GGGCAGCGGTAGCGGGAATTGTGGGGAGGTGGCTTCAGGCCTGACACTGGGCCCCCCAGGTACTGCCCATCTCTACCAAGGCCTGGGCCCTGTG
GTGCTGTCAGGGCCTGTTAGCCACCTCATGCCTTTCCCTGGACCCCTACTGGGCTCACCCACGGGCTCCTTCCCCACAGGCCCCATGCCCCCCA
CCACCAGCACTACTGTGGTGGCTCCGCTCAGCTCATGAGGGCACAGAGCATGGCCTCCAGAGGAGGGGTGGTGTCCTTCTCCTCTTGTAGCCAG
AATTCTGGACAACCCAAGTCTCTGGGCCCCAGGCACCCCCTGGCTTGAACCTTCAAAGCTTTTGTAAAATAAAACCACCAAAGTCCTG

HUMAN SEQUENCE - CODING
ATGGAGTTCCCTGGCCTGGGGTCCCTGGGGACCTCAGAGCCCCTCCCCCAGTTTGTGGATCCTGCTCTGGTGTCCTCCACACCAGAATCAGGGG
TTTTCTTCCCCCTCTGGGCCTGAGGGCTTGGATGCAGCAGCTTCCTCCACTGCCCCGAGCACAGCCACCGCTGCAGCTGCGGCACTGGCCTACTA
CAGGGACGCTGAGGCCTACAGACACTCCCCAGTCTTTCAGGTGTACCCATTGCTCAACTGTATGGAGGGGATCCCAGGGGGCTCACCATATGCC
GGCTGGGCCTACGGCAAGACGGGGCTCTACCCTGCCTCAACTGTGTGTCCCACCCGCGAGGACTCTCCTCCCCAGGCCGTGGAAGATCTGGATG
GAAAAGGCAGCACCAGCTTCCTGGAGACTTTGAAGACAGAGCGGCTGAGCCCAGACCTCCTGACCCTGGGACCTGCACTGCCTTCATCACTCCC
TGTCCCCAATAGTGCTTATGGGGGCCCTGACTTTTCCAGTACCTTCTTTTCTCCCACCGGGAGCCCCCTCAATTCAGCAGCCTATTCCTCTCCC
AAGCTTCGTGGAACTCTCCCCCTGCCTCCCTGTGAGGCCAGGGAGTGTGTGAACTGCGGAGCAACAGCCACTCCACTGTGGCGGAGGGACAGGA
CAGGCCACTACCTATGCAACGCCTGCGGCCTCTATCACAAGATGAATGGGCAGAACAGGCCCCTCATCCGGCCCAAGAAGCGCCTGATTGTCAG
TAAACGGGCAGGTACTCAGTGCACCAACTGCCAGACGACCACCACGACACTGTGGCGGAGAAATGCCAGTGGGGATCCCGTGTGCAATGCCTGC
GGCCTCTACTACAAGCTACACCAGGTGAACCGGCCACTGACCATGCGGAAGGATGGTATTCAGACTCGAAACCGCAAGGCATCTGGAAAAGGGA
AAAAGAAACGGGGCTCCAGTCTGGGAGGCACAGGAGCAGCCGAAGGACCAGCTGGTGGCTTTATGGTGGTGGCTGGGGGCAGCGGTAGCGGGAA
TTGTGGGGAGGTGGCTTCAGGCCTGACACTGGGCCCCCCAGGTACTGCCCATCTCTACCAAGGCCTGGGCCCTGTGGTGCTGTCAGGGCCTGTT
AGCCACCTCATGCCTTTCCCTGGACCCCTACTGGGCTCACCCACGGGCTCCTTCCCCACAGGCCCCATGCCCCCCACCACCAGCACTACTGTGG
TGGCTCCGCTCAGCTCATGA

TABLE 14

MOUSE NOMENCLATURE
ICSGNM Fkbp5
Celera mCG18519

HUMAN NOMENCLATURE
HGNC FKBP5
Celera hCG17659

MOUSE SEQUENCE - GENOMIC

TCAGTGCTTCTAACAAAGAAGCTAGGGATGTCCGATGGGACACCGTGGAGGAAGAGAAGCACCGGTCACATGCACAGACTCTGCAAAGCTCAGG
GTAGCTTCCCACGTGAGAGACCGTAGTTACCTGAAGTTGTCAGTACCTGTTGATGAGACACTGTCTTCTCATGTCTCTGTTGTGTCTCGGGTCA
TTGCCGACTGGTACTTTGGAGGGTGAGTGCCTATCTGCCATGTCCATAACAGGAGCACTGGGGTGTCCCCTTCTGGAGCACTGGGGTGCAGTTT
CCCTCCCTTAGCTGGTGCAGTACAGTACGCTTTATCATGGATTAGTAATAGCGTTAGGTAAAGGTGACCAGAGGAAACAAGACTCTGTTAGAAA
AATACTGATATTTCCCTAGCTTTTCTTAAAGCTTTTTAAGAATTGTCTTTTTTTATGTAATACCATAAAGCAAAAAGGCTACTTATTTTGTTTG
TTTACTTATAAAAATTTATACTTCTAGTGACCTACATGAATTTAAGGGGAAATGTTTAGAAAATAAAAGGATTTGGGAAGGGAGTTGCTTTGGT
TTTTGTTTGTTTGTTTGTTTGTATTTTCTTTGTTTGGCAGCTTAGTTTTTGTTTTTTTCAAAACAGTTTCTCTGTGTCTAGCCATGGCTGT
CTTAGAACTTGCTCTGTAGACCAGATTGCACTAGAACTCACAGAAATCTGCCTGCCTCTGCCAACTGAGTGCTGGGATTAAAGTTGTACAGGAT
CACCGACCAACTTAGTTTATTTCTTTATTCCTTAAGATTTAAATGGCTTTGAACCTGGAAAAAAAAAAGGTTGTTTTCTGGTTTTCCAGATTCC
TGGTGCTTCTCTTCCTGTGGACTTGGCGGTTCTGTTCCAAGTCAGTCTCAGATTTGCACGCTCGCATCCTTAAGTTGATGAAGTTCCTTGGTCA
AGTTGACACTTAGCAGAAGCGACAAATGGGTTGAAGGGAGTTAAGACTTACATGAATAGCAAGCCAAGTTGTTCTTTTCTTCATCTTTATTTTT
AATTTATTTATCTTTTGAGAATTTAATATATGAATACTGATTTTACATCATTTCTCCTTTAATTCCTCCCATATCCCCTTCTCAAATTTGTGCC
TTCTTATTTGTTGATTATTGTTACATGTGTGTGCATTCATACACTTGGGCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATGTTTAC
CTATGAATACAGCCTGTTGAAGTCTTACAGTTTTGCTTGTATGGGTTTAGAGAGGGTCTTGTGTAGCTAAGGTTAATGCTCACCCCTGATCCTC
CTGCCTCCACCTCCTGAGTGCTCGTATTGCAGGCAGCATATGCTGCTGTCACCAGCATGGGCCTGGCTGAAAAAAAACTGTTTTTTTCTCTTTT
TTAAAAATTAATTTTGTGTTGTCTGCATGGATGTCTTCGAATCATCTGCATACAGAGGGCAGAAGAAGGTATCAGATCTTCTAGAACTGTGTAA
CGGACAGTCGTGAGCCTCCATGTGGGTGCTGGGTATCAAACATCAGTTCTCTGCATGCTCTTAACCATGGAGTCATCTCTCCAGCTTTCCCATT
AAGTATTTTTGGAAGAAATAGCACATAGATAAAGTCCGCCTCCCCTTACATCGCCATGAGGCAGTTTGTCTAATTGCTGCTGTCACAGGTTTGG
TTATGGCGCACAGTGCCTGTTACAAGGATAGTTCTTAGATCAGCCCCTTCCACCTTGGAGTTTTTGAGACAGGGTATTCCTGTGACTAGGCTGG
CCTCAAACTAAGAAATCCGCCTGCCTCTGCCTCCCAAGTGCTGGGATTTAAGGCATGCGCCAACACACCCAGCCCTAGATCCAGCTTCTTAAAT
GTTCCTACTCCTGTCTCCTTTTTGCCCAAGATATTCCTAAGCAATCCCAGACATGTGGGCATATAAAATAGACATACAAGGAGAACATTTATTG
ATAATAAGTCATAGTTTATTTTAAAACAATCTTTGCTGTGCAGATATTTTTACTATTTATTCGAGATAAGCAAATATGCACACCAAAAGATGGA
TATGCTTGTTTGTCTAGTACAGTTGAGTCCAAAGATAGACTGTGTTTTGATATTACCTGCCGAGAGGTGGCAGTAGGAAATATTAGGTCCTTGT
TGTATGTCCCTAAACCATGGTGTTTCTATAAGAGCAGAAACCGTTGTGCGTGCGTGCAGCAGAAACACTGCGTAGCTCACAATAGCCTTTGGTG
TGAGCTGAGGGGCTGTGAGCAGCACCGTTTAGCATTGCATGATGCAGTGGCATGCATGGTGAATTGCACGTGTGCGCTCAGCCGAGTCCCACAC
TGTGGCATGGCCAGCACTGCCAGCACACCGTGGATTCCTTGTGAATTTATTCTTGTTTGGGTTTGGGGCCAGTGTGTATTCAGAAAGCATTGCT
GCTGCTCAGCTGGTCTCCCCGGGTGTGGGCTCACCACTTCCTCTTTAGTTATGGTGCACATCACCTGCTAAAGGTTTATATTGCTTTGTTGGAA
AGGCCCTCTCACCTTTTCTGGTGGGTAACCTGTGGGTGAGGCTGGTGAATATTTCTCAAGAACTTTTCACCTAGTGCCTTTAATGTGCTCAGTG
CTTCTGTCCTGTTGTGTTGCTAGAGGCCCACGTGTCTCTGAAAACCTACCGAACCTTTCCCAAGGATAAGTCGATGAGCAGCTCCCTCCAGATA
GTTAAAGACCATTCCCTGCTGTTTAGGCGCTTCCTATAAGCTCACGCACCAGATATGTGTCACCAAGTCCTAGAAGCTGGGGGTCGGCCCCCCG
GTCTAGTTTCCCTGATTATCTAGTCCAGCATTGTGCTGAGCTAGGTACTTAACTTTGGTTGTTTGTTTGAGAACAGCTTGTTCTAGGCTTTCCC
CTACCCTGAGCCAAACATGTGGACCTTTTATTCTGGTATAAACTGTGCTAGGAAATCCACACAGGGGCTGGGCCCTGGGATTGTGCTGCTCTCT
TCGAAAATCTTTCAGCACAACAAACAGCTCAACCTGAAGAAAACTTAGCTTGTTTGGAAATGAGTTAAAACACTCATATTTTAGTTGCCCAATT
CTCAGTTCTATTAGTAAAGCGGGTTCTTTACAATACTGGGAGCTGTTTTGTGTTTGGTTTGACTGTAAGCAGAGGGCCCACCAGGTGACTTGAC
TGAGCCTGGAGTCTGTCCTTACCCTAGTGTGGAATAGCTTTAGAAGTGGCCCACAGTGAGCCGGTTTTGGTAATGTCCTTAACTTTCAGTACTC
GGAACGCTGAGGAGAGAGAAATGTCCAGTTTGAAGCCAGCCTGGGCTACATAAGAACCTGATTCAGAAAATAATTGGCATTGTTATTAATTCTT
CATTTCCCTGCTCAGTCAAGGAGCAGTAGAAGATAATCCCGGCAGTAGACAAGTGTGTTTCGTTTAGCCTATTGATCACTGATATGCAGATTGG
CTTTGCAGGAGAAAAGGTAACAGCCCTCAGGAGGCAGACAGGTGGATCTCTGTTAGTTCAAGGCCAGGCCAGTCGATACATTTGAGTTCAGGAC
AGTGGGTCTCTGTGAAGCAGAGTTTGTATTCTGAGTACACTGCTCTGAGTAACAGTTTAGAGTGCCTGAAGTAGGAGCGAAAGGCAGCCCTCCA
GAGTTCCCTGCTGAAGACTGTAATATGCAAAGCACACATCCCGTGTTCTACAAGACCCTTTATCTACCAGGAGTGCTTCATAAATATCCACATC
CAGCTGAGAAGAGCTAAGGAAGGGTAAAATGGCAAAACGACTTGCATGGGCATTGTGGATCTGGCTCATGAGAGAAAGAAGAGAGAGTAATCAA
ATGGGTGTGGCTGGTTATGGAAAGGGAGCTGGTTGGTTTGACCAGTGTGTGTGAAGGAGAGTGGCAGAACACCAGAGGCCTCTGTTCTCTCTCA
ACAATATGGCTGTAGGAGAAGACTTGTTTTATGGTTCTGAGAGGGCAGCTTCTCCCTGTGTTGTCCTGTTAAGGAATATAATTACCGGCAGGCC
TGACTTATACTGCTCTCATCTAGGACCGTGGCTAGACGGGAAATTGAAGAAGTGGGTGATGTTTTATTTCCTTGTCTGATGGCATCAATGCATG
CCCACAGCAAATGCTTTTGTTATTGTTTCTGTGTTTTAACTCTATTAGTCTTATGTAAGCTTAGTTCTCAGGGACTTTTCAGGTGTGTTAAGAA
GTGATACTTTGATTGAAGGAAATGCATTTCTCTTGGCAGGTCTTCTACTTACAAAGGACAATGACTACTGATGAGGGCACCAGTAACAATGGAG
AGAACCCAGCAGCCACCATGACTGAGCAGGGTGAAGATATCACTACGAAGAAAGACAGAGGAGTATTAAAGGTAAGGCCACAGAAGTGTGAAGC
AGGGAGGTCTCTGTGTGGGAGCTTGTGGGTGCTTTATGCAGCCTGTCTTGTGGACGGGATAGGGTTAAGTAGCAAACACTACAGCTCACTTCCC
ATCTAGCTTCATAGCTGGGCGTAATCTCAGATTATAAATGGTGCAGCTTCCGCTGGGCTGGGTAAATTAACTCACATCTTAGGCCCTGCAGAAC
AAGTTCCAGTTATGCGTTCCCTCAAAAGAACCCCTCCTTGTTTCAGAGGGTACATGTAGATTGCAGTTTAATATGCCATCTTAGTGTGCTAAAG
CTATGCAGTGACTGCAAAAGAGTCTGTAGAGAAAAAGGAGAGGACTTAGTTTTTATATACAAGTACTGTTTCTATGTGTCATGATGTAAGGACA
CAGAATATATATTTGGATCATCTTCCCTATTAAAGTGTGTGTGTGATGCATTTGTGTACACATATGATGTATACTTGCTCCTCTGTCAGGAT
ATCTTCCTCAGTCACTTTTCTACCTTATTTCTCTGTGAGACAGAGTCTGTCACCAAACCTAGAAGGAAGCCTGTTTGAGTAAGACTGGGTAGCC
AGCAAGCCTCTGGGATCCGTTTGTCTCTGTCCTCCAGCACTGGGGTTGGAGACACACTCTTTCATGATTATGGTTTTACATGGGTCTAAGGAAT
CTAAGCTCGGATCCTCCTTGGACCAGCTCCATAGACATTTTTTTAATTTGCGTCTTAGCAACAGTGTTATGAGATAGTACCTTTTGATCATGGT
GGGACTGGGTATGGTTCCTAGGGTCTCACTAAGTTGCCAGGCTGGCCTTGAATTACAGTGTAACCCAGGCAGGTCTTGAACCTGCCATCCTCCT
CCCTTAGTCTCCTGAGTAGTTGGGATTACAGGATTGTGTCCCCAGGATGGGCCAGGTTCTCGTCTGTGGTTCTGTTCTGAATCTCCATGCATTC
CTCTTACCTTGCTCTGTGCTGTCAGTCCATTGAGATCTCTTTTTCCTGCAGCTTCTTAGCCTGGTAGCTGTAATTCCTCACCCAGAGCTCCTGG
AAGCTTCTCAAGACAGTGGAGATTCTTCAGGCTGTCCGCAGCGTCTCCTACCTCATCTTTTTCAGTGTGCTGTGTTCAGAGAACTGGTCTCCCA
GGTCCTCAGACCCTGTGTATTCTGTAACCAAGTACTGAGTGATTCATGAGGGAGAAGTTTATTGTGGCTCACAGTGCTGTAGTCTGAGAAGTCC
AGGAACAGAGCATTCCTGCATCACCTTGCTTCTAGTAAGGACTCATTATAGAGTGAAAGCAGAAGGCAGGCAGGCAGGCAGGAAGATCTG
AGAGGCACAAGGACACGTGGACAGCTTTGTACAACTTGTGCGGTGAGCCTAGTCCCTCCACAGGGAGCTCACAGAGGCAAGACCTTGATTCCAC
CTAACTTCCCTCCTAAAGGCCTCGTATCCCAGCACTGTCCTGGTAGCAGTTGATCCAGTGTAAGCTTTTGAGCGGACAGGTCATATTCAACCCT
CACTCAGACCACAGTATCCCTCCATCGCTGCCGAGCCTGCTCAGAGCTCTTGGATAGGCAGTATGCTATAGTCTCCTTTGTCCTAGGGAGTAAG
TCTAAGAACAACAACAGTTAGGTTTATTATAACTGTGTGGTTTGAAGCTCTTTAGGTTATGACACCTGTTACTGTCTAGAACCTTCAAGTCACC
TCAGGGCCTTTGGTAAAGAGTCAGTATGTTTCACAGCTGTGGCCCGGAGATTTGTCAGCCTCCCTGGGTTAAGGCTTCTACTTATAAAATGTGT
AATAATAATAATAATAATAAAAGTTGGTTTTACATTTTTCATATAAATTAAAACTAGATTTTTATCTTTTAGGCAAGTTAAGATTTAAGCACAA
GTTTCATCTTGCTGGGAAGATAGACACACACATAAGAGGGCACTATCACGTGTTAGCTGCTGTCTTCTGCACCACTGAAATGGTCCCATTGGCA
CAGATGATTGACAGACCGAATTGCACCACCACACGCCTGGGTTACATTTTCTTTTCCAAGAATTGACCAACTGCATTAGTATCTTGCTCTGCCA
AGAATAAAAGAAGTAGTCTGGATTTTACAGTGGATAAATGTTTTTCATTTTGAAGTTCTTTTCTTCTTTTTTTTTCCCTTTTCCTTTTTCTTTAC
TAGAAAACAAGCTACTTGGTATCGTCTAAGTCTATATTTTACAGATTATTCAAATAATGGATGTTTAAACTGTTACATCAGAGCATACAGCAGA
GCGTTTGGACCCTATCTTTAGCAAAGGAGGGAAGTAAATATGCCCCCTTGACTCTTTGCTGTTTAGGAAGTCCAGCAGTCCTTTGGCTAGTTCA
GTTTGTGTACCTTTGCCTGCTCATGAGTCTGTGTTTTGAGAGATTTTAGCATCTTGGCTTTCAACCAACCAAGTGAGGTTTACTGGCTAATTCT

GTTTTGCCTTGGTGGAGATAGGGTTTCACAGGATAATCTAGCTGGCCTGGAACTTACTGTGTAGACCAGGCTGTCTCCGCAGTGATCCTTTTGC
CTTGCTCTGGCTTTCTATTTTGAGAGACTAAATATTGTGGTGAGCTGTAATAATAGTCATAACACAAAGGGTTAGTGAAAGGCAGTTTTCTAAG
AGCAGGACAAAGAAAGCTGTGAGGAATGGCGGTGAATCTGCCCATCTGTCTGGGTGCTGGGGAGTAGTCCTTGTGGCCTTTGTATCCTTTTACA
AGTACAAAGCTCTACACTTTTTTTCTTATGTTTGTCTTTCAGATTGTCAAAAGAGTGGGGACTAGTGACGAGGCCCCAATGTTTGGTGACAAAG
TTTATGTCCACTACAAAGGGATGTTGTCAGATGGAAAGAAGTTTGATTCCAGTCATGACAGAAAGAAGCCATTTGCCTTTAGCCTTGGCCAAGG
TAAGAGGACAATATTTTCAGGGTTTGTGTAGGTTTGATTCTGTTTTTATTTTTTATTTATTTTTTATTTTTATTTGTTTTTTAAGAGTTATTTA
TTTATAAATACCTAATAAAAATGAAAAAAAAAAAAGAAAGTTCTAGAGATAGATGTGCAAAGAGAAGCCAGGCAACTGTTGGTCGCGACTGTGGA
AATAAGAGCTAGGTTGTAGCTGACAGTAACCCATTATGAATATACTTCATATAACTGGGCATAAGACTGGATAAGATGGGAAATTTCATGTTTAC
ATATATCTTATTATTACCTTAAAAAATGGGCAGATGTAAACCTAATTCTGTCCACATATACTTGGAAAAAAAAAGATATTGTAAATAAGAGTAA
AAAAAAAAAAGAGTTATTTATTTATTATATGTAAGTACACTGTAGTTGTCTTCAGACACCCCAGAAGAGGGTCTCAGATCTCATTATAGGTGGT
TGTGAGCCACCATGTGGTTGCTGGGATTTGAACTCGGGACCTGCGGAAGAGCAGTCAATGCTCTTAACCACTGAGCCATGTCACCAGCCCCATG
ATTCTGTTTTTATATTTCACAATAAACATGGCAAACATGGTCCATGGATCCCTAGGTGTCTCTGTGGTCCTTTTGGGACCATAGTGTAACTTCT
TTCTGTAGCAGTGTGAAGGTGATGCCGCTTTCACTTGCTCACGCTCACACTGGCAACCTAAAATCTGCAGAGGCACAAACTGCAGGGACCCTCG
TGGGCATCAGTGACAGTCATCTCTGGAGCCCATTGTGTTGTCACTGCCTCTCCTGTTGGCTGTCATCTCAGTGCTTCCAAAGTCGCCCTCAGGA
AGCCTGCTACACTTTCAGTTGGGAACTGAGCTAGCTCAGTGTTGCCGTGAACACCATTCTTCCTTGCAAAGGCAGACGATGACTGTTCAGACTT
GAGAGGTATTTCCTGAAGGAGAATGAGATAAACCTGTCACTTCAAGGAAAACACCCGACAGATGTTGTTGCCGTTGCAGCTTCAGGTGGAAAAC
CAGTTTTAAAATATTTGTGGCTGTCCCATGCTTAACAGCTTCCTGAGCCGTAAGACTTCTCTGTGAGAGCGGTGGGTACTAATGAGTGTGACTT
GACTTCTGGACAGTGAGGTTCGTCACTGTTAGAGTGTCTGCCTAACTCAGTTAGCCAGTATTTTCCCAGGGACCAGTGCAATACATACACCGTC
AAGTGTGGACAAGCAGTCCATTCAGGCTAGACCAGTGCTGTAGGGGCTGTAGTGTGAGAAGCCCTTTGATGCAGATGACCTGCTGAACCTCTTT
TGATAGTCATCTAGGAATTCTGTGACGCTGCCCTCCTGCCTTTTCCCAGGTCCTTGTGAGTTTGTTCTTTTCTACATCTTCAGTCAGAAGCAAG
CAAATGACTTCCTCTTGGCTTATATCAAGTCAAACATTTCACTTTTGTAAAATTAAAAATGACAGCTGAGGACTGACTGGGGTGGTGTTCTGTA
GTGAGAGTGCTTCCCTGGCATCCACAGAGTGAGTTTGATCCTCAGGTGCAGTTTCCGACTGTAATGCCAGCACTTGGCAGATTGGAAGCAGTGG
GGTCAGAAGCACAGAGGTGTTCAGTTGACCACAGAACAGAGAAACATAAGCCAGCATAATGGCACACACCTATCTTCTCAGCAGTTGGGAGGTG
TCCTAGTTAGAGTTTCTATTGCTGTGATGAAACACCATGACCCAAGGCAAGTTGGGGAAGAAAAGGTTTATTTGGCTTACACTTCCACAGCACT
GTTCATCATTGAAAGAAGTCAGGACAGGAACTCCAACAGGGCAGGAAGCTGCAGGCAGAAGCTGATGCAGAGGTCAGGGAGGAGTGCTGCTTAC
TGGTTTGCTCATCATGGCTTGCTCAGCCAGCTTTCTTATAGAACCCAGGATCACTAGCCCAGGGATGGCAGCATCCACAATGATTCTCCCCAAT
TAACCACTAATTAAGAAAATGCCTACAGCTAGATTTACCGATGCATTTTCCTGTTGAGTGCTCTCCTCAAGTTGATATAAACTAACTACCACAG
GAGGCAAAGGAGAGGGCCAAGTTCAAAGCTGTGTTGTATTTCACAGCAAGACCCTGTCTCAGGAAAAGAGAAAAAAAATTAGCTAGGCCATTTA
GATTTTATATTAAATATTATAACAGTTGCTGCTTCATCAAAATAAAAAAAAAAAAAAGGAAGAAGTATAAATACTGTCTCGTGAGCTCTCTAGT
CCCTTATAGTATATGTCTCCCAAAGGAGTATATAGAAATATTCCAAAGAGACGTTCCAGGCTAATTTTGGGATTCTAGTATGACTTCAGTGTTT
TGTTTTGTTTTAAGATATAGTCTTCCCTGCCTATCTTGGAACTCACGATGTAGAGTAGGCTGGCCTCGAACTCAAAAGAGGTCTACCTACATCT
CCTGAGTGCTGGGGCTAAAGATATGCAATACCACACCTGGGCTGATTTTAGTATTTTAAATAGGACTATTATGAGCCTGACTATAAAAACTTTA
TTGAAAAAACACATATACAATAGAGCACTGCCCCTCCTCCTGCTGTATGCCCACTGCCTTCCTGTACTGACTGAGCTCATCCCCTACACTGTAA
ATGACTGTTCTTACTACCAACCGCTGTGCAATGTTGGGTGAAGATAGCACACACCACTATGTACATCAGCCCAGCATAGTGCACACCTGGGTGT
TATTGTTATTACAGCAAAAGATTACTGGTGGCTTTAAAGTTTTTACTGCAGTCACAGTAAAAAACGATTGTAACTTCTTGTGTCGTAACTCTCC
TTACTGAGCAGTCATATAAACCTTTTGAAACAATGCTTAGCCAGTCTTTTTTTTTTTGTCTGAGGAAGTTGGGAAAGAGAAACAGAATCAGTCT
AAGACCTGGTTGTTAGCGCAGAGGACTGTGTCCCAGGATAGAAACAGGATAGTTCCCCTCCTGTGCTTACGTTACTTTTGTTTGTGGTGCCATT
GTCCAAATTGATTTTTTTTCTCTGAAGCACCCTTCCTTGATTGTGAAGTACTAAATGATAGAAAACTTCAATGTCCAGTTTTCCTTTTCTAAGG
ATGTCTCTTATCTCCCTTGCTGAAAATTACTGAGTATACACTTTTAAATATATGCTTACATTTAAACTCTGAGTATGTTTAGAGTCTGACAGCT
TGAAAGTGTTTTGTTTGTACCTGAGGAGGCAGAGGTACAGAGGGTCACAGTGTCTGCTCACTTGTGCACAGTGAGTCAGCCAGGACTCACACCC
CAGGTTGTGTTCCTGAAGTTTCTTCATTCCCAAGGTGTGAAACAGTCCAGTCCAGGTCTAAGAACAGCCGCAGCCTGCTCACACCAGCTGCTTT
CCTTTTTGCAGTGATGCATTGCTGTTTGTAGGACTTATAGACTCAGAATGCATGTTCTTGCTTGATGATATTGTGAAGTTAACGTGTACTTTAA
AAGAAGTGTCATACTTTCTCATAATACTAAGCCTAAAAGACATTTTACATCACAGTTAATACACTTATTAAAAGTACTGAAACTTGGTGATGGT
GGCACACGCCTTTAATCCTCCACATAATCCACCATGAGGCCATATCACATTTTGTTTCAGTCAGGTGCTGAAGGACACTTGAGTTGCTTCACCT
CTGGATCACGGTGGCTCACACTTGCTGTGAGCGTGTGTATAAACATGAGACCCTCTACACAGTTCTTTTTGATCACCATCCAGAAGTGGACTGC
TGGATCATAGCTGAGTCTTGTGTTTAAATTCCTTTTTCTCTAACTTTTATTTATTTATTTATTTATTTATTCTTATTTTATGTGCATCAG
TGTTTTGCCTGCTTGGTGGTAGCTGGGGATTAAAACTGGGGTCCTGAGGGAAGCAGCCTGTGCTCTTAACTGTTGAGCCGTCTCTCCAGCTCTA
ATATTTCTTTTGTGTTTCTTTTGAGACAGGGTTTCTCTGTGTAGCCCTGGCTGTCCTGGAACTCACTCTGTAGACCAGGCTGGCCTTGAACTCA
CAGATCCTCCTGCTTCTGCCTCCCGAGTATTGGGATTAAAGGCATGCTCCATCACATGGACCATATTACTCAGTCTTAAAGGAGAGGAAAAGTC
TGGCACATGCTATATCAGTGATGAGCCCCAATCCTGAACCCCAAAGACATCCTACTAAATGAAATAATCCAACCCAAAAATGAAAGCTGTGTGC
CTCCACTTGTATTACATGTCTGTAGAAAAAAGTCTTTGCTGGTGGCTGAGAGGAGGAGGAGGAAATAAGGTGTGTGATCAGGTATAAAGTTTCA
GACGAGTAAAACCAGAACGTTCTGGAGATAGGTCGCACAGCGTATACATGTAGTCACATCAAGTGCACACTGAAAAATGCTTAAGATGATAAAC
TTTGTTTAACCCCAGCGAAACATGTTTGAAGTCAGAGGAGTTACACAGTAAAAAAAACACTAGTCAGTTATTAATAAAGTAGTTTTTATTATCA
AGGGAAGTATTAGCATATTTAAACTATATGTTTTTTAAAGTATTGTGTGGGTTTTTTAACCAGAAAATGTATATATCACTACAGAAGAAAGGAA
AAAATATAGTCCATTGTTTTTATCCTGGGCTAGTGTACATTTTACTTACATATTTATTTGTGTGTGTTGTGCAGATGTGTGTCATGTTTGTACG
CATGTGTGTGGAGTTCAGCCATGGGAGCTGTCCATGCTGCTTTTGAGGAAGGAGTTCTCTTTGGACCTAGGACTTCCCCATTCGGCGCCACTGG
CTGTCCCGAGCCTTGGGGTCCTCCTCTCTCTGCTTCCCAGTGCTGGCCTTAGCAGCACTGCTGCTGGGCCTGGCTTTAAGTGGAGCTGGGACTC
TAACTCAGGGCCTTACACTTGACCGCTGAGCTGTTTGCCAACATTGCCTTTAAACTCAGATTGCCTGTGTCTTTGTAAGTACAAGAGGTATGAA
TATGTATTCTTTGATACTTTGTTACAAAAAGAATAGAACTAAAATGGAAACATTGTGTTTGAGGTAGTAAAATTGAGGTCCAGACCCAGATCAA
ATGTAGGACTCAATTTTTAAAAAATTTATTTTTGGAATATTCTGTCTGCAAGATAAAGATCCTGAAGATGAAGGCTCTTTGCAACATTGATGCT
TGTGGCCCACTGGTTCTCCTTCTGGGGACTAGACCTACAGGAGTCCTGCCATAGTGTTTAACCAGCTCCAGACTAGCTTTTGCTCTAGTTTTGT
TTGCAGATAGCCTGAGTGATACAACTAGTTCCCATGAGCTGAGCGATATTTCACACACTGTGCCCATGAGTGCCCTTGGCATTGGCCCTCTCCA
GCCACAGACCGCCAGGAGCACACTACAGTTGAACAATCTAGGTTCAGCCCCTTCCAGAAAGGATGCATACAGTGGGCAGTACAGGGTTGGAGAA
TGCATGTCAGAAAGGATGTTGGGGTGCATGTCAGAAAGGATGGTGGGTACGTGTCAGGATGTTGGGGTGCATGTCAGAAAGGATGGTAGGTACG
TGTCAGGATGTTGGGGTGCGTGTCAGAAAGGATGGTGGGTACGTGTCAGGATGTTGGGGTGCATGTCAGAAAGGATAGTGGGTACATGTCAGGA
TGGTGGGGTGTGTGGCAGAAAGAATGTTGGTAGTGTTGTGGGCTCTCGTGTGGTCTGGGAGAGTTCTGAAGAAGCAGAAGTTTGCTCTGGAGTA
GAAAGGATATTGAGTAATCCTGTGCTGGAGAATGAAGACTTGTGCCTAGAGCAGAGTGAGACGATATTAATCTATGGTGAGGTGCAACAGTTGC
CCAGAGCAGCCAGGAGAGGGGGCTCTTTGATATTTTGTAGGGTGTACAGTGACCTTATCTTTTATCCAAGCTTAGATGAAAATTTGAAGTGTTC
TTGTTTTGTCTGAGTTTCTGATGGTTATGCAGTGACCTTGTCTGCTGTTGGTGTTTTATAAGCTTGACTGTGTGCAGTCAGAGACTGATGTGGC
CTTGCTCCGAGCCCAGGCTCGCCCCAGACAACGGAGCCTGCAGCGAGTGTCAGCACCTGGCCATGGCCAAGGACTATGCTTTATTTCTCTTAGG
AAGAGTCTTTAACCTAACTACCCATGTATACTTTTTCCAAGTATTTTGTTTCAGTAGACTTAGAAAACATCAAGATTAATGGTAAAAAGGAGGA
GGAGCTGTCTGAGAGACTTGTAGGATACTCATACAGACTTGTTACGAGCAGTGCTGAAAGCATTCTTGAAATGCCATTGACTTAGAGGTGGATA
AACAGTTAAAGTAAGTCGCCTTCAGAGCCCGTCACCAGGAGAGCCTGCATATTGATCACCTGCATTGTTCGGATCACGTTAAAGGAGTTTTTCT

GTAACCAGGATTGGCCATACTCACTGACAGAGCCTTGGCCACTAACATACTATGAATTAATAAGCTGGCCATATTTTAAATTTTAAAATGAAGT
ATATGTTGTTTTGCATGATTCCTCGCTTTTAGTTTAAATTAATGTATCAGCCAGACCTGGTCCTATCAGTTACAGGCTTTCACTATACAAAGAA
CGTTAGACACACGATTGTTTTCTGGACTTTGATGGTAGCACAGGAAAGCAGCGACCTGGACTAGAGCTGGAATACTGTGGTTAATAAAGGGCAC
GTGTTCAGACAAAGTCAAGAAAGGGGCTTTTATAATGTAAACTATGTTGAGAAGCTACGGAGCCAAATAATGAATCATCTCAGTTCTAAGAATA
GGCGTGTAAAGGTTTAAAATATAACAAACAAAAATTATGTGTATAATTTAAAGGAAATTAACCAGGAAATTGACAATTTCCTTGGTTGCAAGGA
TTCAGAAGTTTTCAAATGGTGTTCTCTATGTTTCAATGTTTTCTTGGTGTTGCTTTTCAGAAATTTGATCGGGGAACTGGTAAGGTGGTCCCCA
CCTATAATTCCAGCACTAGAGGGGGAGACAGGGGAGAGCAAAGGAGAAGGAGGTCCAGGGTTAGCCTTGGTGACAGAGGAGTTGGAGGTCAGCC
TTGGAGCACATAAGATTGTCTCAATAATGACAGCAGTAACAATGCCAGGCCCTTCTGTAGCAGCACTTGTGCACTGCAGGCTCCTGGAAGGGAC
AAGAGAAGGGTGTACTTTTATATTACAGTATCATTTCCTACCAGTTCTTGTGACTTTCACATGCACACATACAATAAGTAAAGTAGTCCATTTT
AAAAGAAGAGTCAGATAGATGGGGCTGGTAAGGTGGCTGGGTGACCTCAGCCATGACCCCTGGAGCCATGTGAAGATGGAAGGAGAAACCAACT
CTACCAAGTTGTCTTCTGGTGACCTCCACATGTGCACCAGGGCACAGGCACACGTCATACACAGGTCATACATTAATCACACAGGAGTGAGACA
GAGGAGCGCTGGCTCATTTTTTTTTAAAAGATTTATTTATTATTATAAATAAGTCTGTCCCCAGATGTACTAGAAGAGGGCATCAGATCTCATT
ACGGGTGGTTGTGAGCCACCATGTGGTTGCTGGGATTTGAACTCATGACCTTTAGAAGAACAGTCAGTGCTCTTACCCACTGAGCCATCTCACA
GCCCCGGCTCATTTCTTAAGATGAGGTAGAAGATTACGAGTTGAGACTAGCTGGACTGTGTAATAAGACCTTATCTCAAAAGGCCAAAAGAGAG
GGAGTTATATGTGGTGGTGAATGTGAGGGCAGCAGCTTTTCTTTATTTTACTAAATAATTTATTCTTTACTAAATACCAGACTCTTTGTGTGTA
TATACTGTGCCATGCATTTGGGGTGGGGGCTGTTATTATGTTGTCTGGGTCAGGAAACAGATTAAACTTGCACAGGTTTGCAAAGCAAACCTAA
GGTTGGAATCTGGTACTTTGAACCCCTACAGTGCATAATCCTCCCTTTAGTAATCAAGAAAGAAAGTGAAGCTATTAAATAAAAAGGAGTTCAG
AATTGAATGATAATACGCTGCCATATATTGAGGTGTTGGTTTGTATTGTTTTGTTTAGGTTTTTCAAGACAGGGTCTCACTATGTAGTCCTGGC
TGTCTTGGCACTCTGTATGGACCAGGCTGGCCTTGATCTACCCACCTCTGCCTCCCAAGTGCTGGGATCAGTCCCCTAGAACTGAAGTTACAGA
CAGCTGTGAACTGCCAGGTGGTTGCTGGGAACTGAACCTGGGTCCTTGGGAAGAGTGGCCAGTGCTCTCCACCGCTGAGCCATGTCTCCAGCCC
CTAAATGAGACATAGTTCATGCTGCACATGATAAGAGTATTACTCAAGCATGGTGCACACACCTGTCTGTCATCCAGGAGTCCTAGACCCAGAC
ACCATCTGCCAGAATTCAGAGTTCTAGGCCACCTTGTGCTGCATTATGAGGCTGTCTTAAACTTTCAGAACAAAGACTTGTAAATATTGACACT
GAACAGGTTGCCTGCTACAGGTCCATAAGAGAGCAGTAAAGCTGAGTTTCTCAAGTTGGCAAGAAAGGAAACTTCCCAAATGTTACAGTTCTTA
TGATTTGGCAGATCTGGGGTTTGTTTGAAGATTTTCTTTGACAGATTTGGTTTTTGTTTTTGTTTTCTTGTTTTCTCTTAGGCCAGGTTATCAA
AGCCTGGGACATTGGGGTGTCTACTATGAAGAAAGGCGAGATCTGCCATTTATTATGTAAACCAGAATATGCTTATGGCTCGGCTGGCCACCTC
CAAAAAATTCCATCAAATGCAACTCTCTTTTTTGAGGCAAGTATGTGTAGTGCTGTGCATGTGCGGCCATGACACGGAGCTGCGCTGGCCGCTG
GCAGCCTGCTCCAGCTTATTTATTTTGGAGCTTGGCTTCTTGAATTGTTTCCCACACATCCAGGGGGTGTGCCAGTGCTTTCTTAGAAATGTGT
CTGGCACAAAGTGGGCATATCCAAACAAACAAAAGTCACAGATGTGGAAGTAAAAGTTCTGGTCAGTAGAGGAAGTAAGTCATATGCATCCTGA
CAGGCTGGAAATGGTGGTGGGGAGTGTAAAGTTGTGAAGGTTTCCGACTGTCTCCTCATATCCATCAGGAGCTGTGAGTCGTGGTCCATTGTTT
ACTGCGCTGAATTAATTACACATAATTGGCCAAACTGGATCTTTATCTAACACGGTGAAAGCACTTCTCAAGTCAGTTGAAGGCCAGTTTCTTA
AATCTTAAGGTGGCAAGGTCACAAGTCTGGGGTGGGAAGCGGTTGTCCTCAGAGTCAGCCAAGACTGTTTTGCGCCAGCACCTTGTCCTCCTGG
CCTTTTGCCCACAAGGCAGTTGTCCTACTATTTCCTGTCTGTCTTTGCACGGCAGTCCCACAGGATGCAGTCCTAGACGGTGTCATTACACGGA
GTTCCTTCCAAGAACTGCAGAGTACATCGCTCTCATGTCCCACGTTACTCTTATCTAAGCTGTATAGATAAAGATGTAGCTTAAAGTTTTATAA
AAATAACTGTTAAACTGGCTTTCATCTTTGCATTCTAGATTGAGCTCCTTGATTTCAAAGGTGAGGATTTATTTGAAGATTCAGGCGTTATCCG
TAGAATCAAACGGAAAGGCGAGGGATACTCAAACCCAAACGAAGGAGCAACGGTAAAAGGTGAGTAGTGAGTACTGCCGGGAGCCAGCCTTCCC
TGAGGAAGGAGACATGCTTCTAAGAGAAAAAGTCATTAAACTGTCTATAAGAAGAAGAAAATCTATCTAAAACAACTAGAATGATTTTCTTGAT
TTTAGCATGTATATAATATTTAGACCAATATTTTATTACACAAGTCTAGTTTGGGTTTAGTTATTTTCTTCTTGCAGTGTTATAGGTAACATGT
CATTCAGGATTGGTTCTAAACAAAGAAGCTCTCAACCAGGAACAGGAAATTGGGATCTAAGGCTGGCTCTGCACCTCTGGGCCTCTCCTGCGCC
CTCACTTCTTCCAAGACTGAGGCTGTGCTGGGCTTCTTGGTCTCAAAGGCTCTGCGAGCCCCAAAAACCCACATTGGGAGTCGTGCTTATGAAA
GTCGAAAAGGCTAGAGACAGCTGTGACACAGCCACTTAAAAGCTTACTCATAACATGTTTTCATCGTTTATTATGAAAAATTCAAATCTATACA
CCAGGGTTTTTCCTGTGCTGTGGGAACTCCTCCAGAGTCAGTGATTCATAACAACTTGTTTTGTTTTGATTTAGTTTTTGAGACAGGGCATTTG
TTGAGACCAGGAAGTTAATAGGGCCATCCCCTGTCCCACTCTCGTTACCATACTAACTTCTTTTCTAGTCTGGATACAAATTCAAAACCTGGAG
CTGCATTTAGCCCTCATGGCTTTATTCTATTCCAATGAATTAGTCTTCCATCTTTGTTTCCTGTGACTTTGACACTTTTTTGTTTTTGTTTGTT
TGTTTGTTTGTTTTTCGAGACAGGGTTTCTCTGTGTAGCCCTGGCTGTCCTGTAGACCAGGCTGGCCTCAAACTCAGAAATCTGCTGCCTCTGC
CTCCCGAGTGCTGGGATTAAAGGCGTGTGCCACCATCGCCCAGCAACTTTGACATTTTTGAAGACAACTTTCCATTTGCTAGAGAATCCCATAG
TTGTTGTCTTATGCCCACAGGGACTAGATTGAGCTATTAGAAAATGCCCTGTGCGTGGCGCTATGCCCTCTTTAGCTCATCATTATCATCATCA
CCACCATCATCACCATCCCTGTCAAGAGGCATGTGGTGACTTGGCACTGGTGACTGAGGGCTAGGGTAGAGCCTCCCATGCTTCTCTTTTGTCA
AGTTATTCTTTGTTGTGAGTGCTGAGTGCTTCAGAAACGGAATGCTGGGAAGCCCCCAGCCTCTCCACAGCGTCCACAATGCACTGCGTCCACA
ATGCACTAGTGAGGTCTCTGGACAGCAGTTATCACTGTGCTGTGTGATTGGTGGTAACTTTCTCATTTTACATTCATTAGTTGGAATTCTACTG
CAAGGAAGATCTGTCTCTCTTCCCTGTGTTGATTCAGCCTTTTACTTTGTCACCAAGCACCTAGGGGTATTGTCCCCCTCCCATAGGATGCTTT
CCCTTGCTGCTCAGATTGCCCCAGTGTTGACTGGTGGGAACACCTTCCTTCCTGGGGTTCACCACATTGCTGCCTGTGCTTTGTTGTTGTTGTT
GAGAACATCCTTAACTGTTTTTGCTTTGTCTTCCTCACTTTATGGTGCTGTGAGATGTTCTGAGATCATGCAGTTTCCAACGAGCTCTGTTCCC
TTCCACTGGAAAATAGCATCTAGAAACAGTGCCGCATGCTCATGTGTGTGTGTGTGGCGGGACTTCATGTTCCTAGAGCATCTTAGCAGACAGC
TCGGTAGGACACTTCCAAAGTATAGACAAGCCTCTGCATCTGCATGGATCTCTGTGTCAGACACATTTGTATTTAAAGATTTATTTATTATTAT
ATGTGAGTACACTGTAGCTGTCTTCAGACACTTTTTTCTTCTCTCTTTGGCCCGAAGATTGATTGATTGATTGATTGATTGATTGATTGATTAT
GTAAGTACACTGTAGCTGTCAGACACACTAGAAGAGGGCGTCAGATCTCATTACAGGTGGTTGTAAGCCACCATGTGGTTGCTGGGATTTGAAC
TCAGAACCTTCAGAAGAGCATTCAGTGCTCTTAACCGCTGAGCCATCTCTCCAGCCCCACATTTGTATTTAAAACATGAGTACTAGGCATAGCA
GGTAAGAGCACTGCTTGCTTTCTCAGAGAACATAGGTTCAGTTCTCAGTGTGTACATGGCAGCCCACAATTGTCTATAATTCCACTCCCAGGGA
ATCTCAAGCCTTGTTCTAGCCCCTGAGGGCAACAGGCACACATGTGGTCCACAAACATACACGCAAGCAAATGACCCATGCACGTAACAACTTC
TTAAAAGCTGTGAGTACACACGGTGCCGTACAGCACCACACGTTTGTTCTCCTCCCCTCATCCAGAACTTCTCTTTCCCATACAGCCACAGTGT
GTTTACGTCTGCAGTCCTAGACTGCATCAGGCCACACATTCTGGTAAACACCTAAGAGTGTCTGGGTACAGTGGATGGTAAGACATGGGGTACA
TAGGGACTTTGGAGGTCTTAGTCTCAACTATTGAATCTTGCAATTACTGCCTAATTTACATCTTCAGACAACTTTAACACCCTTGAGCATCAAG
TTTTCTTGTGTGTAAATGGGGCTGATTTTCCTGTTTGAGTTGTGATAGTTGTGGCACAGGCAGGGGAACCTCTTATACAATGGGCTTTCCCTT
CTAACCCTCTCTGCTGTGTTTACATAACTTGTTTTGCTTCCTTTACCTGGATCTATGGAAGGAGTTCTTGACTCTTCATTTCCTACACCTAATC
CTTGGTTAATTTGTCTCTAGTGACAGTCTTCATTTTGATTTTATATCATCTTAATAGTGGTAGGCTTTGTTCTGAGTGAGTGGGCTACATGGAA
GGCCTGCTACATCATGGTCTTCTGTGCTGCTTTTATATTTGTGAAAATCATTTTTTTCTCAAAACAGTGTGCTATTTACTCTTATCAGAATTCT
CACTCTTACAAATCAGCCATGGGTTCTCCCGTGCTTTTTCTTGCCAGATAAAATGACTGTCTTGTCGTTTGTATTTCAGTGTTGTCCTTTTTCC
ATCAGATAGAGAACCAGTGTGTGCTGAGGGTTAGGGGGATTGACTATGATGACTGACACCTTAGTCGTCACACTTGAGCTTAGGTGCTAGCCCT
GGCTGCATTGCAGTGCGAAAGTTTTGCTGTCATGGGCAGTCGTATTACACTGAAGTAGGGCTCTGAGTAGCCCCCATCCGTCTGGTACAAACTT
GCATTTTGGGTTTCAGCTTGTTAGTGTTGGTGATGGGAACTGACTGTGGGAGCGCAGGCTTGTGGGCTCCTTTACCCCAGGCTTTCTGCTCCAT
TTGACTGTAGCTGCAGTGTGTGGTGCAGCTCCAACTGTAATCTCCAGGTTCCTATTCTGGGAATTTTTCTTCCCTCTCACCTCCTAACCCGATA
CAGTGGTATAGGTGGAGAAGGGAGAGATTTACTCTGTAAAAAGAGAAGGTCGTGGTGGTCCACACCTTAGAACCTAGCACTCTGGAGGCAGTGG
TAGGAGGACCTCTGTGAGTTCAAGGCCAGCCTGGTCTACTATCGAGTTCCAGGGTAGCTCGAGCTACATAGTGAGACCCTGTCTCAAAAAATAA

AAAGAAGAGAGAGACAGAGAGAGATGGATTAGAATTGTGAACTTATGAAATATATAAAGTAGACCGGCTCGGACTGACGGAAACTGGATTCTAT
AAATCCAACCCAAAGCAGGTGTTGAGAAGACCTCTGTAGAGGTACATACCGTTCTTCCCAACCAGGTCTGGCAGAACTCCAAGCTCACAGTCAG
CTGGTGCAAGGGAGCCACAGCAGGCTCTGGGGCAATCATCAGACCTGCTATAAAGCAATATGGGGCAGCCAGCCGCACCAGGAAGCCTCTGCTG
CAAGAAATCTCAGTCTTGGCTAGTGGGGACGATCTCAGTGCCCAAGCCTCCAACCCATTAAATATATCTCAGGGGAGAAACTGGCAGAGGCAAA
TAGTTTTTAAACTCCCCAGTGACTCTAGTGTGCAGCCAAGGTCTGAAAATGGACTGCCTGAGGGTCTATCTCACTGTGATCTCTGCTCAAAAGC
TAAAGCCTAGTTCTAGAGTGCAGCAGGGAGCCTCAGAGGCTGCAGGGGTCAGAGGTAGACTGCAGAGCAGAGGAGTGTGCAGTGTCTTGGAAAT
TCTTAATTATGTACTGGGCGTGGCAGAACCCCACAATAGTAATGTTGTGAAGGGTTCTTTCTCTAAAAGGAATCTTTTCCATACATCAACAGTA
AGGCAGGGCATCCCCAACCTTTTATATATAGCTGCCTAATAATACATAAGGAATCTGCACCTATATCCTTCACAATCACCCTGTTGGGAATGGA
CTGTCATGTGGCCTGCTTAGATATCAGTGACAGGTAGCTGCAGTCATTTGAACATCTTTAGGTGTATGTGTGCAGATGGTGAGCATTGGTCAGC
AAGTATGAGACGGTGTAAGGGAGATGAACAGAAAACTCAGAAGTCGTTTAAGAGACAATTCAGAACTAACAAAACCAAAAACCCATCCACACTT
CTGAAAATGGGGAGGATAAGGAAGTCTGGAAATTGATGTTCAGTAACATTGACCTCCAGAGTTAGAGGAGAGGCGTGCGCGGGCAGGTCCTCTA
GTCCAGACTGGTGATCTGAGCAGTGGGCAAGGGAGCAAGGCAAGAAGTGGGGGTGGGGAAGAGTAAGGAAGGAGGAAAATAAGGGTTCATCTCA
TCAGTCACAGACAGAAAGTGTGTTAAGACTTAGAAAGGGCAGGTGACAGTGACAAGCAGGAAGAAGTAGCTTTTCATTCAGTTATACTCTTGAT
GAAATTGCTAAATTCTTACAAGATATAGTAGAATTTGCTAGAAAAATATCCGGGCCAGCAAAAGAACACTTGAGGGCTGGAGCCCAATGCCTGA
CACCATGTTGGGTGACACACAATACAACTCCAGTTGCAGGACATCTGATGCCCTCTTAGGCCCCTAAGGCATCTGTACATGTGTGCATATACAC
ATACACTGACTGCACACACCATCTTTGTTTAAAGCTGACTTAGGGTGGTGTGGTAGAACAGGGGAGAGAGGCCCTTAGAGTTCATTGGCCATCC
AGTCTAGTCAAATCAATAAATTTTAGGTCCTGTGACAGACCCTGTTTTTAAAATACTAAGGTAGAGCCTAGCATAGTGGCATCCGTCTTTAATG
CCAGCACTTGGGAGGCAGAGGCAGGTGGAGCTCTGTGAGTTTGAGGCCAGCCTGAGCTACACAGAGAAACCCTGTCTCAAACAAAAGGTGGAGA
ACCACTGAGGAAAATACCCAGCATCAACCACTGGCCTTCACATGACATGCATGCATGGATGAATGACAGCTGCCAAAGGCACCAGGACTCAGAA
TGTCGACATGGTCAGGCTATTTATTCCTTGTACTTGAAGTAAGAAAAACATATCTAAAATTAAAAGTAGAGTAGAGGCTTCATGTATGTTCATG
CTAATGTCTGAGTGAGCTGTGTGTTGTTCACATGCCTTTCAAACATTGAGTGATGGCTAGCAAATGACCACAGGAAGAAAGCACAGGGTTTTCT
TTGCTTTTTATCTTAGGTTTTGTTTTGTTTTAAGACAAGGTTCCTCTGTATAGCCCTGGCCATCCTGGAACTCACTCTGTAAACCAGCTGTCCT
CAAACTCACAGAGATGCCTCCGCCTCTGCCTCCACCTCCACCTCCTGAACACTGGGATTAAAGGTGTGTGACACCACTGCCCAGCAAAATCACA
GGTTTTTAAAACTATTTCATTGTGTCTCAGAAAATAGCAGTATATTCTTTTCAGGTGTTTTAGAGGTAGATAGCTCCTTTTTCTTAGAAAGTATC
TCCAGGTCTTCAAGTGGAGTGAATCATAATAGAAAAAAAAAAAAAAAGAAAGCAAAACAAAACAAACAAAAATCCAAGCCACTAATGAAGTGTT
CATTTTAGGATTTCGTACAGGATAAAAGCTCTGGGGCAGTGCTGCATTGACAGCCTCCTGGAGCTTGTTAAAATCAGAGTACTGGACAGACAAA
ACAAAAGCCAGTGTGGTGGTAGTGCACACATTTCGGCCCAGCGCTCGGAAGCAGAGGCTGCTGGATCACAAATTTGAGGCTAACCTGGTTTACA
GAGGGCGTTCCAGGACAGCAAGGACTATACAGAGAAACCCTGTCTCAAAAAACCAAAAATAAGTAAATAAATAAGGATGTTGACTGATAGATTC
AGAAAGGAAAAATCCTATAAATTGGTGTAAATTGCCACTGTTTTCTCTGCTTTCAGATTAGTCATTAAGTAAATACTTATATAGGGGTCCTGAG
CTGTGTGCTAAGTGTTGTGGCATACAAAGGCAGTGTGGAGCTCTGGGCTGGCCTGCTGGGACTCTTCCTTGTACTTGACAACTGTGTGGGACAA
AAGTGCATTCTTACAGGGATCCTAAAGTGTTCATTGGAGGGCACCTCCCTACTAATGTGAGGAATAACCCTGTATGTTGTTCCCTGAGTTCATC
TCCACACCCACACGTAATGCACTGCTTGCCTATGAACAGATGAATGAATGAAATGCCAGCTCTGTTCAAATGCTTTAATGTAGCGCCTGTCTTC
TTTTTTCTCTTTTACAATTAAAAAAAAAAATCAGTTGTATGCTTATGCATGCTTTACCTGCGTGTATGTCTGTGTACCATATGTATGACTGGTG
CCTGAGGAGGGCAGAAGAGGGCATCCTATCCTCTGGAACTGGAGTGATAGGTAGTTGTGAGCCACTTGTGGCTGCTAGGAACTGAACCCAGGCC
CTCTCTACAAGAGCAACAAGTGCTAACAGCCAAGCCATCTGTCCAGCCCCTTTGTTTTCTTCAGAGACAAGGTCTCCTGTCACTAAGGCTGGCC
TTGAAATACTGGTCCTCTTGCCTCTCTCTGCCTCTTGAGTTGAGTGATAATCCCCCAAAGTGCCCGTGCCACTATGCCCACTCTAAACTCTTAG
TTATTTACTTTGTGTGGGTCTGGGACTCATACCTCGTGCTTCAAGAGTGCGGAGTAAGCACTCTACTCTGAGTCCTATCACCAAGCTCCTCAGT
ACTTAAAACTCCCTGTTGTTGTTGCTGCTATGTGTGTTTGCTTGAGAACAGGTCTCACCAGGTAGCTCTCAACCTCCCAGCTCTTTATGAAGCC
CTAGCTGCTCTCAAACAGGCTGGGATCCTCTTGCCTCTGCTTGCCAGACGCCACTACACTTAGCTTTGGAATGCTTCGCTTCTGCTAGCAGTTT
CAGGCTAGCCAGGATCATCTCACCAACGGAGGAGAGACCACAGACAGAGTTGTTAGGCGGCAGAATGACACTGGCTAATGTTGAGGTGTGCTCA
AGTCCTCTGCTGTTGTAAAAGGAAGAGCAGTTAAGATCATAAAAGCCATTCCAGTAGTCAGGACCCGCGCCTGCCCTGGGCTAGGGTCTGGCTC
GCAGTGCACCCTTCCCCTGAGTTAGAGCAGGAAGGGAGGCTGTGTGGGGGGAGTCTGAGCACCATGCCTGACAGGAATGATGTCCTTGTGGTCA
GTGGTTAATGTACCTCGCTGCTTTACAAGAGTCCCGGCTTGCCTTCTTGGGGCATAATAACATCCACTCTCCTGGGAACCCTTGCCCAGTGTCA
TTGACTGGTCCCACCCTGGGTTCTGCTAGCCAGATGACCAGTCTTTCCTAGTAGTGATGCCATTACAACACTGCCGTTCAGAGCCCATCACCCA
GTCTTTGGGGACGAGTGCAGAGCTATCAGACACCAGCTACTATAATTAGAAAAGGGAAAGCAGGCGCTCACCGAGCTCACATCTTAGGCTGGGG
CATTTACAGCACTTTTTTTAAAAAGTTGCAGCCTCTTCCTCAGTTTTGCTTCCTGAAATACAAGCTGTACAGTTTTGGGGTTCTCACATTTCAG
TTTTTGTTACTGCTGTATGCTCCCCACCCCCATTTTAATCGGAGAACAAATTGCTGTCAGCACATCGAGTTCATGTGCCAGCCACATTCAGAAC
AGGGTGTTCTGTGCTCTTCAAAACAAAATTGCTCTAGGGCAGTAAGAGAACAATAAGTCAGAGCTCAGTTTAAGTGATGTCTGCAGTGACCAGA
CTCACTTGATGTGCTTACACTCTGGATTGCACAGCTGAACTTGGCTAGTTTGGTTTGCTTTGACTTTGTGGGGTTTGTTGGAGTACCCCCCTTA
CAGGTTACATAGACTTTTAAGTCAAGAGAAAATATTGCCAGTTTTAAACTTGTTTGTTTCTCTTTACCAAAAAAAAAAAAAAAAAAAATCCCTA
AGAAAAGCCTCCTGTGTGCACTTGTGTTCACTTGGAGACCATTGTAGATCATTTGCTTCCTGTAAATCATGCTGGATGAGATTAGCAGCAGACC
TCCTGAGCCCTAGAGGCTGAGCTCCCGAGTGAGTCATGGTGGCTTGTATTAAATATTTATGAAATGAGTATTTGTGCTATGGAATACAAAGTCA
AAAGCACCCACAGGTCTTCCAGAGTCAGAGCAGGGGAAGTGGGATTACTAGGAACCGGGCGCCTCTGCATGGATCCGCTCAGAGCAAGTCCTTA
CTGTGCAGAGGCCTGCCAGGGCCCTGGTGCTGCGAGCTCTCGTCAGCAACCTTGCAGGACTTGTCACACCAGTGTTCAGAAGCCAAACAATCCA
GCCTGTGGTGACCTTTCTCCATGTACATGGAGACAATCATGGGCTGTGTTTACCAGCTCTGACCCTTCATTTTTCCTGACTTAACATTCCATCA
TGTCCTGAAGTGATTGGTGCATGCATGTATGTGTGAGGAATCGGGAATGTCACCTAAGATCTCTAATTTGTATTATTATGTATGTAAGTGTGCA
CGTAGAGTGAGAAGAAATGATTCCCCTCTTCTACCACTGACGCCCAGGTAATAAGATTGGGACATCAGGTGCAGGCAACCTTGGGCTAGCTGCT
GATTTTCCAGACACAATTGGACAACTTAAAAAATCCACGTAACTCCATGTTCTAGGGCTCTGATGCCCTCTTCTGACCTCTGTGGGCACCTGTA
CATGCATAGCATATAGTCAAACACACACGTATGTAAATTAATAAAACCTTTTTTTTTCCTTTTTAGATTTTTATGTGTATATCTTTTTTTGTCT
GAATGTATCCATGCAGTGCCCATGGAAGCCAGAAGAGGGCATTAGACCCCAGGAGCTGGAGGCACAGACAGTTATTACAGTTACTGGCTTCCAT
ACAGATGCTAGGAATGGAACCCCAGCTCTGTGGCACAAGCAGCAGGTTCTCTTCCCCACTGTCTCCAGCCCCAGCAATTGCCTTCCTGCTCTGC
CTTTGTCACATCCTGACTTTCTGGTTACTTTTTGCTTTCTTCTGACATTCATTCATCTTTCCTGCACACAGCGATGCTTAGCACACGGAAAGAG
AATGTCTGAAATTTTTTACAGACTCTGGGAATCTCACTTAGGTCTTTGGTTTTGTTTTGTTTTTTTAAGATTTATTTATTATATGCAGCTGTTT
TCAGACACACCAGAAGAGGGTATGGGATCCCATTACAGATGGTTGTGAACCACCCTGTGGTTGCTGGGAATTGAACTCAGGACCTCTGGAAGAG
CAGTCAGTCAGTCTGCTGAGCCCTCTCTCCAGCCCCCTGTTGTGGATAGCCCTGGGGCTAATTATATTTGTTAATTCTGTTCTCCTGTGAGTAG
TTTAGAACAAGGAATGAGTCAGCACTCAGGTGATTTCCTGTAAACCTGCTTCCCACCTTAATTTGTAAAATAAAGGAGAGCTGATGATTGGGCA
GATAAAGGGAAGGTGGAGAGGAAGGTGAGAAGAGAAGAAGGAGAAAATGGGAGAGAGAGAGGATGCAGAGGAGGAGAAAGAAGAAAAGCGGAGT
AGAAGCACATGGTCTGGAGAAACCGCAAGTTCTTTTTTTTTTTCCACTTTTTATTAGGTATTTAGCTCATTTACGTTTCCAATGCTATACCAAA
AGTCCCCCATACGCACCCACCCGAAACCGCAAGTTCTAAGGGATCTCTTAGATGGAGAAGATGGCAGTGTAGCGGTAGATCTGCCCAAACTAGG
CACACATCATGTATTCATATTAATTGAGTTGTGTTTTCATTGCCGGAGCATATTTGGGTTAGAGAAATTTACCGCAACAGCCCCCTCCCCACA
CACTTAAGATTTTTAATTACACTTTTATATATTATGTAGATAAGCTTGTACATAGAGGTAAGACATTCCACTCTGCAAATCAGGAAACTGATTG
GGGATCCTTTGCAGAAGTCTGGATTTCCTGTTTTGAAAACACATTCAGATTTGATCAACCAAAAGCCACAACAAATGTAGTTATAATTTCCTCC
GTGCTGAAGGCACTCCATTGTAGGGAGGAAGGTGATGGTGTGACAGTAGACCTCAGTTCTCTTCCCTCGAAAGTCTGTTCAGTTGGCAGTGCCC

AGACTGATAAATCTCAGTACCAAAGAGCTGCTTCCGTGGCTCGGCAGGAGTTCCTGCACTCACGGACAGCACCATCCATTAGTCTAAATTCAGT
TATCTGGACAAATTTAAAAACAGTAGTTACATGAACTTATAGTTTTGTTTGATTGGTTCTTCCATGTATATTTATTTATTGTGGTTGTTGGGAC
GGAGCTCAGGCTCTGTACCTGTTAGGCAGGTCCCTAGCACCAAGCTACACTTCTTTCCCTGCCTCTCCCTTTACCTCTCATCCTTAGGTAGGCT
ATGGCTGTCTGAAGACCTGGGCCTACAGGCCCAAGTCAGGCTCAGCTTAGACACCTAACCTAAGAACCAGGAGACACCACCTCTTCTCCACAGA
GAACCCCATAAGCCTCAGGGTGTGCCCAAGCCTCTGATGCTCACACTTTACAATATGGTTAATTCTTTGTTTAAACTAGAAGATGCTGTTGACT
GCATCTGCTGCCACCCAGCTGGGTGCCTCTGTGCTGTATGCAGCCTGCCTTGGTTTTGTTTTTTGTTTTTCCTGTTGTATGTGCACTAAAAGTG
GGGGGGGGGGGGCTGTAAGTTAGCTGTTTTATCTAGAACATTCCAAAAGTTAATATAATATATAGAAGTCATCATATAAATGAGTATGGCTATA
AAACAAGAGACAGTAGGCGACATCTGAGAGCTAGGCTGCTGTAGCCTTTGTCTTGTAGGAACTGACTTAGGATTTGACTTGACAGCAGTAAGAG
CAGCCAAGATGGTGTCTTTCCTAGCTTTAGTGCGACTCTGAGGTCCTGATGTATAGCTTACGGCTGTTTATCTTCCAAATTTTCTCTCATTTCT
CAGGCCTAGACTAATGGTGATCCGCTCAGATGATTAATTAATTAATGTGGAATTAGCTTTGAAGCTAGTTTCCAGGACGAAACAGTCATAGACT
TTGAGGGCTTTTAACAGACTGTTGAGATCAGATAGTAAAAGTAGAGTAAGTTGTAATTGGATTGCTTGGAAGATGATAGTATGGAACTAATGTT
TAAGAGAGGGTGGTTTCTCAAGACTAAGGCAAATTACTGGCCCAAAATAAGTTAAGCGGCCTTGTCAAGAAATATTTTAGGAAATTACTATATT
TGAGGTAGAAACTACTCTTCTTGTCAAAGAGAGATCATGGTGCCTATCGAACTATCTCACAAGCCGTCCATTTTTCTTACTGAGTAAAAGGCCT
AATTGAAAAGGCACATAGCATGAGTATTACAAGTAGTTGAGCTGGGGGGTCACTTAGTGCTTGAGTGATGGCCTTATTGCACAAGTCCCTGGAG
TCTCCATGACCACACAAGAGAACTGGATACATGCCTATAGTACTAATGCGCTTGGAATACAGGGGCAAGAGCAAGAAGAGTTTCAGGCCAGCCT
GAGCACGTGACCTTCATCTAACATGTATGCAGTATTGGAGAGCTAGCATGGAGACCTTCATCTAACGTGTACAGTATTGGAGAGCTAGCATGGA
GTCCTAGGCTTTATTTCTTGCTTATATACTTTTTCCCAAGCATCTCAAACCAAAATACTGTCACAGATGGTTAAGCCATTGTATGTATTCAATA
CTAGATATATGGCATTCTCCTAATGGTGTGTTTAAATGAGCTAGTGTATCTTGACTCTGTGTCACAGATAAGAAAATAAGTATACATTTAACTT
AAAATGGAAAAACTTTTGTTCTTAAACTTTCAGACTAGGTGGGCAAAGCTTCCAGAAGACACTGTGTGTCTTATGAACTGCAGGGGAAGTAGTG
TTACTGCACTGTGGGCCAGTCACTTGGCAGGCAGTGCTGAGGGGTGGCTTGTGACTGTCCTGTGTCCTCACCCTCAGTCCACCTGGAAGGCTGC
TGTGGTGGAAGGACATTTGATTGCCGAGATGTGGTGTTCGTTGTTGGGGAAGGAGAAGACCACGAACATTCCGATTGGGATCGACAAAGCCCTG
GTGAAGATGCAGAGAGAAGAACAGTGTATTCTATATCTTGGACCACGGTAAGACGTGAGCGCCCGTTTCAGTGCAGTGCAGCCCGGCCGCCTGA
AGACCAAGGACTGCTTGCTCACTCTCATTCTCACTCTCTCAGTGCCTTGTTGGCGCAGGGAAGCCATTGCATTGAGTTGTGTGATGGTTAGTCT
GAAACTTGGGGCCTCACACCACCATAGAAGTTTGCGAGTGAGTTGGCTCAGCTGGAGTATATCTAAGAATAGGACTATCAGTGTAGCCTTGATT
TTGATTTGTTTAGCTGCCAGGATGCCACATCAGCAAAGATTGACTTGATCCTGTGGCTCTCCTGCTCTGCTTTTCTCTGAATTCAGCGAGGGCT
TTGGGAACTGCAGTAGTGCATGATTTACTACACTTGAATCCATGCCACGTTCTTCTATGGAGTCCCTGAAGGAAGAAAGAGCCAGCTTGTTCTT
CCTGGACCTAAAGGCAGCGGAGATGACTCATTTTTGCCTAACTTTTTCCCGTCATAAGGATAGCCATTAGCACTGCCAAGCTTAGAACCATCCG
GCATGACAGTCTCCTGTGAAAACATGCTTCCTATTATTTTTAGATCTAAAATTATACCATAAATTCATCTCTTCTATCTTGAGAAATGGGCCCC
TGAGGATGCAGGAGTGCTGCCTGTGTGCAATGGCATCTGCTTGTTGCCACTGCTAAGACTGAGACTCTGTGGGCTGCCCTCACCAAAGGGAACA
CAGTGCTTTTGTCCTGTCTCTTGCCTTGGAGGGGTTTTGCTATAATTCACTCTCCAATAAAGCTATTTCATTTTTATTGAAAGAGCTTTCCCCC
CTTACAGAGTAGGTTCTTCATAACCTACAGTCACTAATCTGTTTTTTGTTTGTTTATGAGATGTATTCTTTTATGTTGTAGCCCTGACTGCCCT
AAAACTCAGTATGTAGACCAAGCTGGCCTTGAACTCACAGAGATCCACCTCCTTCTGGCTCCCAAGTGCTGGGATTAAAGTTCTCTGATTATGT
TTAATCTACCATTCCAAAATTATAGTAGCTCTACACTCAGGTATCTCACGTATGGTCTTACAGTTCAGTTCTTTAAAGATGGCTCTGTAAAGTC
TGAGCATTCAGAAACACATAGCCCAGATCTAAGTTTTAACCTTGCGGTAGATGCTTTGGAGAGCAGACTTACCAAACTTAACAGCAGAGTGAAT
CAAACTGCCTCTGTTTATTAGTGCAGCTAGTTCTCTGCAGGTGTACAGTTCCTGGCTGAACGACTCTCTGCAGCCTACCAGTGGTGGCACCTGG
GCAAGTCACCTAACTCCCCAAGCCTTGCAAGGTTGCAGAGGCCCACATGGAGTAATGAGGCAGATCACTTAGCACACCGCCCCACCCTGCCCAT
TAGCTGTTACTGTCTCAGCGATGGCTTTCATTCATTTTCCCCTTAGACCACGAGAAAATAGAAATCTCTGCAACAAATGGTATTTTTCAAATCT
TTTCAGGCATAAAAAGAACGTCAAGTTCTCCTACGTTGTATATAAAGGGGTTCCTCCCCTCATTGGGGGTGGGGGGTGTGAGTGCATATGTTAG
TACATCTCCAGGGCGTTTGCTGGTACATGGAGTTCTGCCAATACATTCTATGTAATGCTCTCCATACTGTCTCCATGTGTGTGTGTCACACTGC
CCATGTAGGTAGAGCATCCCTAAGCAGATTGGCTTGTCCTAGTCAGAGTCCACCGAGTCTGGGTTGCTTATAAAATGCAGATGGAATTCGTACT
CAGTGTCTTCTGCATTTCCCTTCTACCCTACCCCAACCTCACCCCCACCTTGACATCTGTAGGCTCCTTGGCAGGACGTTTTCATAAGAAACTA
ATAAAGCATTCAAGTTTCTCTCTCTCTGGAACACTATCTTTTCTTGGTAGTGTTCTTTAGAATATTGTGGCAAGGGTGTACCCTATTTGAGACA
TTGCACCCTCAGATTTTTTTTCTCAATTTTTAAAAATTTGCTGTTCTCCTCAAATAGATAATTAAATATTGTGACTGATTTCTATGTAGGCTAA
GTATAGATGACTACTTTTTCCTTCCTTTTTCTTTATACCTGTTTTGTAACAGTCCCAGACAAACCATAGGCTGTTGAGAGTGGTCAGTGTGTGT
CAGCCTTAGTTATCTTAGGACAGGAAGGTCTGAATGTGGTTCTGCCTCTATATCACCTCTCAGAAAGCACATGTCTCTGGCCTCCGCTCTCTCA
CCTGTAAGAAGTAGCTGGCGAGGGCATTCACAATGCTGTGTTCTGCAGGGTTGGCTGTCCCTCCACGCCCTTAGTGTATCTTCCCTCCAAGGCA
GCTGCCGTCCAGAGGCCTTGACTCTGGACTTCCATTTCTGATGGTTGTGAGCCACCATGTAGTTGCTGGAAATTGAACTCAGGACCTCTGAAAG
AGGTCAGTGCTCTTAACAACTGGCCCATCTCTCCAGCCTGTAAGTTTCTTTTAGACAGGTTTTCATGTCCTCAGTACTATGGATGTTTGTGGTG
GATCCCAGTTGTGGCAGAAGAGGGTTGTCCTTGTCCCATAAGGTGTGCAGTAATATGTCTGACACCTACCTGCCATCCAATAGCAACTCTAGGC
ATTGCTTAATGTTCCTCTGACAAAGAAGGGTTAAACATCAATCCAGGTAAGTGACATGGTTCCAAAGTGATGCCAGGTCATCTGTCATATTCTT
TCCTCCCTGGTAAAGACTGCCAATCATAGCATGCTCTCAGCAACAGACTTGAGAAGTACCCATCTGTATGCCTTCTTTGCAGCGAAGAGAGGGA
CAGACCTTACCACAGGCAACACACACACATTCATACTCCAGGGAAAAAACCCTGGCTACGTTTCCAACATTGCCACTGGCCATTGCTCCCTTTT
CGAGTGATGCCCTCTGCACGGTGTTAAGGCTGCCACCCAGTTCTTCCCCAGCTCTGTGTGCCTCTGCTCCAGCTGTGCCTTTTCTTTTCTTTTT
TTTTTTTTTTTTTTTTTTTTTCGAGACCGGGTTTCTCTGTATAGCCCTGGCTGTCCTGGAACTCACAACTCACTTTGTAGACCAGGCTGGCCTT
GAACTCACAGAGATCCATCCATCTGCCTCTGTCCCCCAAGTGCTGGGATCGAAGATGTGTGCCACCACCTTGTATTTGTGCCTTTTAAAGTCTT
TAATGCCACGAGACTTTAGGATCATGAGAGCTGTTGTCTCTGCTAATGTGTTGCCCCCTGCAGTTTTTCTGATTGGAGGTAGTACTCTTGGAAG
TTGACCCTTCCTTAAAGTGAAAAGCTTGTTTTGAGTACACATGGACATGTGGGAAAGAGTTCCTGTGGGGGAGGGAGTGGTGAGGGAGCTGGGG
TAAAATGAGAAATTCTATATACAAGTACGAAACTGTAACAGAACAGTAAAAACAATTGTAATAAAATAGCAAAAATGTTAAAAGTATTCAAACA
GAATTATAGTGATTTTTACTACTATAATAATTATAGTAATAGACTCTTCTGTCCTTTCTGCTCATAAAGCTTAAAGGAAAAAAGTCCTTGTAAC
CAAACAGAAAAGAATAAAGTCTAAAACCAGGCATCGATATTGAACAGCATGCTAAGCACACTGTCCTAGGGAGTACAGGAACTGTGCGCCTGCG
CTAAGAGAGCATGCGCTAAGAGAACACGATGCAGCAGGTCTCAGGAAACCACAGCAGGGATTCCACACAGAAAACCAAAGAAGTATACCAGTCC
TCCTGAGTCTTGTTTTTTCCTCTCCGTTTCAGCTATGGTTTTGGAGAAGCCGGGAAGCCTAAGTTTGGCATTGACCCCAATGCTGAGCTTATGT
ACGAGGTCACCCTTAAGAGCTTCGAGAAGGTGAGCAAACCCAACTTCGCTAAAGCTGTGGTGTGGGGTCTTCTCATCCTGTGCCTGTAACTGTG
CGGTAGATGACTTGGCTAAATAGTGTTTGTTTCTGTGTTTGCTTTTCTTCATCCATGACTCTTGTCCCCCACACTTCTGCTCCGAGCGTGGGAA
GCTGACACAACACAGTTGATACAGGAGAGGAGCTGGTGTTCTTATTTTTTACTGTGTGTTAGCCTCTTTTTTTCTTTTAACTTTTGGGTAGAAT
CCAAGACTTGTTCCTGTATTTGTTCCTAGGCTTGTTCTTTTTGTACTTTTTTTTTCCTGAGTTGAGGACAAAAAAGTTCACGTACTGCCAAGCAG
CTCCTTAGGGGAGTTGGGGTGCAGCCTTTCAGTGCTGAAGGAATTGCACACTCCACAGGAGTTACAAAGAGGCCTCCGCTGGGGCTCCAGGTTA
CAATCCCAGTGTCTCAGCCTCGGGACCAGCAGCTGCAACCAAGGAGAAGAAACAAACGTACCCAGGCTGTTTCTCATACGTGTCCAAGAACAGG
AGAGGGAACTTGCCGTGGCCTTCAGGCTGGTGTACCTCCTCGGACAGCCTCCAACTCTGGGCTGTCTTTGCAGGCTCCCACCTGTACTGCACGG
TGTCCCCATAAGCTGAGTAAGCTGTCATCCTCAGCTGTGGCTCCCCTCAGAGACCGCCTTTCTTATTACGATTTTATTCCTCTGAAATGACCCC
ATGCTCTGTCCACGCTGGACTATCGGGGCCTCGAGTTTCCCTGCCCTTTCCATAGTGGAACCTCTACCCTTCTCCGTGCTTTGTGACAACATGG
CATGCCTGCCATCTAATCCTGTCACTCGGGAGGATCAGAAGTCAGTCTCAGCTACGTAGTAAATGGAGGCTTGCCTGAGATACATGCAGTGCTG
TCTGGAAAAAAGAAAAGAAAAAGTTCCCCAGGTCCACACCTGCAAACTGATCCTGTTAGAGGCCATACTGCATCTGGTTCTGTGAATTCGGAGA

CAGCTGCCTGAACTGGGATTTTAGAAGTGCTCCATGCACGTGCAGCTTGGCCTGGACCATAAGTAGCAATCTCACTTCCAAGCTGGAAAGCAAG
CCTGACAGAAACAGCCTGCTAACGTGACAGCAGCCCATAGTGAGGGAGCTTTGGGGCTCCAGGTTACGATCCCAGTGTCTCTAAGGAGGGAGGC
TTGCTTTGTCACCCTCAAAATGCAGTCTGTGAGAGTGCTCCGTGCTTGTGTTCCTTGGACAACACAGGTCAGACCACAGCTTGCTATGGCATGT
GCTCTTAGTGGAACACCGGTGCATTGGCCTGCTGGTATCCCAGCAGCGGCCCACAGTTGCTGGGGTCTCATAGAGATCGCTGCTGTCCCCCAGG
CATGAACTGCTGCGTTTCCTCCTCTCCTCAGCTAACTGACGCCACAAATCTCTACACAGGCCAAAGAATCTTGGGAGATGGACACCAAAGAAAA
GCTGACGCAGGCTGCCATCGTGAAAGAGAAGGGAACTGTGTACTTCAAGGTGTGTGAGTCTCTAAGTCCTTTCCATGTGGGGATACCTACCCAG
TATCCATCAGCACCCTGTGCTGAGACGCACCCTCAGTTCTCACAGGCCTGCTGTGCTCTGTAGGAGGATTAGTGAGCAGAGTGAGTTCGTGTGC
AGGAGGTAATGCAGAGGCCTCTTCTGTGTGCTGTGAGCAGGTGGAGCTTCCTCAGGAGCAGGCGAGGTGGACCAGACCTGGCTCGCTCGAGTGT
GTGTGTCCCAGGTCAGAGTTCACAGGGGCGGCTCCAGCCCGCTCCCCCCTGACAGGTGAGACAGGAAAGGCCTTGCAGATCCCCCAGTTCACTT
TGGATGATCTCTCTCAGGTTGCCGTGCTGTGGCTGCTTTTATGTAACTACAATGAAGGCAAGTCTCCTCCTGATTGTTTTAATTATAATTTTCA
ATTGAAATTTTTTTTAGGCTGGAGAGATGGCTCAGCAGTTAAGAGCATTGGCTGCTTTTCCAAAGGTTCTGAGTTAAATTCCCAGCACCTACAT
GGTGGCTCACAGCCATCTGTACAGGGATCCGATGCTCTCTTCTGACATGCACGTGCGCATGTGCAGAGTACTCATAAATAAAATAAGTAAATAA
AAAATAAAAACAAATCTTAAAAATGTTTTAAAACATTTTCGCTCTTTAAATTAAAACAGCAGCTTTCACAGCAAATATCCTCAAAATAAATGTT
TAATATTTAAGGTTTTATCAAGAAATATATCATTACTTATCAGTACCACTATTAACTGAGCAACAAGATAAAGATGCCATTAATGATACTGGCT
GAGGGGCTGGCGAGATGGTTCATCGGGTAAGAGCACTGACTGCTCTTCCAGAGGTCCTGAGTTCAAATCCCAGCAACTACATGGTGGTTCACAA
CCACCCATAATGAGATCTGATGCCCTCTTCTGGTGCGTCTGAAGTCAGCTACAGTGTACTTACATATAATAATAAATAAATCTAAAAAAAAAAA
AAAATGATACTGGCTGGGTACCAAAAAGGCCCTGCAGACCGGCATGGATGACCAGGCTCGGCCCTCCCAAGAACCTGATGAGGAGAAAACACTG
AGCCTTGTGGCCACAGTGATAAGATGTCACTTACAGCTGCCCCAGGGAATTACTGCCTCTCCAGAGCCCTGTCTCCTCAGGACCCAGGAACCAG
TGCTTTATCCCCCAGGGCTGACACCCACACTCATTAAGTGAAATTTCGGAGTGCTGTGCCCATTGCTTGCCAGCCCACTTCCAAATTCCTGCTG
TCTCCACATCAAGTGAAGGGCTTCTCGATGAGTGTTCAGAGCGGGCAGTCTTCTGCTGGGCCAAGTGATGCTGTGCAAGTGGCTGACTCCTGTC
TCTGCCTTGTAGTGTGGAGACCCAAGCCAGAAGCCAGCTTTGTTGGCACACCTTTAAGCACAGGGCTCTGGAGGCAAGTGTATGTATGTGAGTT
TGAGGCTAGCCTGGCCTACAGAGCAAATTCCAAACAACTAGGGCAACACAGTGAAGCCCTGCCTCAAAAAAAAAAAAAAAAAGGACTTGGAGGGA
ACCCAAGTTTTCTTTGCTTTTTCTTTCTTTTACCAGCAGTCTTTAAACACAATTATTGGGGTTTTTGTTTGTTGTTTGGGTTTTTTTTTTTTTT
TAAGATTTTATTTATATGTAAGTACACTGTAGCTATCTTCAGACACTCCAGAAGAGGGAGTCAGATCTCATTACGGATGGTTGTGAGCCACCAT
GTGGTTGCTGGGATTTGAACTTCAGACCTTTTGAACTCTGGACCTTCGGAAGAGCAGTCGGGTGCTCTAATCCACTGAGCCATCTCACCAGCCC
CCTGGGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTTTATAGCACTATAAAGCAGAGACCTGAGGCTACTCTTCATGAGCCTCTGTACTGAGAAA
TGCTGTCACATCTACTACTGACTTACATTAGGGGGTTGGAACAAGAACACCATGTGGGACAACTGCAGAACTATGGGGCCATAGTCACCTCAAA
AGAAACACTGGCAGAGACAGTGTGTATTTGTAACAAAGTTATAAACTAACGTATGACTCATGGGCAGCCAAGCAGATGGCGATAGGAGCCCTGA
GCAGGGATCTGGAAATGGAGCTGTCCCTTCCATGTCATTGAGGCCAATCACCTGTGTTGCAGGGAGCCTTTCAGGGGTGATAAGTATATTTCAA
CATGTTTCAAATCTTCCTAAAATGACCAATCTGGATAAAATCTGGATCACTAGTCACACATACGGAACACATTATTTTTAACATGTAATCTGAT
AGACAGGATCTTTCAAAACATCAGTCTGTTGGGGGGAAAAAAATTAATGAAAGGTTCAAAATCACTGACCTAAGACTTACCCCAGAATGTCTCT
GAACATTTTGTCTCACCAAGCACTTCCTGGAGGCTCCTTCCTCATTCTAGGTGAGGAGCAAGGGCACCGCCCACCGCCGCCCCACCCCCCCACC
CCCCCAGTCAGGCTGTCTGCTTCAGAGGCTGGAGGACTGCCTTCTGTCTGCTTGTCCCTTCTCCCTTCAAAGTTTAAGGAGCCTTTCTTTTGGC
TGTGCTGCTCTGGCCAGCGTCATCTTCCCAGAGTATCTGACGTGATGTGTGCCATGTGCAGAGTGTGGGTGACTGTAGGGATGGGCTGGACTAC
AGTTCTATGTCCCTTAATATCTGCATGATCTATTCACCTGCCAGGCCAGTTTCAGCTGTGGGCAGAGAGGGACTGAATGTGGTATTTAGACTGA
TGTTGAAACTTCCTTTCAACCTCTGAACACTCATGCAGAGACACAGAAAGCACTGTCCTCATCCGGTTCTGAAAGTTACTGTCAGGCACTGTAG
CACTGTCACTGCACAAAGGAAGGCTAAGGACGCTCTGCTGTGTGCGGGCATCTTGCGCCCCCTAGTGCTCCTTGGGAAGGAAGTGTGGCCGCGG
CTGGCTGATTGTGCTTGAGAGCTGGAGTGTTGTAGGAAGAGCTCTACATCGTCATGGCTCCCTCTCCCGAGTGCAGTCAGGTCTGCCATCCCTT
GTACAGTCGTACAGGAAGGGTCCTCTGTATTCAAGCTTGTAATTACTGTGCAGAAAAGAACTGTCACCTATATTCCAGGTTTACTCGTGTTGTT
ACAAGCTGCCATTCCGTGGTGCAGCTGTACCTACAGTAGTCAGCACGCTGTCTCCACCCCACAGTTTGTTGTTTAGGGCATGTGCTATGTACAA
CATTCAGTGTTTACAACTCTCAGAACTCAGTAGTAAGCAGGACCATATCTAGAGTCTGGTTACTCTGAAACAGCGCCTCACAGGGGTCACATAT
CAGATATCAGGTGTCTACGTTCTGATTCATAACAGTAGCAAAATTACAGTTATGAAGTAGCAACAGAAAACGTTTCATGGTTGGGAGTTTTATG
GTTATGAGAAAGGGGGTCATAGCGTTAGGAAGGCTGAGAAGCACTGCCTGGGAGCTGAGGCAGGAAGACTGAGTTTGGCACTAGACTTGTCAAT
TTAGCAAGGCCTTTTCTGTGTGAAATAAAAACATCAGCCTAGAAATAGAGCAGGGATGGTGCTTGCTTAGTATGCATGAGGCCTTGGTACGGCG
GAGGAGGCTGCTAGACCAGACAAGAGCAGGACAGTCTCTCACACGGTAAGCTTGCTCTTTAGGGTTATGTACACTGTGTGCTATCAATGGCCGT
GGTCAGCACAGGGCATTCTGGCCCACCCACTCTTAACAATCACATGGTGCCGGGGTAGAGCCCCGGCACTGCAGCTCTGCCGTGCTGCCTCTGC
TTTCACTGCTACTGAGAGCCGAGCGTTTGCACAATCTGCTTTAGACAGGCCTGCTGTGTGGGGACTGCCAGTTACCATATTGCAGTATTTACTA
TCAGTGCTGAATGCCAAGAGAAAAGAGGAAAGTCACCTCCTCTTCCATAAGCCAAATGGCTCACCATCCTTTTGAAAGACTGAGGAATGTTGGT
TCCAAACAGTGTAACCTCCTGCTGCCAGGCTGAAAGAACACTGAAGCAGCCATGCGGTGGCATTACCCTGGTCCAGGCCACCTCACAGGCCAGC
AGAGCTTCCGCAGAACTAGGGAGGGACAGGAGATAGAGTGGGGCTGACATGCAGAACTATTCCGTGTGAGCACTCGGCTAGGGCAGGCCACGCT
CACACTTCACTGCATCCTTTCCAGATGGATACAAGTTGTTGGGGGCTTTTTTCTCCTAGGGAGGCAAGTACACGCAGGCCGTGATTCAGTACAG
GAAGATAGTGTCCTGGCTGGAGATGGAATACGGCCTGTCAGAGAAGGAGTCCAAAGCCTCAGAGTCGTTCCTCCTCGCAGCCTTCCTGAACCTG
GCCATGTGCTACCTGAAGCTCCGAGAGTACAACAAAGCCGTGGAGTGCTGCGACAAGGTGGGTGAGCCGTACTTCACTCTCCGTTTATCTGTGT
GGCACCTCTGCCCCCTTCAGGCTGTTCCTCTATGGTCAGCATGAGCTGGGACGCCATAAAGGATGGGGCTTTTTGTGCACTACTTTTATCCTGC
ATTTTACATAAAGCCATTAACAGAATTGATAAGAGTCTTCATCTGTGGTCTTCCTTACCCTGGTCCTTTGTGGGAGAGGAGACAAAGAGCCTTG
AGGTTCCCTCTTTATTGTTTTGTTTGCAAGGCTGGGGATTGAACCCAGGGCACTGTGCATGCTAGGCAAACACTTTACCACTGAGCCATACAGC
CTACCCCCAGTGACACACTTCCTCCAACAAGCCACACTTCCTAATTTCTAATCCTTCTAATCCTTTGAAACAATTCCATTCCCTGGTGATGATG
TATTCAAATATATAAGCCTGGGGGGGGGGGGGGGAGACATTCTTATTCAGAGCATTTACCACCATGGTTAATGCCTATGGTCTCAGCATTTGAG
AGGCAAAACAGAAGAATTGAGAGTTCAAGGCTGGCCTGGGCTACATGAGTTCTTGTCTCAAAAAATAACTATTATCAAGATAGCTCAGCTGGTA
AAGGCACTTGCTGTCAAGCCTGATGACAGGAGTTTGATTCCTAGGACCTTGTGGGAAAGAAAGAACAACTTTGTCATATGTCCTCTGGCCTCTT
CCTCATTCATAGTATTACATGTGCATACACAAAGGTAATAATAATATATTATTTTAGAGATTTATTGATGTGTATGAGGACTCTGTACCTGCCC
ACCAGAAGAGGGCATCAGTCCTCATTACAGATGGTTATGAGCCATCATGTGTTTGCTGGGACTTGAACTCAGAATCCCTGGAAGAGCAGTCAGT
GTTCTTAACTGCTGAGCCATCTTTCTAGCACAATAATACATTTTTTAAAAACAACAAAAAATAGATATAAAGTGGCAAAAAAGACATTTTATAT
AAGAGTTTAGTTGGCTTGTTTTGCCTTGAGAGAGGAATATTATTGTTAATTATACTTTTTAAAGTTTGTGCTGTTTTTTTTTTTAAATATATAGC
TGTTACAAAGTTCAGAATTTAAGCACACAAGAAAGCCCAGCTATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGCCAGGCAGTT
GGGGCTCATGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTTGAAACAGGGTTTCTTTGTATAGCTCTGGCTGTCCTGG
AACTCACTTTGTAAACCAGGCTGTCCTCAAACTCAAAAATCTGCCTGCCTTTGCCTCCGAGGGCTGGGATTAAAGGGGGGCCCCACACAAAAAA
ACCCTGACTCGAAAAAACAAAAACAAAGAAAAAGAAAAAAAGCCCAGCTATAAAATTCCCATCAACTTTCTCTCCCAAAGCCACTCATTTAAAG
ATTTACTTTATCTTTAAAATATTTGTACATGTACAGATAATATTTGTGTTATCTGTATGTGGCGCGCGCACGCGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTGTGTATGCGCAGGTGCTCCCTGGGTCCAGCAGAGGGAGTCTGATCGTTAGAGCTTGAGTCCCAGGCAGCTGTGATAGGGTT
GCTGGGCTGCTGGGAACTGAACTCGAGGCTTCTGCAAGAGCCATGCTCTTAGCCCGGGAATGGCTTCTCCAATCCTTTAGACATTTACTATGGT
AGGAGAGGTTGTCTCGCATGTGCGTGTGCACATGGTACACACATGGGCGGCCTGGGGGTAGTTCTCCTTCCCCCATGCTGAAGGACCAAGCTCAC
TGAAGCTCATCAGCAGGTGCCCTTCCCACTGAGTGTCTCTCTCCCCTCCCAGAGCATCTTTCTCTATAGAGTCCTAGTTTTTCCAAATGAAGAA

TAACTGCTTTATTTTTTTCAGTCAAACTCTCATATCCCAGTTTGACTTAAGACTTGCTTTGTAGCTGAACTTCTGGTCCTCCTGCCTCCACCTC
CTGTTGGTGGTTTGTTTTATTTGTTTGTTTGTTTTTGTTTTTGGTGGTGGTTTTTTGAGAGAGGGTTTCTCTGTGTAGCCCTGGCTGTCCTGGA
ACTCACTTTGTAGATACGGCTGGCCTCAAACTCAGAAATTCACCTGCCTCCACCTCCCGAGTGCTGGGATTAAAGGCGTGTGCCACCACCGCCC
GGCTGTTTTGTTTTTAAGATAGGGATAAAATTCAGTATTTTGTATATACTAGGCAAGCTAAGATAAACCCCAGACTTTGCATATGTATTCTTAA
AATATGTAGATTTAGGACTGGAAAGGTGGTCAGAGGCTGTAAGAGTACTCACTGTGCAAGCATATAGGGCCCGAGTTNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NTATATATATATATATATATATATATATATATATATACACTAAATAGAGAAAGATTTGGACATAGTTATTATGTGAAAGCAGCAGTCTTTCCAC
GTCAGATGAGTGCATTCTACACTTGTCCCTCACTGAGCTTGGTGTGAAAAGACTCACCTCTTTAGATCCATTCTGTGAACCATGGGGTTTCACT
TAACTGATCCTCACAGGAAGATTTTCAGGGCTTGTTTTTTATTATAAGGGTCATAATAATAACCATATAATAATAAAGGCAGTGGTGGTGCAAG
CCTTTAATCCCAGCACTTGGGAGGCAGAGGCAGGCGGATTTCTGAGTTCGAGGGCAGCCTGGTCTACAGAGTGAGGTCCAGTCAAAGCTCTCAG
CACCATCAGGGGCTCAAGCTTCACCCCCGAGCTGGAGACATTTTATACTAAAATACTGACAAGTGGGTGGACCGTGGTTGATTGTTGCGTGACT
CTTGTGCATAGTTCTGCTCACCTCCGTGTGATTGCGCTGCCTCAGCACTGAGGTGACAGGAGCGGCAGTTGTCCCTTCCAACCTGTGACCTGCC
CACCTGTCCTTCTGTTCTTAGGCCCTTGGACTGGACAGTGCCAATGAGAAAGGCTTGTACAGAAGGGGCGAGGCCCAGCTGCTCATGAATGACT
TTGAGTCGGCCAAGGGCGACTTCGAGAAGGTGTTGGCAGTCAATCCTCAGAACAGGGCCGCTCGCCTGCAGATCTCCATGTGCCAGAGGAAGGC
GAAGGAGCACAACGAGCGGGACCGCAGGGTGTACGCCAACATGTTCAAGAAGTTCGCAGAGCGGGACGCAAAGGTAGTGTGCCCACAGCCCCAG
GCTTGTAAGGACGCTAGCCTAGGGACAAGGTTGGGCAGCCTGGCTGGAAGAAATAAGACTTAGGAAGGGACTCCATGTGGGCAGAGACACAGGT
GGGAGGCCCTGGCGTGTCCCTGAGAGCTGAGGGCTGACTCCTGAGGTGGAGCAGTGCTCTTCTTGTTCTCTGTTTTGTTCTTAAAATGGTTTCT
CTTTGTGGACCCAGCTAGCTCATCTCAGAGATCCTCCTGCCTCTGGCGATGAGCGTTAGGATTATAGGCATCTGCCACCAAACCAAGTTCTCTT
GTTATTTTTAAAAAATAAATAAGGAGTTACAGAGACAAAGTGTGGAGCAGAGACTGAAAGAATGACCATCCAGAGACTGCCCCACCTGGGGATC
CATCCCATAAACCACCACCAAACCCACTATGGCAGATTCCAACAAGAGCTTGCTGACAGGAGCCTGATATAGCTGTCTCCTGAGAGGCTCTGCC
AGTACCTGACTAATACAGAAGTGGATGCTCACAGCCATCCATTAGACGGAGCACAGGGCCCCCAATGAAGGAGCTAGAGAAAGTACCCAAGGAG
CTGAAGGGGTTTACAGCCCCCTGGGAGGAACAACAATATGAACTAACCAGTACCCCCAGAGCTCCCTGGGACTAAACCACCAATCAAAGAAAAC
ACACGGAGGGACTCATGGCTCTAGCTGCATATGTAGCAGAGGATGGCCTAGTCAGTCATCAATGGGAGGAGAGACCCTTGGTCCTGTGAAGGCT
CTATGCCCCAGTATCGGGGACTGCCAGGGCCAGGAATAGGAGTTAGGTGGGTTGGGGAGCAGGGGGAGGGGAGAGGGATAAGGGAATTTTCAGA
GGGGAAACTAGGAAAGGAGATAAAATTTGAAATGTAAATAAAGAAAATATCTAATAATGAATTAGTTAAAAATAAATAAATGCAGCCAGGCAGT
GGTGGCGCACAGCTTTGATCCCAGTGCCTGAGAAACAGAGGCCAAGGTAGGCAGTTGTCTGAACAGGAGGCCACATACACAGAGAAACCCTGTC
TGGAAAAAATGACAACAGCCCTAAGCCCTTCAGTGTTGTTTCTCTGGGGAGACTTCCTAGTAAAGTCCAGGTTGGATTGGAAACGGGTGTGCCT
GTGGTGGCCTTTACTGTATTCTCTGCTGTCATCGGGAGCCTCGCTGGCAGTGGGTGTGTCTGAACACAGGTCAACTTCCTGCCCCATGGCCACC
CTGTGGTCCCAGGTCTGTCCTCCATCTTCAGCTATGAGTAGCATAAGGACTTGAGCTACTCAGCAGCTGCCTGAGGTAGGCAGCTCCTCATTGC
TTGCCACCCCTACTTACCCAGTGTGCACCCCAGATCCAAGCGTACACACTTGCTGCAGACCTGATGGACCATCTCGGGAAGGCAGTGGTTGAGT
GAGCTCCTCTTCTCCTTTCACCTCAGGAGGAAGCCAGCAAAGCTGGGAGCAAGAAGGCTGTAGAAGGAGCCGCTGGCAAACAACACGAGAGTCA
GGCCATGGAAGAAGGAAAGGCCAAAGGCCATGTATGACGCTGCGCCACGGAGGGAAGAGAGTCCTAATGAACTCGGCCCTCCTCGCTGGGCTCG
CCTCCAACTCAGGACTGAACAGTGTTTAGTGTAAGGTTTGTTACAGTCTCTGTGATTCTGGAAGCAAATGGCATACCAGTAGCTTCCCAAATGA
CCACCTGCTGCTGCGGGGGGGTGGGGGTGGGGGACATGCCAGGAAACAGCAGAGAAGGCCGCTGGTGTGAAGAGACCAGGCCAGCAGCTCAGTC
CAGCCCATTTCAGTTTGTCACCTTTCAGTGTCCAGCACAGCATCCCTGTGAACCTAGGGCCCAGCTGCTGTGGGTTCTACATCGGCACTAGGGT
CACACTGCAGAAACCGTTGATAAAACAAACTCAGTGATCTCTGCTTTCCTATTGGTGGGCATGGCAGGGGCGGGTGATGAGATTTGCTTAGCAC
TGACTGACTGGCCTGCTAAGAACACAAGCCCACAGCCAGGGGCTCCCTGGTCCACAGCTGGGTCTCAGGCCCCTTACCTGCCTTCCAAGTCCTT
TCGCAGACTCTTGAGTGTGGCTTTCTGTCCTAGCCAGCATGTCCCACAGACTCTGTTGTTCCTCCAACGCCCGTCATTAGTGACAGCTTTCTCT
CTGAGTTTCTGTGGTGTGGAGAGTGGGTAGAAGTAGGTTTATCTTTCCCGCTGTCTGCCCCACTCAAGGACGATGTTAGCGCTCAGCCATCCCT
GCCCAGCACAGCTGCTCAGCCTCATGCTCCCACCCGCACCCTTGCTGTGCAGAACCTAAGGCTTGCTCCCGTCCCAGACTCGAGTGGACGGACA
TCCATGTCCACCCAGGATTGACGAAGGAAGGAACTTCACACTCCTCTATCATGCAAAAATAGTTTTCAATTTTTACTTTTTAGCTTGGGTTTTG
AAAGGCAAACTCTAGGAGGCTTAAAACGGGCAGTTACTCTTAAGGCGAGGTAGATACCTCATCCTGCACCGCAGCCTCTGTATTCTGGTGGGAG
CTGTAAGGGTTGCGGGCTTCCGGTGTCCCATGCATCAAGCCAAAGTCTCCAAAACTTGGGCATTGAATTAGGGCAAATCTTAAATAGTTTTGGG
GTTGGATTTTAGTCCTACAGGTGATGATTGAACGTGGCTGGCTTCTCCACAGCCTAAGGAACCCCCATGGGGACACACCCACCACCCAATGACC
CATGCACCTCTGCCTGGACAGCTCACTTCCAGCCCTAAGGACCACTGTGCTCAAGATGTGTGGCTGTAGTAAGACAGTCTCATGTCAGGCATTA
AGTCAAGGCCTTCCTTCACACCTGCGGGACAGCGCTTCTGAGGCTCCAGTTCTGCTCTGCTCGAAGCAGGAGGGATGGGTTGTGAAGGAGTCTG
GGATGTGACTGGGACCCTCGCATCTCACACTCGGCACTCTGCCTCTTTCCATCCATGTTTGAGAGCCCTGGTCTCACCAGGAAGTGCAGAGCAG
GAGCCGACTGTGTGTGTAATGCTCTAGTGTTTGTAGTTCTCTTCACTAGCCTTGCAGCGCCAGGGAGGCCGGGCTGGAATTTGAGCCTAACATG
TTAGGTTTTTACGGGAAAGCTCTTTTTCCAGCTGTCTCCCAAGTGCGTATTGTGGGCCAAGGAGACTGGTATGGGAAGGGGGGATGGTCAAGGT
TCCAAGCCAGAAATGGAAGGTGCCCAGCACCCCTGGATTTTACATGTTCTTGTATTCAGTAATCTCAGACGATTTACACGGAAATCAGAAGATG
TCTTCAAATACCCTTAGACTGGATAGAGTGATGGGGAAGCAGATGATGCATTGAAATTTTGGTTTTTAAAAAATCACTTAGATGCTGGGAGTAA
TGGTGACACACACCCTTGGTCCCGTGACCTGGGAGGCCCTGTCTCAAAACAAAACAAAAAATCATTTAGATGCATTTTGTGTTCCTTAAATAAA
TTTTTTAAAAAGTGGTTTTTCATTGTTCATGGCTTTTTGTTTTTGTTTGTTTGATTTTTGAAGTTTACTTTTATCTTTGTCTGCTAGAGTT
TTGTGTCCAGCTGCCCTTGGGGACCAGAAAGGGACTTTGAATCTCCTTGAAATGAAGATACAGTTGTTAGCCAGATGTGGGTGTTGAGAACTGA
ACCCAAGTCCTCTGAAAAGCAGGAAGTGCTCTTAACTGCTGGGCTGCCCCTCTCCCACCCCTCCATTGTTTGGGTTTGACTTAAACACTTGATT
TTTTTTATGATTTTTTTAAACAGATTTATTTATTGTATGTATGTGAATACGCTGTTGTTGTCTTCAGGCACAGCAGAAGAAGGCATTGGATCCC
ATTACAGATGGTTGTGAGCCACCATGTGGGTGCTGGGAATTGAACTCAGGCCCTCTGGAAGATCAGTCAGTGCTCTTATCCACTGAGCCATCTC
TCCAGCCCCTTTTTATGATTTTATTTTATGTGTATGCACACTTTTTTGTGATGCTTTATTGAGTTCCTATGGAACCCTTCTAACCCCCTACCTC
AGGTAGGGGAGAAAGAAGGTTAGAGGGGGGAAGGGGGCATAGATCTTTTCAGACTGCTTCTTGCTGATTAGGGGCATCGAGTTCCTTGGGTCAA
CTTCAAACTTCATTGTCAGAATATCCAATCTACTCGTCTCTTTGCTCACAGCCTTGTGACAAGCCACAGCAGCAACAGACACAGTAGCCTCCTC
TGCAGAGCGCACTCCCACCTGATAGCCCCTCTCAGAGCTCGGCATTTATACCCTATGAGAAGTTCCCAGAATCCCAGAGTTCACAGAAACTGTC
TGCAGCTGGCAAAACCACGCCTCTGCCAGAGCACGAGGCAAATGATAGTCAGCTGCTGTGAAGCAGTCACCTATCTCACAACATAGTCACATGA
CATACCTGGGTTTTTTAGGAAACCGAAATTCTCACATGTTTACCTGCATGCATATACATACATCATGTGCATGTAGTGCCCAGGGAAGGTAGAA
GAAGGCATCAGAGTCCATGGAACTGGAGTTACAAGATGGTTGTAAGCTGCCGTATGGTTCTTGGAACTGAACCCACATCCTATGCAAGAGCAGC
CAGTGTTTTTAACCACTGAGCCATCTCTCCAGCCCCTGATTAAATAGTATAAAAAGGAAAAAAAGGTCTACAGCCATCATGCCCTAAACCCACT
GAATCTCCACTGATCTCAGAAGCTAAACAGACTGGCCTTAGTCTATTGCTGTGATAACACACCATGACCAAGGTAATAATATAAGGAAAAGATT
ATTTGGAGCTTGCTGTTTCAAAGTTAAGAGAACCCATGTAGGGGGCTGGAGAGATGGCTCAGAGGTGGAGAGCACTGACTGCTCTTTCAGAGGT
CCTGAGTTCAATTCCCAGCAGCCACATGGTGACTCACAACCATCTGTAATGGAATCTAATGCCCTCTTCTGGCATGAAGGCATATATGTAGGCA
GGCAGACTATTGTGTACATAATTAATAAATAATCTCTCTTTTCTTAAAGAGTACATGGTGACAGGCAAAGTGGAAGAAATGTCAGAGAGAGCTA
TCTGGGAATAACATGAGTTTGTCAAACCTTGAAGCCTATTCCTAGGAACACCTCTAACAAGCCACACCTCCTAATCTTTCCCAAGAAGTTCCAC

CAACTAGAGACCAAGTATTGAAGCCCATAAGCCTTTGGGGACCATTATCATTTAAACCACCTCAGATGCAGAAAAGCTGTTGGGTTGAAGAACT
CTAGTAGAATTCAATTGAAGAATGTGGTTGAGGGGCTGGAGAGATGGCTCAGCAAAGGTTAAGAGCACTAGCTGCTCTTCCAGAGGTCCTGAGT
TCAATTCCCGGAAAACACACGGTGGCTCACGACCATTTGTAATGGGATCTGATGCCCTCTTCTGCTGTCTCTGAAGAGAGCTACAATGTACTCA
TATACAATAAATAAATAAACAAACAAACAGACAAACAGACCAGTTCTCCAACTGAACCAAAGTGCATCCATTTTGCTGGGCTGTCTGGCCAATA
AGGTTCAGGGACCTACCTATCTACATAGCCCCAGTTCCCCAGTTCCAGATGTGGTGCCCTCTGTACCCAGCTGTGTGTGCCACTATGCCGTGGA
TGCTGGGGATCCAAACTCGGGTCCGTAGTGTAAAGTAGGAGCTTTCCCAGCTGAGCCATCTCCCCTGTTCCTTAAAGCCTTTTTGACAGACAGT
CTCCACATTTGTCTGAGTTTCCACTCTCCAGACTTTGCCTCCTGTTTGCCAAACCACCTGGTTCTCTTGGGAGACATATTGAAGGGCTTACAAT
TTGCATAATGAGATGAAACCTATCTACCCTCAACAAGCATACCAGTTAAGCATTGCTGAGCCACACTGCCCCAACCAGTGGAGACACATGCTCA
TGGTTGTTGGGAACTGCTGGAAATAGAAGGGTACTGAACCACAAATGCCCCATCTCCTTGTGTGCACAAAGAGCAAACATTTGGCTTCATAAAT
TGATTTTGGTTTAGTTTGGTTTTGCGTTTGCACTTGAAATTAAGAACTAATCCCTCTTTTTGGCACGTGTGTGTGTGTGTGTGCCTGGTA
CGGAGGTGCATTTGCACAGGTGTGCTTGGGAGTAGAGATCAGAAGTTCACATCAGGGCTGGAAAGATGGCTCAGCGGTTAAGGGCACTAGCTGT
TTGCTCTTCCAGAGGTCCTGAGTTCAATTCCCAGCAACCACATGGTGGCTCACAACCATCTGTAACGGGATCCGATGCCTTCTTCTGGTGTGTC
TGAAGAGAGCAACAGTGTACTTACAAACATTAAACAAGTAAATTGTTAAAAGAAGAAAGGAGGGAAGGAAAAGAAAGAAGGAATGTCTGCCTTT
TTCTTTGTTCCCAGCTTATACATGGAGACAGAGCCTCTCCCCCTGAATCCAGAACTTGTCAAGTGAGCTCAAACTAGCCATCTTGCTCGGAGGT
CCCCTGTCCCCACCTCACAAGCACTGGGGTCACAAGGTGGGCACCCTTGCACTTTCTTCAGTATTTTCGTTTTTAGTTCCAATTGGACATGAGT
AGCCTCTCTGTTTTCTTCAATGCAAATACTGCTGCCTGGTGTAAAAGGCACTTCCTGTGCCCTTGGAGGCACAGCTTTCTTCCCTGAAATCCCA
GACGCTGCCAGAGACAGACAGACAGAGAGAACGCTCGCACACATGATCACACATGCACACGAGTGAGTGCAGGTGTCCCCAGGGGCCAACAGAG
AGCATGCGATTCCCCGGGGTTACAGGCAGTTGTGAGCTGCCATGTGTGCTTGCTTGGGAAATGAATGTGGATCCTTTGAAAGAGTAATACCAGC
TCTCCATTGCTGAACCATTTTCCTGTGGGGCCGTGGTCCGCGAGAGGAAGTCTGGTAAGGTCGAGCTGGGCTTGAAGCTCCAGGGACCCAGAAG
GGACAGTAGGAGCTTCACCTGCTCCCAACATCAGGCCCCTGTCACTGTCACAGCCACCCATAGAGAGAATTGTGGCCATCAGTCACATAGGCGC
AGCACCCCCCAAACCCCTCCACATGTAGATGAGGCATCCCTAACATCTCAGACCAAGCCAATAGGAAGCACCTGCTGTCAGACCCCACCCCCAC
CCCAAAACGGTGCATAATATCCTATCCAGAGGAATAAAGGTGTGTGTGAGAGTTACTCCATCATCTGGGAGCATCTGTCTTAGAAGAGCTGCTG
TTACACTGCCTGGGAAGAACAGCAGCAGCCAAGGCAGCAGCAGCAGCAGCAGCAGCGCATCGGTGGTGGCTGCGGGCCAGAGGTCTCTGCAGAT
AGACTTAGGTACGCAGACCAGCAGTTCCCTAGCCCCAAGATCTTGTCTCTCTTTTAATACAGACTTATCGGCCCTAACTTCCCTTCTGGCTTGCC
ACAGCACATATGCATTGGTATGGCGATTTTTGTTTTGCCTGCACGTGTTGATGTATTTAAAAAAAGATAGAGAGAGAGAGGGGAATATGGTCTATG
GAGATGTGATGAGGTATAGGGGAGGGGGGTGCCTCCTCCAGCCCATGTCAAGGCATCCCTTCCAACTGAGTGACCAGCCACATGATGGTATAGT
ATAGAATAGAGTTTATTCAGGGCATGGGGAGGGGAGTTAAAAGGGTAGTAGAGGCAGAGAAAGGCAGAGAGAGGGAGAAGAGTAATAGGGAGAA
GTAGAATAGAGGCCGGCCATGAACACATGGACAAATGGGGAAGGGACTAGGGAAGGGAGGGGAGGAGGGAAACGCCTACGAGGGCAAGAGAGAA
ACAAGAGAACAAGGAGGGGGCAAGCAGCTCCTTTTATAGTGAGCCAGCCCTACCTGGCTATTGCCAGGTAACTGTGGGGTGGAGTTTAGACAGA
ATGCTAACACGTACGCCTGTGCACCACGTCTGTGGACCACATGTGTACCCAGTGCCTGTGGAGGGCAGAAGGGAGTCAGATGCCCCAGAGCTGG
AGTCACAGGCAGTTGTGAAATGCCACATGGGTGCCAGGAATTGAACCCGCGTCCTTTGCGAGAGCAGCTGGTGCTTGTAAGCAATGAGCGGGGT
CTCCAGGCTGCATTTTTTGTCTTGATTCATCCCAAGGTATTTTCTAATTTCCTTCATAATTTTTTCTTTGACCCTCAGCTTGCTAAAGAGTCGG
CTTCCTTCCCACATATTTGTATCCTTTTCCAACTGCCTGCCTCCCTTCTGTTATTAATCTGATTTCATTCCACTGTGGTGAGAGTGCACACCAT
GTACATTCTTTGTTTGACTTACGTTATTTTAAATATATTGAGACTTTTTGCGGCCACATATGGTCACCCCCACCCTCCCCCCGGAGAATCCGTC
CTGCTTTTAAGAAGATCTCATACATGTTTTTGCTTGGCATTTTAAAAAGCTTTTAGTTTCACATTTTATATTGCTTGCGGATATACATGTGTGG
GTGTGCCTGTCAGCAGACATGTGTAGGTCAGAGGACAACTTGGGGAATCCACCCCCTGGCCCAGGGTGGCATTAATCGCGTGTGAGGTCGGCTG
GGTTTCCAGTGCATGTGGCTCGGGCTTGTCTGGTTCCTTTGTGGACGTATGGTATTTGCAGCCTCTGTCCTGACTGATGAACTAGCTTGCATTT
GCCTTTGCATTGTCCAGCTTGGCTTCCTATATTTTGGGGCTTGGTGTGCACACGTGTTTCTAATAATATCTTTCTCATGGGTTAACCCATTTCT
TTTTCTTTTCTTTTTTTTTTAAAGATGTATTTATTATTATACATAAGTACACTGTAGCTGTCTTCAGACACACCAGAAGAGGGTGTCAGATCTT
GTTATGGATGGTTGTGAGCCACCCTGTGGTTGCTGGGATTTGAACTCAGGACCTTCGTAAGAGCGATCAGTGCTCTTACCCGCTGAGCCTTTTC
ATGGTGAGATCTTGGGTTCATCCTTCAAGAGTGCTTGCTGCTCTTCCAGCAGACCCATGTTCAGGTCCCAGCATGCCACATCCACACCTTACGC
TGCCATCTGAACTGCTCCCCCGACTCCAGTTTGCACGTGTTCTGTCTCACTGCTCTCTGCCCTGTTTGTCATTCTTGGCCACCGCCTTAGTTTGTG
TTACATAAATATTTTCCAGTGTGTCATTCCAATTTCCTTATCTTTTAACATCTTAAATTTTTTTTAAAGATTTATTTATCTTATATATGTAAGT
ACACTGTAGCTGTCTTCAGACACACCAGAAGAGAGCATCAGATCCCATTACAGATGGCTGTGAGCCACCATGTGATTGCTGGGAATTGAACTCA
GGGCCTCTGAAAAAGCGGCCAGTGCTCCTAACTGCTGAGCCATCTCTCCAACCCTTAACATCATAATTTAATAGGATATAATTTGAGCCCATAC
CGATGTAATTTCAATAGCCAAGCATGGGGGGCAATGATGGTGCACGCTCTTAATCCCACTGCAGAGTCAGAAGTAGGCAGATCTCTGAATTCCA
GGCCAGGTCTGTGTAGTGAGTTCCAGGACAGTTGGGGCTACACAGAGAAACCCTGTCTGGAAGAAAACAAACCAAACAAACAATCACACACACA
CACACACACACAAATTGTTAGCCAAACATAGTAGCAAGTTCCAGTCCTTCAGATAAGAAAGCAGGAGGGTTAGAATTTCAAGACCAACCTGGGC
TGCATGAAACCCTATCTTAGAAAAAAATAAATCTATTTCTCTATCACTCCTTTCTCCCTATCGCCCCCTCTGACACCGTGAGCCGGCCAGAGCA
TAGTTTTTCCTTTGTTTGTTTGGGTACATATGCTGCTAGCTCCTAGCTAATGAGCCATCTCTCTATTCCTCTCTCTGTCTGTACACCTGGATTT
GAATTTCTGTCTTTGGTGTTCCTGCCCCCCTTCTACCCTTCCCCCCAGCTATGGGGTTTGGGTTGGGGGGGTGTTTTTTATTTTATTTTTTAAG
GTTTATTTAATATGAATACACTGTAGCTGTCTTCAGACACACCAGAAGAGGGCGTCAGATCTCATTACAGGTGGTTGTGAGTCACCAAATGCTT
GCTGGGAATTGAACTCAGTACCTCTGGAAGAGCAGTTAGTGCTCTTAACCTCTGAACCATCTCTCCAGGCCCCTTGTGTTTTTTTGTTTTTAAC
TGAATTTCAACAGTGATCAAATCATTTGCTCCTTTTTATGGAGTTTAGATCCTTGCAAAAGATCTGGGGGCAGGAGGGTTTTATTACCATAAGG
CCTTGCTGGGGGACACCAGGAAAGAGCTTTGTTTTCTCTCGGAGCAGCTGCTCACTCTGACTCCCCTGCCCATGTACATGGGTTGCTTACAGCA
GCTCTCCTCTGCTCCAGGATTCCGTGCTCCGGAAACCGCAGGGAGGGCCCAGGCAGCCATAGACATGGGGTCAGCTTCACCAAGTTAATGCAGG
AACCCAAGAGTCTCAGAAGCGCGGCTGTGCCTCCCCCCCCCCCCCCGCCTCGCTCCCCTCCACCCCCCAGGGTGATTTCAGCTGCCAGCAGTG
AGCCTCTGGGCAGCTGGTGAGGCTTCACCAAGTCAATGGAGCCTCAGCCACTGTCCACCTGGACGGGAAGAGGGTCCCCACCTCTCTCTGCCCT
TCAGCGAGATCAGTTCCACCACTCTGCCCTCTGCCGCAGCGGCAGGCGCGCGCCCACCAGTAGCCACCACGTGAGGCCCGGGCTCTAAAGTATC
TTTCTGGACTTGCAGCTCAGTCCTCCCTGCCCTCCCCTGCGTGCCTGGCAGCTTCCTGTAATTCCAGGTAAGCACCCTCCACGAAGCCGCGGTG
TGCAAGCCTGCTGCGTGATCTGGTGACTGGCTAGGACGTGGGTGGAAGTCTGGAAGGAACCTGGGCCCTTTGGTTCAGCACAGCAAGGTGCCAC
TGAGCAGCGTGCTAGGGGTGGGGACATCAGAGAAGATGCAGAGTCACCTCTGCCACCCTCTTCAATTCGGACACCATTGCAGCCATGTGCAGGA
GGGGGACAGGGCAGAGATGCACCAGAACCTGGCTTTAGGAAAGAAACAAAACAAACAAACCAACCAGCCCAGCTGNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCTGAGCCGGGCAGTGGTGGCGCACGCCTT
TAATCCCAGCACTTGGGTAGGCAGAGACAGGCGGATTTCTGAGTTCGAGGCCAGCCTGGTCTATAGAGTGAGTTCCAGGACAGCCAAGACTATA
CAGAGAAACCCTGTCTCGAAAAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATCAAGCTGTATAGTGCTGGTGAGATGGCTCAGCG
GTTAAGAGCACCGACTGCTCTTCCAGAGGTCCTGAGTTCAAATCCCAGCACCCACATGGTGCCTCACAGCCATCTATAATGGGGTCTGACTCCC
TCTTCTGGTGTGTCTGAAGTCAGCTACAGAGTACTCACATAAATAAATAAACAAACAAACAGACAAGTAAATAAATATCAGCCTCCAGGGATGC
CAGCTCTGGAGGAAAACCTGACACAGGGCAGAGGCTGCAGCTCAGTTCTCAGTGTGCGACCAGGAAGCACAAAGCCCTGACTTCCACCCCTATC
CTCAGGAGGTGGAGGCAGGAGGATCAGTGGCCATCTTCAACTACATTGCTTCTTAGAGCCTGCTCGCCTTGAGACCCCATCTCAAAAATAAATC
ACTATAAAAAGAAAAGCCAGAGGCTGGTGAGATGGCTCAGTGGGTAAGAGCACCGACTGCTCTTCTAAAGGTTCAAATCCCAGCAACCACATGG
TGGCTCACAACCATCTGTAACAAGTATCTGACTCCCTCTTCTGGAGTGTCTGAAGACAGCTACAGTGTACTTACATATAATAAATAAATAAATC
TTTAAAAAAAAAAAAAAGAAAGAAAGAAAAGAAAAGCCAGCCGGGTGTGGTGGCACATGCCTTTAATCCCAGAGGCAAGCGGATTTCTGAGTTCA

AGACCAGAATGGTCTACAGAGTGAGTTCCAGGGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAGGAGGAGGAGGAGGAGGAGGAGGN
NNNN

ATGAAATGTTTCATCTTTTTTCCCTAAGTTTAAAAAGATCATGAAAGTAATACATGTTTAATGTTAAACTATTTAAATAATATAAAAATAAAAT
CTAAGAAGTGAAAATTCCTTCTTATCTTCCCAAATCTCATTCTCCAGAGGTAACACTGTTTGAGCAGTTTGGTAAGTTATCTTTCCAAACTTCT
TCTATATATAAGCAAATATACAAACACATATATACTTTTTTCCTCTTGGAAATAGGATCATGTTACAAATCATTCTGCAACTCACCATTCACTT
AATAGTACATCTTGAAAATCCATCTGTCTTTTCATGTGAGTATTAGAAGATTGTTTATGTGGAATGGGTAAGACGTCACCTGCTCCATATTAGT
GATATTTTCAGAGATTAGCTGTCTTAAAGGGAAAACAGTGAAAAAGACATTTTGGCATGTAATGAACAATATTTGCATAATTGTAATCCAGTGC
TCTAAAATGATCATACCCACCCACCCACCAAAATCTACAAACAACTGGGAACCATGGTTGGTGGCTGCAAATATATTGGTATAAATTACACTGT
TTGTGCCAGGTGCGGTGGCTCATGTCTGTGATCCCAGCACTTTGGGAGGCTGAGGCGGGCGGGTCACTTGAGCTGAAGGAGTTCGAGACCAGCA
TGGCTAACATGGCGAAACCCCATCTCTACTAAAAATACAAAAATTAGCCGGGCATTGGTGGCGCACACCTGTAATCCCAGCTACTCAGGAGGCT
GAGGCAGGAGTATCATTTGAACCTAGGAGGCGGAGATTGCAGTGAGCCAAGATCAGGCCACTGCACTCCAGCCTGGGCAACAGAGCAAGAGTCT
GTCTCAAAAAATTTAAAAAAATAAAAAATAAATTACACTGTTTGTGTTACATGTATTAGCCCATTGTGGCATCATCAACTGACTTTTTTTTTTT
TCAATGGTCCAGATAACCAAATCATCACTGGGCACTATGCACCATTAACAATACACTTCATTTACTACAATGCTATTCTTTTTTCCTTTTTTTT
TTTTTTTTGGACAATATCTTGCTCTGTTGCCCAGGCTGCAGTGCAGTGGTGCAACCATGGCGTGATACTCCTGCCTCAGCCTCTCCAGTAGCTG
GGACCACAGGCGTGTATTTTTTATTTTTAGCAGAGATCGGGTCTCACTGTGTTGCCCAAGCTGGTCTCAAACTCCTGGGCTCAAGCCTTGACAT
CCCAAAGTACTGGGATTACAGGTGTGAGCCACTGCGCCTGGCATTCTTTTATAATGGATGAACATTTACAAAATATTTTCCCAATTTAGTTGTT
TGGATGTTTTTGTTTAGACTCTTAGCTAAATGATTCTCTACTGTATAGATTTATCTCATGCTTTTCAAAAACTGTATATTTTTATAGTATGCAT
TTGCCAAATTTTAGTCTAACATTCCCATGACCATCCTTTTAAGGAAAAACTTTGAAATACTTTTATTTAGCCATACGGTTAAAATTTAGCTGGA
ACTAAGTGATCTGTGTTTAGTTGATGAACTGATCCATGCTATTCTTGCATCATGACTTTTTCATCTTCCCTTGATTCTTTTCCCTATATGCATT
TAAGCCTGTCTGGTTCTTTTCTCAAGCCTTTGCTCTCTACTCCCCTTTCACTCAAAGCATTTCATGTTTCGCCTTTATAACCCTAGTATAAGTA
TCAAACTTCTCACCTGTGACTTTTGCCTCTCTCTACATCTCTCTTCTACTTTTAACTTTCATGTTTACAATAAGCTACCTTTCTCTTATTTTCA
GTTCTTACCTTCTCAAACTTCAGAGAATCCCCACTGCTTAGTGTTCTTGGGAGATGCTAGAGGTTACACAAAATGCCACCTCCCAGAAGGTCGA
GGCATTTTTTTTCTTTAAAAAAAAAAAAACCTTTTAGCCAAATACTTACTCATAAGAAATGCTCCATTTTATTCTCAGTAGTATCTTCAGAAAG
ATTTCAGAGGTAATTGCATCTACAAAATAAAGACTTAGTGCTAAGAAAATGAGCAATCCGATAAGAATATGTAAAATAAAAAACATTATTACTA
AATTCTTTTTTTTTTTTTTTTTTTTTAGACAGAGTCTTGCTCTGTCGCCCAGGCTGGAGTGCAGTGGTGCGATCTTGGCTCACTGCAAGCTCTGC
CTCCCGGGTTCACGCCATTCTTCTGCCTCAGCCTCCCAAGTAGCTGGAACTACAGGCGCTCGCCACCACGCCCGGCTAATATTTTGTATTTTTA
GTAGAGACAGGGTTTCACCATATTAGCCAGGATGGTCTCGATCTCCTGACTTTGTGATCCGTCTGCCTTGGCCTCCCAAAGTGCTGGGATTACA
GATGTGAGCCATCCCGCCTGGCCTTTTTTTATTTTTATTTTTTGAGATGGAGTTTCACTCTTATCCTCCAGGCTGGAGTGCAATGGCACAATCT
CCACTCACTACAACCTCCGTCTCCAGGGTTCAAGCGATTCTCCTGTCTCAGCCACCTGAATAGCTGGAATTACAGGTGCCCGCCACCATGCCCA
GCCAGTTTTTGTATTTTCAGTAGAGATGGGGTTTTTCCATATTAGCCAGGCTTGTCTCAAACTCCTGACCTCAAGTCATCTGGCTGCTCTGGCC
TCCCAAATTGCTAGGATTACAGGCTTGAGCCACCTCACCTGGCCACTAAATTCTTTTAAAAATCTCTTGAGCACACTAAATGATATATTGAATA
TAGCTGATGACCAAATGGTGTTGTAAAAATTCCATCAGGCCAGGTGTGGTGGCTCACTCTTAATAATCCTAGCACTTTGAGAGGACGAAGTGGG
AGGATCACTTGAGCCCAGGATCACTTCAAGACCAGCCTGGGCAACATAGTGAGACCCTGTCTCTTCTGAAAAAAATAATAAAAAAAAACATTA
GGTGTGGTGGCACATGTCTATAGTTTGAACTACTAGGGTGGCTGAAGGGGAGGATTGCTTGAGCCCAGGAATTCAAGGCTGCAGTGAGCTATGA
CGGTACCACTGCACTCCAGCCTGGGCAACAGAGCAAGACCCTGTCTCTTAAGAGACAATAAGAAATAAATAAAAATTCCATCAAAGAATTTCTC
TTAGGGTATAAAGCCAGAGACAAAGATGAAAAATGGGAGAAATGTCCAGTGGTTCTCAACCATGTCTGACTGCACATTAGGATCATCTAACATG
GTTTTTGAAAACACCATTACCCTGGCCCCACCACAGACCAATTAAATCCAGACTCTCTGGGCTGGAGTCCAGACATCAGTAGCTTTTTTAAGCT
CCTCAGGTGATTCTGTTGTTTAGCCCAGGTTTAGAAAAATACTTAAGAAACCTGAAGAATAATACCAAAATGTCCGAAGTCTATCTAATAATAC
TTCTAGAAGTAGAGGACAGAGACATCAAAGGAAAAGAAATAATGCTAGAAAATTTTTCTGGAGATTCTGCAAAGACTTGTCTTCAGCAGTTAAG
GGCCAGAATATCAAGGCCCCTGCAGGAATTAAGGAAAGAAGACAAGTACCTTGACATATCCTTTCGATGGGTCTGAACTCCAAAAATAAGGATT
ATTATGTCTTCCAGAGAAGAAAAGATGGGAGCCACAGTGTGCACTCTGGAAGGAAAGAAACCTACCTGGCCTAACTGATCCAAACACAGTTTCT
GCTTTTTCCCCCAGATGCTGCTCTCCAGTGCATTCCCCTAGCTCACTCCTGCTTTCTGGGGCTGACCCCAGACCTAGAGCTTCTCCAGGCTCCC
TGGGAAGAGCTGCTCTTAACAGTTGGTGTTTGGGAGGCAACTTTCTCTTCTTTGCTCTCTCCTTCGGTCTGACCTCATCTGCTGTGTAGTGTTC
AGAAATTCCCCCAAAGTTCTGGTTCAGTTAGGAACATGTCTTGTTTTCCACCTCAGAGTTTTGCAGATTTTAAAAACTTTTTCTTGTCATCCCA
GCATCTTCCTGGGGAGAGGAAGTTGATGACTTAGTCCTGTCGTTCAACCTTTTTGAGGCCAAATAGGGTAAAATCATATTAAGGGGAATAATCC
TGTATTCAGGTTCATCCTTTAGTATATAATGGTAACATTTGGATAGTCTAATATTTTCTGGGGTTTTTTTGTTTGTTTTAATATAATCCTTTGC
TTTCTGCTTACTTGAAAACAGTAATTTATCCAACTCAGCACTCAGAGTCAGGGGAAGTGTGGTCTCTTAGCTTTGTTTTCTTCAGTAATTATTT
GTTCCGAGAAGAAAAATAAGTTTACCAAAGAAATATCTTTCTGAAAACTCTCCTGTTAGTAGCATAATCTGAGGCAAGACACTGATATTTTAAC
AAAGAGAACAATACAGTAATTTACATAATATACATAGGGAATTGGTAGATATGGCTTTAAAATGACTTCTCATTTGGGGGACCTGATAGTTTAG
TTATGTTAACTGAAATTTTTAGTACACTGTTGATAAAATATTAAGTGTATTCTCATTTTTCTGTTATGTCTCAGGTGTTTGCTGACTAGCACTT
TGGAGAGTGTATGCTTATCTGCCATGTCCATAACAGAACGAACTGTGTTCCCTTTCTGATGCATTGGGTAGCAATTTTCCGCCTTTGGACAGTT
CAGCACAGTAAGCTTTATCATAGATTAATATCCATAGCTACATAGTGATTTTAAATCCAGAATAAATCTAGGGTGAGGGAAAGAAGAAAAGTCT
CTCTTATAAAAATGGTGAAACTGTCTCAGTGTGTCATTACAGTTTTTAGGAATTGTCTGTCCTTACTGTCTTTTTTATATAACATTCAATCAAG
GAAAAAGTTTTATTTGTTTTGTTAGCTTACAAAAACCTATACTCCTAATGGCTTAACTGGAATTAAGGGGAAATACTTGGAAAATTCAGTTTAT
GTCTTTATTCTTCCAGCTTTATCTGCTTTTGAAAGTTCAAAAGTTTGTTTTCTTGTTGTTTTTATCTTTGTGTTTTAATTATTCATAGTACTTC
TCTTCATATGGACTCAGTACTACTGACAAGAGCCATCCTCTGAGATTACTAAGATGACTTGCATCCCTTGAAGTGTTGGAGCCAAAACATGAAG
AGCTAATTCCTTTATCAGATGGGATTTAGAAAGCTAGTAAATCAGCTTATACAGGTTGCCTATTTACTCGAATTTAAACAAGCCATTGTTTTCA
AAATAGCAAGGTGAGAACCAAAAGAAAATGTTTCTTTTTTTCCTCTCTCTTTTTTTTGAGAAAGAGTCTTGCTCTGTCACCCAGGCTAGAGTGC
AGTGGCATGACCTCGGCTCACTGCAACTTCTGCCTCCCAGGTTCAAGTGATTCTTGTGCCTCAGCCACCCGAGTAGCTGGGATTACAGGCGTGT
GCCACCACGCCTGGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTCATCATGTTGGCCAGGCTGGTCTCAAACTCCTGGCCTCAAGTGATCC
CACCCGCCTCAGCCTCCCAAAGTGTTGAGATTACAGGCGTAAGCCACTGTTCCCAGCCTGAAAACATTTCTTCATTGACAGTATTTTCATTTAA
AAATTTAGCTGAACTCCAAATGATGAACATTCAAAAGAAAGCATTGTCTTTGGATGATTTGAAAGCAAGTGGCAGATATCATGACACCTCACCC
CTAAATACTACAGCATGTGTCTCCTATGAACAAGGATATTACTCTGCATAAAACCATAATACTATATCACATTCCAAAAGGCTGACATATAGTA
GTAATAAGCTAATATGCAGTCTCCTGTTCCAAGTTCTTATATTTTGTCCCCTAATCCAGGATCCAGCCAAGGATCACTGATTACACTTGGTTGT
CATATCTCTATAGTCTCCTTTAATCTGGAACAGACCTCCCGTCTCTCCCTCTCTCTTTCTCTCTCTTTTTTTATCTTTTAAGAGATGGGGTC
TCACCCTTCGGCCCAGGCTGGAGTACAGTGGCATGATCACAGTTCACTGCAGTCTCAAACTCCTGAGCTCAATCAATAGTCCTTCCATCTCAGC
CACCTGAGTAGTTGGGACTACAGGTGCACGCCACCTTTTTGGTTCTTTATGTTGTTAACATTTTTTCAGGAGTGTAGGCCAATGGTCTTGTAGA
GTGCTCCACAATCTGTTTTTGTCTTTTCTTCCTGGTTAGTTTCAGGTTAAACATTTTTGATAGGGATAGCACATAGGTGATAGCACATCTAAAT
CACATCACTACATCATATTAGGAGACAGAGTAATAGCACTTTTTTTCATTATTGGTGATGCAGAGTTTGGTTATGATGCAGATCATTTGTTAAA
GTGTTATCAGTCAGATTGTTTTACTTGAAAGGTCTTTTTCCTTTTTTAATAATAAGTAATCTGTGGGGTACTTTCCCAATAACCTCTCACCTGG
TGGTTTTCATTTGTTCAGTGCTTTACACCCAGAGATCTATTGATGGATGTCAGCATCTCTGTGAATCCCCAGGAAATTTTTTTTGTGTGCATATA
TTTTCCCAGGCATACAGTCCAGGACCCTCCAAATATTTAAGAGATCTTTTCCCTCTGTTATCAAGGTGCCTTTTACAAGTTTCTGTGCATCACA
GAAGCATATTATAAGCAGTGGGTTTCTAGAAGCTGGGAACCAATCCCGTTCTTCTGATTTTCCTGATTATCTAGCTCACCTCATGTAGAGCTAG
GTACATAATTTTTGTTGTTTGTTTGAGAACGATTGTTCTGGCCTTTCGCTTATCCTGAGCCAAACATTTGGATCTTTCATGTTTGGTATAAAGC
GTACTAGAAACTAGAGCAGAGAGACTTAGCCCCTGGTTTTTGGTGTTCTCATTTGAAGATTTTGGGGCACAACAATTGGATTTGTGTCTCTGTT

GAACTGAATAGTGGTCATTTGGAAATGAGTTAAAACACTACAGTATATGTTTTAGTTGTCTAATTATAGTTGTATCAATAAGACATTTTCTGCA
AGTGCAGAAAGACTCTTTGACTCTGTAGACAAGAAGGCTCAGGAGATGAGTTTAGGGGGCATTAAGTTTGTTATTAGCCTAATGTGTAATAGCT
GTAGGAGTGATTCCTTCTTGATTTTCCCTGCCCAAACAGGGAGCAGTGTGGAATTCATCATGGCAGTGGTTAGGTGTGTTTTGCTTAGCCTATG
ATTAGCCTGTTGGTTACATTGGCTTGCCTTGCATGAAAAAATGTCTGTCAGGTGACTACCAATAACAATAAGAGCTAACATTTGAATAGTATAC
CTTAAAAATACACATTATACCACTTCAGAAGATTATCTGTGAAAACAGATATTTTTATTCTAATCACATAGGTAAGGAAAAAATCTTAGAGAAG
TTAAGGTAGCCAACATCAAACAGCTTGTAAGGAGCAGAGGAAGAACACCCCCAAATTCCATTACAAATTCCTTGCACTTTTTGTCTTACCATTC
TCAAAGGTAGAGGCATTCTAGGGAATCTAAATATGAACAAAGCATGGACCTTGCTCTGAAGGATCTTTTAAACCTAACAGGCGCATAGTCTTAT
GAATCTCTTACAGACAACAAATCGAGAGAAGAGCTAAGGAAGTACGTAAAAGGGCAAAATGGCCTACAAATAGAGGGTCAAGGTTGGTATGACA
GAAGTAGGATTTGAGAGAGGTGGATGTTTTGGAAACAAGAAAGGGAGTGACCAGAAGAATGACTATGGGAAAGCACTGGGTTTGTTGTAGAGGT
GGAATTGGCCTAGTTTGGCTGGAGCATGAGCTGCATGAAAGAAAGTAAAATAAAATAATGGCAGCTAGAACTCAAAGATAGATTAGGGCCAGAT
TGTGAAGGGCCTTGAATGCCACATGGAAGAACATTCTGTAGGTATTTTGGGCAGGAGATGAAAAATGACCCTACAGAAGGCCCAAAAATGATGA
TAAATGGTTAAATATGTTTAAGTTACCAATCTATGCTAATCTTTTAAGAAATGTTATCTCACTGTAACTATGAATAGTGTACTGTGTCCATTTT
GCAGATGAAAAATGAAGGCTCAGCAAGATTAAGGAAACTGGAAATGTCAAGAGCTGCAGCTAGGACCCAGACTTGGGTCTGTTGGATTCTAAAT
CCTGTTCTGTGTCTCACTGTGATTGATATATTGTCACTTCTTTTATTAAGAACTGATAAGGTCTTAATCCTCTGTCAAGAATATGGCTGTAGAA
AAAGGATGTTTTCAAAGTTGTGAAGGGACTGCTTCTCACCATGTTATGTTAAGGAATGTAATCACTACCCAACTTGACTTGTACTGTTCTCTGT
TTTGAGACCAGAGCTAGATGGGAAATTAAAGAATTGGATGATGTTTTATTTACATGCCTGATGACATCAATACATGCTCATAGCAAATGCCTTT
GTTTTCATTTTCAGTATCTAAGCTTATTGGCCCTAAGTAAATCTTAGGTTAGGTAGAGCTCAGTTCCCAGGGGCATTCAAGATTCATAAAGAAG
TGATATTTTTCCCAGCTAAAATATTTTTCTTCTTACCAGGTTCTCTACTTAAAAGACAATGACTACTGATGAAGGTGCCAAGAACAATGAAGAA
AGCCCCACAGCCACTGTTGCTGAGCAGGGAGAGGATATTACCTCCAAAAAAGACAGGGGAGTATTAAAGGTGAGGCCACAAAGCTGAGTGACAT
ACAAGGAAACCTGCTGTCTGGAAAGATTATAGCATCTCTTTCTGAGGGGGGCTGGGGTGGATAATGTTTATTGATGGTTACTAAGTGCCAAACA
CTAGAGCTAGATTCTCATTTTGTCTTCATAACTTCAAGGTTTTTTTTAAGAGTTGAGTCTCGTTATGTTGCCCAGGCTGGTCTTGAGCTCCTGG
GTTCAAGTGATCTTCCCATCTCAGCTTCCTGAGTAGCTGGGATTTTCTTTTTAAATTAATTAATTAAATTTTTGAGAGAGGGCATCTCATTATG
TTGCTCAGGCAAGTCTTGAAATCCTGGCCTCAAGCAATCCTCCCACCTCAGCCTTCTGAGTAGCTGGGATTATAGGCACGAGCCACTGTGCCCA
GCTAGAGATTTTAATTTTTAATCCCAGATTATAGATGTTGAAATTGAGACTGGGCTAGGTAAATTAACTTGCCTAATATCATATATCTTAGTAA
TGCAGATTTACCTGGGGTTCAGGTCCAAGTTATATCTCACTCTAAAGGGCTATATTTCCCTATTCTCAGAGTATACAAATAGGTTACTATTTTA
ATGTATCCTTTTAGTACACTAAAGCTAGCTAATGACAATTTTGAAGACTTTTTAAGGAAAGAAAAGCTAACTTGAAAAATTCAAAGGGGTTTTA
TTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTGAGACAGAGTCTCCCTCTGTTGCCTGGGCTAGAGTGCAGTGGTATGATCT
CAGCTCACTGCAACCTCCGCCTCCTGGATTCAAGCAATTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCGCCTGCTACCATGCCTCGCT
AATTTTTGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAGGTGATCCGCCTGCCTTGGCCTCGCAAAGTGTT
GGGATTACAGGCATGAGCCACCGTGCCCGGCCCAAAGGGGTTTATTTTTATATATAAATATTGTTCCTGTGTACAGTGAAGATATCTTTTGCGA
TTTCCTCTTAGAATATATCTTACTTTTGAATTAGCTTTCCTACTTATTAAAGCACTATACAGTCATTCACCATATAATGACATTTCAGTCAGTG
ACAGACTGCACCTTCAGCAGTGGTCCCATAAGATTATAATGGGGCCGAAAAGTTCCTATGGCCTAGTGGTGCCATAGCTGTTGTAGCATGGGTA
GTACAGTGTATTATGTGTTTGTGGTGATGTGGGTGTAAACAAACCTACTGCACTGCAGTCACAGTTATGTATAGTACATAATACTTGATAATAA
ATGTTTATATTACTGGTTTATGTGTTTACTATACTTTCTATCATTATTTTAGAGTGTGCTTCTTATTTTTAAAAAGTTAACTGTAAAACACCC
TTGGCTGAGTGCAGTGGCTCATGCCTGTAATCCCAGCACCCTGGGAGGCCAAAGCAAGAGGATCACTTGAGGCCAGGAGTTCAAGACCAGCCTG
GGCAACATAGTAAGACCCCTATCTGTAGAAAAAAAATTAAAAAAATTAGCCAGGCATAGTGGCATGTACCTGTAGTTTCTACTACTCAGGAGAC
TGAGGCAGGAGGATCATGTAAGCCTGGGAGTTCCAAGCTGCAGTGAACTATGATCATACCACTGCATTCTAGCCTGGGTGAGAGTGAGATCCTG
TCTCAAAAACAAATGAACAAACAAAAAACAGCCTTGGGCAGGTCCCTCAGGAGGTATTCAAGAAGAAGGCATTGTTATTATAGGAGACAGCAGC
TCCATGCATGTTACTGTCCTGAAGACCTTCCAGTGGGACAAGATGTGTTGGTGGAAGACAGTGATACTGATGATCCTGACCCTCTGTAGGCCTA
GGTTTATGTATGTGTTTGTGTCTTAGTTTTAAACAAAAAAAAGTTTAAAAAGTAAAAGAATAAAAAATTTAAAAAACAGAAAAATGCTTATAGA
ATAAGGATATAAAGAAAGAAAATATTTTTGTACAGCTGTACAGTGTTTGTGTTCTAAGTGTCATTACAAGAGTCAAAGCTAAAAAAAAAGTTTA
CACAGTAAAAATGTTATAGTAAGCTAAGATTGATTTATTATTAAAGAAAGAAGAAAAATTTTAAAATAAATGTAGTCTAGGTGTCCAGTGTTTA
TAAAGTCTACGGTAGTGTATGGTAATATCCTAGGCCTTCATGTTCACTCACTGCTCACTCGCTGACTCATCCAGAACAACTTCCAGTCCTGCAA
GTTCCATTCATGGTAAGTGTTCTGTATAGGTGTACCATTTTTTTTCTTGTATACCTTTTATTACTGTACCTTTTTCTATGTTGAGATATGCTTA
GATACACAAATACCACTGTTTTACAATTGCCTGCAGTATTCAGTGCAGTAACACAATGTACAGGTTTGTAGCCTTGGAGCAGTAGGCCAAACCA
CCTAACGTGGGTGTGTACAAGTAGGCCAGGCCATCTAGGTTTGTGTAAGTACACTCTGCGATGTTCACATAAGGATGAAATCATCTAAGAACAC
ATTTCTCAGAACATATCCCTGTCCTTAAGCGATGCATGACTGTGTGTGTTTCTTCACTCTATAGTTAATCATTTTCACGTGCATTTCTTTTGTT
TTGTTTCTTACAACAATGTGGTGAGACAATCAGAGCATCTCTTGATTCTTCCATCTTATAAGTGAATAAACTGAATCTGAGAAAGGTTAAGTGG
CTTTAGTCACATTAAATAGTTATTTCTCCTACACCATTGTTAACACATGTAAGTTTTGTATAGTTAAGTTTTGTTTTTCCTGAAAAGATTATCT
GATGCATTCTGAATATTACCAGGATGCTGAGTTTTAATATCTCTTGTGCCAGCAGTAGCAAGTAAGAATTTTTGTTTTGTGTAACTTTGCTTAT
GTGAAAGCCTTCTGTGCCTGGATCTCTTCTGAATATATGTGAATTGCTATTATGTGCTAAGTCAAATTTTGGGGACTTGCAGCTATAGAATAAG
GGCTTTATGCTATAGATTTACATCCTATTGTCTTTTTTTAGAAGGCTTCTCAACCTTGTAGCTATAGTTACTCATCCTAAATTCCAGGAAGCTT
CTAGAAACAGTGGAGACTTTGCAGGCTGTCCTCAGCATCTCCCTGCCTCTGTTTACGACTTACCCTTTCATCTTTTCAGAGTGCCCATGCCCAG
AGAACATGATCCCCAACTTGCCTCAGACCCTGTTCTGTTCTAGGGAGTAAATCTAATTGCAAGATTTTTAGGCTTATTAAGAAACATTTGAGAT
TTGAAGCCCTTTAAATTATATCATTTATCATTGTCTAGAGCCTCGGATTTCACCATGAGGCTTTTGGTTAAGATTTAAATAGGTCTAGTAACTG
TGCAAGCTAGGGCAATTTAGTTAACCTCTCTGTGATTAAGTTCCTGTTTGTAAAATTAGAATAATAATGCCATCAACCTCATAGAGTTATTAGG
ATTAGGTGAAGCACTTAGCATAGTGCCTGTCCTATAGTAATCTATCTTATTAACTATTACGTATTTTTAAAAAAAGAACCAGTGCTGGTTTGGA
AATTCAGTAACTATCTGAGGAAGATAAAAGATGGATTTATATTTTAAAAATGAATAGAACCTAGATTGTGTTCTTAAGGCAACTCTAGATTTAG
GTACAAATTCATCTTGCTAGGGAAGCCTGAAGTGATACCATAGTACCACTTGCTGGTGTGGATGGCTCTCTGACTCTCTGGTAGCCATTCATCC
CACATGCCCAGTTACTGTTTATAGTCCTAGAAATGCAGATTCCTTCCACGTGAGGCTTACAGTTGAGCATAGCCTCCCAAATACCACATGCAGT
TCGTGAACATGAGCACTTGTAGAATATTGTGTAATATCTTTTAGATTAATGTTTTGAGACTTTTTTTTTCTTTTGAAGTCCTAGAAGGGCAGTA
GTGTTTCTTTGCCTTTAAAGAATATTTGGGGCTGGGTGCGATAGCTTATACCAGTAATCTCAGCACTTTAGGAGGCTGAGGCGGGAGAATCATT
GGAACTCAGGAGTTCCAAACCAGCCTGGGCAATGTAGCAAGATCTCATCTCTACTAAAAATAAAAAAATTTGCCAGGCGTGGTGGCATGTGCCT
GTAGTCTCTGCTACTCGGGAGGCTGAGGTGGGATGATCACTTGAGCTGAGTGATAGAGGCTACAGTGAGCTATGATTGTACCACCGCATGCACT
CTAGCCTGGGTAAAAGAGCAAGACCCTGTCTCAAAAAATAAAATAAAGATGTTTGGGCTTTTGAGTTAAGAAAGCTGTGGAATTTAAGTTCACA
GTGTTTATGTGATATTTATGTTAGGTGGACGGTATACTTGTAAAAAAAGAATTTAGGAGCAAATAATCGAATTATTTAAATAAAACTCAAAGCA
AACTCCTTCCCCAAAAAGATGTTCATCAGATGTTAGCTACCATCCTCTGTTATCTACCAAAAATGATTAATTTGGCATAGATTACAAATTAACA
AATTACACCATCACACACCTGGGTTTGATTTTCTTTTCCCAGAACTGACCAAATACATTAGCAGCTTGCTCTGCCAAGAACAAAATAAATACAC
TGGATTTTACAGTAGTTAAATACTTTACTAGAAAACAAGTTATTCAGTATCATATCAAGCAGTGCAATGATACTCATGTTTTTTACAGATAGAC
TATGTTTCAAATAATAGGAAATGTAACCTGTTTTACCAGGAAATTGGGCTTTCTGAAAATAAACAAGCAGAATCTAGTCAGGAGCTAATGTTTT
TAGCAAAGGAGGGAAATAAAATTACACCTTTGAAGCTTTGCTTAAGCTTCTTTTTGAATATTTTAAAAGTCCACCATTCTTTCTGGTCTAAGTC
CGTGTGTATATGGACTAGCTCACAAGCCTGTGTTAGAGAGTTTAGTGTCGGGCGCGGTGGCTCATGCTTGTAATCCCAGCACTTTGGGAGGCTG
AGGCGGGTGGATCACGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGCTGAGCAC

GGAGGCGCACGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTCAACCTGGGAGGCAGAGGTTGCAGTGAGCCGAGATCGT
GCCATTGCACTCCAGCCTGGGCGACAGGGCAAGACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAAAGAGTTTACTGTCAAAATATAGGGCATT
AAACCAATGAACAGGATTTATTGGTTAATTCTTTGAAGGAATAAATAGTGCGATTAGCAATAAAAGTAGATATAACATAAAAGACAAGTTGGTA
AAGGACAGTTTTCTAACAATGAGTTATTGTGAGGAATGAAGGGAGGCATTAGAAAGAATGGATAATAGTATATTTGCATATCTGCCTGGATGTC
TTGGGATGGACTGTGTGACCTTTTTATTCTCTGATTACAAGTAAAAAGTTTGACCTCCTTTTTCTTAATGTTTGTCTTTTCTAGATTGTCAAAA
GAGTGGGGAATGGTGAGGAAACGCCGATGATTGGAGACAAAGTTTATGTCCATTACAAAGGAAAATTGTCAAATGGAAAGAAGTTTGATTCCAG
TCATGATAGAAATGAACCATTTGTCTTTAGTCTTGGCAAAGGTAAGAGGGTATTTTTTTGAGTTGTGTTTTACTTAGCTTTATTACTATTTGTA
ATATATAGGAGCAGAGGATTCTATCCTTTCTAAAAGTAAAGAAATTTTAGAGTAGTAGTACTCAAAGAATGGTCTGAGAATCCCTAGGGCTCCC
TGAGATCTTTTTAGGGGGTCCCAAATGTCATTTATTTTCATAACAATACTAAGATATTATTTGCCATTTTACTGTATTGACATTTATTTGCACT
GATGGTACAAAAGCTGCAGTTGTAAAAAAACTGCTGGTTCCTTAACACAAATCAAGGCAGTGGTAACCAGCTGTTCCAGTAGTCATGGTATTTT
CCACTGCCACTCCTTCACTATTTACATAAGGGAAAAAGCTAGTTTCACGTAAAAATGTCCTGATAAAGCAGTAAAAATTATTAGTTTTATTGAA
ACCCAATCTTTGAGTTTCACATCACTTTGATATTCTGTGACAGAAAGGGAAGCACGTGTAGAGCACTTCTGTCCCCCAAAGTATGATGGTTGTC
TCAAGGAAAAGTACTTGTGCTCTTGTTTTAGTTGAGATCTGAACTAACTGCATTTATTTCATGAGATACCATTTTTACTTGAAAGGGCAAATCT
GATTATGCAGACTTGATTCAGTATTTGGCAGGTGTTTTTCTGAGAATGAATGGAGTAAGTCTGTCATTTCAAGGAAAAACAACTGACAATGTTT
TTTGCCATTAAGTTTTCAAGTAAAAATTATAGTTTAGGAGAACTCCTATTTGCCACTGTGGGCTTATTTGCCACTGTGGGCTTGACAGCTTCCG
AAGACTTTTCTGATGAGATTGGTGGGTATTAATGAATGTGGTTTTAAATATACAATGAAATGTGTCCACATTTGGAAGATCTGTATAACTAAGA
ATGAATATTTTCTCAGTGACCAATGCAAGATGTTACAAGATCATGTGTGAATAAACAATTCATTCAAAGTTAGACCAACAGATTTTAATGTAAC
AGTATGAAAAGTTCACTGATACACTTTCAGTTTCCACATTGTAATTGACTTTTATGAATCTTACAAGTTGTACAGTTTTGATGTAGTATCAGAT
AATTATATTCACAATTATCTAAAAGGTTGTTAAAGGGCTCCTACCCTTTTCAACTATCTATCTTTGTGGGTTTGGATTTTCTTCTCTATGTACT
TCAACCAAAATTGCAACAGATGAATGCAGAAATAGGAGAATCTGGTTGTCTCGTGTTACAAGTCAAACACATTTCCACATGTATAACATTCTAA
AACAATGACACTCGTCTCACTAATTTTTTTTTTATTTTGGAAAATACAAAATATACAAATACTTTGTACAAAATTAAATTACTTATATTAACAT
GGGGTTATTCTAAAATGAATTATTAAATAACTACTTTTTTACTAAATCTCAGTAGATATGTCAAATAAACAAGTTCTTTGGAGTCCTCAATTTT
TAAGATGTTAAGGGGTCCTGAGGAAAAAAGGTTGAGAACTACTATTTTCAAGTATTAAGTATGATTTTTACTAAATTATTTTCAAATGCCTTTT
TTTTTTGAGACAGGGTCTCGATCTGTCACCCGGGCCGGCTCACTGTAGCCTCAACCTCTCAGGCTCAAGTGATCCTCCCAACTCAGCCCGGCAA
ATAGCTGGGAATACAGGTGCGTGCCACCATGTCTGGCTCGCTCTGTTGCCCAGGCTGGAGTGTAGTAGCACCATCTCGGCCCACTGCAGCCTCC
ACTTCCGAGGTTCAAGCAAGATTATCATGCCTAAGCCCCCCAAGTAGCTGGGACTACAGGCGTACACCACCACACCTGGCTAATTTTTGTGTTT
TTTGTAGAGATGGGGCTTTGCCATGTTGGCCAGGCTAGCCATGAACTCCTCACCTCAAGTGATCCGCCCACCTCAGCCCACCCAAACACCTGGG
ATTACAGGCATGAGCCACCATGCCCAGCCTAATTTTTTTTTTTTTTTTTTTTGTAGAGACAGGGTTTCACCATGTTGCCCAGGCTAGTCTTGA
ACTCCTGGGCTCAAGCAATCTGCCCGCCTCAGCCTCCCAAAGTGCTAGGATTATAGGCATGAGCCACCACACCTGGCCTCAAATGCTGTTAAAT
GTCTTTAGTTCATTTAATGTTCTTATTTTTTAATCTTGTAGGAATAATAGCCCATACATCAAATTAAACTTTGTAGAACATGTGGCTTATTGGA
AGTTGGTGGCTGAGTTACATCTTTTATTCTTTGTCTGCCACAGACAAGCAACTGTAGTTTGTTCCTAGATTAGGGAAAAAAGTATTCCCCCTATT
CACCACCATGGCTATGTGTGGACTTCATTCCCTTGTCCTTCAGCTCTGTATCTAGTTGAATTGCTAACTAAGCATGGATCTGGAAAGGAAATAT
AGTAAGCAGAAACTGAGGAGTTACTTTCTGTCTCTTGCCACTCAGCCTTCCCTGCTTCCTGTATCATTTGTGTGCCTGGTGAATTCTGCTTCCC
GTCCAGCTGTGCTCTTTCCAAGCTCCAGTTCTGGCCACGCCCCTGCTCTCTTCTCCTTTGGGTCTTTAGTAGGTTAATGGCTCATGAGATATTA
ATTTTTTGTTTGAATAAGATAGCAGTAAAAATCAAATACAGTCTTGTGGCAGATAATTATGACAGTTATTTTAGAATTTTGTTGTTGTTGTTGT
TGTTGATTTAGGCATATGAACCTCCAGGGCTGCCAGAATGGGTGTGGCATCATTATTTAGGTGACCTAAGAGTGACTGACCTTGTCAGACCCCC
TTGTTCCTGCCACCTGCTAAATCCTTACTCTATCCTTAGAATTCCTGTCTTAAAGAAGCTGAGAGTTAAGATAACAGGTCCTTTTAGCAGTTAT
CTTGGTGAGCAGAATTAAGAATTGTTGAGAATTTATATTGGTATCTTCTCTACTGAGATTTTCTCAGTAAAACACTATGGTGAATGAGTTTCCT
GGAATTTTAAGCAGAGTAAGAAGATTTTCTGAGTTATTTTTTTAAAATACAAGTTGGGAGAAAAAAAGAGGCAACTTTCAGTTGACTTTGTACC
TCTGACACACCTGTCTAGAGTCAGTGCGGTCTCATGGAAAAAGCTTCCAGCCGGGCATTAGGAAGCCAGGGTTCCTGTCTTCCCTGTTCCTTGT
GGTGTGTTAACATGAGTAAGCCACTTAATCTTACCTGCTTCTGTAAAAAGAAGTCTGTGGAGAGCTTATGTGATTCCATTCTTGTTCCTTCTGT
AAAGAATGCGGGAACAAAAACCATAAAAGACTAATACCAACACAAAGAGACCCTTAGAGGCCTCCTTAAGATGGTAATTGGAAATACTAGGATA
GAGCAATATACCTCTGGTAAAACATCTATAACATAACGTATTTAGTTGCCTACAAAACAAGAAACATTGGTTAGGCAGTTTATAGTTTTGTGGG
GTTTTTTTTTTCCTTTTTTTTTTTTTTTTTGAGATGGAATCTCACTCTGTAGCCCAAGCTGAAGTGCAGTGGCGTGATCTTGGCTCACTGCAAC
GTCTGCCTCTGGGGCTCAAGTGATTCTCGTGCCTCAGCCTCCCCAGTATCTGGGACTTCAGGCGCGCCCCACCACGCTTGGCTAATTTTTTGTG
TTTTAGTAGAGACAGGGTTTCACCATGTTGCCCAGGGTGGTCTCGAACTTTTGAGCTCAGGTGATCCGCCTGCCTTATCCTCCCAAAGTGCTGG
GATTACAGGCATGAGCCACTGTGCCCAGACTATAGTTTTATACTTATATTTTATAGCATTAGGTAGTTTATCAAAATGAAGAAAATAATATAAA
TGGACAGTAGTATAAATATTATTCATTGAACTCCATTGATCCCTTATATTGTACCTCTCCCAAGGGAATAAATAGAAATATTTCAATGGAAAGT
CATCCTAATTTGGGGATTCTAGTATGACTTCAGTATTTAACATAGAACTATAAGAGCCTATCTGTAAAAATCCCATTGAAAAGATAAACATATC
ATAAAATACACAAATTCAAGCTATACCTACACTTGCTTTGTATATGTCTTTTGCTTTGTGTATGTCTGTTGCTTTTATCATACCATCTTTTTCT
CTTTTCTTTTTTTTTTTTTTCTTTCTGAGACGGAGTTTTACTCTTGTTGCCCAAGCTGGAGTGCAATGGCATGATCTCAGCTCACTGTGACCTCC
ACCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCATGCGCCACCACACCTGGCTAATTTTGTATTTTTA
GTAGAGACGGACTTTCACCATGTTGGCCAGGCTGGTTTTGAACTCCTGACCTCAGGTGATCCACCCGTTTTGGCCTCCCAACGTGCTGGGATTA
CAGGCATGAGCTACCGCGCCTGGCTAGCCGTACCATCTTTTAAACTCTATTCTTTACTTTCTTCATCTAAGGTTATGATAATCATATATACTAC
ATATATTATATATGATTATATAAGTATATATTATTATGTTGAGGATTAAGATAATGTACACCATCGCCTAGCATTCAGCCTAACAAATGGTAAG
CACTCAGATGTTGATTATTATTGTGGCAGTGTTAGGATTTTTCACTGGTTTTATAATGGAATGGTAAAAGCTGTGTTATAACATCTTGGGTCCT
GACTTCATCTGTTGACTATGCATGCGTACAAACCTTGGAAACAATGCTCAGCCATCTTGCTTAGCCCCAGGAAGTTGGGAAAGACAGAATCAAT
CTAAGGGAACTGATTATTACTACTGTGGAATATGTTACAGAAATTAGAGTGAAGAGGTGATGATTTCTCTTACTAGGTTTTCTTAACTAAATAT
TAGAGGTTGTGAATTATTAGAACTGGTCATAGCCCATTTAAAAAGAAGCTGAATTAAGAACAAGGATTTTCATACATACTTCTATAATAGGGGT
TCTGTTCTTTTACCCTACTCCCCCCAGCAAATATATTTTCACTAAAATGGAAGAGGGCAATAGATTTGGAGGATGAAAGAATTATTTCTACCCT
TTTTTTTTTTTTTTTTTTTTGAGACAGAGTCTTGCTGTGTCGCCCAGGCTGGAGTGCAGTGGCGTGATCTCCGCTCATTGCAACCTCCGCCTCC
CGGATTCAAGCGATTCTCTTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGTGCATACTACCATGCCTGGCTAATTTTTGTATTTTTAGTAGA
GATGGGGTTTCACCATGTTGGCCAGGATGGTCTTGATCTCCTGACCTCGTGATCCACCCACCTCGGCCTCCCAAAGTGCTGAGATTACAGGCGT
GAGCCACCACACCCAGCCTCAATCTTACTATTTTTTGGATTCTTTGTACAATTAGTATAATTTAGGTGACAATCATATTAATATTTGTGTCGAA
GCCACTTTGGTTTTTTTATTGAGGTATTATTTACGTATAATAAAGTTTACCCTTTTAAGTATATAGTTTGATGAATTTTGATAATATTTCTGTA
ACTACCACCACAATCAAAATATAAAACAATTTCTTTACCCTAAAAAGTATTTTTATGTCCTTTTGCAGTCACTTTCCTTCCTGGACCCTGAGCC
CCAGGCAGTCACTAACTTGGTTTCTGTTACTATAATTTTGCCTTTTGTAGAATTTCATATAAACAGAATCTTGTATTATCTTTGGTGTTGACTT
CTTTCACTTAACATAATGACTTTGGGATTCATGCATGTTGAATTCCTGAGAAGTATTCCACAATTTGGGAATGCCACAGTTTGTTCACCCATTC
AAAAATAGGACATTTGGTTGTTTGCAATTTGGGGCTATTCAGTTTTTCATATCCTTATTAACACGTAGTATTGTCGATCTTTTTAACTTTAGCC
ATTCTAGTAAGTATGAAGTAGTATCTCACCTTGGTTTTTGTTTGCATTTCCCTGATGACTAGTGATGATTGAGGGTCTCTCTTCTTGTGCCTAG
TGGGCATTTGTATGTTTTCTTTTGTAAAGTGTCTGTTCAGATCTTCTGCCCATTTTAAAACATCAGTTGTTTGTCTTACTGAGTTGTACTTAAA
AGGACAAGCACTTTGGCAAATATGATCTCCCAGTCTATCTTGCCTTTTTATTTTCTTAATTGGTCTTCGGAAAAGTAAAAGTTTTTACTTCTGA
TTAAGTCAGCTTTATCAGTTTTTTCTTTTATGGTTTGGTTACCTACTGTTATTAACCATTTTTGGTTTGATGTGATTTTTTGTTTACTATATTA

CAGACTAAGGTACAGAGAAGCTCGGTAAATTGCCCAAGGCTATACAGTAAGTGGCAGAGCCAGGATTCAAATCCAGGTAGTCTTTCTTAAGTTA
TGTTAGATCTTAAGGTTTAAAACATAGCCCAAACCAGGTACAGAAATGAAGTAGGTCCTGGTTAGCAGTATTTATCGAGTGCCTGATATACAGT
AGAAATTTCTCTTTTTTTTTTGAGACGGAGTCTCGCTCTCACTCAGGCTGGAGTGCAGTGGCACGATCTCGGCTCACTGCAACCTCTGCCTCCCG
GGTTCAAGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGCACCACCATGCCTGGCTAATTTTTATATTTTTAGTAGAGA
CGGGGTTTCACCATGTTGGCGAGGATGGTCTCAATCTCCAGACCTCGTGATCCGCCTGCCTTGGCCCCCAAAGTGCTGGTATTACAGGGGTGAG
CCACTGCACCCAGCCACAGTAGACATTTCTTACCAGTAATGATATGTCATAGTAAGGTTTATCAAAAGCACTGGCGCTTGTGTTCGCTCGCTCT
CTCTCTCTCTCTCTCTCTTTCTTCCTCCTCCTCCCTCTTTCTCTCTCTCTTTCTCTCCAGAGACTTGCTCTGTTATTGGGGCTGGAATGCAATG
GCACCATCATAACTCACTACAGCATTGAACTCCTAGGCTTCAGTGATCCTCCTGCCTCAGCCTCCCAGAGTGCTGGGATTACAAGCATGAGTCA
CTGCACTCAGCCAATATATTCTTAGTATCTGTTTACTTTTTTTTTACATGCAGTTTAGGAGCATTCAGGAGATTTTTAAGGAAAGCTTTTAGGCT
AAAATATTTAATTTTTTTAATTGTCCCCAAAAGTGTGAGCCAGAAAGACAGCAAACTTTAAGAAAGTACTTACTTTGGTTTTTCCTGGTACTTT
GCGATAGAGGAGGAATGCTTCCAATTTCCACTGCTGAGTGGATATCAGGGAGGAGCTGATTTAGGCTGTGGAAAGCTGAGCAAATTTCTCACTC
CATTTAAATTCGATATTACATCATGCCTTTGTTCTCTTTTTGAGTACAGTGTTGTGGTGCTATAGTTCTTTGCAAAGAGTAATTAAAACATGAC
CCCTACCTTCAAGTATGTAACAATTTAGTCTGGCAGAGTTGATCCTTAAGGCTGTCCCAGGACAGATAATGCTACCATATCTGTTTTCTTTCCC
TGTTTGTTTGTTTGTTTGTTTTAATTATAAGCCATGAAGGTGGGGAGGGATTATCCTGTGATTAGTTCTCTTAGTAGTTAGAGAAATGACAAAA
ATACAATGTAACATAAGATATGAACACTTTAAAAGAGTCTTAAACATAAATTACTGTAATCTCAGCAGTTTGGGAGGCCAAGGCAGGAGGATCA
GTTGAACCCAAGGGTTCAAGACCAGCCTGGACAACATGGTGAAACCCCATCTCTACAAAAAATACAAAAATTAGCCAGGCGTGGTGGTGCACGC
CTATAGTCCCAGCTTTCTCAGGAGGCTGAGATGGGAGGATCACTGGAGCCCAGGAGGTCCAGGCTGCAGTGAGCTATGATCACACTGCCTTCACT
CCAGCCTGGGTGACAGAGCGAGACACTGACTCAAAACAAAATACATAAATTAATTTGTTTAATTCATGATTAGTTACTATTGGTAGGGAGTAGG
GATGATTATTAGAGCCCTTTTATAGCTATTTTAAAATAAAACTAGGCCAGGCGTGGTGGCTCATGCCTGTAATCCCGGCACTTTGGGAGGCCGA
GGCGGGCAGATCACCTGAGTTTAGAAGTTCAAGACCAGCCTGGCCAACATAGTGAAACCCTGTCTCTACTACAAATACAAAAATTAGCTGGTGT
GGTGGCACATGCCTATAATCCCAGCTACTGGGGAGGCTGAGGCAGGAGAATCACTTGAGCCTGGGAGTGGAGGTTGCAGTAAGCCGAGATTGTG
CCATTGCACTCCAGCCTGGGCGACAGAGCAAGATTCCATCTCAAAAAAACAAAAACAAAAAAACCTAAAATATATGAGGAAAAGGTATACAGGA
AAAATAATTTGCTTTATTTAGTATATAAAAAGAAGAAAGGATTTCTGTATTATCTGTTATATGAGGTTTTTCTTATTTTTAACATAAAAATTAGCA
GAATATGCAAGTAGTTAAAATAGAGATCAGAAATTGGTACTGAGTCCTAGGAATCCCTCAAGGAAGGTGAAGCAGGAATGAATCAGATGCATTT
TTATTACCTGAAGCTTATTAGTGATTAACCTTGTTTGTCAGCTTTTATATTTTGAAAGGAAATCTTTTACAGTTAAAATATTTACCTTTCTTGT
TCTTTTCTACTCCCATATGAAAAAGTAATTTTTTTTCTGTATGATATGGTGTAGCTTTCATCCTATAGTGTGTTCAAGATGCTCATATTCAAAT
GTAAATGTACATTTAAAAGGTAGTGATTTTTCAACAAGGGTGCCAAGACCATTCAGTGGGAGAAAGAACAGTCTTTTCAACAAATGGTGTTGGA
AAAGCTAGATATCCACATGTAAAAGAATGAAATTGGGTCCTTATCTTACACCATCTGCAAAAATTAACTCAAAATGGATCAAAGACCTAAATGC
AAGATCTAAACCTTGCATTAGAAACCTTCCCATAAGAATATGGAGGAAGGCCGGGCACAGTGGCTCACACCTGTAATGCCAGCACTTTGGGAGG
CCGAGGCGGGCGGATCACCTGAGGTTAGGAATTCAAGACCAGCCCTGACCAATATGGTGAAACCCCGTCTCTACTAAAAAAAAAAAAAAAAAAA
AAAATTAGCTGGGCATGGTGGCGCATGCCTATAATCCCAGCTACTTGGGAGGTGGAGGCAGGAGAATCGCTTGAACCCGGGAGGCAGAAGTTGC
AGTGAGCCAAGATCACACCATTGCACTCCAGCCTAGGCAACAAGAACGAAACTATGTCTCAAAAAAAAGAAAAAAGAAAAGATAAAGAATATGG
AGGAAAGGCTTCATGACATTGGATTTTGCAGTGGTTTCTTGGCATGACATCAAAAGTACAGGCAACAAAAGTAAAACAATTAAACATAAATTAC
TGTACATCATAAATTAAACATAAATTAGAATACATCAAAATTAAAAACTTTTGTGCATCAAACAGTAACAGAATGAAAGGCAGCCTATGGAATG
GGAGAAAAATGTTTGCAAATCTTATATCTGATAAGGGATTAATACCCAGAATACACAAACAACTCCTATAACTCAACAAAAACAACAAAATAGC
CCAATTTAAAAATGGGTAAAGGACCAGTTGCAGTGGCCATACCTGTAATCCCAGCATTTTGGGAGACCTAGGTGGGAGGGTCACTTAGACGCCA
GGAGTTCAAGACCAGTCTGGGCAACATAGCGATACCCTGTCTCTAAAAACTTTTTAAAAACTGGGCAAAGGGCTTGAAATTTCTCCAAAGAAGA
TATAAAAATGGACAACAAGCATATGAAAAGATGTTCAACATCACTAATCATTAGGGAAATGCAAGTCAAAACCACAGTGAAGTATTACCCTCAT
ACCGGTTAGAATGGGTACTGTTAAAAAAAGAGAAAACAACAAGTGTTGATGAGGATGTAGAGAAATTGGAACCCTTATGCGCTGTTGGTGGGAA
TGTAAAATAGTGCAGCTGCTGTGGAAAACGGTATGGAAGTTCCTCAAAAAATTAAAAATAGAGTTACCATGTTGATCTAGCAGTTCTACTTGTG
GGCATATAACCAACAGAATTGAAAGCAGGGTCTTGAAGAGATATTTGTACACTCATGTTTGTAGCAGCATTATTAACAGCAACCAAAAGGTGGA
AGCAACTCAAGTGTCCTTCAATAGATGAATAGATAAACAAAATGTGATATAAACGTACAGTGGAATATTTACGTTTTAAAGAAAAATTCTGGCA
GATGCTACAACATGGACGAACCTTGAGGGCATTATACTAAGTGAAGTAATCCAGTGACAAAAAGAAAAGTACTGTCTGATTCCACTTATATGAG
TTATCTATCCAGAGTAGTCAAATTCATAAAAACAAAGTAGAATAGAAGTTGCCAAAGATTAGGGAAGGAGGAAATGCTTAATGGGTATAAAATT
TTAGTTTTGCAAGATGAAAAAGTTCTGGAGATTGGTTGCACAACAATGTGAATATACTTAAAAATAGTGAACTGTGCACTTTAAAATAGCTAAG
ATGGTAAATGCTTTTTTTTATCCCCCCACAATTAAGCGTTTTTTTTAAAACTCAAGGAGAAAACATTATGTAGTCAGAATGTTCTGAAGTGGTC
ACTATAGTCTTTACTATAAATGAAACTGTTAAGTGATTAAAATGTTGTATCTTAAAATATGTTATATAATTTTTTTAAACCAGAAAAAAGTGTA
ACATTACAGAAGGAAGAAAAAGTATAATGCATTGCTTTTATACTGGGCTTTGTATGCTTTTAAACTTTTTCACCTGCCTATAGTTACATACGTA
TAAAAAGCATTTAAATTTAGTAATAGCTATATTATACATTTGTATACATATATATTCTTGTTTTATATTTTATTACAAATGGAATAAGACTCCT
GAAATTGATAAATTGTGTATAAGCTAGTAAAACTGAAGTCCAGATCAAGTGTAAGAATAAATTGACGTGGCCAGGCACGGTGGCTCACGCCTGT
AATCCCAGCACTTTGGGAGGCTGAGGCAGGCGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGATGAAACTCCATCTCTACTAA
AAATACAAAAAATTAGCCAGGAGTGGTGGCTAGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGGCG
GAGCTTGCGGTGAGCAGAGATAGCGCCACTGCACCCCAGCCTGGGCGACAGAGCGAGACTCCATCTCAAAAATAAATAAATAAATAAATAAATA
AATTGACATTATGTATTCTTGGTGTGTTTTTTTTTGAGACGGAGTCTTGCTCTGTCGCCCAGGCTGGAGTGCAGTGGCGCAATCTCGGCTCACT
GAAAGCTCCGCCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCACTCACCACCACGCCCGGCTAATTTT
TTGTATTTTTAGTAGAGACGGGATTTCACCGTGTTAGCCAGGATGGTCTCAATCCTCTGACCTCGTGATCTGCCCACCTCATCCTCCCAAAGTG
CTGAGATTACAGGCGTGAGCCACTGCACCGGCCTATTCTTGGTGTATGTTACCTATGACTGAGATCCTGAAGATGAAGAATCTTTAAAATGTTT
ATGCTTTGGGGGTTGGGCATGGTGACTCACACCTGTAATCCCAGCACTTCGGGAGGCCGAGGTGGGCAGACCACTTGAGGTCAGGAGTTTGAGA
CCAGCCTGACCAACGTGGTGAAACCCTGTCTCTACCAAAAAATACAAAAATTACCTAAGCGTAGTGGCACGTGCCTGTAATCCCAGCTACTTGG
GAGTCTGAGGCACGAGAATTGCTTGAACCCAGGAGGCAGAGGTTGCAATGAGCCAAGATCGTGCCACTGCACTCCAGCCTGGGCAACAAAGTGA
GACCGTGTCTCAAAAAGAAGAAAATATTTATGTTTTTGGTCCAGTAATTCTACATCTAGGAATTTAACCTAAGGAAATGTGTAGAAGCTTGCTT
AACCCTCTCCAGACTAATTGATGCTCTCCATTCTGTTTGCATATATACTGAGTGATACAACTGGTTTCTTGTTCTGTGGTGTGGTCTCACACAT
TGCTCCCGTCAGTGAGTGGGCCTTGTCAGTGCCCTGCAGCCACAGACCACTAGGAACACACCTATAGTTGAACACGTTGGTTCATTACTTGTGA
GGGAGGATGCACACCATGCGAACTGTGGAGTATCTCAGTAAGAGTGTTAGGAGGAATATTTTATAGGACTTGTGCTTGTATTAGGTGATTTTGG
GGAGTTTAAGAAAGCAGAGCTTTCTCGATTGGATGCTGTTAGGATGTGGGGTGATTGATGTTTGGGTATCTTAATAAATCTTATTAGGACGTGG
GCCAACTAGAGTAGAGTGAGACCAAAGCTAGAACTGGTAGAGAAGCAGCAGTCACTCATATTAGCCAGGAGAGGGGGATGTTTGGTATTTTGTG
AAAATGCTCAGTGACCTTGTTTTTTTCCTCTGGGCTTAGACAAAAAAAAATTTTTTTTTCTTTTTTGAAATGGAGCTGGGGTGCAGTGGCGTGA
TCTCAGCTCACTGCAACCTCCAGCTCCCAGGTTCAAGCAATTCTTCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCGTGAGCCACCGTGC
CCGGCCAGACAAAATTTTGAAGTATTTTTGTTTTGTCTCACTTGAACACAGTCTCAGAGTGACCTTGTCTCATGTTGATATTTTGCGAGATTGT
TTATGTCCCACAGGAGAATAATATGGCCTCCCTATGATCCCTAGGCCAGCTTCAAACAGCACTGAGGTCCAGCTGTAAGTGTTCAAGCAGTTTC
CAGACGTTGGGGAGGCTTTTTCTTTCTCAAACTCTTGTTAAGAATCAGTTGAAGCCAGGTGCCTGTAGTCTCAGCCACTCAGAAGCTGAGGTGG
GAGGATCACTTGAGCCAGGAGTTTGAGTCCAGCCTGAGCAACATAGCAAGACCCTGTCTCTTAAAAAGGAAAAAAACTGGGCTGATGCAATGGC
TCACACCTGTAATCCCAGCACTCTGGAAAGCTGAAGCAGAAGTATCACTTGAGGCTAGGAGTTCAAGACCGACCTGGGCAATGTAGCAAGACTC

CATATCTACAGAAAATCATGGTGGTATTCACCTGTAGTCCTAGCTACTAGGGAGGCAGAGGCAGGAGATTCTCTTGAGCCCAGGAGCTCAAGAC
CAGCCTGGGCAACATGGTGAGACTGTCTACAAAAAAAAAAAAAAGAAGAAGAAAAGAAAATTAGCCCAATGTGGTGGTACATGTCTGTGGTCCC
AGCTACTTGGGAGGCTAAGGTGGGAGGACCGCTTGAGCCTGGGAGGTTGAGGCTGCAGTAAGCTATACTCACATCATTGCACTCCAGTCTGTGT
GACAGAGCAAGACCCTGTCTCTTAAAAAAAAAAAAAGTGATGTAGCCATTTCGTAAAGACAGTTGGGCAATAACTATCAAATTTAAAATGCATA
TCACCTTTGCACTTCCAGGAATTTACATTCCAAATATACTTATGCAAAGTAGGCAAACATACATGGACAAGTAGTCTCATTAGATTACTGTTGG
TAATATATGCATCAATAGAAGATTGTAGTATTATACACCCATTAAGAATGAGGTAGGTCTATTTGCATTTATTATGATGATGATGTCTTTCCTT
TATCAAATACATATTATGTGCCGGGCACCGTGCCATGCATTTGATGTGTTTTATCTAATAACTCTTTATTTATTTATTTATTTTTGAGACGGAG
TCTCGCTCTTTCGCCCAGGCTGGAGTGCAGTGGCGCTATCTCGGCTCACCGAAAGCTCCTCCTTCTGGGTTCACGCCATTCTCCTGCCTCAGCC
TCCCGAGTAGCTGGGACTACAGGCGCTAGCCACCACGCCTGGCTAATTTTTTGTATTTTTAGTGGAGATGGGGTTTCACCGTGTGAGCCAGGAT
GGTTTCGATCTCCTGACTTTGTGATCCGCCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACGCCCGGCCTTATCTAATA
ATTCTTAAAACAACTATTAATATATGGCAAGTACTGTTATTATTTACATTTTGCAGGTGAGGAGACTAAGCACAGAGATTAAATAACTTGCACA
AGTTTACACAGATAGTAAAGGGCAAACTTGGTATTCAAATCCAGGTATTCTGAAGTTAGAGTATGCTGCATTTTTGACCTCTAAAATGTACATC
CTCCTTTCTACTGATGGAGAAAGAGGATGAAGATATATAATAAATGAAAAAGTAGTTTAGAACTGAATGTCTAGTTTGCTGTCATTTGTATTTT
AAATTTTTTTAAAAAGTGACAGCACACAGTAGGATACCAAAGAAACGTAACAGTTACTTATAAGGAGCAGATGGATGGCCTTTCAGCTTTCACT
TTCCATCTCTTTCATGGGTGTTTTAATAATAGGCATGTATTACTTGATTTTTTTTTTTTTTTAAGAGACAGGGTCTCGCTCTGTCACCTAGTCT
GGAGTGCAGTGACATAATCATTGCTCACTGTAGCCTCTTACTCCTAGGCTCAAGCTCTTCTCCTGTCTTAACCTCCAAAGTAGCTGGAGCTACA
AGCATATGCCACCATGCCGCACTAATTTTTTAAATTTTTGTAGAGATGGAGTTTCACTATGTTGCCCTGGCCGGTCTTAAAACTCTTGGGCTCA
AGTGGATGCTCCTGCTTTGGCCTTCCAAAATGCTGAGATGAGAGGTATGAGCCACTATTCCTGGCCACTTACATATATTTTTAACTGAAATAAA
TGTAGCTGACATTTTGAAAAGTTGTAATATTTAATGAAGATTAAGCTAAAGTCATGAATAAAAAATGGTTTATCTATCCCTGCTTACATACTGT
TATGTAGGGTTTCCCTTGTCCTAATATCCTACCACCAGCTCACTTCAAATTCACTTCCTCTGGGGTTCATCTCTTATCTGATCCTACTTTTGAA
TACTTACATTTTTGTTTTTGTTTTTTGAGACAGGACAGGGTCTCCACTCTGCTGCCCAGGCTGGAGTGCAGTGGCATGATCTCAGCTCACTGCA
GCCTTGACCTCCTGGACTCAAGTAGTCCTCTCTCCTCAGCCTGCTGAGTAGCTGGCAAGCACCACCACGCCTGGCTCATTTTTTAAATATATTT
TTTTGTGGAGATGGGGTTTCACCATGTTGCCTGGGCTGGTCTCAAACTCCTAAGCTCAAGGGATCTGCCCGCCTTGGCCTCCCAAAGTGCTGGG
ATTACAGCTGGGATTACAGGCGCGAGCCAACGTGCCCAGCCCCCAGATACTTAATATTTCTGATTGACAGAGTACCTCATTTGTCATTTAGCCT
TTTTTTTTTTTTTTTTTGGAGACAGAGTCTTGCTGTGTCGCCCAGGCTGGAGTGCAGTGGCATGATCTCTACTCACTGCAACCTCCGCCTCCCAG
GTTCAAGCAATTCTCCTGCCTCAGCCTCCTAAGTAGCTGGGATTACAGGCACGCACTACCATGCCTGGCTAATTTTTGTATTTTTAGTAGAGAC
GGGGTTTCACCATGTTGGCCAGGCTTGAATTCCTGGCCTCAAGTGATCCGCCTGTCTTGGCCTCCCAAAGTTCTGGGATTACAGGCGTGAGCCA
CCATGCCCCACCAAAATGTAATTTAGCCTTTTAAATGGCCTAAATTTTCTATTGTTTCCGAAAGGACTTGATACTGCTTACAGTAAGATAATGA
TGCACATCATAGGAACTATAAACATTGAGATTACAATTATATAGCCTAATATAGTTCTACAATTGAGCAGTAAATTTAACTTAGTTTCCTGGAA
GTAGGCAAAAAATAAAATATTTTAAGTTCTGTAGTTGTGGTTTGACAAAAAGACACATATGTTTTTGTTTAAAGGAACATTTTTCTGATTCTAA
ATTTTGAGAAGAAATGTGTTTCATGGACCCTTTTATGCAATTTATCCTGTTCTGGTTACTTCTTGTTTTGTTGTTTTTTTTGTCTACCCAACTA
AATTATAAGCTTCCTTAGGACACACTCTATTTTTCAATACTATTTTTGTTCTATCTCTGCCTAGAAAATTTGCGCTTATTATAGTTGAAATGAT
AAATTAGGCAACAATTGCAACATAGCCATATTTCATGGATAATGTTACCACCAGTTTTCAAAGACTTAATTTTTGAGTAGTTTAGGAATTTATA
TTACTTTCATCCCTTTCAGCAGGGAATCCTTTTTGAGACAGGGTCTCACTCTGTCACCCAGGCTAGAGTGCAGTGGCATAATCATGACTCACTG
AAGCCTCAATCTCCTGGGCTCCCAGGCTTAAGCTGTCCTCCCACCACAGCCTCCGGAGTAGCTGGGACTACAGGTGTGCACCATACCCAGCTGT
GTTCTTTGGTTCTTTGGGGTGTTTTTTTTTTTTTTTTTAGAGATGAGGTCTTGCTGTGTTGCCCAGGCTGGTGTCAAATTCCTGGACTCAAGCAG
TCCTCCCACCTCAGCCTCCCAAAGTGCTGGGCCGATCAACAGGGAATCTTTTGTGATAGCCTTCAAAAAAAATAATTTATTTATTTGTATGTAG
CACTCTGTCATCTTGTAGCCCATACTTTCTAGCTGAGTATGTAGTATGAAAAACTGGAAATTAGAACTTTGGTTTTATGAAAGTTAAATCTTTT
TAAATAGGGCTTATAGCTTTCAACTACCTTTTCCTTTCCCTTAGGCCAAGTCATCAAGGCATGGGACATTGGGGTGGCTACCATGAAGAAAGGA
GAGATATGCCATTTACTGTGCAAACCAGAATATGCATATGGCTCGGCTGGCAGTCTCCCTAAAATTCCCTCGAATGCAACTCTCTTTTTTGAGG
CAAGTATGTGTGTGATGTTGCCTTGTCAGCATCTGCTCTACAATAGGAATGGCTTTGAAGCAACAGGCAGTGGGAAAAGGAGCTAAGCTTGCTA
TAGAGAATCAGATCCAACTTACTTATTTTGGAGCATGGCTTCTTGAATTGTTTCCCACAAACCCAAGGGTGCGCGTGCCAGTGCTTTCTTAGAA
ACGTGTTTCTAGCACAAAAAGGTCATATCCAAATAAACAAAAGACGCTACACTTAGAAATAAAGATTCTGGTCCATGGTGTGAGTGTGACATAC
TCAAAATTGACCAGAGTACAGGATGGAAATGTTGGCGATAAATGTTGAAATATGCCTATGTCACGTTGCGGGGTATTTACATATTATAAAAATT
TATGTGTCACAGATCTCACTTCTCTAGAAGCCGTTGGTGGTGATAAAACATTATTCATCCTATGTTGAATTACATATATTTGGCAAAACTTGAT
TTTTAAGAACCACCCCAGCTAGGTAAAATACACCTTTAATCAGTCGTAGGTCACATCCATGAGATTTATTCTTACATTTTGAGAAGGGAACTCC
ATAAACCCAGGATGGGAAAGTTGTGGCCTCAAACAAAATAGTTCTACACCAGCACCTTGTAGCTCTGGCTTTTTGCCCACAGGGTAGTTTTCCT
AGTATTTCCTATCTTTGCACTGCAGTCCCTTAGGATATAGTTCTAGACATTAGCATTACATGAAATTCTTTCCAAGTATGGAAAAGTATAGTGG
GTTTTTTTTTTTTTTGCTACTTTTCCAATAATTAAGATGCATAAATGAATGTATATATTTTAAAACAGCTTTATTTTGTAAAATGAAATAATTGG
TTGCCCTTGCCTTCACATATGTTCAGTTGGCTTTATTTGGTCTTTTCTCAGCTGAATTCCTTTTTTCTTTCTAGATTGAGCTCCTTGATTTCAA
AGGAGAGGATTTATTTGAAGATGGAGGCATTATCCGGAGAACCAAACGGAAAGGAGAGGGATATTCAAATCCAAACGAAGGAGCAACAGTAGAA
AGTAAGTATTAAAGTAAGAGGGAACTAGTCCTTAAAAGTTGGGCCATTTATGTGGACGAAATGGAGACTTAAAAAAAAATGTTTGTAGAAATGA
ATATATCGGCTGTGCGCAGTGACTCACGCCTGTAATCCCAGCACTTTGGGAGGTCGAGGCGGGTGGATTGCCTGAGCTCAGGAGTTTGAGACCA
GCCTGGCCAGCATGGCGAAACCCCATCTCTACTAAAAATACAAAAAACTAGCCAGGTGTGGTGGTGCACGCCTGTATTCCCAGCTACTCGGGAG
GCTGAGGCATGAGAATCACTTGAACCCGGGAGGCAGGGGTTGCAGTGAGTCGAGATGGTGCTACTGCACTCCAGCCTGGATGACAAAGCAAGAC
TCTGTCTCAAAAAAAAAGTATTGAATATATCTCAAAGATAGTCTTAGCTGGGCACAGTGGCTCATGCCTGTAATTCCAGCACTTTGGGAGGCCG
AGGCAGGAGGATCTCTTGAGCTTAGGAATTCGAGACCAGCCAGGACAGCATAGTGAGGCCCCATCTCTACTAAAAAGCATCAAGAGAATTAGTC
AAGTGTGGTGTCACGTCCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGTGGAAGAATCACTTGAGCTCTGGAGATGAATGCTACAGCAGAGAGC
CGTGATTGTGCCATTGTGCTTCAGCCTGGACAACAGCAAGATTCTGTCCAAAAAAAAAATAGTTTCAGGTTCAACATTTATTTAATAATTTTAT
TTAGTAAATATTAATTCAACATCTACGTGTCAGGCATGCTACCAGCCTCTACAAACTCAAAAATGAATACAAAGTAATTCCATCCACAAGAAAT
TCTCAATCTGTGGACTCTCTGGTGTGCCAACAACTATATTAGTTGCCTGATATGTTTGTTCATTTATTTCTCACAACCTTAAGAGGTAAAATTT
CTTGTCCCCAGATGAGAAAAGTTAATTCAGAGATGTTAAATAAATTGCCCAGGGTTACAGAGTTACTAAACAGAGCAGTAGATTATAATCCCTT
TTAGGACTCAAATACATCTCATCAGCTGTCATCAAGATTAAAAAATAGTTCATCATTTAGATCAATATTGGATAATAATGTTCATTCTATTCCA
TATCAGGAGACCTAGGTTCAAGTCCTGCTTTGGTGTTTATTGAGTAACCTGAAGCTATTCCGTTTCTTCATTTGCTAAGTGGGAGTAGGGGCAG
CTCTGAGGACTGAGATAGCTAACTCTTCTTCCCTCCCAGAGCAAATTATATGTACCACTGTGTATACTACTTGTCACTTTACATTGTAATCAGT
ATTTGCCCATTTCTCCCAGTATACTTTGAGTGCTTGAGGACCAGAATCTTTCTTCATCCTTTTGTGTTCAGCATTTCCTGCAGTGCGTGACACA
CATTTGGTGTTCAGTAAAGGCTTTCTGCATGGATAAGTGCTTGAGAAGTGTCATTAGTGAGCTGAAATCCTTCAAAAGAGAGTTGTGAGAAAAC
AGAGAAATACTTCCATTAAGAACAAAAATCAAATCATTCAACAAGGATGGGAACATGAACTATTATTATAAAAGGTCTGTTTAAAATAATTATT
TCAAAAGCCAGGTGTAATGGTGTGCACCTGTAGTCCCAGCTACTTGGGAGGCTGAGATAGGAGGATCACTAGAGGCCAGGAGTTCGAGGCTATA
GCGTGCTATGGTTACACCAGTGAATAGCCAGTGCACTCTAGCCTAGGTACCATAGTGAGACCTTGTCTCCTTAAAAAAAAAAAGTAAAGAGTTC
ATTTAAACAGAAAACAAGAATAGCTGAGTTTCTTTCTTTTAAAGTATATACTATTTTCAACCCATATTTCATTTCTACGAGTCTGGCAAATCAG
TTTAAATTCTGTTGTTTTGGGAAGCAGTTACAAATATTATTTATCCCAAATTGCCATTTGGGATAAGTTTTTGAATACATGAAGAGCTTTAAAT
GTAGAATACCAGGGAAATAGCTCCAGACTAGGAGTTGGGAGATAGGGTTCCAGCCTCAGCCCTGGCCTCAGGCTGGCTTCAACTAGACTTCACC

TCTGGGCGTTAGCTTCCTTCCTATGCAGTGAGGCAAGCTTGAACCTCTTGATTTTTAAGGTCCTACTAGCCCTAAAACTCCATCATAGAATTCT
AAATATTTACAAAAGTTGTAGGAATGATAGAAAATCATCTTCACTATATTAGTAAGCACTTAAGCTTGTCTATAATGTGTATTTTAAATTTTTC
TTATGAAAAATTTCAAATGTATGTACAAAGGTAGAGGTTTACTCCTATGGATACAGGCACACCCTAGATTCAGTAATTTATAATATATATTTTT
AAACTGGAGGGTTTTGTCAACTAAGAGGAAAAACTTTTCCCAATTATAGACAATATCACAAAATTACCGCTGTGGAGATGACTTTAGAGCAGAC
TAAATTAAATCAGATCTTGCTTTTGGTAATACTTGCGATGGGAGTCAATTTTTTTTTTAACTTTTTGTTTTGAAATAATTTTAGAATTACAGAAA
AGTTGCAAAACTAGTATAGCGCGTTCCCTTATATGCTTTACACAGCTTCCTCTAAATGTTAACATCTTACCTAATCACAGTACATTTATCAAAA
TCAGGAAGTTAACATTGATGTAGTACCAGTAACTGTTTTCCAGATCTTATTTGAATTTCACCAGTTACTACACTACTGTCGTTTTCTGGTCTAA
GATCAAACTCAGGATCCAGCATTGTATTTACTTTTTTTTTTTTTTTTTTTTTTTTTGAGATGGAGTCTTGCTCTGTCATCCAGGCTAGAGTGCA
GTGATGCTATCGCAGCTCACTGCAACCTCCACCTCCTGGGTTCAAGCAATTCTCCTGTCTCAGCCTCCCAAGTAGCTGGGACTATAGGCGCACG
CCACCATGCCCGACTAATTTTTGTATTTTTATTAGAGACAGGGTTTCTAACATGTTGGTCAGGCTGGTCCTCAAGCTCCTGACCTTGGGTGATA
CACCCGCCTCAGCCTCCCAAAATGCTGGGATTACAGGCATGAGCCACCGCACCCAGCCTACTCTACTATTTTGAATACAACTGACCGTTTTGTA
GAATATCCCTCAATTTGGGTTTCTGGGATGTTTTTAGATTGAGGTTATGCATTTTTTGAAAATACCACTGAAGTGATGTGCCTTTCATCATTAT
CAAGAGGTATATGATATTGATGTCTCATTACTGGTGATGTTACCTTCGAACACTGGGTTAAGGTGGGAAACCATGTTTCACTACTGCAACGTTA
CTATTTTCCCTTTGTAATTAAAAAGTATTAGGAGTGAAGTACTATCTTGTTTTTGTATCACAACTTTACACACTCATTTTGACATTTGTTGATTT
TTGCTTGCAACAGTTATTACTGTGGCATTTGACTAATGGTAAATTTTCTATTGCTGTTATTCTCTCTACATTAATTTGAATCCTACTGTATATT
TATTCAGTTTATTTATATCATTATGGATCTGTGTATATTTATTCCATAAGTTATTATTCATTACTATTCTTATTTATTTTGTTGTTCACATTGT
CCCAGATTTGACCATTGGAAACTCCTTTAAGTTTGTTTTTTGTGTCCTTTCAATATTATCCCCATTTTTTTTAAGTGCTTCCTTATTTTCTGGTA
CCACAAGACACTCATGGCTCATCTTAAAATTTTCCTGCCCTAGACCTGGAACCAACCATTTCTCCAAAGAGCCCTGATTCCTTTTATTGGAGAA
AGGCATTTAGAAACCAAGATCTGAGTGCTAGGTTTGCTCCTGCTATGGGATATCATCATTCCTAGACCCACTTAGCAGACAGAGAGATAGAGAA
TATATGGACCTCAACATACATACGTATACATCTATATGTATTTCTACATCAGCCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTAGTTG
TTGTTGTTGTTGTTGTTGTTGTTGTTTGCGACAGAGTCTCACTCTGTCGCCCAGGCTGGAGTACAGTGGTGCAATCTCAGCTCGCTGCAACTTC
CGCCTCCCAGGTTCAAGTGGTTCTCCTGTCTCAGTCTCCGGAGTAGCTGGGATTTACAGGTGCCTGCCACCACGCCCAGCTATTTTTTGTATTT
TCAGTAGAGATGGGATTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCGTGATCTGCCTGCCTTGGCCTCCCAAAGTGCTGGAATT
ACAGGAATGAGCCACCGTGCCCGGCCAGCCTGTATGTATATGTTAAAAACCAGGGATACTCACTGGCAGTTGCAGTTCCAGTTCCAATCCAACA
CCACAAGTTTATTTGCCCTTTGCTCATTTGAAACTCCATTCTCCAGAAGTGAGAAAATGCTCTCATTCTCCACAGCATACTCATTGCTCCCATC
CTAGTGTATATGTAAGATGGTTTTAGAATTGCTAACCTAGACCCCTGTGACAAACTGACTTTAGGAAATATTTGTTTATAGTACCTTTTGTCAT
CAGTCTTATAGTGTATATTCAAAACACTTGCTTTCCAACTGAGGTAACTTCTTTCTTCCTCACCCCCTTCAATGTGATTATGTTACTCAATTGT
AACAAATTATTCATTTGTTACCCTGTATATTCCATTTTGGGTTCCTGCCATGCTCTGGTTAATTTTAATTATTCGTTTTATTTTGGATATGTGA
AACATTACCATGATTTTAAACTATATAAAAAACGATATACTCAAAAGTGTCATTTCCCCCTCATCCTTATTAACCTGTTCCCACTTCCCCATTA
TTTCCACCCTATTCCAGTCTCATTAGTTATATCATTAGATCCTGGTTTTTCTTCCTGTATTTTATTACGTTTTATGTCATTTTATTTTTTTCTG
TTTCTGTTAACAAAGGGAGCCAGTCGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGCAGGAGGATGGCTTGACCTCAGGAA
TTTGAGACCATCCTGAGCAACATAGAGACCTTGTCTCTGCAAAAAGTTTAACATTTAGCCACATGTGATGGCACATGCCTCTAGTCCCAGCTAC
CCAGAAGACTGAGGTAGGAGGATCTCTTGAGCCCAGGAGTTCAAGGCTGCAGAGAGTTGTGATCATGCCACTGTACTCCAGCCTGGGCAACAGA
ACAAGGCTCTGTCTCAGTTTGAAAAAAAGAGAGAAAGAACAAAAGAAAGGGCAATGACTAATCTTTTGTCTTTCATCTTGTTAGAATGTACTTT
CCTGGGAAATTTTAGATTAAATGGTTGATTTTACTTTTTCACTCAAAAGACCGTCTTGGTTTTCTGGAACAAATCTATTTCATAGAAATTTATT
GTGTTATACTTTCATTTATCAAGGTTAAAATGTCCTGGTTTTTCCTCCTTTAAACAAGTTAGCTATCTGGGGGAGGAGAAAAAAGATTACCCTA
AAGGTGGTCCTGTTCAAAACCAAGATCACCTTGTTCTTTTTGAAATCTTCTCAGTCTTTACTGGTTTGCCTTTTCTTTATAGCATCACCAAATA
CACTTAGATGTGAAACCAGATATAAAACCTGGAACTAGGCCAGGTGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGC
AGATCACGTGAGGTCAGGAATTTGAGACCAGTCTGGCCAACATGGCAAAACCCCATCTCTACTAAAAATACAAACAATTAGCTGGGAGTGGTTG
TGGGCACCTGTAATCCCAGCTACTTGGGAGGGTGAGGCAGGAGAATTGCTTGATCCTGGGAGGTGGAGGTTGCAGTGAGCAGAGATTACGCCAC
TACACTCCAGCCTGGGTGACAGAGGGAAACTCCGTCTCAAAAAAATAAATAAATAAAATAAATAAAACCTGGAACTAAAGCCGGCTATAGAGTG
AACAAGAACAATAGACACTGATCACCCATTACAATATGTTGTTATAGATACGTGATTTACTAAATTTCTGTCATTTCTGTGTAAAGAGACAATG
AAGTGGTATGGAGGAGGGGACAGATAGACTTTGTAAGTGATGGACTTGATTTTTGAATCTTGGAATTGCTACCTGATACTTTTATGACTTTAGA
CAAGTTACTTAACTACGTGGAGCATTCAGTTTTTTTAATCTGTCAAATGGGAATAGTTTTCACTCCCACAGGTTGTGTGACAGTGATAACGGTT
TGGCTGTGTGCCTACCCAAATCTCGTCTTGAATTGTAGTTCCCACAATCCCCACGTGTCGTGGGAAGGACCCACTGGGAGGTAACTGAATCGGG
GGGGCATTTTCTCCCATGCTGTTCTCATGATAGAGTGAGTTGTCACGAGATCTGATGGTTTTATAAGGGTCTGGCAGGGAAACCCTGCTGGCTC
TTCCCTCTTCTGCCGCCATGTGAAGAAGGGTGTGTTTGCTTCCCCTTCTGCCATGATTGTAAGTTTCCTGAGGCTTCCCCAGCCATGTGAAACT
GTAAGTCAATTAAACCTCTTTTCTTTATAAATTACCCAGTCTCAGGCAGTTCTTCATGGCAGCGTGAGAATGGACTAATACAAACAGTTACAAA
GAAGAGTGTCAGACATTTAGTGGACACTTAATTTCTTCTACCCTATATATTGTGTTTCACTAATTTGTTTTGCTTCCTTTTAATTGATCTAAGG
AAAAAGATCCTTGACTCCTCTTTTTCTTTTTCTGTTGCCCAAGCTGGAGTGCAGTGGGCCAGGCTGGAGTGCAATGGCGCATCTTAGCTCACTG
CAACTGCTGCCTTCCGGGTTCAGGTGATTCTCCCACCTCATCCTCCCAAGTAGCTAGGACTACAGGCACGTGCCACCACACCCAGCTAATTTTT
GTATTTTTAGCAAAGACGGGGGTTTCGTCATGTTAGCCAGACTGGTCTTGAACTCCTGACCTCAGGTGATCCACCTACCTTGGCCTCCCTAAGTG
CTGGGATTACAGGCGTGAGCCACTGTGCCTGGCTGACTCCTCTTTTTCTTATCTCCTACATGTCATCCATCAGCAAATCCTCTTGGCTCTACCT
ACCATGGTTATTAGAGACCTAAAATTGTCTCTAATAACAGTCTTCAAATTAATGATATATCTTAATAGTAATCTTATCTAAATCACATTTCTCA
AGGTTCCGGGGAAAGAATAACATTATGGACTCAAAAAGGTTTTTACTGAATTGTAAACTTTTACTTCCTTTTCATAATTTGTCTCTGTGTGGAA
GAGAAAACTTAGGTTAGTTTGATGGGATTTATTCTTTCTCAAGGAAATTTTGATTTTTACTCTTTATATGAGGATCCTAATGGTTACAAATCAG
TTTTTAGAATCTGTCCCCCTACGCTTTTTCTTGTGTCAGTTAAGATGACCATCTTGTAATTTTTATTCAAAGTTTTTCTTTCATTTAAAAAGTT
ACTGTGTTCTAAGGTACTCTAATTGATATGATTATGATGACTGATACTTCAGTCTTTAAGTTTAATTGCAGGTCTTGGCTACATTGCTACTTTT
CAGCTTTGCTTTCTTAGAAAATCAAATCTGACTTACATAAGGTTCTAAATAGCTACCAGTTACTCTTCCCCATCCCCCAGTCTCTCACATCGT
CTGATTTGTCAACTTTAGTGGTTGGAAGAGGCCCATCAAAATGCTGGCTGTATGTGGTTCTCTCGCCTCTCAGTACTTTCAGCCACATTTGAAT
GCAAAGAATGCAGACAGTCAGCAGTATTTTTAAATGTGAAATTTTCAACAGAGTGTTCTACAGGTTCCAGTTGTTGGCGTACCTCCTTTCCCTC
TCCAAATCTCACTGAAATGATAGATGGAGGGAACAAAGATTTCAAAAGAAGAAGAAGAGATCAATAATAGTGCTGGAAAGGAGAGGAATGTAA
GAGTGGATCAGAAATTATGGAGAATTTCTGGAATATGTAAAGTTGATGAAGTTGAACCAATGGAAACTAGTCTCAGCAAATCCAACCCGAGACA
GGTGTAAAGAGGACTTAAGCAGAGGTACACACTGTTCTTCTCAACAGGCTTAGGCGGAACTCCAAGCTCATGGTCATCTGGTGTGAGGGAGCCC
AAGCAGGCTATGCAGCAATCATCAGGGTTGTTATAAAACAAGATGGAACAGCGGGGCCAGTAAACCTCCAGTGCAGTAGTTCTCAACTTTTCCT
GAATTTAGAATTACCTAGGGAGCTTTAAAAATTCTGACACCCAGACCAGTTAAATAAGAATCTCACATCTCAGAAGATGGAACTCCAGGCACA
AGTATTTTTTTTTAAACTCCCAGATTATTCTAGTTTGCAGGCAAGGACTGAAAACTACTAGACTACGGTCTGACTGTGACTTTTTCTCCCAAGC
TAAAACCAGTAAGGCCAGGTTCTAAAATAAAATAGAAAAATAATAAAATAAATTTAAAAATAAATAATAAAACAAAATGTGCCTCAAAAGACTC
CAAGTGTTAGGACTTCGACTAGGGAAAATGAATGTATTTTTTGAAACTTTTTTTTTTTTTTTTTTGAGACGGAGTCTTGCTCTGTCAC
TCAGGCTATAGTGCAGTGGCGCGGTCTTGGCTCACTGCAAGCTCCGCCTCTCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGG
GACTACAGGCACCTGCCACCACGCCCAGCTGATTTTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTC
CTGACCTCGTGATCCACCTGCCTCAGCCTCCCAAAGTGCTGAGATTATAGGTGTGAACCACCACGCCCGGCCTTTTTTGAACTTTTAAAACAAA
TTTAAAGGGGAAAAAAGTGTAAAGACAGCTTTTCACAGTAAATAATACTAAAGTGTTCTGCTCCTAAAGTCAACTTTCCTGTGCCCATCATGCC

CAGCTCATAGTAAATGCTTAATAAATATTTGTGAAATCTTCACCCTTAGATCCCCGCAATCAGCCCATCCTTTTGCAGAAAGGCCTGCCATGGA
AACATATCCAACTGCTTAGAAAAATGGTGCCAGCTAACTATAGTCATTTGATCATCCAGAATCCTTCCTTTATAATACGGCCAGACAGCAAAGA
ATCATCAGCAAATATCACGAAAAAAGCAGCACTAAAATGGACTAACAGAAGAAGTAGAAGAGAACCTTAAAAATACTAATTATTGTCTTCAGAA
ATTGTTAACAGGACATCAGATTCATAAGTCAAAAAGCCAACTTCCCTGAAAAAGGAAAGGGAGGACAAGAAAGTTTCTGGAAGTTAGAGCATGA
TTAATCAAAACTGAAACTCAGAGGAAGGGTTGAAGAGCAAAATGGACAGTCCCTGAAATCAGGTGATCTGAAAGATAGCCAAGGATTTCTCAGA
ACACAAGAAAAAAGAGGGATGAAAAGTGAAAAAGAAATTAGAAGATATGGATAATAAATCCAGGAGAGGTAATATGCATCCAATCAAACATCTA
ATAGAAAATTTCCTACAGGGAATAAAAGAAAAAGATTCTTAAGATCGAAAGGGCCAGTTGATAGTGGTACCCAGGAGGAAGGAGTGGTTTTTCA
CCCAGATATATCCTGGTGAAATTTCTGAATTCTGCAGCTTACAAGAAAATTCTGAACTCTTCCAGGGAAGAACAAGCTATGTACAAAGGAATAA
GAATCTTATTCATTACACTAAAGACAATGCTTTTGATCATTGTCTATAGCTATGTGTATTTTGAACCTAGAATTCCGTACTCAGCCCAACTGTC
ATTTATGTATGAGAACAAAATTAACTTTTTGGAATTTGCAGACTCATATTCTTTTCGAAAAAAATACTGTGGGATGTACCAAAACAAAAAAATA
AGTCAAGAAGCAACAACTCAAGGCATAAGAAACAGTAGCGAGAAAAAAAAAAATAATTTCCATATTGGATACATTTATCCTGAAAGATCTCTGAA
GCAGTAGAGCTGTAATGTTAGAAGTAATATTAATAATGAAACAGTCTGGCCTGGGCACAGTGGCCCACACCTGTAATCCCTACACTTTGGGAGG
GCGTCACTTGAGGCCAGGAGTTCAAGACCAGCCTGGCCAACATGGCAAAACCCCATCTCTAGTAAAAATACAAGATTTAGCCAGGCATGATGGC
ACATGCCTATAATCCCAGCTACTCAAGAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGACAGAGGTGGCAGTGAGCCAAGATTGTACCACT
GCCTAGGTGACAGAGGGAGACTCTGTGTCAAAATAATAATAATAATAATAAAACAATAATAACAGTCTGGATTCTGGGTTATTTTAACAAAAGG
TGGTGAGGATAGGAAATGAAGAGGGGAAGGCAAAATTGTCTAAGATTATTTTCTTTTTTAAAACATTTTTTGGAGATGAGGTCTTGCTCTGTTG
CCCAGGCTGGCATGCAGTGGCACAGTTGTGGCTCACTGCAGCCTCAAATTCCTGCCCTCAAGCCATCCTCCCACCTCAGCCACCGGAGTAGCTG
GAACTGCAGGTGCACACCCAGCTAACTTTTTTTTATCCTTTTAGAGACGGGGTCTTGCTATATTGCTCAAGCTGGTCTTGAACTCCAGGGCATAA
GCGATCAGCCTGCTTCAGCCTCCCAAGTAGTTGAGATTACAGGCTCGTGTACTACCACAACCAGCTGCCTTAATTTCTTGTTCCAGGGGAGATT
ATGCTGATTAATTCTTTTATTTTAAGATTCAGGGGGGACATGTGCCAGTTTGGTACATGGATATATTGTCTGTAATGCCGAGGTTTGGGCTTCT
ATTGAACCCATCATCCAGATAGTGAACATAGAATATAGCCCTTGTACCCCTCCATCCTTTTTTGCTTTTGGAGTCCCCAGTGTCTCTTGTCCTC
ATCTTTATGTCTGTGTATACTCAGGGTTTAGCTCCTACTTATAAGTGAGAACATGCAGTATTTGGTTTTCTGTTTCTGTGTTAATTCACTTAGG
TTACTGGCCTCCAGCTGCATCTGTGTTGCTGTAGGGGACATCCTTTCATTCTTTTTTATGGCTGCATAGTATTTCATGGTATATATGTACCACA
TTTTCTTTTTTTTTTTTTTATTTCAAGTCTGTCAAGCTATTCTTTATTTCGGAGAGAGGGCAGGGCAGAGTGCTCAGTCCTTGGCAGCGGCTTTT
GTCATGGTGGCCAGGACATTGCTCAGCTCCTCCTGCTTCCTCTTGGTGCATCCCCACCCTTGTCTTGATGAACTTGAGGGCCCATTTGTCCTTG
GAGACCTTCAGTAACTCCATGGTGCACCGCTCGTATGGGGTGAAGCCACACAGCTCTCAGATCATGTCCGGCACGAACTTGGTATATTTGGTCA
GGTGCCTGCAGCAGTGGCTGTGCCTGGGCGTCCTCATGTTCTCGGTCACCTTGTGGCCCTTGTTGAGGCCCATGGCCATAGGGCAGCACAGAGC
CATGGCCGCTGCTCTCCAATGGTGGCCGTGGCAGAAGGAAGCCCACATTTTTATCCAATCCACCATTGATGGACACCTAGGTTGACTCCGTGTC
TTTGCTATTAAGAATATAACTGTGCTTAAGAGTAAGTGCTGTGTGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGGGATGGT
CACTTGAGCCCAGGAGTTTAAGACCAAACTGGGCAACATAGTAAGACCCCATTTCTACAGAAAAAAAAAAAAAGGCCAAGCATGGTGGTGCATGC
CTGTAGTGCCGGCTACTCAGGAGGCTGTAGTGGGAGGATCATTTGAGTCACATTTATACCACTGCAGTCTAACCTGGGCAACAAAGCGAGACCC
TGTCTCAAAACAAAACAGGCTGGGCGTGGTGGCACATGCCTGTAATCCTAGCACTTTGGGAGGCTGAGGTGGGTGGATCATTTGAGGTCAGGAG
TTCAAGACCAGCCTGGCCAACATGGTGAAACCCTGCCTCTACTAAAAATACAAAAATTAGCTGGGTGTGGTGGTGGGCGCCTGTAGTCCCAGCT
ACTTGGGAGGCTGAGGCAGAATTGCTTGAACCTGGGAGGTGGAGGTTGTAGTCAGCTGAGATTCTGCCACTGCAGTCCAGCCTGGGCAACAGAG
TGAGACTCTGTCTCAAAAAACAAACAAACACACAAACAATGCTGCAGTAAACATGTCAGTGTAAATGCCAGCTATCTTTCTGATAGAACGATTT
ATTTTCCTTTGGTTGTATACCCAGTAATGGGATTGCTGGGTCAAATGGTACTTTGATTTTTAGTTCTTCGAGAAATTTCCAAAACTGCTTTCCA
CAGGAGCTGAACTAATTTCCATTCTCATCAACACTGTTTAAGCATTCCCTTTTCTCCACAACCTTGCCAACATCTGTTCTTTTTTGACTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACGGAGTCTCATTCTGTTGCCCAGGCTGGAGTGCAGTGGCGCGATCTTGGCTCACTGCAA
CTCCCGCCTCCCAGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGCCCACCACCACGCCCGGCTAATTTTTTAA
AATATTTTTAGTGGAGACGGGGTTTCACCGTGTTAGACAGGATGGTCTCGATCTCCTGACCTCATGATCTGCCTGCCTCGGCCTCCCAAAGTGC
TGGGATTAAAGGCATGAGTCACAGCGCCCGGCCTTGACTTTTTATTAATAGTCATTCTGACTCAGTTGTGAGATGGTATCTCATTGTGGTTTTG
ATTTGCATTTCTCTGATGATTAGTGATGTTCGGCATTTTTTCATGTTCGTTGGCTGCTTCTTCGTGTCCTTTGCCTACTTTTAATGGGGCTAT
TTGCTTTTTTCTTGTTGATTTGTTTAAGTTCTTTTCTGGATATTAGTCCTTTGTCAGATGCATAATTTGCAAATGTTTTCTCCCATTCTGTAGT
TTGTCCATCTGCTTCGTTGATAGCTTATTTTGCTGTGCTGAAGCTCTTTAATTAGGTCCCAACTGTCAGTTTTTCTTTTTGTTGCATTTGATTT
TGGGGACTTAATCATAAATTATTTGCCTAGGCAATGTCCAGAAGAGTATTTTCTAGCTTTTCTTCTAGGATTTATATAGTTTCAGGCCTTACAT
TTAAGCCTTTAATCCATCTTGAGTTTGTTTTTGTATATGGTGAGAGGTAGACGTCTGGTTTCCTATTTGGATGCCTTTTATTTCTTTCTCTTGC
CTGATTGCTCAGGCTAGGACTTGCCGCATACTGATTGCTGTGGCTCAGTACCATGCTGAATAGGAGTTGTTAAGAGTGGACACCCTGTTTTTTT
CCAGTTCTTAGGCGGAATGCTTCCAACTTTTGCCCGTTCAGTATGATATTGACGGCTGGGTGCAGTGGTTCACACCTGTAATCCCAAGACTTTG
GAAGGCCGAGGCAGGAGGATTGCATGAGCCTAGGAGTTCAAGACCAGCCTGGGCAGCATAGTGAAACCTTGTCTCTACTAAAAATAAAAAAAAT
TAGCCACACATAGTGGCATGCACCTGTAGTCCCAGCTTACTTGGGAGGCTGATGCAGGAGGATCACTTGAGCCTGGGTGATACAGGCTTCGGTG
AGTTATGGTTGCACCACTGCACTCCAGCCTGGGCAATGGAATAAGACCTTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGATATTGTC
ATAGGTGGCTCTTATTATTTTGAAGTATGTTCCTTTGATGCTTAGTTTATTGAGGGTTTTTTATAATGAAGGGATGTTGGATTTTATTGAATGC
TTTATGCTGATTGATTCTGAACATTGATAAAGAGGTATATATATATATCTTTAAATGATTTGTTCAGACTTTAATGGAAAGTACTAGTAAGAAT
AGCATGTAGAATTTCCAAATCACCCCATGTGGAGTGGGGAAATAGAGGAACAAGGAAAACTTCATCAATTGAGCAAAAATTGTTTTAAAAAATA
AGAAAACACGGGCCGGGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCACGTGGATCACGAGGTCAGGAATCGAGACCA
TCCTGGCTAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAAATTAGCTGGGCATGGTGGCGGGCGCCTGTAGTCCCAGCTACTTGGGAG
GCAGGAGAATGGCGTGAACCCGGGAGGTGGAGGTTGTAGTGAGCCGAGATCACACCACTGCACTCCAGCCTGGGCAACAGAGCGAGACTCCATC
TCAAAAAAAAAAAGAAAACACTGTGTAGAAAACCAAAGACAAGAATAAAACCACTCATATCAGTGATTACAAAAAATATGAATGGGATAAAGTC
ACCTATTAAAGGCAAAAGGTCTCATAAAGTGAGAACAACAACAGTATCTAGCTATGTGTTCTTTATAAATGAAACACTAAAATCAAAAAGGTAC
CAAAAATTGAAAATAGAGGAAAGATTACGTCTGCCCATATTGAGATCTGATGGAGCTGTGAGACTTTACATTTTTGTTTTTCATATGCTTTTGA
AGTATTTATGAATGTCCTGGGATATAAGTCTAGGAATAGGAGCAAATTCTTGAAACCATTTTATTATATGTTTTCACAAAATAATGTAATATGG
TACTTGGTCTAAAGTGGCCAGTGTTTATTCTTTCAAATATTTTGGATTTATATAATTTCTTTCTTCCAAAAAGTTATCTTCAAGTCTTCAGGTA
GAATAAAATCATAGTAGAAAATAAGTCTTTCTGGCCAGCCATGGTGGCTCACGCTTGTAATCCCAACACTTCGGGAAGCCAAGGTGGGAGGGTT
GCTTGAGGCCAGGAGTACAAGACCAGCCTGGCAACATGGTGAGACCCCATTCTTAACAACAACAACAACAAAATAGCCAGGCGTGGTGGTGTGT
GCCTGTAGTCCCAGCTACTAGGGAGGCTGAGGAAGGAGAGTAGCTTGAGTCCAGGAGTGTGAGGCTGCAGTGAGCCATGATCACACCACTGCAC
TCCAGGCTGGGCAACAAAGTGAGACCCCCAACTCAAAACAAAAACAATAAAGAGGCCGGGCACGGTGGCTCACACCTGTAATCCCAGCACTCTG
GGAGGCCAAGGCTGGAGGATCACTTGAGGTCGGGAGTTCAAGACCAGCCTGGCCAACATGGCGAAACCCCATCTCTACTAAAAACACAAAAATT
AGCTGGGCATGGTGGTGCGGGCCTGTAGTCCCAGCTACTTGGGAGTCTGAGGCACAAGAAGTCCTTGAACTCGGGAGGCAGATGGTTGCAGTAA
GTGAAGGTTGTAGTGAGGCAAGATCACGCCACTACACTCCAGCCTGGGCAACAGAACGAGACTCTGTCTCAAAAAAAGAAAGAAAACAGTCTTT
TGTTGCTGCTGCTGCTGTTGTTGTTGTTACAAAAAAAAAAAAAAATTCCAGCCAATTGGCCATTTATTTTAGAATAGTATTAAAAAACAAAGTTT
CCATATCAATATAAAATTTGTATAGCTTCCTAGAATTTATTAAAATAGGAATACTAATAGATTCAAAAAGGAAAATTTGTATAAATTAGTGAAA
ATTACCACCCTGTCCTTAATGCCCTATTTTAAGATTAGTCATTAAATAAATATTTACTTGCTGGCCCTGAACTCTGTGCTGGGTACTGTGAGGC
ACAAAAGAAGTACAAGATACTGCCTTTGCCTACTAAGAATTTTATTCATACTTTGACAGCTTTCTGTGTTGAACCAGTAAATGTTTTCTTACAC

AGAGCTCTAAAACATGTTTAATCTGGTATAATTTACCACTAGGCACAGGAAAATAATTATAGCTAACATTCCTTTAGTTTGTCTCTGTATATCC
ACACTTAACAACAGCATTTTCACATGATAGACACCCTGACATATGAATGAATGAATGAATGAATATCAGGTGCTAGATTAAAAGCTCTAATTCA
GTATCTAATTTAATCCTCTCAACAATTATCATTTAGCTAGTGTATTATCCACATTCTATCAGTGAAGAAACTGAGCTTCAGATCACTTTAATTA
CCTTGCCCAAAGTCATAATTGAAGTGGCAGAATGGGACTGGAATCCAGGTCTAACTCAAGTGCTATAGTGGTGTGAAGGGAAGACTGGTAAGGG
TTGGTGTTCATGGAGAATTTGTTGCTGGGTGTATACTTCTTGTTTAGATTTCCTGTTTTGAAAACATTCAAACTTGATCAACCAAAAGAAATCA
TTTGCATAAATGTTATTCAGTTCCAGGAGCCAGGTTCCACGCCTGTTAGCATCTGTCCGTCAGTTCTGTAAGCAATCTTACAGTGGTGTGTGTT
CATCCTAAGTAGTACAAAACAGTGCAGAGGAGGAAGGCGGACAGCTTAGGGGAAATCTGACCACCATGCGTGTTGGAAGTATTTCTCTTGTTCT
CCTGCTTTTAGAAAGCCATCTCTGCTTGCTTTTTCAGGGGGTTATTAAGATCCTACTCTCTTGGATACTGTGCTCTATTAGGCAGGAGACACAG
GCAGAAAGAAGCTCACTTGGCATGAATTAGGCAACAGAGAAAACTCTTGCTCAGTGGGAGTAACCTGTCACAACCTGGTTTTCTCTGGCCAGAT
AACCAGTCTTGTCGAGTAGTAATGCCATTACAACATTCCCATTCAGATCCTCATGACCCAGTAATTGTTTTGAGAATGAGTGCAAAGCTATCAG
ACACCAACTACTATAATTAGAAAAGGGAAAAATAGACACTTACCAGAGCTAATGTCTTTAGGCTGGAGCATTTACAGCTTTTTGTTTTTTGTTT
TTTAAGTTATGGAGCCTCTTTCTCAGTTTTGCTTCCTAAAATACAAATTGCATGGTTTAGGGGTTCTTGCATTTCATTTTTGTTACTGCTGTGC
ACTCTCTTTCCTTTTTTCCCCCCTATTTTAATCGGAGTACAAATTGCTGTCAGCACATCGAGTTCATGTGCCAGCCACATTCAGAACAGGGTGT
TCTGTGCTCTTCAAAACAAAATTGCTCTAGGGCAGTAAGAGAACAATAAGTCAGAGCTCCAGTTTAAGTGATGTTTTGCAGCTCGCTTGATGTG
GTTACACTCCGATTGCGCAGCTAAGCTTGGGTAATTTGGTTTGGTTTGACTTTGTGGGGATTTGGAGGACCTCCCTCCCCCTTTAAGTTACATA
GTCTTTAAGTCAAGAAAAAAATGTTGTCTCTTTTTAACTTGTTTATTTCTTTCTCTACCAAAAAAGCCCTAAGTAGAAGCATCCTGTATGTACT
TTTATTCTCTTTGGGCATGTCATAGATGATTTACTTCCCGTAAATCATGCTGGTTGGGATTAGCAACAGACCTCCTGAGCCCTACAGGCTGCAC
TCCCAGTGAGTCACGATGGTTATTATTAAATATTTATTAAGTTAGTATTTGCACTAAAAGATGCCAGGTCAAAAAGCAACCACAGGGCTTCCAC
AGCCAGAGCTGCCATGGTTTTTGTTCTGTTTTGTTTTGGTAGGAATTTTTAAGATAACATTAAAAAGAATAAGTGGAGCTATAGGAGCTAGGCT
CATCTGCATCTGTTACCGCAATCAGGGCCCCTACTGTGGCAATCAGCAGTCTTTCCGTGGCTCCAAGTGGTGTGTGAGTTCTTGTCAGCAGTCT
CGTAGAACTTTTCACATCAGTGTTCCAAGTTTAGAAACCAGTTAACCCAGCAATGCCCTTTGCTACTTGTAGATGTAGAGAATCAATGGGCTGT
ATTCACCATGAGGCTGTGATACCTCCTTTTACTCTGACATTCCGAATGTTGTCAGTATTACAAGGCGATGGTTTTGGTTTTTTATATAAACTGG
GGTGTATATGTCTGGATGTATATCCGTTTAAGATTTTATAGTACTGCAGGGTCCAATTGTGAAGGGTTAGATTTACCAGGAAAAAAAAGATTAG
TCCACATGTAAAGTAGAAAATATTTATAAGAGCTATCACAAATGTTTACTGTCCTATTACAGCATCAGACACTAGTTCTGTCATTTATTGTCTC
TCTGAGAAGACTAGCTACAATGAATGTTTTGCTTTCTTAATTATGCCTTTGTTACAGTTTGACTTTTTTTTGGCATGGTTACTTCATTTATCTT
TCCCAACATGTTTATTAGTAGCCAATCTTTTTCCCTCACTAATGATGGGTTATCACATCTAAAGAGAACTTCTGAAATTACTCATTTAATTTTA
ATATCAAGTACATACATCAAGCTGAAAAACAGCCTAGGAAACTAACGCACAGGCAGGAATCCTTGCAGAGTCTCTGGATTTCCTGTTTTGAAAA
CATTCAAACTTGATCAACCAAAAGCCACAACAAATGTACTGATAATTTCCTCCCCCACTAAATGTACTCTCCTTAAGGGAGGAAGATGATACTT
CCAACAATAAACTTCAGACAAAAAAAATCTGTTAACTAAGTTGTGAGCTACTAGGACAATAAATCTCTATACTTGAGACATTCCACAATACATG
AGAAATTTACTTTGCTCAGCAAATCTTTTTTTTTTTTTTATGAAAAGTGTTATTAGTCTAAATTTCTTGGGCAGAGTTTTAAATATTTAGAAATG
CAAACTTTTTAGAACTCTTAACCTCCTTAGAAATATCAATTTTTACTCCAGTAAAAATATCTTTTTTTTTTTGAGACGGTCTCACTCTGTCACC
CAGGCTAGATTACAGTGCCGCAATAACAACTCACTGCAGCCTGGAACTCCTAGGTTCAAGCAATCCTCCCACCTCAGCCTCTCGAGTAGCTGGG
ACTTATAGGTGTGCGTCACCACCCTCAGCGAATTCAGTAAAAATATCTTAAGCCTCAGACTCCCTGTAGAACCTCTCTAGTATGCATGTACAGT
CATATGCTGCATAACATTTTGTTTAACAGCAGATTGCACATAGGACAGTGGTCCCGTGAGATTATAATTCCATATCTTTACCTTCTCAATGTTT
AGATACACAAGTACTTACCATTGTGTTACAGTTGCCTACAATATTCAGTACAATAACATGCTATACAGATTTATAGCCTAGGAGCAATATGCTA
TACCACTTAGCCGAGGTTATAGTAGGCTGTTCCATCTAGATTTGTGTAAGAACATTCTAAGATGTTCCCACAGTGATGAGAATACCTGATGACA
CATCTCTCAGAATGTATCCCCATCCTTAAGTGAAGCATGACTGTATTTGAAAAAGTTTAAATTTGAATTTATTTTTTAAATGTTTTCCAATTCA
GAATGAACTTTCAATTTGCTACAAGTTAATTTTATCTAGAGCATTCTAAAAGTAAGTCTAACAGAAGGAATTATCAGCATTTATGAGTGTGGGA
CATAAACTAAAATGCCATATGCGAGCTCTACCAAGCCACTCCAACTCTAGCCCTTGTTTGGAGGAGCTGACTCAAGAGTTAGGCCCTTTCTAGT
TTGGCCCAAGTTTCTTAGACCCCATTCTGTGTCTGCAAGGGGAACACATCAAGATGGTATTAATACTGGTGAGTTAAAAAAGAGTAGTGAGTAC
TCACTTCGGCAGCACATATACTAAAATTGGAACAATACAGAGAAGATTTAGCAAATCGAAAAAAGAGAAGAAAAGGGTAGAACGCTTTAGAGCA
TAAATGTCCAGGGGACATTTCGGCCCCTAGTGTCTACACCATTTCTGTTCATTCTTCAGTTTTTCTCATTTCTCAGGCCTGGGCTAGGGGTAAT
TCAATTAAATTATTAACTGCAGGAATTAGATTTGAAGCTGGTTTCTGGACTATACTGATATTGAGAGTGATATTACCAGGTCATAGAATCATAG
AATTTTAGAGCTTCATTGAGATCATGTAGTTCAAAAGTAGAATAAGTTAGATTTGAATTTTTATTTGGAAGGTAATAGTTGTTTTATTGGGCAT
GGAATGAGTATAACAGAACGAGTGATTTTTAGTCTCTCTACAAGTTGTTGATCTAAAGTAGATCAGCCAGTGTTAGAAAAGAAGCATTTTAGGA
AATCTCTAGATTTGAATATAGGCTATTATGTTACAGAAGTAGGAATAAAGGATTTTCTTTCTTTTTTATTTTTATTTATTTATTTTTTTATTTA
TTTTGAGATGGAGTCTCCCTCTGTTGCCCAGGCTGGAGGCTGGAGTGCAGTAGCGCAATCTCAGTTCACTGCAACCTCCGCCTCCCAGGCTCAA
GTGATTCTTGTGCCTCAGCCCAAGTAGCTGGGATTACAGGCACGTGCCACCACACCTGGCTATTTTTTGTATTTTTAGTAAAGATGGGGTTTTG
CCATGTTGGCCAGGCTAGTCTCAAACTCCTGACCTCAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGTGGGATTACAGGCGTGAGCACCGCGC
CCAGTCAGGATTTTCTTATGAAATCCAAATTATCATATTGCTTGGTGACTGTTATGCTGTCATACCAGCCATCCATTTTTCTTATTACATCAAA
AACTTAAAATAGAATACCCTTAATATTAAAAGTAGTTGTAAAGTTTCAGAGAATTGTTTTTCCTAGAAATAAAGAGTCTAGGCCAGACCTGGTG
GCGCATACCTGTAATCCCAGCGCTTTGGGAGGCTGAGGCGGGTGGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGGCAACATGGTGAAAC
CCTGTCTCTACTAAAAATAACAAAATTAGCTGGGTGTGGTGGCACACACCTGTAATCCCAGCTACTTCGGAGGCTGAGACAGGAGAATTGTTTG
AACCCAGGAAGTGGAGGCTGCAGTGAGCAGATATCACGCCACTGCACTCCAGCCTGGGTGAGACAGAGCAAGACTGCGTCTCAAAAAAGTCTAA
CTCATCAAGAAAAAATAGATATCTGTATGCATTTTTTCTATTTTGTCTTAAAATATGAGAAAAAGCCTCTTATTTTAATATGAAATTACTCTGG
GAAAGAGCTTGGTAAATTGGGGTGGAACGGGGAATTAGGCCTCCCAAAATTGACCTCCTAATATTTCAGGGGAGGTTATTAAGTAATTTGATTT
GTGAAGTTATAGTAGACTATTGATTCTTTCACACTTTACATTTATTATTTCCAGTAAGGGATATAGCTAAGATAGTTATTGATGTTGTTGTCTT
TGGATTTACCATTTTTATTCAGATATATTTGTGAATGAGATTAGGACTCTTAAAGAAGAAGGAGCATCTGTATTCATTTAATCTTTGTATATCA
TTGGAGAAATAGCCATTTAGTTGGCTTTTTGGCCCAAGCATCTGAAGCCAAGATGCAGTTACAGATGTTTATATATTTGATATTAAATTTGTGG
CATTTGATAACTTTATTAAATAATTCAGCATCTCTTGACTTTGTATTATAGGTGAGGAAACTTCTGTCACATAGTAGGCTTAGAATAAACCTGT
GTTTCTGGTTTGTTACCTACTAAACTGTCTTATTGATACAAATATCAGTAATTACAAGTTTAATTTAGAAATATGGTTGCTCCTAAACTTTCAG
ACTGGGTAGACTAAGCTTCACCAAGACACACTGTGTGTCTCTTGATGAAATGAGAAAGGGAAATGGTATTTGCTACATTGTCGACCACTCA
TTTATCACTTCACTGAATTAGCCAGTCCTAAGAAGCAGCTCTGTTGACTCTCCTGTCTCCTTGCCCTCAGTCCACCTGGAAGGCCGCTGTGGTG
GAAGGATGTTTGACTGCAGAGATGTGGCATTCACTGTGGGCGAAGGAGAAGACCACGACATTCCAATTGGAATTGACAAAGCTCTGGAGAAAAT
GCAGCGGGAAGAACAATGTATTTTATATCTTGGACCAAGGTAAGCAGCATACCAGTTTGGAACACAGTGAAGTCACCTAAAGGACAGGGATATG
CTTGCTTTTTCATTCAGTGTTTTGGCATTTTCAGTGAAGTTAATCCAACAACGGAAACAATTAAATCAGGCTGCAGTTAGTCATCACGACCACTCA
AATGGGCCTTACAATATCATAGAGGTTTGTGAGCATGTTTACTTGATTGATATATGTTCAGAACAGGTCTTACAGCCACTTTTTGCTTTTGTGA
TGATTTGTTTTGCCTGCAGTATTGCCAAGACAGGCAGCTATGGACCCCTCTCATATGTGGTTCTCTTACCCCCTCTTCCCTTTTCTCTAAGTTA
GGCAGGAGGCAGGAAAACATGGGGGTTGGGAGTCAAAGAAGCATTTGGATGATTTACTACCACTTGAACTTGTGCCACTTGTTCTTATACAGAG
TCCCTGAAAAAAAAAGCACATTCTTCCTGGATCTAAAGGCAACAGAGATGACTCATTTTTTGTCTAAGTTTTTCCCATCATAAGGATATCCATT
AGCACTTTCAAGCTTAGAACCATCAGACACTGACAGTCTCTCTTGTGAAAACATGTTTAGTAGTATTTTTAGATCTAAAATTATACCATGAATC
CAACTCTTCTGTCTTGAGAAACAGACCCCTGAGAGAACCCGGGGTGTTTTGATTTTGTCTGCATGAGAGTGCATCTGCTTATCTAGTGTATCCT
CCCTCCGGCTCCATGGATTTCAGACAGTGGGATTCTGAGTTACTGAGAATCTTGATGACCTGCACTTGCCAGTAGGTGATGTTAAGCCTTTTGT

GGTGTCATTTTATAGACTCTGTAGTAATCCAATGGCAGTTTACCTTTGCCCCAGCACTTGATCCATAATCATATATATATATATTTTGAGATGG
AGTCTTGCTCTGCCACCCAGGCTAGAGTGCAGTGGCATGATCTTGGCTCACTGCAACCTCTACCTCTGGGTTCAAGCAATTTTCCTGCCTCAGC
CTCCCGAGTAGCTGGCATTACAGGCACCCGCCACCATGCCTGTCTAATTTTTGTATTTCTAGTAGAGACGAGGTTTCACCATTTTGGCCAGGCT
GGTCTCAAACGCCTGACTTCAAGTGATCCTCCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCACGCCCAGCCCATAATCA
TATTTTTGAGGTGATCTAGCCATGCAACTACCACTTGAAAATCCTTCCAAAGTGCTCTACCTTGAACTCTTCATAGCCGTCACTGAGGCACCCT
TTGTATAATGGCTTCTTTTTCTCTACCTGGTTCCTCTTTCCACTAACTATAGCCCCCACTTCAATGTGTCTTATTTATATTAATATTTACTCTA
TATTTGTAGTTTATTCTTAGGTGAAACTAATTCTGTTTCTAGGAGATACTCCTTAAAATTCAGATAGAGCATAGAAAAAGCTATCTCTTCCATA
TCCAAATAATCTCTAATTACTTTTTTTTTTTTTGGTAACAGGATCTCACTCTGTCGCCCAGGCTAGAGTGCAGTGGCACAGTCACGCTCACTGTA
GCCTCAACCTCCAGGGCTCAGGTGATCCTCCCACTTCAGTCTCTAGAGTAGCTGGGACTACAGGTGTGTGCCACCACACCCGGCTACTTTTTGT
ATTTTTTGTGGAGACAGGGTTTTGCCATGTTGCCCAGGCTGGTCTCCAACTCCTGGACTCAAGTGATCCGCCTGTCTCACCCTCCCAAAGTGCT
GGGATTGATTACAGGCATGAGCCACTGCGCCAGGCCATCTCTGATTACTTTTAATCAGCATTTCAAAATTACAGTAGTTCTAAACTCAGAGAGG
TGGATTTATGTGTAATGTATATTTTCAAAATTTAAGCTCCCTTAGGATAAATTCTGTATGTATTATGACAACATAATGTTATAGGAACCAGTTT
ATATACATTACATTTTAGCCTGGCTGACAAGGCAATTGTGGGGACAGATGTCTCAAGTTTAGTGACAAAGAAAAATAGAAATTGTCTTTAAATT
TTTTAACGCAAACAGTTCTTTTCAGATTTAAACTGTTTGTTGTATCATTAGTGGTTACACTTTGCTCTGTGCGCTTGGCCAAGGCACTTAACCC
TCCTAAGCTTCAGTTTCCCCTCTGTAAATGGGGATGACAGTATCCATCTCATAAAGTTATGGAGAGCTAAATAAAATCCTGCACATATAGGGCA
CACATGAGCCCGCAGTGTGTGAGCTTTTGTTGCTATTGTGACGGCTCACCTTCTCTTCCATTTTACCCTCGGACCACAAGAAAAAGGAAATCCT
GTTTAACATGAGATCAATCTTTCAGATCTTTTCAGGCATAAAAGTTGTCAATAGGTTTTCATAAAATTTCTAGGTATAAAAGTTTATGAGTTTTA
TGGAAATAATTTAGCATATTTAGAAAGGAACATTATTTTTGTTCAAGGTGTTGGTATGTTGGAGAATTATGTGAAGTGCATTCTCTGTAATATG
AGACTGCTGCATATGCATTGCGTAGTACTACATATATATGTAGAAAACCCCTACGTGCTATATATGTGTGTGCGTATGCATACTGTGTGTATAG
AAAACCCCCTACATGCTATATATGTGTGTGTATGCATGCTGTGTGTGTGTATAGAAAACCCCTACATGCTAAGCATGTTTTCAGTGCAGGCA
GTGAATTTACTTGTTTTATTCAGCTTCCCACTTTCATAAAACATTGCATCTAAATGTTGCTATAAGTATGGCTGTTGCAGAAAATATCTGCAAA
TAGCTCTTAGTGTCATCTGTATTTCATTCTCCAGAAAATTTCCAAGGCAGACCTTCTCTGTGACTCTGATACTCTGATAGACTCTCGGGAAGAA
TGTTTTCTTTCTGTCCCTCCCCCACCCCCCGAGACAGGGTCTCACTTTCACCTAGGCTGGAGTAGGGTGGCATAATCTGTAGCCTCGAACTCCT
GGGCTCAAGGGATCCTCCCACCTCAAGCTCCTGGGTAGCTGGGACTACAGGTGTGCTCCATCCTGCCTGGCTGATTTTTTTCATTTTGTAGAAA
CAGGGTCTTACTATGTTGTCCAGGCTGGTCTCAAACTCTTGGGCTCAAGCAGTCCTCCAGCCTCAGCCTCCCAAAGTGCTTGGGATTACAGGTG
TGAGCCACCACACCTGGCCTAGAATGTCTTCATAATAAGAAAGTCATAAAACATTTCCAGACAATCCATTTTTCTTTCTCCTCATTGGGACAAT
ATCTTCCCTTTGTATTGTTTTAAATACTGAGACTAATAAATCTTTTTTGTTTTAGGTCAAGTGTATATAGTGTTAACTTTTTTTTCCGTCCTTT
CCTTATGTTTCTGTCACGCATGAACCCCAAACAAAAACACAGGCTATTGGTCAGGCAAGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGG
CCGAGGCGGGAGGATCACTTGAGGTCAGGAGTTCGCGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATATAAAAATTAGCTG
GGCGTGGTGGTGCATGCCTGTAATTCCGGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCTGAG
ATCATGCCACTGCACGATGCCTGGGGTGACAGAGTGAAACTCTTGTCTCAAAAATAAAAATAAAAAACAGACTACCAAGAGCCATAATGTCTA
GTTATGAGGCAGTATGAGTCCAAAAAACCTGATTTTCTGGGGACACACAGGGTCTGAATTTAAACCTGGCTCTACCACTGCCTGTGTGTGACTT
CTCAGGAAGCACTCTGTGTCTTTATCTGCAAAAAGGGAGCAATTGGTAAGAGCTTGTAGTCCAAGTGCTTCTTATATGCACATTAAGGCTTAAT
GGTCATTCATAGTCATTATTTGTATCTCTATTCTCTGGAGGAAACTCTTAATTCAAGGGCATTAACGCTGAATTCCTTCTGTTACCATAGTCTA
GATTATCTTTTGGTTAGGTCTTGGGATTCCTCTTGTGGTGTTTTGTTTTTCAGTCAGATGAGTTGGGTGCCCTGGTTCCTTCTTCACCCAGGCT
GACAACTTTCTGTGTAATATGGAAGTCAGGGTAGGTGCTGCCAGAATATCTTGGCGTGGGCTTCCACCTCTGCAGGATCATGTGCGCCACACGT
ATCTTGACTGAATCGCTTCATTTTAACCTGGGAGAGATTGTAGAAATAATATTTTTCTTTAGTCTTCTTTAATCCCATCAATAATAGGACACTT
GGTGCCTCCCTTGATACAGCCCCACATTCCCCACAGGCAGATTTTCTCATCCTCAGCACTGTTGACACTTTGGGCTTGCTAATCCTTGGTCATA
GGGGGCTGTCACGTGCATTGTAGAATATCCAGCAGTATTCCTGGCCTCTTCCCACCAGATACCAGTAGCACCCCCATAGTTGTGACAACCCATA
ATATTTCTAGACATTGCCAAAGGTTTCCTGGAGGGAAGAGGAGTTAAAATCAACCTGGTTGAGATCTGCTGGTCTAAGGCAAATGCCAGATCAT
TTGTTGCATTTGCAACTGCTTAGCACAGGACTCCAAATATAACATGCTCTCAGAAAATATGTGCTTAGCAAGGACTCACCTACCTACCTGGGTA
GTTAAGGAATTTTTTTAAAATTTATTAGATGGCAGAAACAAGGTAGTAGGTATATACATCTAAGAGCTCAAAGTAGAAAATTAGGCATCACTTC
TTAAAATTGGTCACTGGTAATTATGTCTTTGTGGAAGATACCCTTTGCCCCGCTCCTCATTCCTACCAGCTCTCGTATCTCTATTCCTCTTTTT
GGCTCCAGCTTCCATTTTCTGTGTAACAGTGGAGGTGAGTGAGTAAGCATTTTTATTCCTGGAAAATCCAGGCAAAGGGTAAAGAAAGTGGTGC
AAGCAACAAAATTTGAGTGTTCCCACTCTAGTCCCTTTGCCCCAGAGAAAACTGGAGGTATTAGATTAAGTCGGTTTTGACATCTTTCAACCTG
TACCTTGAAAGCTTGAGTTTACTAAGTTTTTTGTAATACCATTTCATATATTAAAGAACAGCTTTGCTTGCAACAAATGGGAACATAATATATT
TCAGTGAACACTTGACTAATATGCTGGGCCTTGTTCTAAACAAACACTGGGAAACAGGTGAACCAGACAGAGCTCTGCTACAGCTCCCATTCTA
GTAAATATCTGCTTCCCGAATACATTTAATTTGCTGGAGATCTTACATGATCCCAAGAAAACAAATGTATATGTCCTCAGTTATTTTTTTCAGT
AAGTTTTGGCTAAAAGGTATAGAATCCTACACTCTGATAGCTATAAGCCATAAGAATATTTCTCTAGAGGAGGTGTCAGAACTTGCTAGGGCAG
CTATTTTTGAGTATATCATTATGTTATTTGTGTTTCTTCATGTGCTTTTAAAAAAACTTAAATAGTGTGAAAACTTTTCTCTCCTGATGTGTGA
GCCTTTCCCCTTCACTTATGTGACTGGAAGTGGTACTACTAGAAGTGACAGCACTTTAAAGTTAAAAGCTTATTAAAACATACCTCCCGTGAGT
ACCACTCTAACAATTACAGTGGCTGTGTCTTCTCTGTCCTTTTTGCTGATAAAACTTAGGGGAAAATTCCTGGCAGCTAAATCATGGCCATTTT
ATTAAAAAAAAAAAACTAGATATGAAATCAAGTAGAGAAAAAGACAGTGACATTTAAAATCCCATGAATCAAGCTGCCCCAAGGAGTACAGGTG
TTGCATTACATGTGAATGTGAAGGAGAAAAGAAAACTAAACCTAGCCTGGTTTCTAAGAAAACTGTAGCAGTGAAGATACTTCACACTGTATCT
TCTGGTCAACATCTGGTTTGTCTTCAGGGTCTCTGACACATGTAGCTTGCAAATGATAGCTCTGTTGATGCCTCAAAATACTGAAGGAAGTGCC
TGGAAATACACCAATCCTTTTAAAGTTTTATTTTTTACTCTCCATTTCAGATATGGTTTTGGAGAGGCAGGGAAGCCTAAATTTGGCATTGAAC
CTAATGCTGAGCTTATATATGAAGTTACACTTAAGAGCTTCGAAAAGGTGAGAAAATACCAACTTCCTTAAAATTATGGTAGGTTTCTTCTCCA
TCCACTTCCTATAAATCAGTATCTTATCTTAGTAGGTGGTATAGATAGATGGTGTTTATTCATTATCAAGTTTGTCTCTTGCCTCCAACACTGC
TGCTGAAGAATAGAACAACTGACATAGCACAGCTGATATACAACGAAGGAGCTCCGTGTTCTTATTTTGTTCCTATGTGTCAGCTTTTTTTTT
TTTTTTAACTTTTTTGGGTAGAATCCAAGACTTGTTCCCTTATTTGTTCCTAGACTTGTTCTTTTTGTACTTTTTTTTTTCCTGGGTTGAGGACA
GAAAGGTTCACGTTCTGCCAAGTGGCTCCTTGGGGGAGTGGGGTGCAGCTTTTCAGAGCTGAACGGATTGTACCCTTCACAGGAGTCACGAAGA
GGCCTGCACTGTGGCTCCAAGTTGTTATCCCAACTGCAAGTCCTCGAGGGCCACTAGGCTCTGTGACCAGAGATACAAGAAAGAAAGCAGCTAA
CCCGAAGCCATTTTTTTTTTATACTTCTCCAAGTAGAGAAGAGAGAGAATTTGTCAGTTGCCTTGGATTCCAGAAACAGCATGCCTCCTTGAAC
ATATTTCCATCTCAGTTTCACTCTGGAGGCTCCCAGCAGCAGCCGACCTGGACACACACAGCATATACCTGAGCTAGGTATGCTGTTGTCTTCG
GCCACGTGCCCCTGGCATTTCCAAAGCCCCACCCTTTGTGGAGCTCAAGGACTGCATTTGTGTTCCTTTTTTATTCCTGCACAGTGCTACCTCC
ACGTTCTGTACATTCAACTTTTTTTTTTTTTGAGATAGGGTCTCACTCTTGTCACCCAGGCTGGAATACAGTGAGCGCGATCATAGGTCACTCCA
GCCTCAACTTCCTGGGCTCAAGCAGTCCTCTCACCTCAGCCTTCCAAGTAGCTGGGACTACAGGCACACGCTACCACACCCAGCTAATTTTGTT
TATTTTTTGTAGACATGGGGTCTCACTGTGTTGCCCCAGCTGGTCTCAAACTCCTGGGCTTGAGCCATCCTCCTGCCTTGGCCTCCCAAAGTGC
TGGGATTGTAGGGGTGAGCCACTGTGCCTGACCACATTAAGCACATTAATATAAATGGAAACATGACCATTTATATTTTGTAGATTCAGAAAA
GAAATCATTGTCCTGTGGGCCTGTACCTTTGGGCTAAGAAAGTGAGGGGAGGCCTGCTTTGGGATTCACCCCCAGTAGTGACATTCCTAATCAT
ACCTCTTCTACTTCATGTTCCCCCAAACAAACATATGTCTGGTTATGACCACTGATTGTTGTCATGTAACCTCTTCTGAAGGCCTGCTAGCTCA
GCACTGATCCCCCAATGCTGTTGTCATAGCATATGGTGTTTTTTTATTGTTAAAGAGAGAGAAGATAATCTTTAGCATGTGGTTATTTAGACCT
ATGGCTTTACTATTTCCATTTTTGTAAAGCAGCCTCTTGCCCCTTCCTTCTCGTGGCCCAGTGGACATTGCTTATTTAGGAGCACTCTCCCAGT

GGTGTGCCACAGCAAGCCTGTGCTCTGTCATCACTCCAAGAGTATATTCATGCACTGCTGCTTGGTATATTTGAAATCACATGAAGGTATATGA
TGTTGTTTGGGGCAATGTGATTTAATCCTCTGCCTTGTTAAGAATAGACTAGGCCAGGCTGGGCGCTGTGGCTCACGCCTGTAATCCTAGCACT
TTGGGATGCCGAGGTAGGTGGATCACCTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAAACCCATCTATGCTAAAAATAGAAAA
ATTAGCTGGACGTGGTGGCAGGTGCCTGTAATCTCAGCTATTCGGGAAGCTGAGACAGGTGAATCGCTTGAACCCAGGAGGTGGAGGTTGCCGT
GAGCCGAGATCATGCCACTGCACTCCAGCCTGAGAGACAGAGCAAGACTCCGTCTCAGAGGAAAAAAAAAAAAAATATATATATATATATAAA
AATATATATATATATAAAAATATATATAAATATATACACACACACATACACACATACTTATATTCCAGGCATGGTGGCTCACACCTAT
AAATCCCAGCACTTTGGGAGGCCAAGGCAGGATTACTTGAGCCGAGGAGTTCAAAACCAGCTTGGGCAACATAGTGAGACCCCCCTCTCTGCAA
AAAAATTTAAAATTTTCCTGGGTGTGGTAGCACATTCCTATATTTCCAGCTACTCAGGAGGCCAAGATAGGAGGATGGCTTGAGCCCAAGAGTT
TGAGACCAGCCTGAGCAACATAGTGAGACCCCGTCTCTACCAAAAAAAAAAAAAAAAAAATTAGCTGGACATGGTGGCACATGCCTGTGGTCCCA
ACTACTCGGGAGGCTGAGGCAGGAGGATTGCTTGAGCCTGGGAAATCGAGGCTACAGTGAGCCGCGATCGTGCCACTGCACTCCAGCCTGGACG
ACAGAGCAAGATCCTGTCTCAAAAAAAGAAAAAATAAAAGAGTATCCTGTCTCAAAAAAAGAAAAGACAACAGAGCAAGATCCTGTCTTAGAAA
AAGAAAAAATAAAAAAAAATTCCATAAAGACTGAAGCCAACCTAAGAAATACAAAGAGACTTATTAACTAGGTGTTCTTTGTTTTTGTTTTTTG
GGTGCTAAAACCTGGAATTGAACCATAACTAGGTTTTTGAGTAATTTGAGCTACATTATTAGGAAGCAGAATTACATGAGTTGCCAGAAAGATG
AGTAACCCTTTTATTATTCACTTTTAAAAAGTAGAGGATAGTCACTGGGCGCGGTAGCTCACGCCTGTAATCCCAGCTGAGGTGGGTGGATCAC
CTGAGGTTGGGAGTTTGAGACCAGCCTGACCAATATGGAGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCGGGCATGGTGGTGCATGC
CTGTAATCCCAGCTACTCCGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGCAGAGGTTGTGGTGAGCCAAGATCACACCATTGCACTC
CAGCCTGGACAACAAGAGCGAAACTCCGTCTCAAAAAAAAAAATAATAATAATAATAATAATAAAAGTAGAGGATAGCAGGGGCTGTGACACCAG
GAACACACACTCGTTATCTTTTGAATAGAGAGAATTTTAGTTACCCATTTAAACTTCATAATTTATATGCAGTAAATAGCACTGACCACACCCA
CTGTCACTTTTCCTAAAGGCTCCCAGATTGTTCTCTTGACTCTGGTCCTTCTAAATCCAGCTTGTAAATGGCAAGTGCAGTTATTTCTGGATTT
GTATCTGTAATGGTGGAAGTAATAATACACACAATACAAGCTAGCAGATGATAATGAAGTCATTTATTTATGGCTCTAAAGTGATATTTTTGCA
TGAGCTTTACTCCCAATTATGTTTTGCTTGAAGTCCCCCCCAGTATACATCTGCAAGTTGATACAATTTAGCAGTATTATTAGTATATCTGGTT
GTTTTAGAGTGGCAAGACAACCTGACCCAGAATTTTGAAAATTCTGTATGAATATACAAACTACAACTTGACTACAGTCATGTTCCCATTTTAG
AGTTGAAAAACAGGCTTGAGAGAAACAGCCTAGTGGAGAGGTTTGCAGAGGGAGATAAGGCATGGCCTTAACTTTGTGTGGGTTCACCTTGTAT
TTCTAAAGATTCACTTTGTAGCAGTGCTTACCAGAGTACGTTCCTTACTGTGTTTTTGCGGCTCCTCTCTCTTGAGCAACATTGTTCAAGCTAC
AGCTTGGTCATGATGGAAAGTGAGTTCTTCAAACAGTATGAAGAAGCACTGGCCTAGCAGTAAATTGGCACTGACACACAATTTCAACAGCCAG
AGTGTTTTCAGTTTGGAGTATCTTCTAGAATTAGCTGCTCTTTGTTCCAATAGGCCTCAACTGATGCTTTTCTCTCTGTTCATCTAACCATTGT
CACAAATTTACACACAGGCCAAAGAATCCTGGGAGATGGATACCAAAGAAAAATTGGAGCAGGCTGCCATTGTCAAAGAGAAGGGAACCGTATA
CTTCAAGGTGTGTGAGTCCCTATGCAATCCTTTCCATCTCAAAGAATTTATTCAAGTGTTGGTGAATTGTGCTGATATTCCCTACTCTGAATTT
TGTCAACACTGCTTGGTAAGAATAAGCTGCAATTTTTATAAATCTGTCATTTTCAATATGAAAAATGGTGAGAAAACAATCATGTGGAAAAAAA
AAAAAGTACAGATTCCTCTTTTACACATTCTGCTCTAGATTGTAACCTTCCATACAGGCAGACCAGGTCTGGCATCCCCACCCACCACAGTATC
ACTCACTCCTAAAGCATCTTGCTTGGTACATAGTTGGCACTCAACAAGTGTTTTTGGAATGAAAAAAGAATGAATAGAATAATTGTTAGCAAAG
AATGGAATTCATAAGGGTAAGTTTCACATCATTTTTCTTTCTTCCTTTTTTTTTTTTTGTATGAGAGACAGGGTCTCCCTTTCTTTCCCAGGCT
GGTCTCAAACTTCTAGCCTCAAGCAATCCTCCCACCTCAGCTTCCCAAAGTGCTGAGATTACAGGCGTGAGCCACTGCACCGGGCCCATCTTCC
TTTAGACTGTCTTGATGAAGTCACTAGAGCATATGATAAAAGGAGAGAGGACATGCACAAATTTCAAAACAAACTGACAGGAGAGTATTGATTG
CTTCTAATGGCCAAGATGATTCCTGCACACTTGCTTTTATGAGGAATCTCCGGATATTCCTGAATGATATTCATCATAAATTGCTTCTCAGAAA
CCCTTCTTGGAGCAACTAGGAGTGTGATATTTTCTCACTTAGATCTTAAACCTCTAGATGTAAGAAAAAAAGAAACCGCCCTTCATTCTGTTTT
AATCAGTGTTCTACCCATTGCTTCCCCACCCCAAATATATGCCTTCTCCATGTCAAGCAGAAAGGGCTTAGTGATGAGAATTAGAGGGAGAATG
GGAGTTCTGTCAAGGTTTCTTTCGTTTTCTGCCACTGCAATACAGAAATTAGATGTTTTTCAGCAGTATAAAGCAGTGAGGCATAAGTGTACTT
TAACAAGTCTTTATGGGGCATCTGCTATAAGACATGCTATTATTAAGTTACAACCTTGTCAGGAGGGAGGAGTGGCAATGTTAATCCAAATGAA
ACAACTAGAGAATTATGTAAGAATATATAATCAACCCAAAATTAACACAGCCAGAGGGCACCATGTGTTTTCAGAATTTGAGCTGAGACAATAT
TGGGTCATGAAATCAGTTTTGTGGAAGTGTATTGCAATATGTTATAAGGATCAGTTTTGTTGCATAAAACTTTGCTTGTGTATGAGTAAGTACT
GGATTGCATATTTCTTACTGTGGGTGGTATTCAAACAAATTTTAAATCATGGGTTTAGATAAGTATAAATATATAAATATGTTATTTATCATTA
TTTACTATGTATACTAAACTCTTATGGATCACCAGAAAGCATGGGGGTATGATAGAATAAGCTCAGAATTGGGAAAAATGGGCTTTATTGCTCT
TCAAATGATTTAGTCATTTAAGGTCCAAAGAGGTTATATTTTCAAGTGAAAAATAGGGGAGTTAGATGTTCCCCAAGTTTCTTTCCAGCCTGAA
TTTCTGTGAGTTTCTAAACTCTCAAGAACAAGTGTTATTTTTTTGGTTTTGTTTTGTTTTTAATTCTAATTGAGGTATATTGGATACTTCTAAA
CTATTCAAGTAAGATTCCAAGTGGGTTATTTGTATATCCAAATACATAATACACTAGAGGGAAAAATGTTTCTACAAAATTTCTTAAGATCGTG
AGTCCTTAACAGTATTTTCTATATTTCCGAAGTCCATAAAAATCCTTAACTATATTTTATATATTTCCTCAATACTTCCAAATAGAATATTAAC
AGTTTGGGAAGATTTGAGGCTTTTGGCCTTTGACTAGAATTATATCGATTCAGTGTAGTAAAACAGCTCAGCTATTCAGAGGCTCTAATCGGTG
CTATGATACAGAATTTTGGAGAACATTATTGGTAATGAAATAATGTTATGAAGCCATCTGTCATATAGCTGTGTTCTGAATATATACAGAGAGA
TGGCCAGAATTAGTGATCAGTAGCAGAAAGCAATGAGTGTCTGTACAGTTACTTAACTTTGTTGCTTATCAGCATCACAACTGCAAGAGTGATA
CTATTATGAACCTACTTAAAATTACCAATCTTTGGATAAAATCTGGATCAGCAGTCACACACATGGAAAAAATTATTTTTAACATGGAATTTGA
TAGGCAAAATTTTTCAAAACATTAGTCCATTGGGGAAAAATTAATGAAAGGTTCAAAACCACTGACCTGAGACTTTTCTCCCAGAATGTCTCTG
AACATTTTGTACCACTAAAAACTTCCCTGGAGGCACCTTTATAATTATAGGTAAAAGATCCCAGCAGTAGTCCTAGCGTTAGCTGTAAAACTTC
AAAATGGTTAGTAGATAGTTTCCTGTACATATTCCCTTCCCAACTCAGGGCAGGTTTCAATCTGCCATACTGCCCTCCCGGGCCTTGTCTTTCC
AGGGTGTCTGACTTGGCATGTTATGCATTTGCACAGAGTCCAGATGTGTAGGTGAGAGCAGAGATGGGCTGAACTAAAGATCTGTATTTCATGC
CATCTGCATATTGGAATTCTGTTTCCATTGATCTGTTGGTTTGGTTTATACCTAAATGGGTAAAGCCTCTCTCCTGAGTAGGATTGAATTGTAC
TCAGCTTTTAAGTGGGAATGATTTTGCCATTGAAGATGTAAAGTCCTCATTTCAACCTCTGAATACTAAAGAGAAGAAAAATAGAGAACTCTAT
TTGGCTCTGAAAATAATTATTAAGTACAGGTAACAGCATAATATTAAGCCAGGCATTGTGCAAGCGAGTTAAACAGACACGATTTTTGCCCTCA
TAGCTGACAGTGTTCTGCAGGACAGGAGCATTAACTCACACCTGGTCAGTGTTTTTCTTTTTTCTGACTTGGCAGCAGAGTGGCAAGAAGCTA
AGAACACTGAAGTGATGTGGGATTCTTGCGCCCCCTTGTGCTTCTCCTGGGAAGAAAGCATTTCTAAAACAAACTAGTTGAGGAGAATTGTTCA
ACCTCTAAACTCTTCAGATAAATCGGGCTTTGCTATATTTTCACCACCCTTGCTGTTCCAAGATACCAGTAATGTGATTTAGAAACAAGCCGTT
TATGACTCTAGGATTTGATGTTTTAAAAAAAATTCCTAAGAAGAGTCCACCCTGTCTTTCATCTCTTTCCTTTAGTGCAGAATTTTTCAACCTC
AGTACTATCAACATTTGGAGTGGGATAATTCTTGATTGTGTGGGGCTGTCTTGTGCATTGTAGCAGCATTCCTGGCCTCTGCCCA
TTAGATGCCAGTAGCATCCTACCCAGTTATGACAACTAAAAATGCCTCCAGACCTGCCAGGTGTTCCCTGGGGGGCAAAATCACCCCCCAGTTG
AGAACTGCTTTAGTACCTCAGAAGCAGGGAGTACAAGACAGACTTTTCGCTAATTGGAAGTTGAAGTCTAAATAAAGTTACATGATATATATGC
AAGAGCTTTCAAAAAATTAAAATGCCCTATGTGAAGGAACTATTAAGAAGTCTAATACCTGTTTTTTTGTGTTTTGTTTTGTTTTACCATGGCCT
TCTACCATTCTGATTATTCAGAACTTATTGAAATGTTAAGATCTAGGTTTTTGTCCTCCCTGGCTCTTCTTTTCTTTCCCTATACAATATATTA
GGAGATAATCAGAAAAGTTAAGTTAATCAATGCATTAGAGAGGGAGGAGGAGAGAGGATGAAGAAATGAGGCATGACAGGGGAAATGCCTGTCC
TTCCTATCTCATCTCAGTGAAACAACACTTTTCATTTCCACCCACACATTTTTTGCTCCCAATGATAGCAAAAGGTTTTGTTGTTGGTATTGTT
TTTAGAGAGAGAGGGTCTTACTCTGTCACCCAGGCTGGAGTGCAGTGGCACAAGCATAGCTAACTGCAGCTTCGAACTCCTGGACTTAAGAGAT
CCTCCTGCCTCAGCTTCCCAAAGTGCTGGGACTATAGGCGTGAGCCACCACACCACTTTAGAAAAAGTCTTGATTCCATATTTACATTCCTTTG
ATTTCAATATTTACTCAACAAACCTTTATTAAAGACCTCTTGGTGCTAAACCCTGAATATTCCAAAAGGGAGAGGACAATGCTGCCTGTCCTCA
AAGACCAGCAAGAGAAAAGGCAGTGACAGAAAGAAAATGCCGACCTGAAACTGGTGAGGACTTTATTCTTTTTTTTTTGTAGCATCCAAAAAAG

GAGTGGTAGGCCTAAGACTATGACAAAATTTAAGTATTGTCTTAGCTTGGGCTGCCACAGTAAAATACCATACACTGGGTGGCTTCAACAACAG
GAATTTACTTCTGGAGACTGTAAGTCCCAGATCAAGGTGTTAGCAGGATCAGTGTCTGGGGAGGGCCTCTCCTCTGGTTCCTTGTAGCTCCCTT
CTTGCTGTGTTCTCACATGGCCTTTCCACATGCATGTGAGTGGAGAGAGGGCAGAGGGCAGCAAGCACCCGAGTTTCTTCTTATAAAGGCTCTA
ATCCCATCATGAGGCCCCACCCTCATGACCACATCTAACCTAATTCCCTCCCCAAATGCTCCATCTGCAAATATCACATTCGGGGTGAGGGCTT
CAACATAGGAATTTAGGATGGGGGACACAATTCAGTCCATAGCAAATCTAATTTCCTCAAGAATTTCAGCATTTAAAATAAAATGCCCTGGTTT
CGTGTTCTTATGAATGACCTGTATCACACACTTCTGAGGCAGAGAGGGTGACAGACTTTGATTTTAGTGCCAGTCTTCCCTCTCCTAAGTGAGT
GACTTGGGAAGAAGGATGTTCGAGGGATGTAGCCTGGCCCTCATTCACACCCAGGCCCTCCAGCTGGAACAGGTCTGCCCCATCTTCATCACCA
GAAAATCCACACCAGGGCTTCCTTTCTACAGGCAGAGCTCGTTTCTTACATCACCCACTTGAAGTCCTGTATCACAGGCATGTCCTCTTAGACC
TGCTCTATGGTTTTTCTCTTACTCAGACTCCTTGGGTGAGGGTTGGAGTATTTGTGGGGAGAGACAACTCGGCAGTGAGATGTACGCGCTGCTT
GGGCTGTGGTAAATCCTAGTAACATGGTCTTAACACTGTTGGTCAGGCATTGAATTTAATGTCCTAATAGGTCTGGCTGCTCCTCTGCCATCTG
GCAGGATGTATCATCTGTGGTTTTGAGCTTATCACCTCCTCAAAGGAGAATCCCCACTTGTACTCCTGTTTCTATTTGCGTATTTACCAGCGAT
TCCCCAGTGCTTTCATTTACCTTAAAATCACAGTGGACACATTGTCTCAGCCCTGGAGGGGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTTGAG
GAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAGTGGCATGATCTTGGCTCACTGCAACCTCTGCCTCTTAGGTTCAAGCAGTTCTCCTGCCTCA
GCCTCCTAAGTAGCCGGGATTACAGGCATATGCCACCATGCCTGGCTCATTTTTGTATTTTTAGTAGAGACGGCCAGGCTGGTCTCGAACTCCT
GACCTCAGGTGATCCACCTGTCTCGGCCTCCAAAGTGCTGGGATTACAGGTATGAGCCACTGTGCTCAGCCCCCAGCGTTTCTCATATGAGCAT
GTATATATATATATATTATATATATATTATATATGTTTATATTTATATATATTATATATAACTGACAGACCTTTCTGATGTATATTGTTTTATA
GTTGTTATTTATGTTGTATGCTACTATCCAACTATTCATATTCCCATTGCCTATAGATCAGGGGTCAGCAAACTACAGTTTGCTGGCCAAATCT
GGTCCCTGCCTGTTTTTGTAAGTACAGTTTAACTGAAACACAGCTGCACCCATTGATTTACATACTGTCTAGAGCAGCTTTTGCACTACAAATG
ATAAGAATTTAGTAGTTGCAACAGAGACTGGTTCAAATAGGATTGGCTGTGTTTGGAACTAGCACTTGCCAGAATGTAATATTTGCTGTGAAGT
GCTGAAAAGAAAAGTAACTTCCTTTTCATTTTTTTAGTGGCATAGTCTAAAACTGCTCACAATCCTTTTGAAAGACTAAAGAATAGGCCAGGTG
*TGGTGGC*TCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGCGGATCACAAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATAGTGA
AACGCTGTCTCTACTAAAAATACAAAAAAAAATAGCTGGGCTTGGTGGCGGCCACCTGTAGTCCCCAGCTACTCGGGAGGCTGAGGCAGGAGAA
TCGCTGGAACCCGGGAGGCGGAGGTTGCAGTGAGCTGAGATGGCGCCATTGCACTCCAGCCCTGGAGACAGTGCGAGACTGTGTCTCAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAGACTAAAGAATATTAGCACCAAAGAACATAGCCCAGAAGCCTTGCTGTACTACACCTGCTGAAGGGATGGA
TGGAAATGCTGCAGAGCAGCACTAGGCAGTGCTCAGGCACTGCCCCAAACCAGCCCACAGGCCATCGAGGCCTCCAAGGGAGTGGGAAAGGTAC
CTGGAGAGCCATCTCCAGAAGGAAAGAAAGAAACCAGCTGTACCAGGGTTTGCTGGAGGGGTTGCTTCACTTTGAGGATTTGCTTTTCTTTTGT
ACCCCCTCAAGAGCTGAGTACAAGTAATGACGCTTTTTTATCCTAGGGAGGCAAATACATGCAGGCGGTGATTCAGTATGGGAAGATAGTGTCC
TGGTTAGAGATGGAATATGGTTTATCAGAAAAGGAATCGAAAGCTTCTGAATCATTTCTCCTTGCTGCCTTTCTGAACCTGGCCATGTGCTACC
TGAAGCTTAGAGAATACACCAAAGCTGTTGAATGCTGTGACAAGGTAACATCGTGTCTCCTGTGAGATGGACTTTAGATACTCCAGATCTTTTC
TCCATCTCTGTCTTTTGCTTCCTCTCAGCCAAAGGTTGCAGGATTTTTCATTTTGCTTTTTTTTATTTATTTGAATGTTTGGGATTATTTGTTT
CTCAGTATGAATTGGGAAATTCAGCAAGATTTTTATTACAGTCAGACTTTTATGATACCTAGACTGTTTATCATAATGCATTCTGAAGAAAAGT
TTTGATTAAAATTAAATAATTTTTATCCACGACCTTCCTTATAACTGTAGTATTTATATCAGAGTAGACGTATAACTCCTCAGGTTCAGTTTAA
TAAGAGAAGATTTAACTTAAGCTTTTCTGGACTTTAACAGACTGCAACTGTTCATATAAAGCATATATATAGGTCAATTTTTATTATAATCATT
TATTCACTGATATGCATAAATAATATGAAAGGTCCACAGAGCATCAGCAGCCTTTTTATTTTTACATTTGTCTTATTAATACTATCTTTGGTCT
TTTGAGTGCTTACACACAGTACTCTATAACAGTGGTTTATCATCTGTATCGTTATGTATCGTTCTGATATATTTATACACCAGCCGATACTATT
TTAGGTATCTGGTCTCAGAGTGAACAGTATATATTATACTGTGGGTAAAAGTAAAAACTAATCATTGGATGTATCTTAAAGGTAGACATAAAAG
GATAAGAAAAGCAAGGCAACTATTTTGTACATTCTTTGTGAGATTATTTTTGAATTTTGTGGATCAGTGTTTCCTATCGCATCCTCTCTCCCAA
GACCAGTTATTAATTTTATATGTATTTTTTCGTTTTTTTCATACAGAGCGGAGAGAGAGAGAGAGAGTGTGTGCGCGCGCGCGTGTGTGTGT
TTTGTTTGTTTTAGAGACAAGTTGTTGCTATTTTGCCCAGGCTGGGGTGCGGTGGCTATTAATACACATGAACATAATGTACTACAGCCTCAAA
CTCTGGGGCCCAAGCTATCCTCCCACCTCAGCCTCCTGAGTAGCTGGGACTACAAGTGCATGCCACCACACACCCTGCTAATTTTTAAATTTAC
TTTTGTAGAGATGGGGGTCTTCCAAAGAGCTGGGATTAAAGTTGTGAGGTACCACACCCAGCACAGCCTTGACTACATTATTTTTCTGTCTTCT
ATTGACAGAAGCAGTCATATAGCATCACTATTAACCCTATCTTTGGCAATAGGAAGCCTGTTCTCCTTATTTTCCTCTTTTTTTTTTTTTTGG
AGATGGAGTCTTTCTCTGTTACCCAGTCTGGAGTGCAATGGCACAATCTTGGCTCACTCTAACCTCCACCTCCCGAGTTCAAGCGATTCTCCTG
CCTCAGCCTCCCAAGTAGCTTAGACCACAGGTGCCGACCACCACACCAGGCTAATTTTTGTATTTTTAGTAGAGACAGGGTTTCACCATGTTGG
CCCGGCTGGTTTCCAATTCCTGACCTCAGGTGATTTGCCACCTCAGCTTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCACACCCAGCAA
TTTTCTTTTAGCTTTGTTGATTATATCTTTCTCTTTAAAGAAGGTTTTAATGTTTATGTAGTCAGATTTGTCGTCTCCTTTCTAGTTAGAAAAG
ACTTCCCCACACCAAGATTATAAAAATAACTGAAGCCAGGCACAGTGGTTTACACCTGTGACCTGTAACCCCAGGACTTTCGGAGGCTGAGGCG
AGAGGATTGCCTGAGCCCAGGAGATAGAGGCTGCAGTGAGCTGTGATTGAGCCACTGCCCTCCAGCCTGGGCGACAGAGTGAGACCCTGCCTCA
AAAAAATAATGATTATATTTTACATATTTTAAAATAAAAAATAATTGAAACATTTTATGGTTTTTTTTAATATGTAAATATGGTTGATCTAGAA
TTTACTTTTGTGCTTACAATATGAGGTAAGAACTTTTTTTTTTTTTTTTTTTGGAGACAAGAGTCTCACTCTGTCACCCAGCCTGGAGTGCAG
TGGCACGATCTCAGCCCACTCCAACCTCCACCTCCCTGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCGCCTGC
CACCATGCCCAGCTAATTTTTGTATTTTCAGTAGAGACAGGATTTCGCCATGTTGGCCAGGCTGGTCTCGAACTCCTCACCTCAGGTGATCACC
TGCCTCAGCCTCCCAAAGTGCTGGGATTAGGGTGTGAACCACTGCACCCGGCCTTAACTCTTATTTTCTATGTGGATAGCTGCCATCCTGGCCC
CGTTTATTTTAAAGTTAACTCTCCACTGATTCACATTACCACCTTTGTCATTTTCAAATGTTTTTATATGCAGACACATGACTGTTTCTGAATG
ATTCGTTCTGTTCCACTGAGCTGTTTTGTCCACATGCTAGTAACCAAACTGTCTTAATTTCAGTAGTTTTAAAGTTTGTCTTTTTCTCTGGTAAG
ACAAGTGCCTCTTATTTTTTTCTTTTTTCCCAAATTTTTTCAGCCATTCTTGGGCACTTATTTGTTCCAATGAACTTTAAAATGACACGTCATGA
GAGCCCCCTCTCAAATCTCCTTGGGATCTTTCTAGAAATTGCATTAAATGCAGAAAATAATTTGGGTAGTAAATTTTGATCAGTAGTATGTAAT
TATCTTGAGCCCCATTTTTTTAAATACACTTTTTCCATCTCCTTTGGCAAGAGAACTTTGGTAAGCTGTTTACTGAATTTATTAAAATTCGTCC
TTTCTAAAATATAGACCATCTATTCCTAGGCCCTTGGACTGGACAGTGCCAATGAGAAAGGCTTGTATAGGAGGGGTGAAGCCCAGCTGCTCAT
GAACGAGTTTGAGTCAGCCAAGGGTGACTTTGAGAAAGTGCTGGAAGTAAACCCCCAGAATAAGGCTGCAAGACTGCAGATCTCCATGTGCCAG
AAAAAGGCCAAGGAGCACAACGAGCGGGACCGCAGGATATACGCCAACATGTTCAAGAAGTTTGCAGAGCAGGATGCCAAGGTGTGTGCAGAGC
CTGATGACTGCAGGTGGATCAAGAGCCTGACCATGCCCCTTTGATTTTAGGGGACAGGAACAGCTAAACAACCCAAGAGGCTCAAGAGCAGGGA
AAACGATTTCCAATCTAATCTGAGGCTGCTTTGGATCCAAAGGTCGAGTAGGGCAGTTCCAGTCACCAAAGGCACACGTCATGAGAGATGCTGGGAT
AACTAAATTCCCTTCAGATGTATTAGATTGGTTCAAAAGTAATTGTGGTTTTTACCATTACTTTCAATGGCAAAAACAGCAATTTTGCACCAAC
TCCCCCCGCCCGCCCCCGGGCCCCTGCCCGAGTCAGAGTCTCACTCTGTCACCCAGACTGTAATGCAGTCGTGCTAACATGGCTCACTGCAGC
*CTTGACTTCTCT*GGATCAAGTGATCCTCCCACCTCAGCCTCCTGAGTAGCTAGGACAAGCACACTACCACACTGGGCTAATTTTTTAAAATTTT
TTGTAAAGATAGGGTTTCACTTTGTTGTCTAGGCTGGTCTCGAACCCCTGGCTTCAAGGGTTCCTCCTGCTTTGGTCTCCCAAAGTGCTGGGAT
TATAGACATGAGCCACCATGCCCAGCCCTTTTGTCATTTTTGAAAAATTGTAAACCCATCAGGATTTTTTTTTCAAGTAAGACTTACGATTTTC
CCAGGAAATGGGATGTTATAGGAGCCCCATCATCACACCTGTTATCTTGAGGGTCGGCAGCCAGCCTGAAAAATGTGGCAGGAGAGGTCTGTCT
GCAGAGAGGGCGGCCTCCCTACAGCATAGTTGGCATTCTGGTCCTGTCCCCAGTCTCCAGGAATGCCCAGACTTCATTATCCCACAGCTGTCCC
ATGTGTCAACCAAAGAAAGGTGAAGCTCCCACTCTAACTATTGGTAGCACAGCCCTGACCTACCCAGCTAGATATCCTAGAGAAAATCATTGCA
ATACCTCGTGTTTGGGACCTGATACACAGTCTGGAGGAGCCAGGAATTATTTCACTTCTTTATTCTCTAACCTTCTTGATTGCTTATTTCTTCC
TTAGGAAGAGGCCAATAAAGCAATGGGCAAGAAGACTTCAGAAGGGGTCACTAATGAAAAAGGAACAGACAGTCAAGCAATGGAAGAAGAGAAA

SAGRES DISCOVERY 02-14

CCTGAGGGCCACGTATGACGCCACGCCAAGGAGGGAAGAGTCCCAGTGAACTCGGCCCCTCCTCAATGGGCTTTCCCCCAACTCAGGACAGAAC
AGTGTTTAATGTAAAGTTTGTTATAGTCTATGTGATTCTGGAAGCAAATGGCAAAACCAGTAGCTTCCCAAAAACAGCCCCCCTGCTGCTGCCC
GGAGGGTTCACTGAGGGGTGGCACGGGACCACTCCAGGTGGAACAAACAGAAATGACTGTGGTGTGGAGGGAGTGAGCCAGCAGCTTAAGTCCA
GCTCATTTCAGTTTCTATCAACCTTCAAGTATCCAATTCAGGGTCCCTGGAGATCATCCTAACAATGTGGGGCTGTTAGGTTTTACCTTTGAAC
TTTCATAGCACTGCAGAAACCTTTAAAAAAAAAAATGCTTCATGAATTTCTCCTTTCCTACAGTTGGGTAGGGTAGGGGAAGGAGGATAAGCTTT
TGTTTTTTAAATGACTGAAGTGCTATAAATGTAGTCTGTTGCATTTTTAACCAACAGAACCCACAGTAGAGGGGTCTCATGTCTCCCCAGTTCC
ACAGCAGTGTCACAGACGTGAAAGCCAGAACCTCAGAGGCCACTTGCTTGCTGACTTAGCCTCCTCCCAAAGTCCCCCTCCTCAGCCAGCCTCC
TTGTGAGAGTGGCTTTCTACCACACACAGCCTGTCCCTGGGGGAGTAATTCTGTCATTCCTAAAACACCCTTCAGCAATGATAATGAGCAGATG
AGAGTTTCTGGATTAGCTTTTCCTATTTTCGATGAAGTTCTGAGATACTGAAATGTGAAAAGAGCAATCAGAATTGTGCTTTTTCTCCCCTCCT
CTATTCCTTTTAGGGAATAATATTCAATACACAGTACTTCCTCCCAGCATTGCTACTGCTCAGCTTCTTCTTTCATTCTAATCCTTGCTATTAA
GAATTTAAGACTTGTGCTTACAATATTTTTGACCTGGAGTGGATCTATTTACATAGTCATTTAGGATCCATGCAGCTTTTTTTGTCTTTTTAAG
ATTATTGGCTCATAAGCATATGTATACTGGTTTATGGAACTTTATTTACACTCCTCTATCATGCAAAAAAATTTTGACTTTTTAGTACTAAGCT
TAATTTTTAAAAACAAAATCTGTAGGGTTGACAAATAAATAGTTGCTCTTCTACACTAGGGGTTTCACCTGCAGGTTTGACACGCAGTTGCTCG
CTTTTCCTGCCCTGTCAAGCTTCTCTGTTCTGGCGTGAGTTGTGAAAGAGTTGAAGACAGCTTCCCATGCCGGTACACAGCCAGTAGCCTAAAT
CTCCAGTACTTGAGCTGACCATTGAACTAGGGCAAGTCTTAAATGTGTACATGTAGTTGAATTTCAGTCCTTACGGGTAAACAGATTGAGCATG
GCTCTCTATTCCCTCAGCCTAAGAAACACTCATGGGAATGCATTTGGCAACCCAAGGAACCATTTGCTTAAACCTGGAACATCTCACCTTTTTA
AATCCTAAAAAACACTGGCAGTTATATTTTAAATTAGTTTTTATTTTTATGATGGTTTTATCAAAAGACTTTTATTATTAGATTGGGACCCCCT
TCAAACCTAAAAATCAAGTTATTTCCTTTTATAATACTTTTCTTCCCCATGGAACAAATGGGATCAATTTGTGAGTTTTTTCCTTTAATGATAA
CTAAAATCCCTCTAATTTCTCATTTATGCTTTTGTCTTTTTTTATGAAATATTTCTTTTAAAAGCCCCAGTCTCACCTACGAAATATGAAGAGCA
AAAGCTGATTTTGCTTACTTGCTAAACTGTTGGGAAAGCTCTGTAGAGCATGGTTCCAGTGAGGCCAAGATTGAAATTTGATACTAAAAAGGCC
ACCTAGCTTTTTGCAGATAACAAACAAGAAAGCTATTCCAAGACTCAGATGATGCCAGCTGTCTCCCACGTGTGTATTATGGTTCACCAGGGGG
AACTGGCAAAAGTGTGTGTGGGGAGGGGAAGGGTGTGTGAGTGGTTCTGAGCAAATAACTACAGGGTGCCCATTACCACTCAAGAAGACACTTC
ACGTATTCTTGTATCAAATTCAATAATCTTAAACAATTTGTGTAGAAGTCCACAGACATCTTTCAACCACCTTTTAGGCTGCATATGGATTGCC
AAGTCAGCATATGAGGAATTAAAGACATTGTTTTTTAAAAAAAAAAATCATTTAGATGCACTTTTTTGTGTGTTCTTTAAATAAATCCAAAAAA
AATGTGACTTCCCATTGTTTTTGGTTTTGCTTAAGTGATTTTCAGGGAAAGCTATATTGGTTAAAAAACCATGGTGGGGGCCAACTTGAAGAAA
TTAGACATCAGAGAGGTCAGGCGTAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGTGCATCACCTGAGGTCAGGAGTTT
GAGACCAGCCTGGCCAATGTGGTAAAACCCTGTCTCTACTAAAAATACAAAAATTAGCCAGGTGTGGTGGTGCACACCTGTAATCCCAGCTACT
CAGGAGGCTGAGGCAGGAGAATCACTTGAACCTGGGAAGTGGAAGTTGCAGTGAGCCAAGATTGTGCCACTGCACTCTGGCCTGGGTGACAGTG
AGACTTGGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAATCAGAAAATCGGCAATGGACAGTATCATCCTACACTTTGCTCTAAGGTGAACCTGAAA
CCAACATTGGGGTGAAAGTGGCAGAACAATGCATCATTGCTAAAAAGAACCAAGTAATGGGAAAAATAAAAAGGTTTTGTTTTTTCATTAGCCA
GCGGATATTTCACCTTTTTAAGCTGATTTTAAGGTAGGCTCGACTTGCAAAATAAAATTTAATTGTGCCCTTTAATAAATATATGAAACATAAG
TAAGGCTATCTAAGGTGGTGGTCCATATTGAGCATGCATTTTCTTTCTTAAGTAGCATATATCATCAATACTCATCATCACAGACTCTCAAGGC
CTAAGGAGATGTCACATATACTGCAAATCCTCATTTTCACACTGCAAAAGAAGGTGGCACAGTGCTGGAAGGTACTTAGTAGGACCTCTGAGGT
CTACAGACAGGTTGATGCAGGTTCTAGGCACCCTTTATTCCCTCTGAATTCTTGGCTTCATCTCTGGATTTGAATTATATTTCTCCCTCCTCCC
TGTTAAATTATTTGGTAATGAAATAAATTCCTAGCTAGGTGCGGTTGCTTATGCTTATAACCCCAGCACTTTGGGAGGCCGAGGTGGGCAGGTT
GCTTGAGCCCAGGAGTTCGAGACCAGCCTGGGCAACATGGCAAGACCCTGTCTCTACAAAAAGTACAAAAATTAGACAGACATGATGGTATGCA
CCTTTAGGCCCAGTTACAGGCTGAGGTGGGAGGATCACTTGAGCCCTGGGAGGTTGAGGCTGCAGTGAGCCATGATCATGCCACTGCACTCCAG
CCTGGGTGACAGAGCAAGACCCTATCTCAACCATAATAAATTCCCTTTATTTGCGTGCTTTTTTTTTGTAAGAAAATAATGATCACCCTAGGGA
TCTTGAGGATGAGCCAGAGAAGATTCCTGGCTGTAAATGTGTGATCTCAGAAATTCAGAGGCAGCTTGCACAACCTCCAAAACGAGGACTGCCA
GTGAAGGGCTTTGTCTATACTTACTTGGCCTTAGCAGCACACTGAACTCCACTTTTAGTATGGTACATGTGAAGCCTGTATTCTCTGGGGCTGG
AGACTATCTCCAGTATTGGTGACAAAACGCATTGAATTTGAGCCAGTTAGTCAAAATCCTGAAACTCAGAATTCCCCAACCCAGCTGTGTATTT
TTTCCATCAGCTGGCTACTTATGCATCTGAATGACAGTGACTGACGAAAGTACATAAAAGGACATTCTCTGATGGCTTGAAAAGTTTTGGTAGA
CCTTCAGTACTTCCCTTCAGATTTTTCTCTACTACATGTCTGACATGGAGATTTCTGTGGGAGGAGAAGGCACTATCTGTAATTGCCCAGAATC
TCCACGTGTGACCTTAATAATACACGGCAAGAAAGAGACAGCGTTAAATACAACTCTTAAGATTTTTGACAGCATCTTGTTTGGGTAACTGCAG
CCTATAGTTAGAAAAATTAAAGCACAGTTTATAAGGCAGGGATTCTTTGTCTTCTAAAGATGAGGGAACCTTGGAGAATCAAGAATATGGGGAG
GACCCAGAATGGTGATGCAGCCTGCCCATGGCCGTCAGGTCACCTGATGCCCTTGCACCATTTTAAAATAGGTCTTTTTTCTAGTATGATGAGTG
ATGCTCTTGGTGTATGGAAGGAGATGTTGGTACTTCCTTAGAATTCCCACATTCGGTGGAACTGAAATGGCAGCAGAGCCATGGGCCTCATAGT
CTACTTTGGAATAAATCTATGGTGGGAAGCTTGCCAACGTGTTAAGCAGAGGCATCTTTTTAAAATACACTTTAGGGGCCAGGGATGGTGGCTC
ACACCTGTAATCCCAGCACTTTGAGAGGCTGAGGCAGGAGGATTGCTTGAGGCCAGGAGTTCAAGACCAGCCTGGGCAACATAGTGAGACCCCA
TCACTACCACACACACACACACAAATTAATTAGCTACACATGGTGGTGCATGCCTATAGTCCCAGCTACTTGAGAGGCTGAGGTGAGAGGATAC
TTGAAGCCATGAGTCGTAGGCTTCAGTGAGCTATGATCACGCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACCTTGTCTCTAAAATTAGAA
AAAAAAATGTGGCTGCTACATTGTTTCCACCTCTCAAATCTCCACACAAGGTCATTGGTCCTTGCTAACCCAGAACTAAGCAGGGAAGGAATTCTG
GGACATGTGTTTCCAACTTGGCTTAGTTGACACATTGCAAATACAACATGTGGCTAAGGCTTTCTTTTTTGTTTTTGTTTTTGAGAGGGAGTTT
TGTTCTTGTTGCCCAGGCTGGAGTGCAGTGGCACAATCTCGGCTCACTGCAACCTCTGCCTCCAGTATTCAAGTGATTCTCCTGCCTCAGCCTC
CTGAGTAGCTGGGATTACAGGGTCCGCCACCACACCCAGCTAATTTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGT
CTCGAGCTCCTGACCTCAGGTGATCAACTTGCGTCAGCCTCCCAAAATGCTGGGATTACAGGCGTGAGCCACCGGGTCCGGTCTGTATCTAAGC
CTTTCTTGAGGTATTAAATATTTCCAGCCTGGGTCTGCTCTGGGATAATGTGTTTTCATAAGATAACTCCTTATTGTAGGCATTGTTCTTGGCT
TAAAGTTATCTCCTTAAAGCTTCTGACTAGGGAAATAAGTGGTAAGAATAAACAGTTGATGAGTATTTGGGGATGCAATGACTAATTCTAGTTA
CTCTAGTTCTAGTGAATGACTTGATGAGTTTGTATTGTATCTGCTCACAACCGTGTTTCCACACTAAGGACTCCTGAATTTTTTTGTCTTAAAA
ACTTAAACCCGCTGGGTGTCCTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGAGGGCGGATCACGAGGTCAGGAGATCAAGACCA
TCCTGACTAACATGGTGAAACCCCATCTCTACTGAAAATATGAAAAATTCGCCAGGCTTGGTGGTGGGCGCCCATAATCCCAGCTACTCAGGAG
GCTGAGGCAAGAGAATGACGCGAACCCAGGAGGCGGAGCTTGCAGTGAGCTGAGATCGCGCCAGTGCACTCCAGCCTGGGCGACAGAGCGAGAC
TCTGTCTCAAAAAATAAAAATAAAAAACTTAAACCCATGTGTATCCTATTGCCCTCTGTGGCTACCAGAGTCTTCCTAACATGACACCAGCCTT
TACCTGTAGTTAACAAAATGTGATTCCCCTTCTCCCACTGAGGGATCAGGAACACTGCCTTACTCATCACCATCCTCAGCACCCAGTCCATCAT
CCCCAAACTAGAACATAGTAGATACTCGGTAAGCTGGCTTTGTCCCTCCTCTGAAGGCAGCCTCTTGTCTGTATCCCAGTGGCCCTTCACTCCT
GTTACCTGAGATGTGGAGGCCAAAGCCCCATGATACTGTGGTTGTCCCTGCAGCCTGATTTTGTGTCTTGAATTCTTTTCCAAGTGGTGAACCA
GCAGCAACTTGAATTTTGGGAGCCCATAACTGTAAAATGGGTCCATCGTCTTCAGGCTACATTGATCTTATATCTATTTTTAGTCACAATTGAT
AACTCAGAGTTCACCAAATACGAAGATCAAATATAAAATATTTTCCTTAAAAGTATTCTAAGACCACCCCGCCCAGTCTGGTGCCCTGGTCAGC
CAGCCCCCAAACATTTACGGCCCATCTGTTGTGAACTGGGTACTGTTCCACTGAGGTGAAGGATGGGGCCCCCTGGGCTGAGCGACTCGCAGAC
AAGTGAAAAATGAGGCATGCAGATGGCTGCATCATCACAGAGCATCTGCCATCTGCTACTGACATCTACAAAATAGGGAACAGCAGAAACTCA
AGCCTGCCTCTCCAGCTCTCCCCACTCATTCAGAGCCACACTGGAGACCGAGTCAAGCCAGGGCCCACCCCACTGCTGACATCCAGCCCAGTGC
TACTGGGCAAGCCCTTCCTCAGCACTGCCCCCAGCTGGCCACTGTTCCACCCCTGTGCTTCTCTCCAAGCATCCGGGCTGCAAAAAGTGCCCAG
CCCTACCCTGAGCTATACCAGCCCTCTTGCCCTGGGCCCAGCCAGGATGGTTTCTCCTGGTGGCAGGATGTTAATCTCTTTGGCACACCAGGCA

GAAGTCTAGGAGCAGAGAGCTATGTCCTTAGGTCTGTTTTTCAGTTACCTGCCTACTGGAATACAGCTGCAAGAAAACTGTGTCCTTTATTTAC
GAGACAACTGTACAGATACACCATGCCTAACTTTGCTTACTGCATGGTCACTAGGATGTACTGAGTTTCAAGGAAATATGTTTTTGCTACATTT
TAATTAGCACTACCCCCCTTAGGTGAAATTTGGGCCAGGTGCAGTGGCTCACACCTGTCATCGTAGCACTTTGGGAGGCCAAGGCAGGAGGATC
ACTTGAAGCCAGGAGTTTGAGACCAGCCTAGGAAACAAAGCAAGACCCTGTCTCTACGAAAAAATTTTAAAATCAGCCGGGCGTGATGGCGCAT
GCCTGTAGTCCCTGCTACTCAGATGGATGAGGTGGGACGACTGCTTGAGCTCAGGAGGTCGAAGCTGCAGTGAGCTGTGATCATGCCACTGCAC
TCCAGCCTGGGTGACAGAGTGAGACCCTGTCTCAAAATAAATAAATAAATAGGCTGGGCTCGGTGGCTCTCACCTGTAATCCCAACACTTTGGG
AGGCCGATGGGGGCGGATCATGAGGTCAGGAGATTGAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGC
CGGGCGTGGTGGTGGCTGCCTGTAGTCCCAGACACTCGGGAGGCTGAGGCAGGAGAATGGCATGAACCTGGGAGGCAGAACTTGCAGTGAGCTG
AGATTGTGCCATTGCACTCCAGCCTGGGCGATAGAGTGAGACTCCGTCTCAAAAAATAATAATAACTAAGTAAATAAACTTCCTGACTGTTCTG
GGAACCCTCACCCCTTTGTCACCAACACACTTTCCCTGCAGAGAAAGCTACACTGCTTGAGTGAGTTGGTAAATGCTCCTCTCTCTCTCCACTC
TGTCTCTCGCAAGGGCACGCAAGGCTTTCTATATGGGCTTCTAAGCTTTCTCTGAACCCAGCTGTCTGGTTGACAAGGAGCAGATTGTAATAAG
ACAATACAGTGAGGTTTGCACCCTTCTACCCTTCAGCCGTTACCAAATGTGACAGTAGGTAAGTAAACCAAGCCACCTTCAGGCTGCAAGTCGG
GGCCTCAGAACCAAGTTATAACCTGAGATAACCCCAGTTGGCTGGATGATTGCCGAGACCAGACTTCCTACAGAGAGTGCTGCCCACTTCTGCG
GTGATAACTGCAAAACAGGGCCCCTCATAATGTCCTCATCAGGACCTCCTCAATCTGAGGAACACAGAGGCCTCCAATGTTTGGCAAGAGCACT
GGTTTGGGTCCAGCTCTGTGTTGGGATCTCTTGTTTCCTCACCTGTGAAATAACAATGGCTAATATTTATACAACTGTTTTAATTATAGTAGAA
AACACATACCATGAAATTTATCATCTTAACAATTTTTCAGGTTTTTTTTTTCTTTTTTGAGACAGAGTCTCTCGTTCTGTTGCCCAGGCTGGAG
TGCAGTGGCACAATCTTGGCTCACTGCAACCTCCACCTCCCGGGTTCAAGTAATTCTTGTTCCTCAGCCTCCCAAGTAACTGGGCATGGGCCAT
CATGCCCGGCTTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCATGTTGGCCAGGCTAGTGTTAAATACAGTAAGAAGTTCTTCTTCAAAGGT
TTAGCTTGTTTAAGTTTCCTTGTCCTCTGTTCCCTCCTTTCAAGGCCAGACTTCCTTACTCTCTGTGTCCCCCTGCCCTGGTAAACAACCTTCC
CACCAGTCCTTATCTATACAGCCCACATTCCACATCTGCTACCCACTCTGTGAATTACCCCTCCCGTCACAACGACCCTCCCCGCAGAAACTGT
TCCTCCCACCCCCCACCAGTGTAACCGCATTCTTGCACTTTTCAAGTTAGCCAACCGGGTTCAGCTTGGATTGGTCCAGCTCCAGCCAATGGAG
ACAGGACACAGTAGCGGGCACAAGCTGTGTTAGGAATAAAAACCCCTTCCCTCCTTTGTTTGGGGTGCTCTCGTGGCGACCAGACCTACAAGAA
GCACCCTTCTGCAGAAGCAAATTTGCCTTGCTGAGAGATCCTTTGTCTCAGTGCTGGTTCTTCTTTGCAGCACTGAGCATTTGTTTCCAACAAA
TTTGGTGGCCCATATGGGGACCTCATTCTCCTCCGGGAAAGGGTCTCTGATCACTTCTCATGAGGAGACGCATCCCGCTAACTCATTGCAGTGG
CCTCAAGGGTAAAGAATCGGGACCCACCCAGTGCAACCAATAAACCCAGACTCTTAGCAACACAGGAAGAAAAGGCCTACAGTTACTGTGGTGA
GCAGGTAACGCTATGCACAGACCAAGGTAAGAAAAACTGTGGGGGCGGTGAAGTACTTCCTTGGTGGTAGGGACAGTTTGGAGGTTAAAAGTGT
GTAAATAAGATGCACAATTAAGTGCAAAGCGAGTGTGGAGTAAAGTAAAGGAGTGCAAGAAATCTCCAGTGGGGGAGCTGAGCCTCCAGGGAAA
GGGAGCAAAAAAAAAACAATCTCTAGTAAAAGAGGTTGAGCCAGGAGGCCGAGGCGGGTGAATCACGAGGTCAGGAGATCGAGACCGTCCTGGC
TAACACAGCGAAACCCCATCTCTACTAAAAATACAAAAAAAAAAAAAAAATTAGCCGGGCGTGATGGCGGGCGCCTGTAGTCCCAGCTACTCGG
GAGGCTGACGCCAGGGAATGGCGTGAACCTGGGAGGTGGAGCTTGCAGTGAGCCAAGATCGTGCCACTGCACTCCAGCCTGGGTGACAAAGCGA
GACTCTGTGTCAAAAAAAAAAAAAAAAAAAAGAGGTTGAGCCCCACACACACTCAGGTTGAGCCTTCAGGGAAAAGGGTGCAAGAAATCTCTAAT
AGGAGAGACTGAGCCCCCATTAACTTCCAGGATGGGAAATACCCCTAGTAAAACAAGAACTACAAAGGACCAAACATAAGAAAAAGCAACAGAT
GATAAAATATTGTTGTTTTTTTTGAACCAAAGAAACTATTCTTAAACCTTTAGTTTTCTGGCCAAGTTTTGGGTCAAATAAGGATTAGATTTGT
CAACTTTTAATAAAGTATGTAAATAACAAAAGTCCTGTCTCCCAGGAAGAAATAGACTATGCCCTGCACTGGCGGCAGGGGCCTGTCCTCTACC
CCCTAAAAACTGCAGGAAAAAAAGCCAGAAAATACCTCCCCTAAAGAAAGTAAAATCCCTAACCCCAAACAGTCCACTAGCACATGGGATTCAA
AATTTCCCTTTCCCCTCCTCCTCAAAAAAGTCTACCCCAACCCTTTTTCCCTTAAGGGAAGTGCCTCTAGGAGGAGGGGAAATTGGCTTTGTAA
ATGCCCCTTAACTAGTTCAGAGGTCAGAAACCTAAGGAAGAAACTTAAACCACTATTAGATGATCTTTTTAGGGTTGTGGATCAAATTAACCGA
TTTTTAGGACCACAAGTATACACTTGGGCTGAGCTAATGTCCATCTTAAGTATTCTCTTTTCGGGAGAGGAAAGAACCATGATCCGCAGGGCTG
CTATGATAGTCTGAGAGCGCAAACACCTTCCCAGTCAAAATATCCCTGCAGCAGAACAAAAATCGCCGGCCCAAAACCCCCAATGGGATAATAA
CAATGCAGCCCACCAAGAAAACATGAAAGGCCTTAGGAAAATGATAGTTAAAGGGATTCGGGAATCAGTGCCTCAAACCCAAAATATTTCCCGA
GCATTTAATATGCAGCAAGGAAAAAACAAAGGGCCCACGGAGTTTTTAAACAGACTCAAGGAACAGGTAAGAAAATATACAGGCTTAAACATAA
AGGATCCCCTTGGACAGGGGATGTTAAAGCTCCATTTTGTTACTAGTAGCCAAATATCACAAAGAAATTACAAAAACAGAGAACTGGAAAGATC
AGCCTATAGAGGGAATGGAGGGAGTCAGGGAGAGAGAGAAAGAGAGGCAAAGAGAGAAGATGGAGAGGCAAGGAGAGACAGA

HUMAN SEQUENCE - mRNA

GGGCCGGCTCGCGGGCGCTGCCAGTCTCGGGCGGCGGTGTCCGGCGCGCGGGCGGCCTGCTGGGCGGGCTGAAGGGTTAGCGGAGCACGGGCAA
GGCGGAGAGTGACGGAGTCGGCGAGCCCCCGCGGCGACAGGTTCTCTACTTAAAAGACAATGACTACTGATGAAGGTGCCAAGAACAATGAAGA
AAGCCCCACAGCCACTGTTGCTGAGCAGGGAGAGGATATTACCTCCAAAAAAGACAGGGGAGTATTAAAGATTGTCAAAAGAGTGGGGAATGGT
GAGGAAACGCCGATGATTGGAGACAAAGTTTATGTCCATTACAAAGGAAAATTGTCAAATGGAAAGAAGTTTGATTCCAGTCATGATAGAAATG
AACCATTTGTCTTTAGTCTTGGCAAAGGCCAAGTCATCAAGGCATGGGACATTGGGGTGGCTACCATGAAGAAAGGAGAGATATGCCATTTACT
GTGCAAACCAGAATATGCATATGGCTCGGCTGGCAGTCTCCCTAAAATTCCCTCGAATGCAACTCTCTTTTTTGAGATTGAGCTCCTTGATTTC
AAAGGAGAGGATTTATTTGAAGATGGAGGCATTATCCGGAGAACCAAACGGAAAGGAGAGGGATATTCAAATCCAAACGAAGGAGCAACAGTAG
AAATCCACCTGGAAGGCCGCTGTGGTGGAAGGATGTTTGACTGCAGAGATGTGGCATTCACTGTGGGCGAAGGAGAAGACCACGACATTCCAAT
TGGAATTGACAAAGCTCTGGAGAAAATGCAGCGGGAAGAACAATGTATTTTATATCTTGGACCAAGATATGGTTTTGGAGAGGCAGGGAAGCCT
AAATTTGGCATTGAACCTAATGCTGAGCTTATATATGAAGTTACACTTAAGAGCTTCGAAAAGGCCAAAGAATCCTGGGAGATGGATACCAAAG
AAAAATTGGAGCAGGCTGCCATTGTCAAAGAGAAGGGAACCGTATACTTCAAGGGAGGCAAATACATGCAGGCGGTGATTCAGTATGGGAAGAT
AGTGTCCTGGTTAGAGATGGAATATGGTTTATCAGAAAAGGAATCGAAAGCTTCTGAATCATTTCTCCTTGCTGCCTTTCTGAACCTGGCCATG
TGCTACCTGAAGCTTAGAGAATACACCAAAGCTGTTGAATGCTGTGACAAGGCCCTTGGACTGGACAGTGCCAATGAGAAAGGCTTGTATAGGA
GGGGTGAAGCCCAGCTGCTCATGAACGAGTTTGAGTCAGCCAAGGGTGACTTTGAGAAAGTGCTGGAAGTAAACCCCCAGAATAAGGCTGCAAG
ACTGCAGATCTCCATGTGCCAGAAAAAGGCCAAGGAGCACAACGAGCGGGACCGCAGGATATACGCCAACATGTTCAAGAAGTTTGCAGAGCAG
GATGCCAAGGAAGAGGCCAATAAAGCAATGGGCAAGAAGACTTCAGAAGGGGTCACTAATGAAAAAGGAACAGACAGTCAAGCAATGGAAGAAG
AGAAACCTGAGGGCCACGTATGACGCCACGCCAAGGAGGGAAGAGTCCCAGTGAACTCGGCCCCTCCTCAATGGGCTTTCCCCCAACTCAGGAC
AGAACAGTGTTTAATGTAAAGTTTGTTATAGTCTATGTGATTCTGGAAGCAAATGGCAAAACCAGTAGCTTCCCAAAAACAGCCCCCCTGCTGC
TG

HUMAN SEQUENCE - CODING

ATGACTACTGATGAAGGTGCCAAGAACAATGAAGAAAGCCCCACAGCCACTGTTGCTGAGCAGGGAGAGGATATTACCTCCAAAAAAGACAGGG
GAGTATTAAAGATTGTCAAAAGAGTGGGGAATGGTGAGGAAACGCCGATGATTGGAGACAAAGTTTATGTCCATTACAAAGGAAAATTGTCAAA
TGGAAAGAAGTTTGATTCCAGTCATGATAGAAATGAACCATTTGTCTTTAGTCTTGGCAAAGGCCAAGTCATCAAGGCATGGGACATTGGGGTG
GCTACCATGAAGAAAGGAGAGATATGCCATTTACTGTGCAAACCAGAATATGCATATGGCTCGGCTGGCAGTCTCCCTAAAATTCCCTCGAATG
CAACTCTCTTTTTTTGAGATTGAGCTCCTTGATTTCAAAGGAGAGGATTTATTTGAAGATGGAGGCATTATCCGGAGAACCAAACGGAAAGGAGA
GGGATATTCAAATCCAAACGAAGGAGCAACAGTAGAAATCCACCTGGAAGGCCGCTGTGGTGGAAGGATGTTTGACTGCAGAGATGTGGCATTC
ACTGTGGGCGAAGGAGAAGACCACGACATTCCAATTGGAATTGACAAAGCTCTGGAGAAAATGCAGCGGGAAGAACAATGTATTTTATATCTTG

SAGRES DISCOVERY 02-14

GACCAAGATATGGTTTTGGAGAGGCAGGGAAGCCTAAATTTGGCATTGAACCTAATGCTGAGCTTATATATGAAGTTACACTTAAGAGCTTCGA
AAAGGCCAAAGAATCCTGGGAGATGGATACCAAAGAAAAATTGGAGCAGGCTGCCATTGTCAAAGAGAAGGGAACCGTATACTTCAAGGGAGGC
AAATACATGCAGGCGGTGATTCAGTATGGGAAGATAGTGTCCTGGTTAGAGATGGAATATGGTTTATCAGAAAAGGAATCGAAAGCTTCTGAAT
CATTTCTCCTTGCTGCCTTTCTGAACCTGGCCATGTGCTACCTGAAGCTTAGAGAATACACCAAAGCTGTTGAATGCTGTGACAAGGCCCTTGG
ACTGGACAGTGCCAATGAGAAAGGCTTGTATAGGAGGGGTGAAGCCCAGCTGCTCATGAACGAGTTTGAGTCAGCCAAGGGTGACTTTGAGAAA
GTGCTGGAAGTAAACCCCCAGAATAAGGCTGCAAGACTGCAGATCTCCATGTGCCAGAAAAAGGCCAAGGAGCACAACGAGCGGGACCGCAGGA
TATACGCCAACATGTTCAAGAAGTTTGCAGAGCAGGATGCCAAGGAAGAGGCCAATAAAGCAATGGGCAAGAAGACTTCAGAAGGGGTCACTAA
TGAAAAAGGAACAGACAGTCAAGCAATGGAAGAAGAGAAACCTGAGGGCCACGTATGA

TABLE 15

MOUSE NOMENCLATURE
ICSGNM Rel
Celera mCG8770

HUMAN NOMENCLATURE
HGNC REL
Celera hCG15154

MOUSE SEQUENCE - GENOMIC

GTCCAAAAAAAGACTCCTTTTTCATATTAATAAACCATAGACAATAACAACAGTTATTAAACTATCAGGTAAGAATTGTATTCATAATTGTTCT
GGTTTAAGCATTCAAGAGATAGATGGAAAGGTGGAAGCACTAGAAGACTCGATGGTCATGCATTACAAGCAGCAGCCCAATGGGCTGGAGCGCC
AGAAGAAGACATTTGAGCCACAGTCTCTAGAAACTGTTCTCAGGATGAACTTAGAAAAGCTTTGAGCACAAGCAGTGCTGACTGAGGTGTATAT
ACCAAAGTGTCATACGCTATTTGACAGAAGGAAGGTCTTCTGTACTAAATAAAACAGGAGAGAAGAGACCATGCTCCACTGCCTTATGCCCATT
CAGGTCTAACCACTTTAACTGGAATGGCATATCCATGATCCCGCTAGAAAGCAGACACTAATGCTGGGACATAATCTCTCTCCATACTTAGAAC
AATGTTTAGCATGAAGTGTGTACTGAATCATGAATTGATTCAACAAACATTTATAGCTTGACTTTTATTTATATATTCATAATCCCATGACAAC
TTACAGAATTAATATGACTATGACAAACATGTATTCATTTTATTCAGTAAATCTAGAGATATAAAAGTACACTTTTATCAATTGTACTATTAGT
TCAAGCAAGCACCAAATAACACTGAAGGTGTACCTAAACACAACATGGGTATTCCCCATACCTAAGAGGAGGCAGGAGGATTGAGACTTTGAGG
TCAGCCTGAGATATACAATGAGACATTGGCTCAAATAAATAAATAAATACATAAATAAATATATTTACTATGAAAATGAAAATACTACCTGGAA
TATGAAAAAATAAAATTCAGTGTTAGATAAAAGTTATACTTGTCTTCAAGTTACATTAGATATCTAAATATAGGTCTTTCTTTTTTAGTCAATA
ATTTACAAAGCCCAGATTCCAGTTCATATTTTTCCATTCTCCCAATCTTCTAACTCCATGGTCATTCAGAATCTTTAACCTGAGAGGATATGGC
AGTCTCAGAATGTTCCCAGTTTCCTAGAACAGCTGCTTTCCACCCAGTCCTATTTCTGAGCTCAGTATAAAATCCCTGTAGCACAATGGCAAAA
TGCAAAACAAAAAAATATGTGCATCCTACATCCGCCATTTAGCGAGACACCCCCTTGCTTGATGCTTCCTCACTACTGAGGTTGTCAGGAAGTG
TAAACATTTCCCTAGAAACTGGAGGGAAAAAGAAAAAGTCCACTTGTGTTAAAGATTCTATGTCCAGTTAGAGTGTTACAGAAGAGACAGATTA
TCTTGGGCTATTTTTATTCTTCTTAAATATATATAAAATTAGCCGGGCAGTGGTGGAGCACAAAGTTAATTCCAGCACTCAGGAGGCAGAGGCA
GGCAGATCAGAGTTCAAGGCCAGCCTGGTCTACAGAATGCGTTCTGGGACAGCCAAGGTTACACAGAGAAACCCTGACTGGATAAACAAATGTA
TATATAATTCATTTTCCACGCCTGTGTCCAACCTAATATCCTCATAACTGTCTAAAACTTTAAAATGCAGTTTTAACAGACTTCTAATCTAAGA
AGACCCTCAGATAGCACCTGAGGCTTGCACCTCCCACTCTGTAACCAACAGACCAGATACAGATGAAGTACCTAAGGGTGTTCCGTGTCCTCAC
TTGTGAGATATGAGCTGGAATGAGTGGAGTCAGGAGTTCAGGTATGGCGGCACATCCTGCCCCACAAGTTCAACATTGGTTTGGGCCATAATGA
GTTCAAAGGTTAGTTACAGCAAGTCTCTGTCCAGGGAGGTCTGACAGATGGATCCCACGTGACCTCAGATGTCATTCCTGTTACAGAAATGAAG
TCACCCTGTGTCACACTTACAAGCGCTGCTATATGCACAAAACTGGCTTCGTCCTCTAGGCCTTACCTAGGATAAGCGTACAGACCGAAAGCCA
GAAGTTTCTGGATGGTTTACGACCTGCCTTTAGGAGTTCTCATGTACTCAAATTTAGTTTCTCTGGGACTTCACTAACCCAATGTTTCAGTTCC
TTTTAGCCTAGCTGAGTGGGGCCGCTTTCTCAAAGCTGTTTCTCACCTTGGGGACTGTCCCTCTTTCCTGCAGCTGACTTTACAAAGGGTGTGC
ACGCCCTCCTTGTTGGACAGGAGAGGTTACAGACAAAGCTGATGGCAGGGTTCAGGTGATGCCACTGTCTGAATTATCACTAATTTTTGAAGTA
GTCATACATATTTCTTGCTGTACCCAGAGCATCTCAGACTTGCACTTGTATCCAGTTCCTACCCCCAGTTCTCTAAATCCATTCAGTCAGGAAG
GTGGACAGCTTCTCCTCGATCCTTTCCTGAATATTTCATTCCGTTAAGTTTGACTTCATATGCTGGCTGGCCGAGGCTTATTTGCTTCACCA
CAGTGACTTCTACATCAAGTGTTTCTGCTTCCCACCTGGTTTTCCTCAGACGCAGCCTCTGTTACAGCGCTCCCTGGTTTAAGAGCTTGTCACA
TTTCTCTCTGGATACAACCTGTACAGTGGATCTCAGTCCCATATAACCGAAGGTATGGGTTGGGCCAACATAAATTTGGCAACAGTCAAAAGTT
TCTGAACTTTTAGAATCTTCTGAACTACATGAAATTAATTCAAATTAAACCTCATAAAGACTCTGCTATGTTTCCGAGGAACTCACCAGCTTTG
GATCACAGGAACTCCCTGCAGCCTTGTGTCTGGAACACACATGTGCTAGCCACAAACACATGCCATCACACAACGCCAGGCCAGTATCTGCAGC
CGAAACGGTTCGTACTTTACCTGTGCTTTGATTGTGTGGATGAGTTTTCTGTCCTTATAGAACATTATAGCACCTAATAGCATTCCTCAGCATT
TATGCATATAGTTAGTCTGTCTGTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTCCTTCCTTCCTTCCTT
CCTTCCTTCCTTCCTTCCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTTCTTCTTCATCTTCTTCTTCTTCTTTTTTAATATTTGAGCT
GCTAATTTGAGTTTCATTTAAAGATCATTAAAGTAATTTTGATCTTGTTTAGGATCAGAATTTCTAACAATTTCTAAAACAGACCCACACACGC
TTCTGGTATTTTGCATCACATATTTATAAGGCAGCATTTTCAGCATTCAGTGTTCTGCCTGCATGCATGCCTTCAGGCCAGAAGAGGGCATCAA
ATCCCATTGCAGAGGGTTGCGAGCCACCATGTGGTTGCTGGGAATTGAACTCAGGACCTCTGGAAGAGCAGTCAGTACTCTTAACCACTGAGCC
ATCTCTCCAGCCCAAGAATTATTCTAAAATAATTTCTAAAATAGTTTCTCTGAGATTTGCTATTAATAAATGGTTTGTAAACCTCTTTGTGTGT
GTGTACACACATACATATATATACATATGTATATATATAATAAAAATATAATAAATACATTACTCAAAAAAAGAGCACCTCCCTCGTGAAACAA
AATACTCCATTGTCAATAGATTTTTTCCCTATTTCCTTTTTTTTCCTAATCTAATATATACCCATATTAGTCAATATTAGCTACTTTACCAAACA
TAGTAGTTCAATAAAGGGGAGTTTTAAAAAATCTCTACCTTTTTTTTTTTAACTGTCTGCTCTACACAATCACTCGGGCTCCTTCTGTCTCTTTT
CTCAGCCATCTCTAGAAGCCTGCTCAGCAAAGGGGATGGAATTACAATATAGGATCAACAGCTTGTAGTAGGATCGACAGGTTAGCTTAACATA
AAACAAAAGTGCTTTCTACAAGCCTCTGGCTGAGGGCAGGTGAAACATATCTCTGATGAAGAAACGCTGAATGCTTACGTGGCCATGCAGAGAC
CATGATGGTGAAGGCAGCTCTCCCAGAGGGAGGCTTAGTTGTTGACCCTGTGACCTCTCCAGATATGGGAAACTCAACTGCATAGCTGTTACAG
TGAGGAACTGTATTCAAACTCTCCTCTGTTAAATAAAATTAAAAGAAAAGGAAAAGGTGAGAGACCAAGTGCAGCAGAGCAACTAAGTTACAAG
TAGACATTTTGGTGAGAAGAGGTATTAAGATGAGGTCTCACTATATAGCCCAGGCTGGCCTCAAATTCACTGTGGAACCCCATCTGACTTCACC
TTATGGCAGTCCTGCCTTAGCCTCTCAAGCAACAACATCTCTGGCTAGCTGCCATCAAACCGAAGAGGTGGAATTATAACCAAGTTTCAGAATA
AACTCCAGTATAGACCTTCATAGGCTCAGAACTGTAGTGTTAACTCCTGAAAACAAATGAGTGTGTGTGTGGGGGGGGGGGTCACAGCTAGG
ACAAGGTGATTATTTACAATACTGACATTTCCAATCCATAGACATGGCATGTCTCTAGAAAGGAGTATTCTGGGCAGAGGGAGAAGAACGAAAG
CAGATAAATAAGAAACCATCTTGTTTATACATCTCAGGGTCTATAGAGCAGTTCAAAATGTATAAAATATAAGATATAGATTGTAAGAAATGAG
GCATGGCCTCCTGGAAGCAGCCAGACTATGGAAGAGTTTGGAAGCCATGTATTTGAACCCAAGGACGGTTTTAAATTGCAAATTTGGTGTGGCT
TGATGTGTATCCCCACAGGTAACTGGGGCAGCAATATATTCGAATATATTTTTAAAGGGGACAGAATTAAAAAACACTTAGAACACTCCAGTAG
TTTAGAAGAAACCTAACAAAGATGTCCCAATGATGATGGCAGTCAAAATAAAGAAGAGGCATAGCTGTTGGCATAACTCAGTGGCAGCCTTAGC
ATGCTTATGGTCCATATGTGCCCTAGGATAGCTATGGGGCAACCCAACACAAAACCATGAACACTTAAAACAGCATGAGCAGATTGTTTTTGCA
AGTTTTTTTTTTTTCAATCTACCTATGCTTTTCCCAAATGTGAACTTTATAGGTGACAGTGTATCATAACAATGTCAAAAGACTGTACATTTCTC
CAAGCCTTAAATTTAACCCCTAGCAACAGAAGAAGAAGAAGGATTCATCACAATAGACTATATGGTGAATGGATACTGTAAGGTAGGCTGAGGT
GATAGGAGGGCCAGTCATGGCTCTCAGTCTGCAGAGATATCTCAGCAAGTAAAGTGCTTGCTGAACAAGCATGAGGAGCAGAGTTTGGACCCTC
AAGAGAAGCCAGATGCAAGTCTGTAATTCCAGAGTGCCTTACTTCAGCTAGAGTAAAGGGTACAGAGCCAAAACAAAGAGGCCATCTTCCATCC
CACACTTACACAGGTGGTTCTCAACATGTAGATTGTAACTCCTGAGGGTGGGGGTGGGAGGTCGGGGGTCAAATGCTCCTTTTACAGAGGTCAC
ATATCAGATATACTGTACATCAGATATACTGTACCATGATTCATAACTAGCAAATTACAATTATGAAGTAGTAATGAAAATAATTTTATAGTTG
GGGTCACCACAACCTGAGAAACTGTATTAAGTGTCACAGCATTAGGAAGGTTGAGAACCACTGCTTTAATAAAGTCTTTTAGAAACAAGTGAGT
AGTCAATGCTCTTTAGCAAAGGCAACGCCTACATTCCTTCCTTGGTACAGCAGAGGTATCCTGTTCTAGCACCATCTGCACACTAAAGCTCCAC

CCTGGTACCATTCACTTCCTTTACTACCTAGTCCTGACTTTACCCTGCACGATGAATGGCCTGGGAACCCAACTGCCATGCCAGAGACTGAAGT
GCTCACTGATAGTTGTGTTTGTTTGCTCCTTCTGCATTTTCAGTCTTACTCTGTAGCCCACATTGGCCTGAAACTTGTAACAATCCTGTTCCAG
TCTCCTAAGTGCTAGGATTATAGCTATGAGCCAATAAGCTTGCTTCTCATTTTCCTTTAGCAATTTCTGTTTCCCAATCTCTTTGGAGGCTAAG
GCAGTATATGCTGTCCTGGTGTGCAGTAATAGTAAGGCAGACTGTGCCTGGCGCACATTCATCTTTCACTTGTCCTCCTTTTCCCTCCCTTGGT
AAGGCAGCCTTAAAGGTGTTAGACATTTGTTATAGGCACGTGTGGCAGAAACATGGACAGACATATTTGTCTTTCTATAATCTCAGAATGTACT
GAGTAAAAATAAATCCACAACCTACATCAGTTTTGTTGGCTAGAGTTTCCCAAATCTCCAGCAGACAGTTGGGAATCAGTTCTTTTAACTGTAA
TTATTAGCATTAATTCTCAGACCCACAGTATATACATGTTGTGTGTATATATGCACATATGTAACAGGATAAATGATGTCTAAGAGAGGCTACA
GAATTCTGAGGCTTTCCTGAAGTCAAAGAAAGAAAGCAGATACAAGCAACAGGAAGAGTCTGCATGCATTGGACTAGAAGTCTTACAAACTGCA
GGCATGGACCGGTTCACATCAAATACCAGTCCAAGTGACAGGACATTTCCAGGGTCAGTTTGATGTGAGCCAAGTGTCACCTGCCGGAGTCTCT
TTGCTTATGCTGGAGACTGAGGCAAGGGCAAAAGGAGTGCTTGATATAACAATTATCCTATATGAGGCTTATGATAGGTAGCGGGGACAATTGT
CATACCTGTCATGTTTTGGTCTTGGGGCACTACTTCTTTTCTAGTCCCAGGTCAGGGGATGGATTACATGTAACATGTCAGTTCATGTGTGCTG
TGCTTCTGATTACCATTTGATATATTTAGCTCTTGGTTTATGTTTCACACTGTGCTGGCAGATAATGATTGTTTGCTTGTGCAAGCAAGATATA
GACTCATTCTTTCTTGGCACTCATACTCAAAACAGAGTAACTCTGGTCATGGTTGTTGCTTTGTAAAATGGAATAACTCAAGGCAAGTATGGTG
GTTTGAATGAGAACACTCCCATGGGCTCATATAGTTTAACTTGGTCTAAAGTAGGTGGAACTATTTGGGAAGGATTAGGAGGTGTGTCACTGTG
GGTAGGCTCTGATGTTTCAAAAGCCATTCCCTGTCAGCTTTCTGACTTGTGGTTGTTGTCTCAAGATGTAAGCTCCCAGCTAGTGCTCCAGTGC
TCTGGCTTTCATGCTCCCCACCAAGATGGCCATGAACTAACCCTCTGAAACCATGAGCCCTCAAATTAAATGCGTTCTTTTACAAATTGCCTTG
GTCATTCCTTTGTTTTATGACTGTAATAGAAAAGTTACTGAGGTCACTAGGCATAGCCTAAAAGGTGATATTCCACATCATAGACCTGGTCAGA
GCAGTCCCAGCCCATTCTCTCAGCATTAGTATGCAGTATGCAAGGTGCCTGGATCACCCCTGAAAGGGAGCCAGAGGTTGTTACTGATAGCCG
CGCACACTATAAGTCCACACCCTGCATCAGCTAATACTCCATTTCTGTTTTCTTTGACACTCTTCTAAAAGTTTATACCTACCACATCCATCAT
TCTCTCCTCAACCTGCTTCAATTTGGCTTTTATAATGATCCTTTTAAAGGCACACTTCTCAAGTCACAAATGTCCTCCATTCTTTATCTATTTC
ATAGACAGGGTCTCCCAAAATAGCCTAGGCTATTCTTGAACTTCAGAATGTCTGGCATGAGCCTGCCTAGTCCTGGGATTACTGGAAAGAGCTA
TGCCACCCAATTTAATGACCTCCATTTTGCCATACTCATTTAGAGTTCATTCAGAAAAGAATCCTCAACTGTTTCACTTCTAGCAGCTGGCCCT
GCCATCAAACATGCCTGTCACCATGTCTTCTGTACAAACACTTGTCTAAATCACCTTTCTAAAATTTCCATCATGGCAACAGTGCCCCACCCTC
ACCCCTAGGTAGCATATACTAACAGTGTACCATACCAGCCAGGGTAAGTCTTCAAATGTACTGCATCAACTGCATGACTAAAGTTTCCAGTAGC
AACCACTGACTCAGCTCAAACATGGCCTCTACAGAATGTCCTTCTAGAGAGCCCAGTTGGTTTCTACTACCCCCACTACCTTATTTTCTTTATA
GAAATGCAGTGACATCAAGACTTATGCATGCTTGTGTTTTGAGACAGACTCCCTCATAGCTCAGGCTGGCTTTATAAACTCATTATATAGTGGA
GGATGACCTAGAACCCCTGCTGGTCCTACCTCCACCTCCCAAATGCTGGGATTACAGACATGCCACCCAGTACTAAAATTACCACGTGTTAGTC
TCTGTAAACCCCAATGACAAGCAGCCTTATCAGGTGTACAGTGACACCTTCCCCTAGCACAAGGTCTAAAAATATCCATGAGAATTTCAACCTC
CTATTTACTTTTTCTTTGAATAAAGACAGTAAGTAGAAACTATGTCATTCAGATATGGTTGAGTTAAAAGCTGAAGTATGCCTGCATTCATGTG
TGTGTGTGTATTGGTGTGTTCAGTGTTTTGTGGCTCATCCTATCTTCAAAGTTATGATTCTGTGGTCTTGACCTCTGGAGCGCTGAACATAGTT
CACCCTGCTAATTGTTTTATTTTATTTTATATCTTTGTGACTTGTTTATGATTGTGTTTAACTAAAAACACAACTGCTATTTATACTCTTTGAG
AAGACAATTTGGAACTAGCAGATTTTAATTATTTCCTTCACTTTGGGGGAGTTGTATAACAGGATGAATTTTTTATGACAGGATAGTATATATT
TTAATTATCCAACCCCCCCCCCCCACACACACACACACACTTTGGCGTTCTTTGAAGCGCATGTAGAGGTAAGAGGACAACTTTTGGAAGTTGA
TTCTGTCCTTCCATGGATCAAACTCAATTTGTCAGGCTTGGTAGCAAGCGCAATTATTCTCTAAGCTATCTTGTTGGCCATGCAAGATGATATT
CTCTATTTCCCCTCCATTACTTGTTTTAGTCAGTAAATGACTGGAGAACGTAAGAGGTGGAGCCAGATAACCCTGAGTTATTTCTGTTGTTGAG
ACAGTCCACCTACCTCAGCCTCCCGCGTGCTGGGAGTGCAGTGCGCTAAACGGGGCTGGATAATCTTAAGCTTAAATCGTGCAATTCCTTTCTA
GAACTCTAAAGTATGGACAAGCTACTCAGCTTCTCCAAACCCCAATCAACCCTAATACTCGTGTATACAATGACATGCTAATACATCATAGACT
AAGAGAACAGGTGCGTATTAGCAACTGAAGGCAAACAAGATTCCGCCTGACCTGTCAAAGCACCAAAGTTCGGTCCAGGCCTCAGGCCGTGGGT
ATCTCGGCCAATCTCTGGACGTCGTGTACATTTATACAGAATGGGGTTAGCGGCCTCGCAGTGCAGCTGAAAAACTTTGGTAGGTAAAAGACGT
AATGTAGATATAGAGGGAAAATAAGGCTGCGGGGGTCCCCGTATGCAAATCTGCGCCTTACTGCCGAACGCGGGCGCTGGCGCTTCCGCACTTC
CCCTCCAGAGCACCCGGACAACTCTCTGGCGCGGGGGCGGAGATTTGCATGTGCGAAATCGGGAAGAGGGGGAACCACCGGTCGAAAACCCCGG
GCGGGCCTCGGGCGGCCAAGGAGCGCGCCCGGTGCACCGCCCGGCCCGCCTCCGGCCGCTCGGCCAGCATGACGTCACGAACACGCCCCTCGGC
TTTAAGCGGCGCTCTCAAGGACTCTGGAGGAGGGGGATTTCTCAGGGACCGACGGCTTCTCACGCGCGGAGTCGTCGCTGCGCGCCCTCACGGA
GCTCCCGGCGCGAGCGTGCAGGCTGTGGTGGCTCTGGAGGAAGTAAGCGCACTGGCCCGCGCGGGGTCGCGCGCCCGCCGCGAGGCTCCGCCCC
CCGCCCCGGGTAGGCGGTGGCGCGAGTGACGTAAGCAGCGGGAAATCCCCCCCCCTCCCCCCACGTTCCGCCGGGCGGTCCGCCCCGCCCCCTG
CCCCTGCCGCGGCATCCTGGCAAGGCGACGCCAGGACACTAGTGACCGGAGCGCGAAGATTCGGGGGGTGGGAAGGTGTGAGCCGCAAACCCAGA
GGAGCCGGGAAAGAAGAGGAGGCCCGGGGGTGGTCCGAGGACAGGCGTCCCGGCTGCGGAGGCTGCTCAGCCTCCTCACTGGTTGGCTGACTGA
CGGGCTAGCTGGCTGACTGCCTGCCTGACCGACTGCCTGGCTGACTGACTCACTGACTGACTGACTGGCTGCCTTGCAGCCTCGGGCCGGACGC
TGGAAGCTGCAGCGAGCGGCGCGCGGAGCCGAGCCATGGCCTCGAGTGAGTACCGGGGCGAGCACTCGCGGGTCACGGGGAGGAGCTGTCGGGG
GCTCCGTTTGGGGTTAGGACGGTCTGCCTTTCAAGTCTTCTCATCTGGCAAATTGTCAGCCGTTTGAAAAGTTGCCCGCTCCGGGGTTTGCGTG
TGAAATCAAAGCGGCGCACTGTAATCTGATCTTCTCCTAATAGCCAGAACCTTCGAAATTCCCAACGGTGTGCTTTTAGGATCACAGGGGGTAA
TCTCAGTAAAGGAGAGCAGAGAAGCCTCGCGTTTAAAGACTCAGTGGTATGGAGACCCAGTTTTACATTTTTGAACAAAAAAGAGGAACCTCCG
GACCTCAGACGAGCTTTCTTTTTTTTAAGTCCAATCGTGCTAGCGGCTGACACTGGTACAGAATGTGGCGTGGCTGTGAAAGTCCTCAGTGGCGT
TTTAATTCGTTCCAAGCGAAAACACTACCCCCGCCCCCACGAGCTAAAGATGTTGCTTGTCTAATTTACCGTGTAGAGACCTCGATCCCTTCAA
CCCCCAACCCCAAACCTGCACGCGCGTTTTGTTAGCAGCAAGAGGACGAGATTTGATTATACTTTAAAGTAACTGGTAGGGTTGAAAATGTCAT
CGTTTAATGTCAGTGTTTTATCTGCCACTAGTAAGTTTTGGATCATCTGCTTTGAGGGGGACATTTATAAGAAACAGTTTACAGGACAGGGGAG
TTTAGTATGACAGTCGTACTATATGTAAAGCAAGCACTTGAAGCAGCTGAGATGGTGGTGGGAGCTAAAAATGACACCTTCTGTCTGTAGCAGG
ACGCTGACCCTTATCTTCCCAGTGACCCTCAGTAGAAGGCAGCCGACGTCTGGCAGAGAAGAGGAAGTAGAAAGCTTAGTGAACTCTTTAAGAG
TTGAGCAGAACAATATCATAACTCCTGCTGTAAAGGAAACTGGGGTGTTTCACATGACACTTGATTTCAGTTTGTCTGTGGTTTTCATGAGAAA
ACAAGTGTAGTTTAAAATATTTCAACTTTCTCTTTACCCATTTAAATGAAGCCAGGCTTTCAGATGCTCTAGTAAATTTGTAAATTTAACTCAT
GTTCTGATTAGAAGCACAAAAAGGCTTTAAGTATTTAATTCATTGGTAATCAGAAAGAGATTTTTGTATGACATTTGTAAAGAGTGGCAAGCTT
TGTTAAAACAGTTCTGTCCTTGTCTACCTAATAGAATCTTATTATATAGTGTATGAATGCAATACTTGAATTTTTTTCAACAGAAAAGTCATTT
ATTAAAGAACTGTAAGACAGATATGATTTTAAAATGTAATACAATTGCAATTTGCCTAAGGACATATATTTTGTGCTGTTATAGAAATGATTCC
AAAAGTTAAAGTGGGGAACTTTTTAAAAGAAATGGCAAGTTTTAAGGATTTAGAAGTTGGGTTGGGCTTGCCCAGCTTCTGTGAAGCCCTGGGT
TCAGTTCTCAGTACTGTCAGAGAAAAAAAAAAAATCCCAACAAACATAGAAAACAAATCTGCAAGTTGTAGTATCATTATCTTCTTGCTTTTTG
ATCTTTTATCAAGGGTTGCACTAAATGAGACTACTTAAAATACACCATGTCATTTAAATTGTAATTCTGCTATTTGAAGTTTCTAGGCAAAAAT
ATAGTTTAAAGGAGTCTGGGTACCTTATATCAGTTATAAAGACCAAATAGAGAAAAATTATGAAATAAATTTAAAATTCCCATTCCCTTTGAAA
TACTAATTTAAAAGCAACAAAACTGTTTAACTTATGATTATGTAATTTAGATCCTTTTTTTTGCAATATAGTACTGAAACCTAGGAAAGTATTC
ATATTGATTACCAAGCATTGAGATCATTTGTTCATTCCTCTCCGATGTCATATGTAAATAGGTATGTGTAATTGAATAGGTGGTGCTTATAAAT
GTAAAGTGTCGTAGATAATAATCTCCTGGGCAGAATTATATAAATGTTGTGAAAAGACAGGATTTTATATGATGATACTAATTATTGTTCAGGT
AAATTAGCAAGTTAAGACTTCCTAGCTAGCCATTAAGCTGTTTTTCATTGCCTTTTAAACAATACTGTGCTTTGTTCTAGCTTTTTGATAAGAT
TAATTATAGCAGGCAACATGGGAAAAAAATGTTCCTGATCAAAGATCTGCATATTTAAGCAGTCATTATTCAAACAATTGTATTCTATTTAAGT
TAGCTGTCTTGTGTCCATATCTAAAAATTTTCACTATTTCNNNNNNNNNNNNNNNNNNNNTGGAGGGAGGTGCACAGTTGCCTTGTAAGATACA

TACTATTTTACTAATGATTAAGATTGTCTTTGGTGAAATGTACTTTAAAATTTAGAAAGTTTGTATTTAGTCACATTTTTTTTCTTTAACATGA
TTCTGCTGTGTCACATAACAGGAAGTATAGGAAGGAATTATTTTTGTGGACCTTACTACTCACCAACTTTTTGTATGAATTTCAAGATAACCTT
TTCCCCCCCCCCAATAAAAGTGAACATAGCTGTGTGACAACTTACACTTTAATAATAGAGCTGGAAGTTAGGAGTGGCCAGCTAAAACAAATGA
CTTCCTTTTTTAAGAAGGAAGACTGTTCACAAATACAGATGTTTCAGAAACGCAGCACATGAAAAAGAGATAAAGGTGTTGTAATAGTAGGTGA
TGTAACAACAAGAATGAATGGAGAAAATGGTGGATACAGGGTATATGTGGTCTCTTTCTCAATTTTTTTGTTTCAATTTTCTCCCATATGGGTT
CTCTGCATGATTGTGTTTATGGGCACATGAGCTGAATATTGCAGAGGAAGATATATTTTCAAAAAAAGTGTTCCTTTGAAATTTGTACTTAATT
GGATCTCTTGTATTTTTAAGTCTGAAATCTTTTTTTTTTTTAAAGATTTATTTATTTATTATATGTAAGTACACTGTAGCTGTCTTCAGACACTC
CAGAAGAGGGAGTCAGATCTCATTACGGATGATTGTGAGCCACCATGTGGTTGCTGGGATTTGAACTTGGGACCTTTGGAAGAGCAGTCGGGTG
CTCTTACCCACTGAGCCATCTCACCAGCCCATCTGAAATCTTAATAGAGATGATTTGGCCCTGCCATGAATTTTTTATTTGAGGAAAGACTTTT
AAACATTACTTTTGTATTCTAGTAGGTAAAAACCTCTCAGGACTGGTTTTTAGTTTGTTGTTTGTTTTGTTTTTCCCGTATCCACAGCAGTGAT
ATCTTACTGCAAACCGTTTACACGGCTTTGGTTGGCCTTGTGATGAATACTCAGCAGAAAGTTCTGGATGGAGATGATATTTGGAAGTGTATGA
TTATTAGCTGCTTGCTCCTTTGCGTTCCAGGCAAAAGCTGTTTCCCTAGGATTTCATGAGAAAGAAGCACACTAGTCAGCTCTTCTCAACCATG
CTTACTATGACTGCCATTTCTGTGCTGCCTTGTAAATAACAAGGCTCAGATATGTTTTATATAAAGGGAAATCAAAGGCCATCTTTTGAATGTT
TTCTTTGTTTCAGTTGAATGAGGTTGGTTGGTTGGTTGGTTGGTTGGGTGACTGGGAGAGTGACAACTTGCCAGACATTTTTTGCCTGTC
TTATCCATAATTATGTCTATGCTTGGATCCGAGCATTGGGTTACTTCCCTGAACACTTTGCATTGTTGTTTTTTACTTCTTCATGTCTTAGGCAG
TTGGTCTTCAGAGTATTCAGATTAATTTGGGATGTTTCTGCAGAAATCTGTCTGCACTTTATTCTTGAAGTGTTTCATTTCTCCTCAGATCTCT
GTGAGGTTAGATAGTGGTTTGGCTTCTGATATACAGCCCCAGAACAAACTCTGTTCTAGGGACTTTGAATCTAAATATTCACCTTATATTCTTA
AGATAGTTGTATTTGTTTTAGGTTATAGGTTATGGCCATATCTGTTATTGAGGTTTTATGCTTAACAACTTTTTTCTTGTTACATAAATTTAAA
AGTTGATTTTATTTTGAAACTTGGTTGTAATTACACCTCTGCAGTTTAAAGACACCTATGACTTTTATTCTTTAAAAAAATAATCTCATGGAAG
AGTTTCACGCTATCATTCTTTCCCTAGCTCTTCTGTGGCTATGGACCCAGAAGACATACATCCATTTGGTAGTCAGATTTGTTAGTTCCTTGGA
TTATGACTGCCTCACTGCTATATTATTAAAAATTGTTACTGTACTGTGTATATATGTGTTTATGACAGGCATAGTGGTCCATTCCTTCAATCCC
AGCACTTGGAGGCAGAGGCAGGCAGAGCTCTGAATTCAAGGCCATTCTGCTTTATAAAGCAAGTTACAGGCCATCCAGACCATACAATGAGGCT
GTCTCAAAAAAAAAAAACAATAATAATAATCCTTTTCCTCAAAATTTTATATTATTTTGAAGTTTTAGCATCTCTAAAATGAACAGCAGTTCTC
TTTATGAAGAGTAAAGTTAAGAGAATCTGTGAGAAATACCTATGTGTGTGTTTTAATTGGTATTATAATTAATTATATGTAACATATTCTCATT
GTGTACTTAATTATGGCTTCTCATTCTAGCAATAGTATTTTTGTTGATATACCTATTTTATATATAATTGTGGCAATTGATCTATTTTTAATGT
TTCTAATGTGAAAGAAATTTCTAATTCCTTTTTAATCTTAAAATCTAATTTTTAATTTTTTTAATCTTAAAACTCATACTTGAGATTTTAAATA
GGCTCAGTGTTTTCAAATAGCATTCTCTTGCACCTAAATGCAAATGAAATCATAACTATAGTGCAAGCATTTTAGTTATAATTCAAAACTTATT
CTAGTAGATATTAGCAATTCAAAATTTATAAAAATATATTTAAAAAATATGGAGACCAATCCAGACTTTACACTTGTCCTGGTTAAAGAAAAAT
ACCTTAATTAAATTGTTTAGAAACAACTTTGAAAACATTTCTGTGCTTTTAAAACTCATAGTGACTTTCTGTAACCTTAGGTAAGAGTATTTGT
TTTCCCTAAGGTTCCTTGGTTTATAATTTTTCCTTCGTACTCTCCATAGAGGACTACAGTTTTTAATTTTTCATCTTCAAGAGGAATGGCATTG
TAAAACAGTACCAAGGAAGAACATGATTGGATCATTCTACTGACACATGATACCAATGATTTCCTAGCTAGGAGGGCTACAGTTAAATCAGAAT
ATGAACACATATGAGGAAGCATGAAGGTGTAGTTGTTCTGGTACCTACAAAGTACTGGGTTTTTTTTTTCCAGTTATTGAGGAATATAATAAGGA
GGGACTGATAATCATTAATATAGTCCTTTAATTTTTGAATCACTGACACAAAAGAGCTTTGGAATTTTAATTTTCACACAGATATTAATTTAGG
ACATTAATAAGTAATACAATTTCTGCCATTCAGTAACTTGAAGAAGTAAAACATGTAGTTTCATTTCAATAACAAAGCTGGGTATGGTGGTAGA
AATCTGTAGTCGTGGTATTTGGAAGATCGGAAGTTCAAGGAAAGCCTCAAGCTACACATTGAGTGAGGCCTGCGTAGATTACTTGAGAGCCTGT
CTCAAAAAAGGATGTAGCTCAATTGATAGAGTAGCTGCCCAGCCTTGAGGAGCCCTGATTGGACCCAGCATTGTACAAAGTCTGTGGTAGTGGA
GCCTATAATTTCAACACTAGGAAAGTGGAGGCCAGAGGCTTAGAAGTTCAAGATCAGCCTAGGCTACAAAACAAGTTAGAGGTTAGCCCTAGAT
AGATAAGACACTGTCTCAAAACATAAAGAACACAATAGTTAATTTTCCCTAAACTAATGGTTTTTTTGGGGGGGGGGTTGGTTTTGTTTTGTTT
TGTTTTGCTTTGTTTGGAATAATTGCTCTTAAAAATTACCTTGATTGTTTGTTTACAGGACGGAAAAGTTATTCCCAATAGGGAATGTAGACTA
TAAATTCTGAAATTTGTTTTTGAGTGAGACTTGTTATCAATGAAGAGTTCCTTTTTATTGTTGGTATATTTTTGATTTTTGTTTTTTGAGACA
GGGTTTCTCTGTGTATCCCTGGCTGTCCTGGAACTCTCTGTAGTCCAGGCTGGCCTCAAAAATCAGAGATCCACCTGCCTCTGCCTTCCCAGTG
CCAGGACTAAAGTTGTGCCCAACTATTTCCTGGCTCAATGGAGAATTTCTACAAGAAGAAAAATAAATATAAATGCATGAAATTACATGACAAT
ATTTAGGTAATTCTTATTACTTTAAGAAATTTTAAAAATACTTAGTCTTAGGTCCTTTGTATTTCATAGTTTTATAAATACACTCACTGGTTTA
AAGAAATGTGTAACTTGCTTTGAATAACCCTGCAATGTTTTTTATATTTCTCCTTTAAAAAAAATCCAGCTATCATTAATGATATCATTAATTA
TCAATTTCTCACCAGAACACCTTTTAAGTAGTGGGCTGGGATTTATTTGACCATTTAGTTCAACCATATAAGTTCTTTAAGATGCCACTGAAAA
AAATCATGTTGAATTTAACACATTTGAAGAGAAAGGTACATTCTCTTAAGTAGTCCTACAAGAATGCATAGGCATATAAGATATTTAAAATTAC
GATGTAATTTTTACATATACAGTGATACACACATTGTAAAATATTCATTTGCCTTATATTTCCAGTAATTACTATGGACTTTGTTGGATTAAAG
TAGTTTTCTCTTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTTTGTTGTTTATTTGTGTTCTTTTGTTTTGTTTCTGGTGGT
ACTGAGTTTGTACCCAGATCCTTCAGCCTGCTTTCTGTCATTTGAATAAGCAAATGAGTGATAGATTCAAATGCAAGAGGTCTAAATCAGAATG
AATAAAATTAAAGGTAGCAGCAATAATTTATTGAAAAACCACATGGCCACAATTGATTCTCCCCTTTGCCCCCACCCCCTGTGTGTCTCTCTCA
CAGGGACCTAGTACTCACTCATTAGGCTAGTCTGGCAAGCCAGTGACTGCCAAGGTTCCTCCTATCTCCTCTCCAGCACTGGCTTACAGGGATA
TGCTACCATGCCTGGCTGTTTTTATGGATGCTGGGGCTTGAACTCAGGATCTTGTACTTGAATGTCACGCATTTTTCTGACTGGGCTGTTTTCC
CAGACTCTTACCACTAGTGGTTTATTTCTCTTTGATGTTTAGATACCAAAATATGTCAGTTTTGTTTTTTTGAAATAATCTTTTTTCTTTATAAC
AGCTATATTTCAGACATATCCACATTTTTGCTCATATGACAATACTCTCCACTTACCTATAGTCTGATTTTTTTCAGTTCATTTATTTGTAATC
AACTGTAGTCCAAAATGTTAAAAGAAAAATTTCATAAAGTTTTAAATAACTTGTTTTAGTCATTTGTTGTAATTCTATTATATTGTTGTTAACC
TCTTATATGTGTGTATGTATGTATGTATGTGTGTGTATGTATGTATGTGTGTGTGTGTTTATAGGATAAAATGTATGTGCATGTATGTAAGTCGTCTT
AAACTGATTCTTTTCTTTTCTTTTTTTTTTTTTTAGTCTAACCACTACCATCAGAATTCTTTCTCTAGAAAGCTAATCTGAGCCTTTGATTTCCT
GAATAAAAGCATTGATTGCTTTTCACATATACAACAAAATCCATATTACTGGATGTGCTTGGACTTTTGGTTCTCTTTCTAAGAGTGGTAGTGC
ACTCTACTTCCATTGGTGGTTGATGTCATGGACAATTACTTCCCTTTTTCTAAAATGTCTTTCCACTCTTGTTTTTGTTACATTTTCCCTCTCTT
AAACTGTTAGATTCCTCTTTTGTTCTTATTATAACTTTCTGCAGAATTTTGTTAGTATTTCCCCCTTCTGTACACTAACATCATTGCGATGACT
AGTATAGTCATTGCTTGCTGTTGGGTATAGGGTCCTTCCGAGTAGCAGCTGTGATAGTGAGGGTGTCACTTTCTTCAAGAGAGCAACATCTGAA
GTAATAGTAGTACCATTTACTGATTACCACTTGTATGTGTGATACTTGGAAGAATTTAACACATATTTTACAGAGCATATTAATAATAAGATAT
TATTAAACACAGGGTCTTGCTAGACTCTTGCTGGATCTTATTTTGTTTTGATAGTAGAACTCAGGAGGCAAAAAAATCACTGCAAGTTCATGGT
CAATTGGGTCTACATATACATAGTAAATTCTACAAGGAAAAGAAAAGTGCCCAGTTTGGAATAGACCATGTCCCATGCTATACTAAAAAACTCA
TTGTTTCACCATTTCTGAAGCTTGTTTACATTCTACAGGATAAGCCTTAGTGAAATGGGTTTATGGTTTGGGGAATTTATACTCCTGAAGTAAA
ATCACATGGTTACCTGCCTTAACATGAAAACACAGTTATTTTATGGACCTTCTATTTCCATGACTTGGCTAAAGGGTGAAGATGCATATATTTT
TAAAGTTTTATTGACATATACTTAAAACTCATTATAATATAATAATTATATATAAACTTTTTTTTTAGTTTTTTTTTTTTTTTGATATGAGATC
TCATTATGTAGCCCTGCTGGCCTGGAACTTGCTATATAGTTAAGACTGGTCTTGAACTCACAGAGATCAGCCTACCTCTATTAAGGCCTGGCCC
TCCATACTTGGAAATACCATCCTTCAAACTTTCTCATCTACCAAGTTTAGACAAATAGTGATCACCTTTTTTTTTCATTATAGATTAGCTTACAT
TTCTGGAGTTTCATGTAAATGGATCATATAGTATGTGCTTCTTTTACTCAACACACTTACTTTGGTAGTTATATTTATAGTGTTTTATCCTAAG
GGTACGTATGTTGAATTACATTTGTTATGGAAGGTAAATGACTTTGTTATCTCCACATTATGTGTTACATTTTGGAGAAGATTTAGATGGGACC
GATTTGAAAGTTCAGTTGAGCTTAAAGTCAGTATACTGTTTTAGTATATTGTGTACAGATCCTTTGATAATCCAGACTCGCCTATGCAAGGACG
TAAGTCCACTTTAATTTTTAATGAGTGTTCTTTCATGCAGTGATTGTCTAATTTAAAATAAAGCAGTTAAGTACATTTTACTCAGTTTTGGAAT

ATAATGTACTTCTGAATACTATTTTCTTCACCTTTCTTGGGAAATGTTGGAAGAAAAACTTTATAATTGCCCTCATGTGGACAGGTAACTCTAA
GAGTTGTTATCTCACAACTTAATACACTCATTAGGTATAGATATTAAGCAATAAAGAACTCACCAGTTATGTGTTAATACTACATAGGAATTTA
GTTTGTATAAGGAAATGTTATCTTCATCATTTAATCTTTGAAGATTACATTTTAACTTTGTTATTTAATGTTGGGAAGGAAAAAGATCTTTGTT
TTTTTTAAAAAAAAATATATCCATTAATGTCTATTATATTACTATTCTAATCTCATTGCACTGTTCTTTTTAAAATTTTCAGGTGGATATAATC
CATACGTAGAAATAATTGAACAGCCAAGGCAGAGGGGAATGCGGTTTAGATACAAGTGTGAAGGGCGATCAGCAGGTAGCATCCCAGGGGAGCG
CAGCACAGACAACAACCGGACATACCCGTCTGTCCAGGTAATGGCCTTTCTTCAGTATCTCACTTTTAAGGGTTCAGTTTGTTTTACTGTTTTC
TAGACAGGGTTTCTCTGTGTGGTCCTGGCTGTCCTGGAACTCATTCTGTATAGACAAGACTGGTCAGAGATCTCCCTGCCTCTGCCTCCCAAGT
TAAGGGTGTGCATTACCACCACCTGGCAGAAGACTCAGTTTAACAGTCTTTTGCAACCCCCTTTCTTCTTTGCATTTGCTCTCCAATAGCTAGA
TGTGTAGGGTTATCTCTTAAAGGAATCTTTCCTGCTTTTAAAGTTCATGTAGTAATATAACTGCAGTGATTCACAGTGCTTACTGTACACTGAC
AGCTTTGGATCGGATCCCTCTTGTAACACAAAGCATTTAATGAGGAAAAAGCATTCTGTACGTATACTGGTCAAGGGAATTATTGTATAAGTTA
AAGATGGATTTGGAACATTTTTTGACCTTTTAGTATAGAGGGTATTAATAACTTTCCCCTTCTTTTTTTCATACCTTTATGCTTACCTCCCAAA
CTCTGAGTTATTAACATCATTTAAAGTATCGTTCCTTTTCTGTGTGTGTAAAGTGCTCTTTTGTGTGTGTGAATGTGGACACTCGGGTACCTTA
GTGTCCATGTGGGAGTCAGGACAGCATTCGGCAGGTTGGCGTCTTATTCTTGTGTTTTGAGACAGGGTGTCTTTGCTGTTTTTCCACTCTATCT
ATACACCTGGTCCACTAGTTTCCAGGGTTCTTCTCTTTCTGACGCTCATCTCCTGATAGGAGTGCTGCTACTACAGGCTCAAGCTACTGGTCTC
TTTATCTTTATTGACAGTACTAGGGATTGAACCTAGAATATTAGGAATGATAAACAAGTGTTCTACCACTGTTATATATCCCTAGCCTGTGAAA
ACAGTGTTTTTGGTTGAAAGTGAATTTAGCAAATATACCATTTTTATAATGTATGTTTATATTTGATATTTATAAATTACATTTCCTTTTAATT
TTTATAATCTATTTATTCATTTATTCATGTTTAGTGTTTTCAAACAAAATTGTTAGCCCCAAACTTGTAGTGATCTTGCCTCTTGCCTCTGTTT
CTTCATACTGGAATTACAGACATGTGCAATCATGCCTAGCTAATTTTTATCGTTTAAGTGCCAATTAAAATCCTTAATAGCGAGTTGGTCTGGT
AGTACATGACAAGCATTGGGAAGCATAAACAGGTAGATATTGAGTTGTGGACTACTTACCTATATAAGAAGTTCCAGGCCAGACTGGGCTATTT
AAACAAGACCTTGTCTCTACAAACAAATGAAAACAAAGTTAATAGAAGTCAGGGGCAGTGTCACCCATCAAAATCTCATCTACTTGGGAGGCTG
TGGTGGGTAGATGCCTTGGGCCTAGAAACTTGTATGGATAAAAGGAAGACTATCTCAAAATGGAGTTTGAAATGTCCTTAATTTTTCACCAATA
GATCTGAAATTACTGTTTTGTAACTAGCTTATTATTTACAGTTTATTTTATTGAGCCTAAGAAGAATTACAAAATTGCCAAGTTATATATAGAT
TCCCAAATTTCTGTTTTTATATTTTAACTGATACAGATGCTTAAATTGTACATTTTAATGGGATGTCATGTAATATATAATACATGTATACAT
CATGTAATGCTTCAATCAAGTTAAACATACTTAGCTCCTCAAACATTTATCATTCCTTGTGGAAACATTCAAAGTCCTCCTAGTTTTTTGAAAT
ATATAGTGTATTTGTACAATAATATGCCTAAAGGCTTTTGTCCTATCTACTGTACGAACTTAATTTTAAGAAAATATTTTATATATGCACACAC
ATACATATATATATATGTATATGAATGTGTGAGTATGTGTGTACATGTGTGTGCACGCATAGGCCCATGGAGGCCAGAAGAGAGTATCAGATCC
CTTGAAGCTGGAGTTACAGGCAATTGTGAACTGTGTACCATGAATTCTGCGGTCTGAACTCTGGTCCTCTGGAAGATCAGCAAGTGCTTTTAGC
TGCTGAGCTATCACTCCAGGCCCATAACTTCATGTTTTTAAATCACACTATTTGCAATAATATTGCTTTGAATTATCTAAATTCTTTCTAAGTG
TTCAAAGACATACAATGAAAAGTTAATTTAAAATTCTTTTTTTCCAACATTGTGAGTCATTTTTGGCTTCTCTTAAAAAAATTGTGTTCCTAAA
GCATTCCAGAGCAGTGTGTCTTAACTCCTTACTCCCCTACTCCAGTTCATCCTGGTAGACCTGGAAGTAACACATGCAGCTCAGAGCACAGTTT
GCTGCTGTCTACAGGGTGCAGCCAGACACACAACCAGTTCTGGAGATGGTTCTTCAGATAAATTTTGAGGAGATGTTTCAGATACTTTTGAAAG
AAGGTGCCTCTGAAGAGGCAGGTCTTGCTCTCACTCCTTTGATGGTCACACCCTCCACCAAGATCCCAGCTTTCCCTTCACCTGTGGCGTGGGT
ACAGTCAGGGATGAATTTCAAAACCTGCTTCTATTTTTACTTCCTTTACCACAAAGTTTTTTGTTGGCTATGTGGTCTTAGAGGACTCAGGCTT
TTTTTTTTTTTTTTTTTTTTGACACTTCTCTCTCTCTCTCTCTGTCTCTCTGTCTCTCTCTCTGTCTCTCTCTCTCTCTCTCTGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGTGTTCTCTCCTTATGCTACTGTGAGATACAGAGATTGAAGTTGTTAGTGGCAAATGCCTTT
ACCTGCCGCACCATCTTACCAGCCCTTAGTTCTTCTTAAATCATCTTACTTTATTCATCAAAATTATATGTACAGTTTGTATTTTTTCTGTCCC
AACAAGTCTTTGCTGTAGTAATATATAATCAGGGGTTTCTACTCTGCCTTGGATCATTTAGTTCCCAAATTAAAAACTTAAAACCTTTATATTT
ATGTTAAGCCTTTAAAGCACTAGAGCTGGGCAGATATCTACCCTCTAAGTTATTAGTATCTACTTTCTGAGTTACAACTTGACATGCTATGCCT
GGGCCACTCTTACTGCAATTGGCCAGCCCTTATGGCCATGCTTTCATGATTCACCTACCCCATGGTATCTTTTCCTCTCTCCACCTTCTCCTTC
TTCCCTCATGGTCTCCTGCCTCAGTCCCCACGCCCAGGAACCAAAACTTTACCCATCTCTCTTCTGCCCAGCTCTAGGCTATCTGCATCTTTAT
TGACCAATCAGGGATAAGTTGGGGGTCAAGGTTATATTTGGTGTACATGAGGATCTTCCATCTCCTGAAGCAACCAGGGCCAGTTTTTAGCATT
ACAATACATAGCAACAGACCAAACCTCAACAGTTTTAAGTTAAGGAGCAAGTTTTGTACAAAAAAGGCTGGTAAATATAAGAACTATTTATTTT
GGATTTTTGAGGCAGGGTCTCTTTGTGTTGCCCTGGCTGTCCTGGAACTCACTCTGTAGACCAGGCTGGCCTTGAACTCACAGAGATCTGTCTG
CCTCTGCCTCCCAAACTCTGGGATTAAAAGTGCACCATAATGCCTGGCCTGCTTACCTGCTTTAAAAGGAAAATAAACAGATGATAAAGCTAGA
TAAAATAAGGGCAGAAAGAAACATTTTAGGAATTGAAAGATAAGTTTTCCCAGCTGATATATTCTCTGAAAACTTTAATCTCAAGTAAACTGCT
GACTATTTGAATTTTATTGCATGCTGACTACATTATATAAATTGAACTTAAATTAATGGATCAATTCTTTTTATTTGTTTGCTTTTTAAAAGGG
GCATTATTGTAGGTAGCCCTGGCTGGCCTTGAACTTGTGCTGATCCTGCTCAGCCTTCCAAATGCTGGGGCTATAGGCATATGCTACAATACCT
ACCTATTGTTAACAAGATATACATACAGACTGTATATTTAATTTCCCTTTTCAGATTATGAACTACTATGGAAAAGGAAAAATAAGAATTACAT
TAGTAACAAAGAATGATCCATATAAGCCTCATCCTCATGATTTAGTTGGAAAAGATTGCAGAGATGGATACTATGAAGCAGAATTTGGACCAGA
ACGCAGACCTTTGTTGTAAGTATACAGTGACAGAAACCTTCAGCAATAGGACAAAGATATAATTTTAGTTTATAGCAAAATAATTCTGTATTTA
ACTTACTGTAACATGTACATTACATTTTAATTACACTTTGTTACCTGTGGGGAGGACACACGTGCTTGGGGTGCATGTGGAGGTCAGAGTTGGC
TCAGCTGGTGGAGTCGGTTCTCTTCTCCACCACGTGGACCCTGAGGATTAAACTCAGGTTGCCAGACACCTTTACCCACTGAGCCATCTCACCA
ACCTGATATTAAAATTTTTGTTCTTACCACTTGCATTCATCCTTTATTAATAGGTACGCACATGATAGTTAGTAGAAATTCTTCCTAATGGCAC
CTAGACTGGGCTCAAACTTACTATGTAGAATGTCTTTGTACTTACCTTCCTGCCTCCAACTCCCAAGTCCTGACATTAGAGGTAACACCACCCT
GTCTGGCTCAGTAGGAGTATTTTTTATGTTATTATTTTGTTTTCCTTTGTTGTTCTTTTGTTTTTTTCAAAACAATTTCTCTGTGTAGCCCTCA
CTGTCTTGGAACTTGCTCTGTACACCAGGCTGGCCTCAAACTCAACCTGCCTCTGCCTCCCCAGTGCTGGGACTAAAGGCGTGCCCTACCTCTG
CCTGGCTTCCCCCCCCCCCCTTAAGACAGAGTTTCCTGTAGGCTAGGGTTGCCTTCCAGAGGATTCAGATACTGAGAATTAGAGGTGTGAGATC
ATAGCCTTAAGACCCTGCCTCCAGTTTATGAGGATTGAACGTAAGACTTTATACATGTTAGGCTAGAAATCTGCCAACATATCCACCACTTCTT
ATTTTTTAACTTTTGACTGTTTTGAGACAGAATCTCACTGTGTAGCTCAGCTTAGCTTCCAACGTGTAGTGATCCTCCTTCCTCAGCCTCCAGA
GCACCGGGGTTATAAGTAAGCATGCATTACCATGTCTGGATAGGTATACCTCTTTATATTGTTGAAAGTAAGAAAACATATGTTGTGATTAATC
TCTTCGTTCTGTATGTTCTACAAAATAATTGTGACTATCCTGTAATACACAGACATAATCTCCAAAAAGTTCTTCTTATTAATAGTAATGACAC
AAAACACAAAAAGCCCTAGAAGTACACACTTGACAAGAAATCTTAACGCCTGCATGTCTTGATCTTCCAGCAGTGTTTCAAACTTTCAGTCAGT
CATTTGTGTCTTGAATACTCTTTCTTGATTTCTGTGAAGACAAACTTGTTGTAACCTGTAGTTTTCTGGCTGTTGTTCGATGGCCCTGGTTTT
TATCTTTTGTCCCACTCTAGTGATATATATATATATATTAGTTGTTGGGGTTTTTGTTTGTTTGTTCGTTTTTGAAACAGGGTTTCCTCTGTAT
AGCCCTAGATGTCCTGGAACTTACTCTTTAGACCAAGTTGGTCTTGAACTCAGAGATCTACCTGCCTTTGCCTCCCAAGTACTAGGTCTAAAGG
TGTATGCCTCCACTGTCCAGCTTAGTGCCTCTGATCTTATACTGCAGTCAGGAGAGTGTTCCTTCAGTCTCTGTTCACAGTGTTCTTTCAGAGA
GATGTGATTTACTTAGTTCACAAGACTTGAGCTAGCAGGGTTGTTGTTTGTTTGTTTTAAATTCTAGTAGTATCATAGGCCCTTGTAAGC
CCTTTGGACTCTTATGTCCTACTCAGTGGCAGGAAAACATCCACAAAAGATATGTGAGTGAATGAACATGCATGTGTTCCAATACAAACTTTAT
TTGCAAAATGAGCAGTATGCTGAATTTGGCCCATGATTTAGAGTTTGCCAACCGTCCATTCCAGACACTAAGTTCCATGAAGAGAGGAAAATGT
ATCTCCATTCCCTTTGGGAGTTTTAGTGCACAATTGGAACTCCAGAACGTGTTGAATGACTATGAAAAAGTACATTGAGTGAATGATCAGACGC
CCCATGATTCTTAGCTTCCTTAAGTCAGTGCTTTCGCCTCTTTCCCTTCTTTCCTTTCTTTAGTACTGGGCTGATTCCAGGGTATGATGTGCTA
GACAGGTACCACACTACTGAGCTAACCCTCTGTGCATACCCGATGAGGTTATTCAGATGAAAGAAAACCAAGTCGTGTATGTTAGGGTGAAGAA
TTATTTTGTTGCAGGATTTCAAGAAAGGATTAAGAATTGACAATTTATTTTTTGTTATTGGAGGAGGAGGAGGAAGGAAGTGGCAAAGTTATTT

TAGGTGCTAATGAAGTCACAGGTGTGAGTGCCAAGCATGAAGCATGAACATACAGTAATAGGAACATGGAGTAAGGCAAACCAGGCAGCCTCTG
GCTGCAAGTGCCAAGTGAAGTTTGAAGAAACAGTGATGTTCTTATCATTTGAGTTTTGCTTCCTTATTCACACCCACCCATCTCAGATGATGTC
ATGGTTTTTCCATGTGGGAACAAGTATGACTGGATGGTGGTAGGGGAGTTCCCCCATCATCATTTGTATTACACATATGCAAATGAGTAATATT
TGTAGCTATTGAGAAGTTTTCCATAAATGACCCTTTGAAACTGTTGCTAAATATTGTTAGTATTAACCCTCTCTAATAAAAATACTTCATTTCC
TATATTGTAATCATATAACATGGCATAAAGTGTATTCTGTTGTCAATGAAAAAAATTGAGGCCAGGCTAAAGTACACAGCAAGACCTTGTACAG
CTGTGTTTTCATATATTTCATGGTACATTTTTTAGTGATGAGCTAGGCAGGCATCATAACTGAGCAGAGGGAATCAAATATAAGAAGGCTAGCC
CGGTTCCTCATCAGAGTGGATAACTGTGTGTAAGTGGGGTTACAGGTGCTCAGCTCTAACAGATTGTCTCTGTGCCCAAGGAGTGCTAGCAAAC
CTCTGAAATGTTCATGAAACCAGAAGAGCTGATGCTCAGCTCTGATCACCTCACTCTTAAGTTTGGTAATGTATATATATAATTTTTAAAATGC
ACTAGCCACTTCTATACATTTTTTAAAAATACATAGGTTAACACTGCTATAAGTTTAGCAAAACATACCTGCATATTTCAGGGTCCAGCTGTCT
TTGTACCTTTTGATACACCAATTTTAGTAAATTGATCATGAGTTTGTTTGGAAGGTGAAACTTTGCTTCTTGATGGTTTTGTTTGTTTTACTTG
TAATGTTTATCTACCTTGGTATATTTGACTAAGCCTATTGGCAAAATGTAATTATATAAAATAGTATATTTGACAGTTATATAATACTCTATATAC
TTTTTTAGTTTGGGACAGGTTTTCCCATAATCCAGGGTAGCCTAAAAGTTGCTAGGTAACCAAGGTACCACTTGCCTCCATCTCCTAGTGCTAG
AATTAAAGGCATGTCACCATGTGCTCTATTTTTCTATTAACAATTCTCTTAGGCAGGCCTATGTTTGTTTCTCTTGTATCTTCTTTATTATCAC
AGTCAGAAACAGGATCTGTGACCTAGAGGTTGGTGTGGCAGAGAGCTGACTTTCTGAGTATGTTTGATTTTTGTCATACTTTTGTTTAACTATG
ATGTGATTTTGAAAGTTTCATTTTTTGCTTTTAGTTTTCAAAATTTGGGTATTCGGTGTGTAAAGAAAAAGGAAGTGAAAGAAGCTATTATTTT
AAGGATTAGTGCAGGAATCAATCCTTTCAATGGTAAGTGCTTTGTTATAATTTCTACTATTTGTATTATCAGTGGACTGTGATTTCTATTTATA
GTATAATTCTACTTGTTGACTTGTATTTAAGTGGAAGCCTCCCCTCCCTTGTTGTTTATTTTGACGTGAGGTCTTTATATGTAGCTCTGGCTGC
TCTGTTACTCACTACGTACTCCAGATTGGCCATGAACTCCTAGCAATCCATCCTCATTGGCCCCCAGGTTCTGGGATTGTAGATGTGAGCCACC
ATGCTCAGCTAAAACAGAAAACCCCAAAACTGAAACCTTCTCCAAGTGTTTTTGATTCTTTCAATATGCTTCTTCTTTATGCCAGTCTACCAAC
CATCAGGATCACCCTTCTTTCTGAGTGTTGGATGGACACTATGTTATAAAGTATTTTCCTCCTTTACCACCACTGTTATTTAATAGTGATCTCA
TACAGCCCAGCCAGCTTGAATTGCTGCTTTGCTGAGGCCGGCCTTGGGCTCTTGATCTTCACCTTCTAAGTTGTCATTACAGGCAAGAGCTCCA
TACCTGGCCACTCAAAATATTTTTTAGACTTCTCTTGATTTTTTGTATGAATGTTTTGCTTGCATGTATGTATGTTGTACCACAAATATAGCTGG
AGGTCAGATCTCTCAGAACTTGAGTTGCAAATGTATGTCACATCTGCAAGATGTGACTTGGAATTAAACCCAGGTCCTCTGCAAGAACAACAAG
TACTCTTAGGTACTAAGGCATCTCTTCAGCCCTTCAAAATATTTTTGTAGTCTGTTTTTGTATTGGTAAAATAAATCTTACTGTTTAGTACATT
TTATTGTGAATAGCACTTACTAAGTGGTTTGTTTTTATTTTATTGTTTTGGGGACAAAGCCTTACCACATTAAAAAAGGCTAATTTCAGATGCC
TTGTCCTCCTATCTCAAGTCTCCCTCCTGCTGGGGTTATAGACACATACCACCATTTATAGTTTAAGCATTTGATGTTTGTTGTTGTTTTTGTT
TCTGTTTCTGCTTTTGAGACAGGGTCTCATGTATTCTGCACTGGTCTCAAACTCACTATGTAGCCAAGAATGACCTTGAATTTTCTGATCCCCT
GCTCCACCTCCCAGTACTGGGATCCTTCACATTCATCATAACACTTGGCTTATGAATCATTGGAGATTAAACTCAAGGTTTTGTGTGTGCTAAA
GAAGCACTCTGCCAAATGAGCTGCTTCCTTGGCCTTTATGACACTCTTGGCTATGGCATCTGGTACCTTTAGCATTCTATATTGTTAAGTAGGT
AAATGATTCCTAAGTGTATGCAGTTATTCTATGTACCTATTTTAGTAGTTTTGTTTGCCTAGGCATGGTAGAACACACGTGTAATTCAAGCTAC
TTGAGATTGCATCCTTAAACTTACTGTGTAGCTACGGGTAACCTTGAATTCTGTTTGAGCCTTTAGTCATTTGAAGGAAGGTAATAACCAATTG
TATGTATCCTATCTTCAGTGTTTAGTGAAAATACAAAGATGTAGCAGATACACCCATTCTGAGTGCATAAGACTTTGCCTGATAGGATAGAAGT
GGCACTTGTAGGTGACAGTCATGTAAGATTAAAACCTAAGTACAGGGGGCTGGTGAGATGGCTCAGCGGTTAAGAGCACTGACTGATCTTCCCG
GGGTCCTGAGTTCAAATCCCAGCAACCACATGGTGGCTCACAACCATCTGTAATGAGATCTGAAGACAGCTAAAGTGTACTTACATATAATAAA
TAAATAAAATCTTAAAAAAAAAAAAAACCCTAAGTACAGATCTGGTGCTGCGCTGACTGAGAGAGAAGGGATATTTTTTGTATTCCAGGATAAAG
TTTAGGCTTTATAGAAAATTAGTTCCGGGTAGGGAATATGACCAAGTAAGTGAAGTAAGCATGAAGATCTGAGTTCAATCTCAGCATCCCTTTG
ACAAGAGCTAGGTATTCTCAACACCAGGGAGGTAGCTCCAGGTGGAGTTCTGGAGCTGGCAAGGCTCAGTGGGAGACCCTGTCTCAAAAATACT
TAGTGCTGATACTTAGTGCTGATCTCTACGTCCTCACGTATGCTTATCTGTACATACTGTATACACACACAAAGCAGTTATTAATTGAATTTTC
AGCTTTTACTCTGATCCAGATATCCCTTGTGATTCCTGGTTGTCAGTAGTTTTTAACCATGTCGTACAGAGATGGGAATAATATTGATAAAATA
AAAACTGGTTTTCTACATACTGAAAAAATTCAAAGCAAAATATCCCAAATTATAATCTTTTGTGAAAATAGAATTTCTTGTCTTTGATAGAATC
ATGGGATGCTAAATACATTTATATTTTAGTTTATTAGCCATTTTATTTTTCTTTAATAAATCATTTTACTACTTTAAACTCTTATACTTGAATA
AATCCACCCAGATACAGTCTTTCATGTAACCTCAAGGCAAAGAAACATTTCCCCCACTCCCAAATTGTCTTTGATCTTTCTCAATCATTTCTTT
CCTTCCAGCTCTTGCCCCAGTCAACAGCTCATCTCCTTTTTGTCAGCACACCTAATTTTTCTAGGGTTTTATAGAAATGGAAGTATTCTTTTAT
ATTCTATATTCTTTCCTGCCTGGCTCCACTTGGTCTTACTGGTTTTGCAGTGTATATTGTTGGAAAATATAACCATAGTTTGTTCTTTATTGCT
GAGTATTTGTTCATTGTATGACTATACTACAACTTGTTTCTATTAACAGAAATTTATTTGTAAACTGTCAGGAGCACCTAGCCATTCATTGTTT
TTGTCTGTCTGTCTTTCTGTCTGTCTGTTTTGTTTTAATATTGATTACTCACTTTGAAATGAAGACACTGAAACCTTGAGCTCTTAAATTTATA
TTGCTATTAAATGAGACTTTCAGTAGTCCTGCACTCTTACTGCCTGTCCTGGTCCCAGCAACTGTGCTACTGTGATACAGGTGCTGCCCTCTTA
GCATTTTGAACCTCATATTTTCCCCTTGAACATGGTATGAGGGTGCGTACCTAGGTATGGAGGCAAAAGGACTGCCTCAGATGTTTGCCTCCAA
CATTTTCTGCCTCCCTTTTTTGAACTGGGGTTCTCATCTGCGGGCTTAGATGGCGACCAGTACCCTGCTTCTGCCTTCCTGGCACTGAGAATAT
TATCAGGAGCCTGACTACTACTGCACCTGGCTTCATTGCATGGGTTGGAGGGTTGAGCTCATACTTGCAAGGAAAGTACTTTACCGACTGAATC
ATCTCTCTCAGCCCCATTTTGACCTTTCTAGTTGTACAAGTATGTTTTCATAGACTCAAATGTTAGGCTTAAGAATGCTGATACTGGAATAAAT
TTCAGTGTTAGCATAACTCCTGAGACTATTTGACTGGCTTTGTGTGAGATATGTTTTTTTAAATAAGTTATCACCTGTAAGACTGGGGAATTTA
GCTAATTATTTTTCATATTTAATCTTTTAATTTAATACTAGTGTCCTTTCCAAGTAAATTTTTCATGTAATTTAATGAATTTTATGTTTTTAA
AATATGGCATATATTAGTAACAATTTATTGCTATAGGCTTAAAATATTTCAAAACGCAGCAATATTTTGTTTTAGAAATGGGCTTCTTTTCAAA
TATCAATGCAAAGAGACTATTGTACTATATTCTGTGGCAAGTTTTTGTATTTTTTTTTCAGAACTGTAAAAATGCCCTGGTGTGCAGTTTGTTT
TTAAGCTGACTTGACTTACACATAAAGTTATATCATCTGATATCTTTTTCACATTGCATCTCTAAAATGCTGGTGCAATATGTTAATAAGTTAA
TATGACCCTCTGCTTCAAATTTCCATGCTATTATTTAGCTGTAAAATTTATTATTTAGACAAATAATGTCATCTCCTTAAAATCAATGTCTTAC
CTATAAGAACAGGGATGATGGTGATTTTTGCTAGATTTAGAACGTAATTACAGACTGGGCCAAGTGTTATGTTAAATGAAGTATGCATGTTTCC
CATTGTCTATAACTTGTATCCATATTTAAGATTTTTGATTTTGGTGGTCAGTTTATGATTCTGCCCTTAAGTTCCTAGTCCCTGGTATAGTCTC
TCTCTGAGCATGGCTACAGTCTGTTATATACTGTTAAAATAGTAACTGTACAATAATGAAAACTGTTCTTGAGATTGAACCCCATCTTAGTTTTC
TGCAGACGTAGGTGCGGGTTAAGGTTATTGGATGTTGTGGGCAGAGAGAAAGACAGCAGGATTTTGGTAATAATAAAGTATTAGTATTATGTGT
TCTACATTCTAAATCTGAGATTGTACTGTTCAGTCCCTGAACAGCAGCTGCTGGACATTGAAGACTGCGACCTCAATGTGGTGAGGCTGTGTTT
TCAAGTTTTCCTTCCTGATGAACATGGTAACTTCACAACTGCTCTGCCTCCCATTGTTTCTAACCCAATTTATGACAACCGTAAGTGCTTTAAT
TTTCTTATGTCTGTACTTTTAGCTTGTTTCATTTCCTTAACTGCTGAAAAGTTTAAAGGATTTTTGCAATTTGAAAAGGAGTATGTTAGGTGGG
ATTGGTGGTTTGTGCATATAATTCTAGCAACCAGAAGGCTGAGGCAGGAGGATAAAGTTTGAAGGCATAATGGACTACACATTGAGACCTTGTC
TCAAGAAACAAGAAGAAGCCAGGGGTGGCGGTGCATGTCTTTAATCCCAGTACTCAGAGATAGAGATAGGCAGATCCCTGTGGGTTCAAGGCCA
TCCTTGTCTACCCTGTGATTTCCAGGATTACATAAAAAGATCCTGTCTCAGACAAAAAACAAACAAATAAACAAAGCACTGTTCATTATAGAAA
AAAAAACCCTCAAGCATATATACATATATAAGAAAGAAGAGCAAATCACCATTAGTCTCCTCCTAAATGGCCACTGTCCTCAAGCATACACTGT
AGTCCCTTTGAATAAGCACAGACACCACCATCTTCCTCATCAACCCCATTCACCCACTAAGTTTGGCAACTTAAAAAAAAAGATCAATGATATT
TTAAAAAAAAACAACTTTTTTTCAAGCCAGTAGTGGTAGTGCATGCCTATAATAATAGCACTTGGGAAGTCCAAGCAGGCAGATCAGGAGTTAA
GTTTTCCTTTACCATGTTTAAAAATGGGAATTCAAGACCCTACTGTGTCACATGGGATCCTTCCTCAATAGATAGAGACAGAAAATCCCAGAAC
TTTTCTCTTTGCAATGTATCTTGAACCTTTTTCAATCACTTTTTCTTTTCTTTTTCTTTTTAAACACTGCTGGCATTTAACCAGGACATTGTA
CAGAGCTATACCCCAAACCCCACTTAGGTTTCCAGTAGCTGAATATTTATCTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCC

SAGRES DISCOVERY 02-15

TTCCTTCCTTCTTCCTTCCTTCTTCTTCCTTTCTTTGTGTTGCTTTATACTTTTTTCTTTTTCTTTTTTCTCAAGAAAGGGTTTCTCTGTGTAT
CAGTCCTGGTTGTCCTAAACTCACTGTAGATCAGGCTGGCCTTGAACCACAGAGATCCACCTGCCTCTACTTTTGCCTCTGCCTCCCAAGTGCT
GGTATTAAAGGCCAGTGTCACCTTGTTCAGAAGCATATTTTTTTATATGTCTATATATTAATTTTAAGAAATCATTAATATGGAGTATAAAAAA
TAAAAAAGATGACTTTTAAGAATCATATTTAAGAATATATTTGGTTTGTTTCCTTTTGTAAGCAAATTATACCAAAGTAGATATATTTATGTGT
GCATTTAAAGACAACTCTCTATGGATCATGTATCTGCCTGTTTATATGTGTGTGGTCAGAAGACAACTTACAGGACTTGGCTGTGCTCTTTCAT
CATGTGTTTCCCTGAGATCAAACTCAAGTTGTCAGGCTTTGCTGCCTTAACTATGTCACTGGCTCCTGAATGTTTATCTCTTATGCAAATATTT
CTGACATTTATTTTTAAAAGAATAACTTTTGACAGATACCTACATCAAAGGATATAGAAGTTTATTTGAAAAGATTTTAAAACTTTCCTCCAAA
ATATTTTGTGTATATACACACACATTCACCAGTAGTATATGCCACACCTGATTTGCATGTAGAATACTGGACCATAGGAGTATAGAGGTAGATT
ATTCTTAACAGAGAGCCTTGGGTACCTTTAAGAACTATCATAATAATATTCGGAAGATAAATGAGAACTGCATTGCCCTAGGGATATAGCCAGT
GATATAAAATGACTCATTTATTCACAGTGTGCCTTTACCAAGAAACAGGAGGAAGAGGCAAGAACTGCTCAAGTTAAAAGGCCAACTAGCCTGG
TGTACATAGCCATAAGTAACAAAGAGACTGTCTCAAAAGAGGTAGGAGTTGAGGGCTAGCAAGCACCTGAAGTTGTCCTCTGACCTCTTCCACA
CATATGCTGTGACATATGCTCACCTGGGCCTACATATAACCACACTCAGACATACTATAGTTATAATACATACATAACCACACTCAGACATACC
TCAGCATAGCTATAATACACACATAACTACACTCAGACATACCTCAGCATAGCTATAATACACACATAACTACACTCAGACATACCACAACATA
GCTATAATACACACAAAAAACATTTAGTTTCCTTTATCTATACATTAAAATTTTATCTATTCTCTAAATTATTTTCCTGAAATTCTTCCCCTTG
TACTTGTACTGGCTAGTTTTATGTCAACTGACACAAACTAGAGTCATCAGAGAGGGAACCTCAATTGAGAAATTCTCCTTGGAAGATCTGGATA
TAGGAAAACCTGTGGGGCATGTTCTTAATTAGTGACTCACAGGGGAGGGCCAAGTCCATGGTGGGTAGGGCCGCCCCTGGGCTGGTAGTTCTGG
GTTCTGTAAGAAAGCAGGCTGAGCAAGCCATGAAGAGCACTCCACTAAACAGCACCCATCCAGGGCCTCTGGATCGGTTCCGGCCTCCAGATTC
CTGCCCTCACTGCTCGTTTTCTCTTTTGATTTATTTGTTTTATTTATATCAGTACACAGTTGCTCTTTTCAGACATGCCAAAAAAAAAAAAAAA
TCATCCCGTTACAGATGATTGTAAACCATCATGTGGTCACTGGGAATTGAACTCAGGACCTATGGAAGAGCATCTGAACCCTCTCTCCCATCCA
CCCTCACTGCTTCTGATGATGCACTGTTACATGGAACTATGAGGGAAATAACCCTTTTCTCCTCAGGCGACTTTTGGTCATGGTGTTTCATCAC
AACAACTAACATTAACTAAGACAATGCCGAGACCCAATGTTTTTTTTTTTTAATCCTTTGCATTTAGGTGCCCCAAATACTGCAGAATTAAGGAT
CTGCCGTGTGAACAAGAACTGTGGAAGTGTCAGGGGAGGAGATGAAATATTTCTGCTTTGTGACAAAGTTCAGAAAGGTATTTATCAGCTTTGT
TTAATTGAATTAGTAGTACATATTTGATTAATATATGTATTGTACCGTTTCCCCATTGTTATTATTCTTTGGCATCTTATTCACTAGATGATAT
AGAAGTTCGTTTTGTGTTGAATGACTGGGAAGCCAGAGGTGTTTTTTCACAAGCTGATGTACACCGCCAAGTAGCCATTGTTTTCAAGACTCCT
CCGTATTGCAAAGCTATACTGGAGCCTGTGACAGTGAAAATGCAGCTGCGGAGGCCTTCTGACCAGGAAGTTAGTGAGTCTATGGATTTCAGAT
ACCTGCCAGATGAAAAAGGTATGGCAAGTTGGGAGTAATGTGTATACGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCTCACTAGAAACAG
CTATGTAGCTACAGATGGATCTTAGCTGAGTGTGGGGATTACAGCAGTGTGCCTTGTGCTGTCCCTGCTGCCTTTTTAAATGTGCTGCTAGGAA
TTGGACTTAGACTTTTATGTACACTAGCAAGTGATGAGCTGACCAAGTGACAGTCTCTGCTGAAGGACAGATCGTCTAAAGCTGATCATGCTTG
TAATATTGTAAAATAAACATTCGAGTGCAGTTTTATATCTTCAGAATCTGTATTTTTTTTCCCCTAGAAGTTTTCACTTGTGTGTTTTGGTTTG
GTTTGGGTTTTTTTTTTTTTCTCCTACTCTTTGCATTTCTTAAGAGTTTGAATAATTTTAGAGTTCTTTTTTTTTTTTTTTTTTTTTTTGGTT
TTCCGAGACAGGGTTTCTCTGTGTAGCCCTGGCTGTCCTGGAACTCACTCTGTAGACCAGGCTGGCCTCGAACTCAGAAATCCACCTGCCTCCC
GAGTGCTGTTCTCAAACTGTTAGATTATATTTTCCATCTATATATGTATTTTTGAATTTATTTTCTGTACTTTTTATACCCTTTTATAGGTGGG
AAATTTGGTAATCATAAAGTTGTATCTATTTTGGTCCAATGTGTTAGTTCATGTTGACTTACAGTTATTTTTAGGATGAAAAATTATTATTTTA
AGCTTTTTAAAATTAAGAGTAAAGTGTCCTTTATAACTGGTACTGGATGTATTGTACAGTAGCATACTTCCAGCCTGTACTGTTCGCATGTATT
TTAAGCATTGCCACACTCTGATAAGGCGCTTGTTCCTGGTGCAGGAAGGAAGAATCCCATGACTTACCGCTTTCCCACTTTTCTTTCTTAATCA
GATGCATATGGCAATAAATCAAAGAAACAAAAAACAACTCTGATTTTTCAGAAACTGCTGCAAGATTGTGGTAAGAATATTTTGGATTGAGTTA
TAGTTAAGTAAATGTGTCTTATTTGCTTTATTCTGTTTTTAAATTTTTTAAGTGATAAGCTGTTTTTCAAATTACACTTAATAATAGAAAAACT
TATCATACCAGGTCACTTTACTGAGAAACCAAGAACTGCCCCTCTGGGATCAACTGGAGAAGGAAGATTCATCAAAAAAGGTATTTTATCCACT
TTTTAGGAATAACTGCTTTTTAAGTCTCTTTCTTTCCTACAATCCCGCACACTCTCACTATTGAGTGCAGCTAGGCTGTACCTCTGCAGGTTGT
GTTGGAACTAATTATATTTGAGGGATTTTATTGTTCAAGAAATTACATTTTGTCCACACACTGGTGCTTTTGCTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTGGTTTTTCGAGACAGGGTTTCTTTGTGTAGCCCTGGCTGTCCTAGAACTCACTCTGTAGACCAGGCTGGCCTCAAACTCAGAA
ATCCGCCTGTCTCTGCCTCCCGAGTGCTGGGATTAAAGGCGTGTGCAACCACTGCCTGGCTCATTGGTGCTTTTACTAATTTGACTGTTACCAT
GTAAGAAATGGCATGGATGTGGTAGGCACCTGTTTATAGCTGCTTACACTTTGAACAAGGCTGTGGCCCTTGGGGTCATGTACTGTCTCTCAGG
GCCACTTTAAAAGGGGTAGGACCACAGGCATGCTGACCACCTGCTGTCATGCCCAGACCTAGAGTCCCCTCTCTCTTCTGCTACAGCAACAGAG
CTGGACAGTTCCCACAGAGATTGCTTCCCACATAAACCTTAAAACTGTCTGGCCTTTTAGAGAGGATATTTTGCAATCCCCTAACAAACTCTCT
GTCTTGTACCCTTACATTGGTGCTTTATCCTGGTTTCTGTAGGGCTTGTGTAATATGTACATAAATGCGGGCACTGTCCCTCAGTTGTCTGTGG
TGGGGAATTTTGTGAGACCTTAGGTCATGTCTTAAGTGATAAAAGCTATGTGCAGTTGTCAGTCCTCTCCTTCTTCCCATTCTCCCTAAAAGCA
GAGACTAGAAGATCATTTTGGCCACTAGGTACCTGTTTGTTGAAATTCTAATATTTAAAAATGTGCCTATATGGCACAAGAAGCTGGATTTTCA
TATTTAACTGGAAGAAAATTACACATGCCAAAATAACTTTGAAAAACATTTTCATATATTTATATGGAAATTTGCATGTTACAGACTTTAGTTT
TGAATTCAAGTAATAATTTTATGCTTTAATTTATTTGATATGTGTCAGTGCCCTAGAAAGTTTTTAGTATGTTTTTATAATTTCAATTCAGAAA
TAATGCTTTATATCAATTTATTCATCTTACTCTATAAAATATATTTTTTCCTCTACAGAATCAAACTTATTTTCTCATGGTACAGTTTTACCAG
AAATGCCCAGGTCTTCAGGAGTTCCAGGGCAAGCTGAACCTTACTATTCTTCATGCGGGTCCATCTCGAGTGGATTGCCACATCACCCACCAGC
CATACCCTCAGTGGCCCATCAGCCTACAAGCTGGCCACCAGTGACTCACCCCACCTCACACCCAGTCAGTACAAATACCCTGAGTACTTTCTCA
GCGGGAACACTTTCCTCTAATTCACAAGGTATCCTTCCATTCCTAGAAGGGCCTGGTGTCAGCGACTTGAGTGCATCTAATTCGTGCCTTTATA
ATCCTGATGACCTAGCTAGAATGGAAACGCCATCCATGTCACCAACTGACTTATACAGTATCTCTGATGTCAACATGCTATCTACTCGGCCTCT
GAGTGTGATGGCACCCAGCACTGATGGCATGGGGGACACTGACAACCCAAGACTTGTGAGCATCAATCTTGAAAACCCCTCATGTAATGCCAGG
CTAGGCCCAAGAGACCTGAGACAACTACATCAGATGTCTCCTGCCAGTCTGTCCGCGGGCACCAGCTCCAGTTCTGTTTTTGTTTCACAGTCAG
ATGCATTTGATAGATCAAACTTCAGTTGTGTAGATAATGGCCTGATGAATGAGCCTGGACTATCAGATGACGCAAATAATCCTACCTTTGTTCA
GAGCAGTCACTATTCAAGTGTTAACACTCTGCAAAGTGAGCAACTGAGTGATCCCTTCACATATGGTTTTTTTAAAATATAAGTTGTAGGACTT
AAATAAGTATATAGAATATTAAGAGAAAGTTCAGAAGTCAAAACTTTAAAAGCCGCTACTGTTTCTTACTTTGAAAGATATGCCTAAAGTCCAC
GTGCTTGCTGTGAGTTGTTTTCTGTATTTCCCCAAGACAAACTATGTATCTTTGCTAATGTATTAGTTAAATGAGATGATATTTGCTTTCAAGC
AGATTTAAGGTGAAAAACGTGTAATGGCTATGCCATTGGGAAATAAACTCATTATTATTGTTGAGGCCCATAGGCCAAAGTGACCCCTAAGGGG
TTTTCTGAGGTTTCTTGGTATTTTTAGGGTGTGTGTGTTAAAGTAAGCTTTCAAGGCATGGAAGTTTTTTTTTTTCTATTTTCTATTATT
TAGGCTTTTATCTTTAAAGTTACATGTGAAATTAGCTTGATATCTGTATTTTCAAGAAAAGTTTTCTTGAGCCTTTTCTTTTTAGATGTTCTCA
TTCCGTTTGATCTCCTAAAGCCTGTCTGCTTCACTATAAAGAATCTAACCAGGTATTTTGGGCTCATGTCAGTAATTTCCCTACTTGAGATCGT
AAGTTCAAAACCTGCCTGAACTACATAGTAAGTTAAATACCAGCTTGAACAGCTTATGGAAATCTTGTCTCAGAAATAGAAAAGACCAAGGGTG
TGACTCAGTGGAGGAGCTTGCGTAACATTTGCTAGGCCCTGTGTTCAGCCCTATGAAGAAGAAAACAAAATAACAAGTTCGTTTTAGCTCAGTA
TATCCATACAGAGTTTTGAACTTCTCTCCCAGCCTTGTGTCTCCTTCAGCCTTCCCTGCTCTGTATATTGTCACGCCATGCTTCCCGTTGCTAA
GCACCTTGGTGCGCCTTTATTCTTCCTTTACCTCCCACATCTGTCTATTCCATCGTCAAACCCAGAAGGCCATTTCCTCAGTATGCATCCGAAG
CCCACCGTCTCCTTTGAACTTTTGTGTGAGACAGGCTGGCCTCAACCTGCTATGTAGCCAACGATGAACTCAGCCTTCAGTTCTCCTGCTCTGC
CTCGGGAGTGCTGGGATTACTAGTGTGCACCCCCCCCCCCACACACACAGAGGTTTGTGTGGTGCTAGAGACAAAAACAGGTCTTTCCTGGG
AGAAGTATTCTCACAGTTGAGCTATCTGCTCAGCTCAGACCAACCACAAGCATTTTGTATTAGTAAAACTGATAAACCCAGACGCAGCTATTAG
AGAGCTCAACAGATGGTACTCACACAGTGACTTATTTCACAGTTTTTCCTCTAAGTTGAACTAAGGTCTGTCTACATCTGCATTTAGAGTATTT

TCAATTGACGTTTTATTTTCCAGTGCCTCTTACTGATCACATCATTCAGTTTATACCTTACAATGCATTTAGCAACATGTTTTTCCTTTCTCTA
TGGCTGCGTTTGTATTTCACATGGTTTTGAAAGAATTGGCCTTCTTTTCCAGATTCTGCTTGTGCACAGCGTCTCTCCTCCTGTCCCCATGTCA
CCAGTTAGTTCTTGCTTCCTTTGCATAAACAGAGTAAGTATCTTCTTGAGCTTAAAAGGAAAGGTTAAAAAATTTCCCCTCTAAATACCAAGAG
CCCTTCCCCCACAGTGCCCTGTCCTCCACATTTTGCCTCTTCCATCTTCTCACCTCTCGCTCGCTCCTTCACCTTCCATCTCTGTCTTTAGTTT
TCCCAGTTCCTTGTCTTCCTGTCAGCCTTTACCCTCCTTGTCTGTGCTGTCCATAGCCTGGCACCTCCTGAAGGACAGGATCCTGTGGGACGGG
GCTGTGTTGTCTGCACTCTCCTCAGCACCGCAGCTTCTCCTGCTGTGGGATGCTCTTGGTAAGCAGCTGCNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNCTGGAAATCTTTATTCTTTTTCTTCAGTGAATATCTTTTCCATATGTTTAAGGTTTTTTTTTTTTTGATAC
CTTATTCCTCTTAGACGTTGTAGTTGGAACATGTTGAATTTATTCCCACAGGTGTCTATAGATGTAACCTATTCTGCCTGTGCTCCCAACACTT
AGCTTTTAACAGCAGGCTTCTCTGCAAGGCTTGGTCCTGCTGCTACAGCTGAGAGGTGCAGCTCTGCCTCTCTCTGCTCCTATATTACAGACCT
TCAGCGGATGGTAGTCAGTTAAGTGCTTCTCACTTATCTCTGGGACTCTAGCATTTGACGTACACTCTGGCCTAACTGGTGCTGTATAAATAGT
AGCTATTTATTAGAAAAGGGGGATAATTATAAAATCATATTTGAGGATATAGTTTTTAATGGGAAAGGTGCTTCACCCTGCAGGAAAAGTAATG
ATGCCAAGATAACCTGTCCTGTGAGACATACTTCTCTTCTGGTCGACTGCTGCTCTTCCTCCTCCTCTTCTTCCCCCTCCTCCTTCTTCTTCCT
CTTTCCTCCTCCTTCAAAAAACTATACAGACACTGGCACATGCTTCATGGTAGAGCATGGCCCTGTGTTTGATACCCAGAATTGCAACAACAAC
AACAAAATTATAAAACAAAAGTATAAAAACTACCCTGAGGCTCTTTGATACCCAAAGCTGTTCTCTTGGAAATCGTAGTACCACCAGTATAGTA
TCAGGTAGAAATCCTGCCTCTGTATGGAAGGTTATATCCTACATACCCCAGCGGTACCCCTTGACAGTTTACCATGCATAGACATGTAAGTAGC
CTGTATTCATAACATTTTTGTAACTGTATATTGTACAATGTACCCTGTTCCATGTAGAAAATAAGAGGGGAATGGTATTCAACTTTTGTTCTCA
AAGATATGTTTCTTTTCTTATGAAGAATCACATATATAGTCAACCACAGAAACATGGACAAACTTTAAGGTATAATTTGAAGAATTTTTGATTA
TATTAAAACAATGCAACCACTATGCTTGGGACCCCAGAAGTTCTCCGCACCTCCAAACCACTGTTCTGATTTTTGAGAGCCTGCTGACTTCCTA
TCCTTTTCTTTTGCTAATTAGTTCTCCATTTGGAAAACCTTAGTGTAGAGTAAGTCAGTTTGTTTTACTATGCTGTGTCGTGTTTCCACAGTCT
CAGAAAAACTATATTTTTGTGGAGAGACTTAAAATTGGTGATCCAGGTTGTCTAATTGTACCATATCAAGTTTTAATCATAAGTTGGAATATTG
AAAGTTTACCATAAGCTGTCAGACAGCATGCAACAAGATAAAGAAGAGACTGATTTTAGTCAGTTAGCCTAAATGGACCTGCTGGTCTTCAG
AAACTCAGGCAGAAAATCACAAGTTTAAGGCCTGCACAGTCTGCAGAGTGACTTCAAGGGAACAACTTTGTGAGCTCCTATCTCAAAATATAAA
GTGGAAAAAAGGGCGTCCTGAGCTATAGTTCAGTGATAGAGCACCTAGCATGTACAGCTAAAGACTCGGTGCCTAACTCCAAAGAACTAAAAAC
CTGGCCTTCCTACTTCCTAGGGTGTGGTTTGTGCTAAGAAATGTCTGAATAGAAACACCGAGTTAAAGATTGTGTTTCTCATGGGCCCTGATTA
GTCTATTATCCAAACATTCTTAACCACTTGATACCCAGAGAGAAAAATCACAGGGTGGATAAACACTTTGGGAGACCTATGAGAAAAGCAGGTT
TCTCTTTAGACAAACGTCTTTAAGTTGCCCCATATGGACCTGGCTCTCTCCGAGGACACTTTCTTATCAAGGGAAGTCAGTTACTGGCTTTACT
TTTGGTATTTTGTGACTTGATTTCTTTGTGTAAGTTGAGAGTCTTTGGGAGTACTTTAACTCCTGTGACGTTGCCACTGCAGGGTTTCAGGTCT
GTTCAGAGGTTGGATGTGCACGGAAGAGGATAGAATGCTTTTGTGTCTAGGAATGGAAAGCCCACGCTATTCTTGGAAGCCCAGCAGTGGGCCA
TAGGCATGAAGGTGCCACCCAAGTCTATCCAGTTTCATCCCTTGAATATTTAAGCCGAACATCATGGCAGAATTTAAACCTCAAGGTCAACAGT
GGATGAGATCAAATCTCAAAAGTGATCAGGTCTGATTGTTTTCATGTCTGTAGAAAGGCCGAAACCCACGCATGTCCTCATCATCTTTTGTCTT
TTTGGTTGGCTTTGGGGAGGTTGGGTTTGGTTTGGTTTGGTTTGGTTTGGTTTGGTTTGGTTTGGTTTGGTTTGGTTTTTTTCC
CAAACAGGGTTTCTCCGTGTTGCCCTGGCTGTCCTGGAACTCATGGAAGTCTGCTTCTCGCCTCCCAGACTTTATTTATTTTTTTAGCTTTCAG
AACTTTAAAGAATCACAAACAAGCCAGGTGGCACTAACACACTCCTTTAAAACCAGCACCCAGGGGGCAGAGGCAGGCAGATTTCTGTTAGTTT
GGGCTGGACACTTACTCTGTAGTAAGTGTCAGGCCAGATGGGGATACACAGAGAAAACTTGTCTCAAAAAACAACAAACCCAAAAACAAACCAA
TACAACAACAAAAGAATCACAAACAAAATAAAAAGAAATGTTGACTCCTCAACAAATTGAGTTTTTAGCAGCTTTATAATTTTTGGTAAAATAC
CAAATTTACCTATGGTAATTTTTTTCTAAGCTTCTTTAGCCAAAATGTAACTTCTCATGAGCTGGAGTAAAGTAAGGCTGAGGCATCTTGGGAT
AACTATGACTTCACTGCTCTTAGTGAAGCAGCCATAGTGATATATCCTGTAGCTCCAATACTTGGAAGGATGAGGCAGGAGGGATGCTTGAGGG
AGACCTCAGCTAGTCAGTCACCAGAGAACTTTAAAACACTATTGGCTATGGTTAATAGACCCCTACAAAACAGGGGAATCTTTGCTGTTGTTTT
GACCTTAAATTGAATATTGACCTGCCTCTCCCTTCTGAGTACTAGGATTGTAGGCATATGTCACCACACCTCACCTAATGTAAAATATTTAGAT
TTCAGAGAGGAGGGGAGCATCATGCTGGGATTGAACCCAGGGTCTCATACAAGTTATGGTTGGTGTTAGCTCTCTACCACTAAGTTGTCTGCAT
TTCAAACTGATTTTATATGCTTGATGATGAATGAATTTCAAGGCTCTGATGAAATTATTTTTTTTTAAGTTCTCAAGATACTGGTACTTAAGAA
GTTAAGCTTTGTATCAAGATGAAATATTTTTTTAATGTCAAGATGCCTTTTATTATATAGCATATTGTGTTACTTTTGTAATATCTTTGTATAC
TGTGATTTTTGTTGATGTAATAAATAGACCATTTTCTAAAAATGCTTGTTACAGTTTTGCTGTTTGCTTACGAAATATCAGATTTCTTTTTTTT
TTTGTTTTTTGTTTTTTACTTTTTCATTATAAGGGGTAGCTATTTGGGATTGTTTAGGAATAGTAGGCATTTTTATAAAATGTTCTCAGGATAC
AGTCTATCTGTAACTACCCTTTGAAATAGTAGTCTCAAGAAGTACTTGAAATGCCCTTTCAAGGAGTCTTGGGTTGGTTAGATGGTTAGTTGGT
TGGTTTTTGAGATAGGATTTCACTGGGGTTTTGGGCATGAACCACCATGCTGTTTTAACAAGGCACTGAGCATGGAATCTAGGGACTCATGCAT
GCTAAGCAAGCATTCTGCTGCCTGAGCTACATCTTCAGTCCTTGCAGGCTTTGGTCTTTATTATTTTGGAACAGGGTCAAGCTGGCCTAGATCT
TGCTGCATACTTCAAATTCATGGTCTTCCCACCTCTGCCATCTGAGTCCTAGGATTTCAGGTTGAGTCACCATTCCTGCCTCTCCAACTTCATT
CTGGTTTAAGCTCACTTCAATTGCTTGGTTTTTCTTCTGATTCCATACATATCTTTGATGGGTCTGCTAAAAATATCATTGGAATTATGATTGC
TTTTGTCATATTAACCCATCCTTGAAGTAATCCCACATGGTCACAGTGAGCTACCTTTTGAGTATGCTGTTCAGTTTGCCTTGATAGCATCTTA
AATTTTTTCATGTATGTTCATCAGGGGTACTGGCCTGAGTTTTGTCTTAATGATGTCTTTGTTGGATTCTGCCATCAGAATTTGGCAGCAATTC
CTCTCTGCTTGCTTTAGAAGTCTTGCTGCCAAGCCTGATGACCCAATTTACATCCCCAGAAACCACATGGTATTCAAGAACTAAACTTACTCCC
ACAAATTATCCTGACTTCCTTACAAATGCTGTATCACATATGGACATGCACATGATAAATATAAGAAATTTATTCTAGAAAAAATACCATTTTC
CACAAATGGAACCTGATCTTTTTAGAGAAACTGCCTATTTTGTGGCTAGTGTAGAGGAAATACAAAGCCTGGGATATTTTTATTTTACAAGAAT
ATGCTCAAAGAACGATGGAGATAATGTTAGAAGGGCATAGGAATGAGCTTGAGAATTCTCACTGCTCAGAGTAATATATAGAAATAATATCAGT
GGCAAATTACCAAGTCATTGAATAAAATGAGAATCTATTGGTGACAGTGCTGCTTTGTCTTGGTTCAGTCCCTAACACCACAAAACAACAAAAA
ACAAAACAAAAAAAACACAACCCAGGCTTCAGTCCACATCCATAAAGTAAGGAAATGAGAGAAGGCCCTCTCTCTCAGTGGGATGCCATTCAAT
ACATGTGAAAAGAATGACACACATTAGCAGTTATACTTAGAATCAGTAGTAACTGAGTCAGGTAGAGATCTTTGGTGGATTCCAATCAAATGAG
TGAAAATCTGGTCTATCTGCAAGGCACTGAGTAGAGAGGGAAAGGACAGTAAGACTGGAAGAGTTTGATAGACAACACCCACCCCTCAGGGACT
AGAAAGTTTGGCAAGATGCAAGGAGGAAGCATCTCCTCCGTGGTGTCCTCACATCTTAAATCTAGTACCAGGCAAACTGGAGCTGAGCATAGCC
CACTAAATAACTGGGCTGAAGCTGTGCAACCGCTTCATGAAGCTTAGCATACACCGACTACAAAGCAGGAGGGCTCGGTCATGAAGCCAGTGAC
AGACAAACTGATGGACAACCTCAGCGATGTCTTCCGACTAGATAATGGTGGTCTGTCAGAGCTCACTTCCTGGTATGGTGGGTGGCCTGTGATT
TACAAGATGTCTTCTAGGAATTATGCACTATGTATGTATTTGAAATGGTGAGGTGGTGCTGACTCAGCACCTCTGTGGGAAAGTTCCTTTGTAC
TTTTTAGTTAAGTTTTGAATCATTTTGAAAGGAAAAAAAAATTAAGATATGAAAGTAATTCTTTTTTCATAATAATAAAACACAGATTCTGCCA
GCTAGTTTTTATGTTAACTTTATACAGGCTAGGCTATCTGGGAAGAGGGAATCTTGCTTACTGATTGATGTGGGAGGGCCCGGCCCACTGTGGT
TAGAGCCACATGGTCAGGGCTCATGGCCCTGGATGCTATGCAAGAGCAGACTGAGCAAGCCATATAGAGCAAGCCAGTGAGTAGCACTGCTCCG
TGCCTTCTGCTTGAGTTCCTGCCCTGACTTCTGTCAGTGATGGAAGTGTAAGAGAAATAAACCCTTTCTTCCTCATGTCCATTTTAAAACCAGT
CAGAAAAGCTTACATCTGGACTGGGGGTTGTGGCTCCTGAGTATAATCCAGACACTTTGAGAGGCAGAGGAAGGAGAATCATAAATTCAAGTCT
AGTCCAAGCTACAAAGTGAAACCCTCTCTCTTGTGGCCTCCCTCACAAAGCTACTTCACTCAGTTCCTTCTCAAGTGGAGATTTAAAAATAAGA
CTCAGGAGTAGAAATAGTAGATGAGCTGGCTGATGAGGACTGCTGAGACATAAACCTTCTCAACAACATCACTTGACTGTAGCAATCATGACCTC
ATGGTAACTGAAGATGCTTGAGTGGGTAGGGAGAGATCACGGGGCTCTGTGTCTCCCCAAGAACTACTAGCTGTTGATAGATGCTTGAAGAGGC
ATCATCTTAAATGTTGCTTCTGTTTGCGAGTTCACTAATGTTTTACATCCCTGCCCACAAAGGTAGTTAATACTGTAAGACCCCCGAAGCTGGG
CCTCTGCTCAAGTCCCGGGATGAGCTGGCCAGCACCCCAGTGTCCTGAGAGAAAACCACACCTGATGCAAACTGCAAGAGCCATGCAGGGCAGG

GGAGTTCAACCCAGAGCGGTGACAGTAGGGGGCTTTTAACAGCTAGCTGAGGAATTGGGAGGAGTTGGGGAGAGAGTTCTCTTCAGCATGTCCT
TGGTGAAATTTACAAGGCGGGAGTGGGGAGTGAGTTCTTTCTGAATTTTTATCTCCGTGTCCTCGGCACTGGAACGCAGGCATCTCTGGTTGTA
AAGTATAGAAACAAAAAGGCTTTTTGCTGGCTATAGAGAACAACGAGCTTCTTTCTGGCTGTATTTTTAGAGATCAGGGAAAACAAGCTTGGGG
GACGTCCAGGGGCTTTACCTTCCAGGGAGAAACGCTCTAAGTTGGGGGTCTCACAATACCAGTGGGTCACAAAACAAAGGCATTACAGTACGAA
GAGGTCTTGTAGGGAGGCCTTTTGTTGGGGGTGTTGGGGGATAAAGTAGGGGTCAATGTGCTAGTACAGGCCATGAATCCCAAGTGCCTTGGAG
GAAGGCAGAAACTTGTGAGCTCTAGGACAACCAGGACTACAGAGAGAAACCCTGTCTTGGAAACAATACAGAAAAAGGACTGGGTAAGTGTGAC
CACTGTGTTATATTCATGTATGAGACTGGCAAAAATAAATTTAAAAACAAAGAATACAGCCCCAAGTGAAAGAGAATGCTTGTTGTCTTTTAGG
AAATAGAAATTTAACTTGTTAAGTTACTTCATCTAACTTGCAAAGGTAACCAGTTATCTTACTAGGAAGATTCTCCTTTATCAAGTCTTTTTTT
CCTTGCTTTCTCTCGCTCTCCAGAGTTGGGTGGTTTTTTCCCTTCTGAAAATAAGCTACAGCTTATATCTGCAACACAGATAAGAAGAGAGAGC
TCATTCTGCAGATGACATAAACATTGCTTCTAAGTTAAACAAAGCATAGAGAAGAGGATACACTGTAAGCCAAGTGACACAAACCCACAAGACT
TCCTAGCCCTGTGTCCTCACTCCCAAAGACATTGTCTATAGCTACTGTTTACCTTTCAACAGGAAATAATTCAAGGAATGCTTTGTTGGAAGTT
CCTGACCTTCATGTTTTGGGTCCAGTACATTCAAAACTGAGCTAAAAAAAAAACAATGCTCAAAGACTTTTCCCAAATTATTTAATCTTTTAGC
AAAATTTCATCAGAAGCTGAGAAACATTACATAGAAGTCTTTAACTTTTCACTTTTCATCAGTTAGTTTCTGTTATCTCCTTTTCAATTTTCTG
ACAATGAAAAACCCTTTGCTATTATTCACACATGATGAAACAAGGTTTCAAAGGAGCAGGCTGCCCTTTCATCGCAATCAAAAACATCTTCCTG
ATATAATACATCTTTCAGAGTCAGTATGAATTGTGTGCAAAGATGAGAAACGTGAATAATCAAATGCTATTCAAATCAATGCATCAAAAAAAGT
CAAGAAGTTGCACTAGCTGATGAAAATTTTACTTAAGTCAAAATTTTATTGAGCTTCCCTTCTGGTATTTTTGATGATTAATTCTTCTGGTTCA
ATATGTTTAAGATTTCTCTTCACCATGCCATTACAATTGACAATTATGAGATCATATAAGACATACCATTAGCCATTTCTTGGGGGCGTCACTT
GATATCCAAGTTCCAGAAGCCAACCTCCTGGCTTTGTAAGCCTAACTGTCCTTCTTAGGACACTGTCACCCACAGGAGATGCAGGTGCTCCTGA
CAAGGGTTTTTAGAAAGGCTCCTGGAGACACAACATCAGCTCCAGACCTGTTATAAGAGTAACTAGGTGTGTCATTTAACTTTTGTTTCCTTGT
TTATGTAATCAGATGTTAGATAGACCACTTGAAATTAGAAAACATTTGAAATTGGAAAATAATTGAAACACCAAAATATGTTTGTATTTGTTTA
GCATTATCGAATTTTCAAATTTGTAACTCTGGGACAAAAGTTACTGAAGGCACTTGTTTCTCTTTACATAAAAGACAAAAGAGGTAGGCAGTGT
CTAGAGTACGCCTCCAGGGGTAAGGTGTCACTTGCTTTGCAGGAGACACATACTGACAATTTTCGATTGTCAAAATAGTCACTTGAGGTCATAA
GGACTATGACAAATTGTTCCT

MOUSE SEQUENCE - mRNA

CACTAGTGACCGGAGCGCGAAGATTCGGGGGTGGGAAGGTGTGAGCCGCAAACCCAGAGGAGCCGGGAAAGAAGAGGAGGCCCGGGGGTGGTCC
GAGGACAGGCGTCCCGGCTGCGGAGGCTGCTCAGCCTCCTCACTGGTTGGCTGACTGACGGGCTAGCTGGCTGACTGCCTGCCTGACCGACTGC
CTGGCTGACTGACTCACTGACTGACTGACTCGTGCCTTGCAGCCTCGGGCCGGACGCTGGAAGCTGCAGCGAGCGGCGCGCGGAGCCGAGCCAT
GGCCTCGAGTGGATATAATCCATACGTAGAAATAATTGAACAGCCAAGGCAGAGGGGAATGCGGTTTAGATACAAGTGTGAAGGGCGATCAGCA
GGTAGCATCCCAGGGGAGCGCAGCACAGACAACAACCGGACATACCCGTCTGTCCAGATTATGAACTACTATGGAAAAGGAAAAATAAGAATTA
CATTAGTAACAAAGAATGATCCATATAAGCCTCATCCTCATGATTTAGTTGGAAAAGATTGCAGAGATGGATACTATGAAGCAGAATTTGGACC
AGAACGCAGACCTTTGTTTTTTCAAAATTTGGGTATTCGGTGTGTAAAGAAAAAGGAAGTGAAAGGAGCTATTATTTTAAGGATTAGTGCAGGA
ATCAATCCTTTCAATGTGGGTGAACAGCAGCTGCTGGACATTGAAGACTGCGACCTCAATGTGGTGAGGTGTGTTTTCATGTTTTTCCTTCCTG
ATGAAGATGGTAACTTCACAACTGCTCTGCCTCCCATTGTTTCTAACCCAATTTATGATAACCGTGCCCCAAATACTGCAGAATTAAGGATATG
CCGTGTGAACAAGAACTGTGGAAGTGTCAGGGGAGGAGATGAAATATTTCTGCTTTGTGACAAAGTTCAGAAAGATGATATAGAAGTTCGTTTT
GTGTTGAATGACTGGGAAGCCAGAGGTGTTTTTTCACAAGCTGATGTACACCGCCAAGTAGCCATTGTTTTCAAGACTCCTCCGTATTGCAAAG
CTATACTGGAGCCTGTGACAGTGAAAATGCAGCTGCGGAGGCCTTCTGACCAGGAAGTTAGTGAGTCTATGGATTTCAGATACCTGCCAGATGA
AAAAGATGCATATGGCAATAAATCAAAGAAACAAAAAACAACTCTGATTTTTCAGAAACTGCTGCAAGATTGTGGTCACTTTACTGAGAAACCA
AGAACTGCCCCTCTGGGATCAACTGGAGAAGGAAGATTCATCAAAAAAGAATCAAACTTATTTTCTCATGGTACAGTTTTACCAGAAATGCCCA
GGTCTTCAGGAGTTCCAGGGCAAGCTGAACCTTACTATTCTTCATGCGGGTCCATCTCGAGTGGATTGCCACATCACCCACCAGCCATTCCCTC
AGTGGCCCATCAGCCTACAAGCTGGCCACCAGTGACTCACCCCACCTCACACCCAGTCAGTACAAATACCCTGAGTACTTTCTCAGCGGGAACA
CTCTCCTCTAATTCACAAGGTATCCTTCCATTCCTAGAAGGGCCTGGTGTCAGCGACTTGAGTGCATCTAATTCGTGCCTTTATAATCCTGATG
ACCTAGCTAGAATGGAAACGCCATCCATGTCACCAACTGACTTATACAGTATCTCTGATGTCAACATGCTATCTACTCGGCCTCTGAGTGTGAT
GGCACCCAGCACTGATGGCATGGGGGACACTGACAACCCAAGACTTGTGAGCATCAATCTTGAAAACCCCTCATGTAATGCCAGGCTAGGCCCA
AGAGACCTGAGACAACTACATCAGATGTCTCCTGCCAGTCTGTCCGCGGGCACCAGCTCCAGTTCTGTTTTTGTTTCACAGTCAGATGCATTTG
ATAGATCAAACTTCAGTTGTGTAGATAATGGCCTGATGAATGAGCCTGGACTATCAGATGACGCAAATAATCCTACCTTTGTTCAGAGCAGTCA
CTATTCAGTTAACACTCTGCAAAGTGAGCAACTGAGTGATCCCTTCACATATGGTTTTTTTAAAATATAAGTTGTAGGACTTAAATAAGTATAT
AGAATATTAAGAGAAAGTTCAGAAGTCAAAACTTTAAAAGCCGCTACTGTTTCTTACTTTGAAAGATATGCCTAAAGTCCACGTGCTTGCTGTG
AGTTGTTTTCTGTATTTCCCCAAGACAAACTATGTATCTTTGCTAATGTATTAGTTAAATGAGATGATATTTGCTTTCAAGCAGATTTAAGGTG
AAAAACGTGTAATGGCTATGCATTGGGTAAATAAACTCATATTATTGTTGAGGCCCATAGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAA

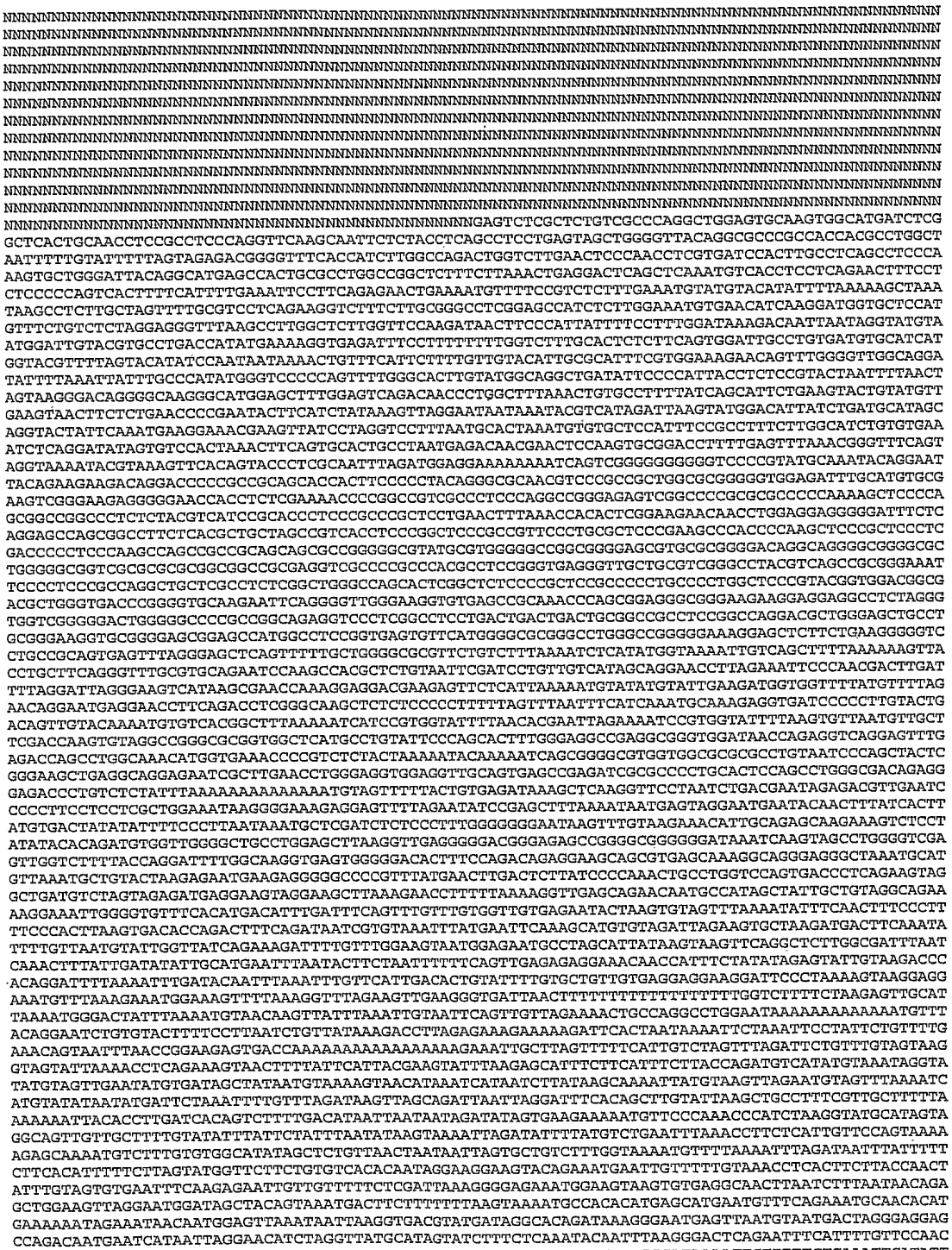
MOUSE SEQUENCE - CODING

ATGGCCTCGAGTGGATATAATCCATACGTAGAAATAATTGAACAGCCAAGGCAGAGGGGAATGCGGTTTAGATACAAGTGTGAAGGGCGATCAG
CAGGTAGCATCCCAGGGGAGCGCAGCACAGACAACAACCGGACATACCCGTCTGTCCAGATTATGAACTACTATGGAAAAGGAAAAATAAGAAT
TACATTAGTAACAAAGAATGATCCATATAAGCCTCATCCTCATGATTTAGTTGGAAAAGATTGCAGAGATGGATACTATGAAGCAGAATTTGGA
CCAGAACGCAGACCTTTGTTTTTTCAAAATTTGGGTATTCGGTGTGTAAAGAAAAAGGAAGTGAAAGGAGCTATTATTTTAAGGATTAGTGCAG
GAATCAATCCTTTCAATGTGGGTGAACAGCAGCTGCTGGACATTGAAGACTGCGACCTCAATGTGGTGAGGTGTGTTTTCATGTTTTTCCTTCC
TGATGAAGATGGTAACTTCACAACTGCTCTGCCTCCCATTGTTTCTAACCCAATTTATGATAACCGTGCCCCAAATACTGCAGAATTAAGGATA
TGCCGTGTGAACAAGAACTGTGGAAGTGTCAGGGGAGGAGATGAAATATTTCTGCTTTGTGACAAAGTTCAGAAAGATGATATAGAAGTTCGTT
TTGTGTTGAATGACTGGGAAGCCAGAGGTGTTTTTTTCACAAGCTGATGTACACCGCCAAGTAGCCATTGTTTTCAAGACTCCTCCGTATTGCAA
AGCTATACTGGAGCCTGTGACAGTGAAAATGCAGCTGCGGAGGCCTTCTGACCAGGAAGTTAGTGAGTCTATGGATTTCAGATACCTGCCAGAT
GAAAAAGATGCATATGGCAATAAATCAAAGAAACAAAAAACAACTCTGATTTTTCAGAAACTGCTGCAAGATTGTGGTCACTTTACTGAGAAAC
CAAGAACTGCCCCTCTGGGATCAACTGGAGAAGGAAGATTCATCAAAAAAGAATCAAACTTATTTTCTCATGGTACAGTTTTACCAGAAATGCC
CAGGTCTTCAGGAGTTCCAGGGCAAGCTGAACCTTACTATTCTTCATGCGGGTCCATCTCGAGTGGATTGCCACATCACCCACCAGCCATTCCC
TCAGTGGCCCATCAGCCTACAAGCTGGCCACCAGTGACTCACCCCACCTCACACCCAGTCAGTACAAATACCCTGAGTACTTTCTCAGCGGGAA
CACTCTCCTCTAATTCACAAGGTATCCTTCCATTCCTAGAAGGGCCTGGTGTCAGCGACTTGAGTGCATCTAATTCGTGCCTTTATAATCCTGA
TGACCTAGCTAGAATGGAAACGCCATCCATGTCACCAACTGACTTATACAGTATCTCTGATGTCAACATGCTATCTACTCGGCCTCTGAGTGTG
ATGGCACCCAGCACTGATGGCATGGGGGACACTGACAACCCAAGACTTGTGAGCATCAATCTTGAAAACCCCTCATGTAATGCCAGGCTAGGCC
CAAGAGACCTGAGACAACTACATCAGATGTCTCCTGCCAGTCTGTCCGCGGGCACCAGCTCCAGTTCTGTTTTTGTTTCACAGTCAGATGCATT
TGATAGATCAAACTTCAGTTGTGTAGATAATGGCCTGATGAATGAGCCTGGACTATCAGATGACGCAAATAATCCTACCTTTGTTCAGAGCAGT
CACTATTCAGTTAACACTCTGCAAAGTGAGCAACTGAGTGATCCCTTCACATATGGTTTTTTTAAAATATAA

SAGRES DISCOVERY 02-15

HUMAN SEQUENCE - GENOMIC

AAACCAAAGCCTGCATATGAAAAAGCTCTAGAAGACAACACATACACACATACTCACACATGCACGTAGGTGATGTCTGTATTAGTGAGGCAGA
ATTATAAGTGAGTTTTCTTCTTTTCTCCAATCTTTATTTAATTTTGTTTATTTGTTTTGTTTTATAGAGACAGGGTCTCACCATGTTGCCCAGG
CTGGTCTTGAACTCCTAGCCTCAACTGATCCTGCCACCATGGTCTCCCAAACTGCTGGGATTACAGGTGTGAGCCACCATGCCCAGCCTTTCTT
TAATGTTTTATATGTGTCTTTTTTTAGGTTGTAATTTAAAAATAAACATATTTTAGCAAAAAATTAAAGACTTTGAATGTTATTAAAGAATTTA
GGTCCGGGAGTAGTGGTTCACGCCTATAATCCCAGCACTTTGGCAGGCTGAGGTGGGAGGGCTGCTTGAGCCCAGGAGTTTGAGACCAGCTCTG
GGCAACAATAGTGAGATTCCATCTCAATCTAAAAATAAATAAGTAAAATATACATATGAACTTAGTAACTGGTTGGCCCAGCTTGCTTGCTTTC
ATGACAGTAATCCATGATTTTGATACCCGTCTTAATATAATCACTATCATACCTCTCTGCAGGCATAGTTATCACTTTGGGTAGGAGTTGAGCC
TTGTGCCTCTTTTTGTTTTTCTTGATGGTATCTAACGCCCAGTGGTGATACATTGTCACTCATATCAATACTGGTGTGATTCAATGTGTAATAA
TTTATATTTTATTCGACATTTAATGAGCATCTACAATGCTAAAGGCACTGTACTAGCCACTCTAGGGAATAAAAGATGAACAAGACACAGTCAA
TGCCTTTAATTAAAGAAGTAAATGCACTGATTTTTACTTTTCCTACACAGGTATTGAATTGAGAATTTTGGGGAAAAGAACATGAAGAGTCTTA
AAAGATATGGAACCTGTGAACGCTAAACCTTCATATATTTGCATTTTTATTAGTAAGATTATGGCTGCCAGTTATATTGTTTTATATCTTAGGT
CATATTTTGAAATGTGATGTGACATAGTGAAAAAGAAACAAAGAGTCTGGAGGTCTGGTTTCAAGTTTCAACTCAGCAATTAACTACCTAATGA
ACACGGGCAAGGTACTTAAACTTCCTGTGCCTCATTTTCCTCATGTGTAAAACGAGGGAGATGAACTAAATGATCTACAGGGTTCCTTCCAACC
TTAAAATTGAACTAACTCTCTCCTGTTGAGACATAAAAGAGGCACCATATGACTTGAAGGTGATGATGACTTCATTACTTGTTCTGAAAAATGT
TAATTCTAAATTGGAACAAGTAATCACTGGATCTCATGGTTGTGACACATCAGACATTACTACAGTTAGAGAAACCCAAGTTAGCACACTGTGT
CATACTTCTAGGCAGTGCTATATACGCAAAACTAGCATACCACAGTATAGGGCCTACACAATATAAACAAAAAGATTAAAAAGAGATTTTTTTT
TTTTTTGAGATGTAGTCTTGCTTTGTCGCCCAGGCTGGAGTGCGGTGGCACGAGATCGGCTCACTGCAACCTCTACCTCCCAGGTTCAAGCGAT
TCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCGTGCACCACCATGCCCAGCTAATTTTTTGTATTTTTAGTAGAGATGGGTTTTCAC
CATGATGGCCAAGCTGGTTTCAAACTCCTGACCTCAAGTGATATGCCCGCCTCGGCCTCCCAAAGTGCTAGGATTACAGGCGTGAGCCACTGCG
CCCTGCCGATTTTTTTTTTTTTTTTTAAATAGAGACAGGGTCTCGCTATGTTGCCCAGGCTGGTTTTGAAATCCTGGGCTCAAGCAATCCTCCT
GCCTCAGCCTCCCAAAATGTTGAGATTACAGGTGTGAGCCGCTGTGCCCAGCCAAGAAAATTTTTAACAATGGATATTTTACGAATGCTTTTTG
GAGTTTTTATGTACTAAGATTTCATTTCTCTGGGTGTTCATTAATCTTATGTTTCAGTTCCTTAAATGAAAATAGGTGAGTGGGGCAGGTTTCC
TCAGAGGTATAGTTTTTACTTTAGGGACTATCCCTTTCTCCTAAAGTGTGCTTTAAAGACGGCAGCACATGAACTTGTCTTAGATAGGAGGGAC
AGCAGGCAAAAGTGATGACAGGATCTGGGTCTGCTGCCACACACCAAACTATTTATGAATTTTTTTTAAGAGACAGGGTCTTGCTCTGTCACCC
AGACTGGAGTGCAGTGGTGTGTTCATAGCTCACTGCAGCCTCAAACTCCTGGGTTCAAGTGATCCTCCCACCTCAGTCTCTCAAGTAGCTAATA
TTACAGGTGCATGCCCCCAAACCTGGCTAATTTTTTTTTGTTTTTTTTTGTACAGATGGGGGTCTCACTATGCTGCCCAGGTTGGTCTCCAACT
CCTGGTCTCCAAAGTGCTGGAATTACATGGGTGAGCCACCACACCTGGCTCTCATTCTTTATGGGTTTTTTGTTTTTTTTTTTTTGCCCTTAA
GTTTTGTTTTTTACAACCTTATAAATCACATAATTGAGTTTCAGAGATCTCAAACAATACTAATGCAGTAAGTAAACAGGAGAGCAGGAGTGGG
GTTTGGCCAACAGTACTGGTAAAATTCACTCATAGTGGTTGAACCCAGCTGTTGCAGCTATTTGTCCTTAATAGGAAGGACACCTCCTCACTAC
AGAGAGTTGGGCAGTGATTTGCAGTATGCTAACTGGGACTAGGGCATACTCTCGATAAGGTTTAATTTTTTGTAAGAGAACCATGTGGCTTAAA
TTGATGTAAAGCATCTACATAAACTACATAACGGAAGACAGGTAACTCAGATAATGGGGGTATCAAAGACGAAATTTGGCCATTTATCTAGAAT
TATCTGAGGGAGAACCCCAATGAATCCAACAGATACAATCACTCTGGTTATTAGAGTAGTGTAAGAATCACAGTCATACGTGCTGACTTATTCA
GAGGGCAAAGTACCAGTGTCTGCAACTTATTTTGAAATACATTTTTAAAAACCAGATAGATGAATGGATAGACAGAGGGATGGAAAAATAAACA
GACAGGTGATAAGGCAAGTGCAGCAAAATGTTAATGGTGGAATCTAGTTAGTGGGTATACATATGTTCCCGGAAAAAAAATCTTTCAGTTTGGC
TGTATATTTGAATTTTTTTTTTTTTTTTTTTTTTGAGACGGGTCTTTCTCTGTTGCCCAGGCTGGAATGCAGTGCCAGGATCATGGCTCACTATAG
CCTTGACCTTCTGGGCTTAGCTGGAACCACAGGTATGTGTCACCACACCTGGCTAATTAAAAAAAAAAAAATCTTTTGTAGAGATGGTGTCTCA
TTTTGTTGTCCAGGCTGGTCTTGAACTCCTGGATCAAGCGATCCTCCCACCTTGGCATCCCAAAGTGCTAGGATTACAGGCATGAGCCACCATG
CCTGGCCCCAAACATTTTTATGATAAAACAGGAAAAAAACCTGCCAACATTTCTGAGGGCTTTCCCTGTGTCAGGCACTTTGTATTAGTGATCT
CAATTAGCCCTCACAAGAAGCCTGTGAGGTAGGTACCATATTACTACCCCTATTTTACAGATAAGCAAACAGGCACAGAGAGGCTAAGGGACTT
GCCCAGAGTCTCACAGCTAACAATCTAGGACAAGCTAAGATTCAAATCCAGGCCTGTGTGTTTGCAAAGCCAGGGCCTTTAGCTGTGAAACACA
GAGAATTCCGCAGATGTTTTTCAGAGCCTCCATTAAATATTACTGAGTATTATAAAACTTCTAGAACATAGGAAAATATTTTCATAACCTCAGT
CCAAGAAGAGTTCTCTAACATTCACAAAAAACACTATCAAAGAAAATAAATCAGACTTAATTAACACTAAGTTAAAAAGCTTCACTAAGATAAT
GAAAAGGCAAGCCACAGACTAGGAGAGGATACTTGCAATGCATATATTTTATAACAATTCTGTGGCATCCATAGAGGTGCTCTGCTCAGATCTC
CATTCTAGAGAGGATCTGCCTCAGCTTTCAAGCCAAAGCCACATATTTCCTTGGAGCCACCTACCCAATTATTAAGTACAGAGGTAGTATAAGG
GCTAACTATCTCTGTGCACAGTGTTTGTGTTAGAGCTCCCCATTGGATTTACTGAGACTTCCTCAAAGATGCACTCCCATCTCATTTTCTTTCT
ACCAAATTTACCTTCCTTCCCCCTTTCTTTTCACCAGTGTCAGACCTGCATCTTAAGATTTTCCCTGCCTATAACTTTTTTCTTTCCCCTTTAT
CTTTCATAGATGTTACCCCCAATAAATCTCTTGCACTGTTAATTTCATATTGGTACTTGCTTCCCAAAGGACCCAACTGGTATACTCATATCCA
GAATACATAAAGAATGTCTACAAATCAATAAGAAAAAGATAGATAATCCAATTTTTTTTTTTTTTTGAGATGTTTTCTCGCTCTGTCCCCCGGC
TGGAGTCTAGTAGTGGTGACATGGCTCACTGCAAATCTCTCGTCCCCAGGTTCAAGCAATTCTCCTGCCTGAGCCTCCCCCGTAGCTGGGATTA
CAGGCACCTGCCACTGCACCCAGCTAATTTTTTATAGTTTTTAATAGAGACGGGGTTTCACCATCTTGGCCAGGCTGGTCTTGAACTCCTGACC
TCATGATCCACCCATAATTTTGTTATGTAAGCCCTATCATTATTATTATTATCATTATTATTATTATTATTAAGACAGAGTCTTGCTCTGT
TGCCCAGGCTGGAGTGCAGTGGTACAATCTCGGCTCACTACAACCCCTGTCACCCAGGTTCGAGTGATTCTTGTGCTTCAGCCACCTGAGTAGC
TGGGATTACAGGCATTCGCCACCACACCTGGCTAATTTTTGTATTTTTAGTAGAGACAGGGTTTCGCCATGCTGGACAGGCTGGTCTCAAACTC
TTGGATTCAAGTGACCCACCTGCCTCAGCCTCCCAAAGTGCTGGGATTATAGGAGTGAGCCACCNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN



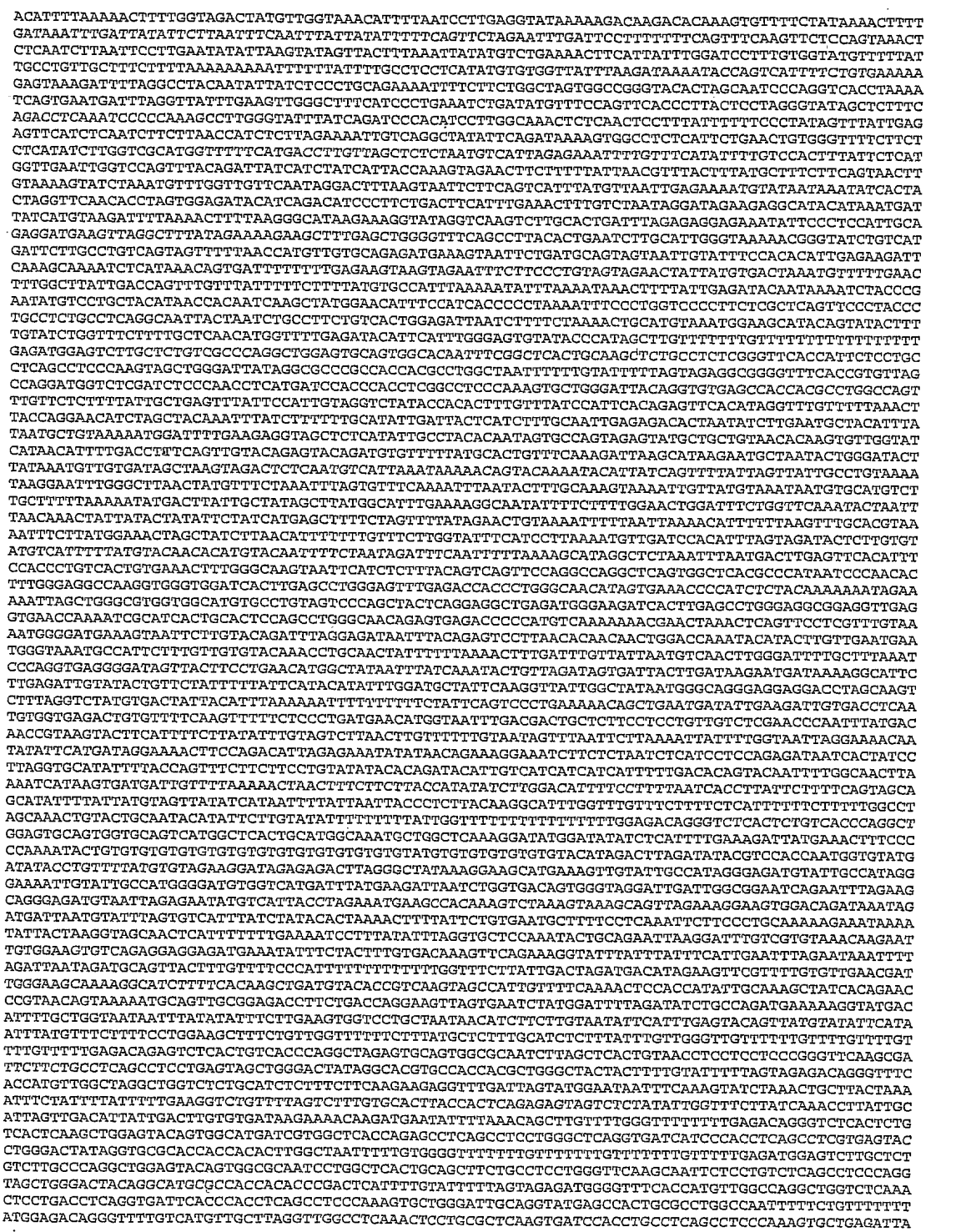
TATCTGGGCCTCCTCTGTTTTTATTTTTAAAACAGAGGTGATTTGGTCTTGCCATTTGTTTTTAACTTTAATACCTGTATAATCTAGGACAGCT
TTTAAAATTTATTTATTTTACCCTGGCACGTGCAAGAGTTTTTTCAAGACTTACCTTTTTTCCCCCTTGGTAACAGAATCCCTATTGCCAGAAT
CTTTTACAGTTTTTACCTTGTAGTGCATAAATCAGTTGAATACTCATCTGAAAATTTCCTTTCTTTGATTCTTAAGGCCCAGTTGAAAGTCAGC
CTGATGTATTGGAGTAATAAAGTCAGCCTGATATATTGGCATAGCCTTTGGCTGATGAGAGACCTAGTTTGAGGAAAAAAATAATAGATCTTAT
TTTCTTTTTCTCCAAATTGAGTAGAGGTGATATTTGGAAAAATATATATTGTTAGCTCCATTGGCTCCTTTAGGTCTCAGGCAAAGTCTGTCAC
CGAGGACCTTTATGAGAGACATGCAGTCTAGTCAGCTATTCTCAACTGTGGTGTTGACACACTGGTGTGACAATCATTTGTGTGATGTGTTGCA
AGAGTTAAAATATTTGTGTTGTAAATTATTTACTTTTTAAATAAATGAAAGCATTTGAAGGTTATCTCTATATTGTCATTTTTTCTTGCTTGCA
TTTGAATAAGGTTCTTTTTTAAGTGGGAGATAAACACAAGTTCAAGTTACAAGTAGCCAGAATTGCTTTGCCTAATTTACTCACGTCCCAGTCC
ATATTTGTACCTGAATTTTTAGATTACTTCTCTCAATATGTGCATTGTTGCTTCCACTTCATGTTTTAAGACAATTATTCTTAATCAGGAGTGT
GTTAGAATTTCTTGGAAGGCTTTTTTCAGCAACGTGTATCTGGGCTTTAAAAACTATGAAGATTTCTTTATCTTCTAAACATCTCAAGTGGGGTA
AGGACATGTATGTTTTGAAAAAACTACCTAGGTGATTCTGATGTACATCCCCAGTATGAACTCTGTTCTAGGGATTTCTTTGGATCTAAATACT
CATTTGGCTATACCAGGATGCATTATCTTCTTAAATTAAGTTGCATTTATTTTAGATTGCAGATTATGTGCTGTATCAGTTATTACCTCCAGTT
GCTTTTATGCTTGTTTTTTAAATTTGGCACTGCCATATTAGCATACCATTCATAATTCATTTTTATTATAACTTCATATAATTTTCAACTTTAG
TTTTATCATGTGTAAGATGGGATAATAATTTCTATTATTTTTCAAATGGAGATTAAAGTTAAGAGGATCAAATGAGAAATGTATATAAAGGGGT
CTTAAAATAATGTTATAATTACAATAATTAGCTTTTTTTTCTGTATACTTGATGCTGGTTGCTAATTCTAGCAATAAAGTGTTTGTTAATAATG
TGTCTATTTCCGATAATTTATGATCCATTTAAACATTTCAATGTAATTTTTTTATTTTAAAAGCTCATGCTTTATTAGATAGGCACTATGTTTT
AAAATAGCACTCTTTCTTGCCTAAGCGCAAATAAAAACATAGATATATCTTACAAACATTTTGGCTGTATTTTAGAAGTTATTCTGATGTATAT
TAGCCTTTTAAAATACTATTCAGAATATAGGGGTCAGTCCCAGCTTTGCATAGTGTTGCTTAAAGAAAAATACAGTAATCAATTTGTTTAGAGT
CAATTTTGGAGACGTTTTGGTGCTTTTCAAAACTGTGGCGATTTGAGGTTATCTTAGTTAAGAGTACTTATTTTCCCTACAATTTCCTGATTTA
TGTTTTACCCTCTTGCACTCCATAGATGACTACATTTCAACACATTTTATATTCAGGAAGAATGGCATTGTGCAAAGCACAGTACTGAGGAAGG
AGATAACTGGTGCATTGTACTGATGCATTATATAAATGATTTATAGCTGGGAAGTTTTTTAAAAATCATAAACACAGATAAATCAAAATAGGAA
TGAGTATGAGGAAATACTGAGGTGTAGCAATCCTGGTACCTATAAAGCACTATTTTTTTTTCCTTAGTAGTGGAATCTAATTAAAAAATCTGAC
TAATCACTTATATGATTATTTAACGTTTGAATAACTTGTATAAACAAAAGACCTTAAGATTTTTTAGTCATTCATTCAATAGATGTTTAATGAA
TATCTCTGTACAAGGCACTGATGAGTTAAACACAATTTCTGCCTTCAAGTAGCTTGAAGAAATAAAACAAGTAGCTTTATCTCAAGAAGAAATA
AGACGGTAAGTTTTCCCTAAATTACAGTTATTTGGAATAATTGCTATACACAGAATACTATGGTAGTTTAAAGGAGGGGAGATTATTTCCAGCT
GGGGGAATGTAGAGTATTACAGTATACTGTGTTACTTGGTTGTAATACTCTACATTCCCCCAGCTTGTTAATTTTTACCAATTAAGAGCTTCTG
CAGTAGGAAAAATAAATTCCAAGGACTTTAAATACTCAATATTATATGATAACTGATATTTATGTAGTTTTTACTATTTAAAAATATTTAATCT
TTTCAACAACTACTTTTCTGTTCTTTTTGTAAACAATCTAAAGAAGTGTCATGTAACCAATGAAGTTTTGGGTTTTTTTGTTGTTGTTTTTGTG
TTTTGTTTGTTTTTTTTTTTGAGACGGAGTCTCACTCTGTCACCCAGGCTAGAGTGCAGTGGTACAATCTTGGCTCACTGCAGCCTCCACCTCC
TGGGTTCAAGCAATTCTCTTGCCTCAGTCTCCCAAGTAGCTGGGATTACAGGTGCCTGCCACCACATCCCGCTAATTTTTTGTATTTTTAGTAG
AGATGGGGTTTCACCATGTTTTCCAGGCTGGTCTGGAACTCCTGACCTCAAGTGATCCACCCACTTTGGCCTCCCAAAGTGCTGGGATTACAGG
TATGAGCCACCATGCCCAGCCTCAGTGAAATATTTGAATGCTCACTATGAACCTAGCAGTTTTATTCACACTCTCTCTTCCCAAAGTTAAACAC
TTATCATTAACGATGTCATTTTATATCAGTTTCCCACCAAGACACCTTTAAATAAGTAGTGGGCAGGGATTTATTTGGCCTTTACTTCAGCCAC
ATAAATTATTTAAAATGTGACTTAAAAAGTAATGTTGATTTTAACAGTTTTTAAGAGGAAAATATACTTTCTTAAATACTCCTACAAGGATATA
TAAGGGTATGAAATATTTGAAATTGCAATGTGAATTTGAAATCTTTAAAATATGCAAGGATAAAATCGTGAAATACTCATCTGCATATCTTATG
TTTTTGAGTAAAACTGAAATAAGGATTATGAACTTGTTTAGGTTAAAGTCAGTTTTCTCTGGCTCTTCATCTTCTGAATAAACAAATAGGTAGT
AGATTCAAACACAGGGAGTTTACACCATACAGAATAAAATTGAAAGTTACAGTAATACTTTATTCAGTAACCCAAAGTAGAAGCCATGGAATCA
TCAATGATTCTTTAATTTCTGAGCTATCAGTGATTCTTTAATTTCTCTTAACCCTACTGTTCAGGCACCAGGTGCTGTCAATTTTATCTTTTAA
ATAATCCTTCATTCATCTTATCACTGCCATATATCAGAGATACCCTCATCATTGCCCACATTATTATAGTGGTCTCTAAACTGATGACATTGCT
TTCTTTTTTCTATCTGTTCACTGTGACTAAAACTTTTACTCTAAAATGCAAATCTGATCATGTGATTTGCCTGCATCAAAATATTCATTGATTT
CATCACACATAAAATGAAATCCACATTGCCAAGTGTGCTCTGACTTTTAGTTCTCTTTTTAAGAGAGAAAGTGTGTTCCATTTACATTGGTGAT
TCTTAAATAAACCCTCCTCTGTGGACACACTGTTCCCTTTTCCCTAGAATACCTACCTTTTTCCTCTTCATTTCCTCCGCTCTTTTGCTTCATT
AACCGCTCTTTTTCCACTGACACAGTTGGGCATTCCTGACTCTTTCGCTCTTATTTCCGCAGAATTTTGTTAGTGCTTTCCTTCCTTCTGTAGT
CTAATAATATATGTTGTTTGCCTTGCTCTTCTATAAGGTCCTTTAGAGTGACAGTTGGGATACCACCATAGTATCACTAAATCATTGTTTTCAA
GAAAGCATCTGAAATAATAGACACCATTTTTTTTTATTTTTTATTTTTTTACACTTTAAGTTTTAGGGTACATGTACACATCGTGCGGCTTTGT
TACATATGTATACATGTGCCATGTTGGTGTGCTGCACCCATTAACTTGTCATTTAACATTAGGTATATCTCCTAATGCTTTCCCTCCCCCCTTC
CCCCACCCCACAACAGGCCCTGGTGTGTGATGTTCCCCTTCCTGTGTCCATGTGTTCTCATTGATCAATTCCCACCCATGAGTGAGAACATGCG
GTGTTTGGTTTTTTTGTCCTCACGATAGTTTCCAGCTTCATCTATGTCCCTACAAAGGACATGAGCTTATCCTTTTTTATGGCTGCATAGTATT
CCATGGTGTATATGTGCCACATTTTCTTAATCCAGTCTATCATTGTTGGACATTTGGGTTGGTTCCAAGTCTTTGCTATTGTGAAGAGTGCCGC
AATAAACATACTTGTGCATGTGTCTTTATAGCAGCATGATTTATAATCTTTTGGGTATATACCCAGTAATGGGATGGCTGGGTAAAATGGTATT
TCTAGTTCTAGATCCCTGAGGAATCGCCACACTGACTTCCACAATGGTTGAACTAGCTTACAGTCCCACCAACTGTGTAAAAGTGTTCCTATTT
CTTCACATCCTCTCCAGCACCTGTTGTTTCCTGACTTTTTAATGATCGCCATTCTAACTGGTGTAAGATGGTATCTCATTGTGGTTTTGATTTG
CATTTCTCTGATGGCCAGTGATGATGAGCATTTTTTCACGTAGACAACATTTATTGAATGTGTATGTATATATGACACTTCGTAAGAATTTAGC
ACATATAATCTGTCATCTTCACAACAACCCAATGAGGTAGGTGCTATTATGATTATTCCTATTTTACAGAGGAGGAAACTAAGAGATTTTTAAT
TTTAATCACATTTCCTTGGTCTTACTGTTAAGAAGTAGCTGGGGTAGGATTCTAAAGGCCTCTTCTCCATACTGTTCTGATAAGGCCCACTGTG
TTACCATTTCTCAGGATTGCTTGCGTTCTAACAGGATAAGCCTTAGTCAGCACTAAAGTGATTAAGGGACACATTATTATTATTTTTTAATGGA
AAACATCTTCACACCCCTATTAACTCCCCTACTTGCAAGTACAGTTGAGTGTCTATTTACCTTTTCCCCCACAATTTGGATAATAAAAGTAAAG
TTGCATACATTTTAAATAGCTTTATTGACATATAATTTATGTACAACAAACTGTACTTTTAAAGTATGCAATTTGACAAGTTTTGACATATGTA
TACAACCCTGGAATCATCATCACAAGATAATGTCCCCCCTGCCTTTCCTATCCACCATATATCCCTGTTCTTAGGCAACCAGTGATCTGCTATC
GTTCATTGTATATTACTTTACATATCCTAGGGTTTCATATAAATGGAATCATACAGTATGTGCTCTTCTGGTCTAACTTCTTTCACTCAGCATA
ATCATTTTGAGAGTCGTCCATGTTATTATATGTAGCAGCAGTTCATTCTGCAGATGCATATTTTGAATTTTAGTTATTATAGAAAGTGAATACT
TTTTTTTCTCTATTATGTCTTTAGAAAAGGTTTGCATGGGACTGATTGCACATTCTTTGAGCCTAAAGTCCCTCCTGGGGCTTGTTTTGATATA
CTGTGTGTAAGTCCTTTAATATTTGAATGGAGATATAAAAAACTTACATATGCTTCTGCAAGGATTTAAATGCATTTTCATTTTCAGTGAATGG
TCTTTTCATTCAGTATTATGAATATGATGTAAAATCAAGCAGTTAAATATATTTAACTCACTTTAGGAGTGTGATATTTTACTTCTGAATACTG
CCTTCTTTACCCTTCTTGGGGAATCTTGGGGGAAACCCTTCTGCTAGGTCTCACGTGGGAGGCAGATATCTCTGAAGTGGTTATCTCAGAACTT
CATATTGACGTTAGCTATAGATATTAAGCTATAAAGTGCTAACCAGTCAATATGGTTTGAATGACTTGTTTTGACACTACATAGGGACTCAATT
TGAATGGGAAAAAAAGGTGCCTCTCCCAGCCAATCTCCAAGATAACATTTCGGTCTTGTTATTTAATGTTAGGAGGAAAAAAATCTTTGTTTTA
GTCTGCTGTTATAAAAAAAACAGAATGTTAAAATCCATTATTAATTGCTATATTAATCTCACTGACCTCCTCCTTTTTAAAAACTTTTCAGGTG
CGTATAACCCGTATATAGAGATAATTGAACAACCCAGGCAGAGGGGAATGCGTTTTAGATACAAATGTGAAGGGCGATCAGCAGGCAGCATTCC
AGGGGAGCACAGCACAGACAACAACGAACATACCCTTCTATCCAGGTAATAGACCCTTCTTCTGTGTCTATCTCACTATTAGTTGCTTCATAT
ACTAGCTATAGCAATTATTTTAAAGGGCCAGTTTCTTCACAGTCATCTCCACAGGTTTATCTTTTTCTTTTTTCCTTTTTTTTTTTAAACGGAT
CTGTCAAAAAGACATCTATTAGATAGATGTCTAAGGACATTTCTTAAATATAAAATGGAGTCTTCCCCACTGCAGATAGTTCTATGGTGCTTGT
GTATTAACCTAAGTAGAGCGACTCAATGTTGAGAGTACACTGGCAACTTTTGGATCATGTTCTTTTTCATGGAACACAGAGATAATAAGGAAAA

CCCATTCTCTGCAGAGGTGAGTGATATTATTCTGTAGATTAAACATGGATTTGAGAACTCAATCATAATTCTTCTTGGCTAGTCTTAGGGCTAG
AACATTTTTTTCTCCTTTTTCTTAACTTTATTGCTTGTCTCTGATTCTCTGGGTCATTGACTGATTTGAAATACCACTTTATAAATACAGTTTT
TTCACATTAGCATAAATTTTAAAAAGCTTTTGACCAAAAATGACTTTGGTAAACATACTAATAGTTATAAGATGTACTAAATTTATTTATTTAT
TTATTTTTGAGACGGAGTTTCACACTTGTCGCCCAGGCTGGAGTGCAATGTCGTGATCTCAGCTCACTGCAACCTCCGCCTCCTGGGTTCAAGT
GATTCTCCTGCCTCAGCCTACCGAGTAGCTGGGATTACAGACGCCCACCACCACGCCCAGCTGATTTTTGTATTTTTTAGTAGAGACGGGGTTT
CACCATGTTGGCCAGGCTGGTCTCCAACTCTTGACATCAGGTGATCCACCCATCTCGGCCTCCCAAAGCGCTGGGATTATAGGCGTGAGCCACT
GCGTCCAGCCAAGATGTACTAAATTTATTTATTTTTTTTATTTTTTATTTTTTTTGAGACGGAGTCTCACTCTGTTGCCCAGGCTGGAGGGCAGTG
GCGTGATCTCAGCTCACTGCAAGCTCCACCTCCCAGGTTCAAGCAGTTCTCCCGTCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGCCCCCTA
CCACGCCCAGCTAATTTTTGTATTTTTAGTAGAGACAGGGTTTCACCATGTTAGCCAGGATGGTCTCAATCTCCTGACCTCGTGATCCGCCTGC
CTTGGTCTCCCAAAGTGCTGAGATTATAGGTGTGAGCCAACATGCCCAGCCCAATGTACTAAATTTCTATTTTCTATTTGTAAACTATTTTTCT
TTGACTTTCAATGAAGGGTTTATCCTTTAAATGCCAATTAAAAACTTTAATGGCAAAGTAGATTTTGAAAAGTGTTGCTTTTTGTTTTTGTTTT
TGAAAAGTGTTACTTTTATCAACAGATCTTAATTCACTGTTTTATAACTAGATTATTTACAAAATCTATTCTGTTGATGAACTTAAAGGGAATT
GCTGAATTATAGAATAAACCAATGGCAAAATTATATATATTGAATTCCAGATTTCTATTTTTATCACATTTTTGGCAGTAATATGGATTTGGGT
TATCTAAGTCTTTTAAATGTTAAAATGGATGAGATGCTAATAAAAAGGAAATAAGGAAATACTATTTGTCCAGTTTTTTGAGTCATTTTTAAAC
TTTTCTTCATAATTCATCTTATCCTATGCATCTCTATTTCTAAGATATGTATTTTTACCATTCCAGTAGGTCCTAAACACTTTACAGCTTGAGT
TTTGTATTTGCCTACTTATAGTCTTGAGCAATTACCTTCTCTTTCATACAGAAAGAAATGTAATACTTCTTGGTTACTTTCAAATTCTATTTAA
ATTCAAAATTATGGATTTTAGTGCCCTCTACCTTGTAAGCTACCCATTCTTACTTTACCTTGCTCCTTTGTGGTATGCTGGTTTTTATAGTCCC
TGCTTTGTTCTTGCAACTTTACTAGCTTTCAAACTAAGCATTAATTCCTGTCCTCCTTCCTCTTCCATGTTAAACTCTCCTTTTTACTCTGTGT
TCTAGCTATACTTTCTATGTGAAATTTGATGTTGTTAAACTCAATTTGATTTATTGCCTATTCTAGAGTAAACACTTGGGGTATGCTTACTGAA
CAAATATTTTTGTGAAGTGAAATGTCATATATTAAGTAAAATGATCATATTTATGTGCTATCCTTTCCAATACGGCTTAAATATATTTTCAAGG
AATGTTTATGGTATGACAGTACGTTAAAGAGCTGGGCATTTAGTGACTTAACATCTGTTTTCTCATGTTCTATGGATAAAATTTGGGTAGAGTT
TTACTTGTTTTGAAAGGAAAATAAGCCCAGTCAAATGATATGACCAATTGAAATTAGGGCAGAAAATATGTCAAGAAACTGAGAGGTAAGTTTT
TCTGTACTGGTATTCTCTGGAAAGTTTCATCTAAACTGCAGTTGTTCGTCAGCTGGATTTTATTTATCTAGTGCCAATTACATTATAATTAATG
TAAATTGAATTCTCATTTAGTAGATCAGTTTATAATGCAATCTATTTGGATCATGTATTTAATTTCCCCCTTTTTTCAGATTATGAACTATTAT
GGAAAAGGAAAAGTGAGAATTACATTAGTAACAAAGAATGACCCATATAAACCTCATCCTCATGATTTAGTTGGAAAAGACTGCAGAGACGGCT
ACTATGAAGCAGAATTTGGACAAGAACGCAGACCTTTGTTGTAAGTACACAGTTACAGACATCTTCAGAAATAAGATAAGACATAGGATGTTCT
GTTTCTTCTCCATGACAATCTGTTACTTTTTAGCAGAATAATTTTCTCATTCTACTTCTATTTACTGTATTTTACACTTACATTTTTACTATTT
GCATTAGAACTACCCTTTCATTCTTTATTAGTAGACACATCTTATGATAGTTAGCAGGAAGACATTTTTATTGTTATTAAAAGTAAACGTAAAC
TTCTTGTATACTGTGATTTCCTTTCTTGGGGTGGACAGTTTTTGAAATAATTATTCACTCTGTCTTTTTTTTTTTTTTTTTTTTTGAGATGGA
GTTTTACCCTTGTTGCCTAGGCTAAAGTGCAATGGCGCAATCTCGGCTCACTGCAACCTCCACCTCCTGGGTTCAAGCGATTCTTCTGCCTCAG
CCTCCCGAGTAGCTGGGATTACAGGCATGCACCACCACGCCTGGCTAATTTTTTTGTATTTTTAGTAGAGATGGGGTTTCTCCATGTTGGTCAG
GCTGGTCTGGAACTCCCGACCTCAGGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGACACCGTGCCTAGCCTCTGT
CTTTTCATTTATAGTTAACTTATTATTATTATTATTTTGAGACAAGGTCTCGCTCTGTTACCCAGGCTGGAGTGCAGTGGCATGATCTCGGCCC
ATTGCAACCTTCACCTCCAGACTCAAGTGATCTTCAGCCTCAGCCTCCTGAGTAGCTGGGACTGCAGGCATGTACCACCATGCCCGGCTAATTT
TTGTATTTTTTTGTAGAGATGGGGTTTTGCTTGTTGCCGAGGGTGGTCTTGAACTCCTGGACTCAGGCAGTCTGTCCACCTTGGCCTCCCAAAGT
GCTTGGGATTACAGGCGTGAGCTGCTGTGCCACGCCCATTTACAGTTAACATAAAAATGCCTGGATGTGAGAAAAATCAACTGGAAAACTCTAG
AGTTATTATTTAGAAAGTGGCAGGTTATAGAATTAACATACAACAATAGTTCTAAGATAAAAATAGTCATGTAATACTTCATGATAGTGAGGCT
ACCAGAAGATGGGCCCATTCATCATGTTAGAATGTAAATTAATAAAGACGTCTGGTAGGCAATTTAACTACATGGCAAAAGCCTGAAAAATATT
AATGCCTCTTGAGCCAGCTGTTCCACTTCTAGGAGTTTAGCCTCAGAAAATAATTAAGTGTGTTCAGACATTATGCTCTAATGCTGTTCATTGC
AGTTCTCTTTGTAATGGCAAAAGCTAGAAGCAATCCAAATAGTAAGCAAAGGGGATTAATTAAATAAACTGATACATTCATGCAATGTACTCC
TGTACAGCCTTAAAAATCATATTGCCAATATGTCTATTGGTATGTAAATATAGTCACAATATATTAGATAAATAGGTTTTCTGTTTTTTGTTTT
TTTTTTTCTTTTTGAGACAGTCTTGCTTTGTTGCCCAGGCTGCAGTGAAGTGGTGTGATTTCGGCTCACTGCAACCTCCACCTCCCTGGTTCAA
GTGATTCTCCTGCCTCAGCCTCCCATGTTAGCTGATATTACAGGCATGTGCCACCATGCCCAGCTAATTTTTTGGTATTTAAACCATTAGAGAC
AGGGTTTCACCATGTTGGCTGGGCTGGTCTCGAATTCCTGACCTCAGGTGATCCACGTGCCTCAGCCTCCCAAAGTGCTGGGATTACAAGCGTG
AGCCACGGCACCTGGCCAGATAAATAGGTTTTAAAACAATATGTAAAGAATAATTTTATTTTTGTTTAAGATAAATTTATACATATACATGATG
TGTATATGTTAATACTAAGGTATTAATAGTAGTTGTCTGGGTGGGTAAGATTGTAGGGTTTTATGTTTTTCTTTTAACTTATATTTTATAATTC
ATTTTTGTAATGAACATGTATTGGCTTTTGGGGAAAAATGAACTAATGGCAACAGAAAAGAGATTAATAGTCTCCACATATATTAGTAATAACC
ATTTAGAAAAAAATACTTTAAATGCTCCTCTTACAATAATAACACAAAAGAAAATATCTAGTATTATACACACTTGGCAAATATTTGTCTATAT
TACTTGACCTCCCAACAACATTTTACACTGTGATCACTCCTTACTTGAAACATTTTTATTCCTTGCTTTCTGTGAAAACAAACTTCCATTTTAC
TTCCTGCTTTTCTGGCTGTTCTTTCTTAGTTACAGGCAGTTAAATTTTTGGACCACCTCACTTATTGTCCTAATAATGCTCTTTATGGCTGTTC
CAACTCTCTCCCCAATTCAGGATCCCATTAAGGATTACACACTATAGGTAACATTATATTTAACATGAATAACATGAATAATATTTTCATGTTA
ACATGAAACATTTTGGGCAAGAAATCTATAGAAGTGATGCAGTATAACTCTAAAAATATCCCTTCAGTTTTTTACATTATTGGCGATATTATCT
TGGCATTCTATTATAAAGAAGAACTTTCCCTTCCTCTCTTTCTCCATTTAAAAAGTATCACTGTAAACTCATGCATTCTTGTATTTAATATATT
ATAGTTATTCTGTTATTCTTTTGATTTTCAAATTGACCCAGATTTGACTAATGCAAGCCTCTTCAAACTGTCTCCTGTGTTTTTTTTGATATGCC
GTCATCTTTCTTTGAGCACTTTTTTACTTTCTGACAAAATGAAATGTTCAAGACTTGTGCTTTTCTTTTTTCTTTTTTTTTTTTCCTTTTTTTTT
GAGACAGAGCCTTGCTCTGTTGCCCAGGCTGGAGTGCGGTGGTGCGATCTCACCTCACTGCAACCTTCCCCTCCCAAGTTCATGCAATTTTTGT
GCCTTGGCCTCCCAAGTAGCTGGAATTACAGGCGTGCACTACCACACCCAGGTAATTTTTGTATTTTTAGTAGATACGGGGTTTCATCATGTTG
GCCAGGCTTGTCTCAAACTCGTGACCTCAGGTGATCCTCCTGCCTCAGCCTCCCGAAATGCTGAGATTACAGGCATGAGCCACCGTGCCTGGCC
AACTTGTGCTTTGCTTGCCCCAGCCCTGAAGTCATCAGCTTTTTCCAGAGATTCTTGGTTCCTTCTGGTGGGGAATGGTAGTAAGTCTGATTGC
CTTCTCAACATATTCCCTTAAATGTCTCAAAAGTACCTTAAGTAGCGGGGCACAGTGGCCCATGCCTGTAGTTACAGCTACTCAGGAGGCCAAA
GCAGGAGGATTGCTTGAGCCCAGGAGTTTGAGTCCAGCCTGGGCAACAGAGCGAGATTGTATCTCTTTAAAAAAAAAAAAAAAAAGCACTTCAA
ATAGAATATTCCCCAAACGTGATTTTACTGTGATCATATCTCTTTCCCCTCATAACTGGTCTTCTTCCAATGTGCCGTATGTTAGTGATTGCGA
TAAAAGACCTATAGGTGTCATCTCTGACATTCCTCATCCAGGTGTACACATTGAATCTACTAACAGTTACCTTCTCAACTGGTTTTGAATCTAT
CCACTTCACTCAGTGAAATTCATCACCGTCATACTACCACTATAGCCTAAACTGGGGCTGCTGGAATAACCTCCTGACTGGTCTTGCATTAACC
ATTTTGTACCTTTTCCAAACCCTCTATCTTTCCTCGCTTTAGCCAGTGTGATCTTTTAAAATACAAATGAAATTGTCTTTCCCTTGCTTAAAAC
ATTTTAATGGGTTTATTTGGCTCTTGGAATAAAGACAGCATTCCTTCTATATAGCCTATAAGGCCCACATGACCCACCTTTATTTCTAGCCTTC
TATTAAACTCTGCTTTCCTTAATTTTTATACTCCACTCACAATGCCTTCCTTTAGTTTCCTCTGTTTCCACTGCTCTTTTCTAGGGGTCTTTGT
GTGGCCTGTTCCTTTTGCCTGGAAGTGTTTTTCTTCTGTTCCAGCATAGGCTCCCATAACATCATGTATACCTCCTTCATAAAACTTGTTATGA
TTGCAGTTTAGCATTTGTGTATGTGTGATTATTTAATGTATATCCACTTGACCAGAGACTACCAGACTTTTTCTGTAAAGTACTAGATAGTAAA
TGTTTGGGGTTTTGCAAGCTGTATGGTCTCTGTTGCTCAGCTCTGCTGTTGTAGCATGAAAGCAGCCATAGATAATATGTAAACATCAGTTTGG
CTGTGTTCCAATAAAACTTTATTTGCAAAGACAGACAAGATGTTGGATTTGGTCCATGAGTTACAGTTTGCCAATCTTTCCACTAGACTGTAAG
CTTCTTGAGGAAAGGGATTGTATATCCCCATTACTTTGCAGAGTTTTTGGTATATAGTACGAACCCCAAAGCTTGTTGAATGTCTGTGAATGAA
TGAATGAATAATTGATTCAAACAATCTCTTGATCCTTCATTTCAGAATTTCAAAAATTACCACCACCCCTAATATTCCGTGAATAGCAGTCAAA

TATGAGATTATTCAGATGAAACAAAATGAAGTAATATAAATGTATTAATATGAAGAATTCTATAAAATCTTTTACCAAAGAAAAAGAATCAAAC
CAAGAATCTTTCAAAGAAGTGGAAATACTTTTGAGGAAGAGGATTATAGTTGCAAGATTTCAAGAAAGGATTAAGAATTCAAGATTTAGCTGAC
CAAGCATAGTGGCTCATGCCTATAATCCGAGCACTTTGGGAGGCTGAGGCAGGTGGACTGCTTGAGTCCAGGAGCTTAAGACCAGCCTGGGCAA
CCTGGTGAAACCCTGGCTCTACAAAAATACAAAAATTAGCCAGGTAGGGTGTCATGTACCTGTAGTCCAGCTACTCAGGAGGCTGAGGTGGGAG
GATCACCCGAGCCTGGGAGGCAGAGGTTGCAGTGAGCCGGTATGGTGCCACTGCATTCCAGCCTGGGTGGCAGAGTGAGATCATCTCAAAAAAA
AATGTTTTTTAAGATTTATTTTTGTAGTTATTGGAGGCAGAGGAAGGAAATGTGAAAGATATTTTAGATGCTAGCAAAATTGTAGATGTGAAGA
ACATGAGCATAAGACAGCATGAGTATGGAGACAGGCAGACAAAGTAGCCTCCGGTTGCAAGTGCCATGTGAAGTTTGAACAATAGTAATGTTAT
TATAATTGAGTTTTGCTTCCTTATTCACGCCCACCCAATTTTACTGATGTCATGGTTTTTCCATGTGGGAACAAGTAATATGACTGGTGGTGGTGGG
GGAGTTCCCCCCACCATCGTCTATGCTACACATATGCAAATTAGTAGTATTTGTAGCTATTGGGAAGTTTTTCATAAATGACATTTTGAAACTT
GTTAAATATTGTTAGCATTAAACTTCTTTCTAATACAAAAACATTTTAGTAATTTTTTATGATGAATGGCTATAACTTTATATAATGTGGCACA
AAACATATTCTACTGCTAATAACAGTGAATTCAGGGCTCAAAAAGCAAATCTCTGTGGAGCTAGGCAAGCAGCATAAATGAGTGGTGTGGATCA
AGTGTAGGAGGACTAACAGGCACTGTAGCAAACTAAAGAGCCCTGAATAAATGGGGCTTAGTCCCTAGCCTGTTGTTTCTGTGCCAACCTAGTA
TTGCCAGGTCTTTAAAATGTACAAGAGAAGCCGGAAATCCAGATGTTCATATGCAATTACCTGATTTCTAAATGTAGATAACCTGTGCAGATTT
TTAAAAATATAGGCAACACTTTTGTGAGCCTAGCAAAACATACCTGTGGGCTTCAACCTGTGAACATCTCTTTACAGCTTTTGCTTTACATTAT
CAAACAGACTTTATTGATTTGATTCTGAATTTGTTTGGGAGGCAAATTTTACCATTTAATATTGCTTTACTGTTAATCTATATTTTGGTATGTT
TGACATAGGCATATTAGTAATTGTAAAACACTGTATGTTAAAATGATATAGTATATATTATTTTTCTTTTAACAGTTCTTAGAAGTACAACCCC
ACTTCTTTTTTTTTTTTTGAGGCAGAGTTTTGCTTTTGTTGCCCAGGCTGGAGTGCAATGGCGTGATCTCGGCTTACCGCAACCTCTGCCTCCC
AGGCTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGAGATTACAAGCATGTGCCACTATGCCTGGCTAATTTTGTATTTTTAGTAGAGA
CGGGGTTTCTCCATGTTGATCAGGCTGGTCTGGAACTCCTGACCTCAGGTGATCCACCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCAC
AAGCCACGCGCCCAGCCATATAATCCCACTTCTTACTCTCTCATCTTTATCAGAGCAATTGGAAGCACGTTCATGCTTTGGTATGTACAACTGA
CAGCATGATAACTTCAGTATTGCTATATGTTTGATTTTTGCAATATTCCTTGTGTTTATAATGCAGTTTTGAATATTGTTTTTTTTCCTGCTAGT
TTCCAAAATTTGGGTATTCGATGTGTGAAGAAAAAAGAAGTAAAAGAAGCTATTATTACAAGAATAAAGGCAGGAATCAATCCATTCAATGGTA
AGTATGTTTGATAAAATCATTTCTATTTATTTGGGTGTTGATTTCTGTTTCTTTTTTCTTTCCCTTTTTTTTTTTTTTTTTTTTTGAGACGGA
GTTTTGCTCTTGTCGCCAGGCTGGAGTGCAATGGCGCGATCTCAGCTCACTGCAACCTCCGCCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGC
CTCAGCCTCCGGAGTAGCTGGGATTATAGGCGCCCACCATCACACCCAGCTAATTTTTGTATTTTAAGTAGAGACGGGGTTTCACCATGTTAGC
CAGGCTGGTCTCGAACTCCTGACATCAGGTGATCTACCCGCTTTGGCATCCCAAAGTGCTGGGATTACAGGCGTGAGCCATTGTGCCCAGCTAT
TTATATCTTCAACCTGTGTTTTAAGTTCTGTGTTTACTTTTCTACTTGTTGACATGTACCTGTATCTGAGGAATGACGTATACTATTTAAAATA
GTTTCTTCACAGTTGTTGAAAAAAATCTTATGCACAGAGAGGTTTTTGGTATTGTTGGAGAGTGTCACTGTTTTATATAATAAAACTTCAAAAT
GTTGTGATCCTTTTGAACATGGCCTTCCTTATGCCACTTCCAGCAGACAACATACTCCCCCCTTTTGAGTGTTAAATAGGCACTGTGTTTTAT
AAGGTATTGGAGTGCATTTAGCTCAAGGGTAACACTTAATCCCAATGTGGAAGAAGAAGCATAGAAATAATAGAAATCACACAAAGTATTTTCA
TAGCATATTTGTGTATATGACTAGATATTTACTGTTCAGTGAATTTTATTGGGGATAGCATTTATTAAGTATTTATACTTATGGTACTATCTGC
CTCATGCTGTAAGTATAAATGCTTAATACTCCCTGGCTAACTGTTACTTGTAAGCACTCTGTATTGTTTGAATAGATAAGTACTACCACACTAG
ATGCTGGCATCCTATACTTAGAGTAGCCTCCATTCTGAAGTCTTTGCAGCTACTTAAATATGCAGAAGTCAGGAATTAAATGACTGTAATATTT
TCAAAGAATATATTTCTTGGTCATATTTGAGACATCCTTATACTGTTGGTTTGTATTTTTCCTGGATGTATAAAAATAATTTAAGAGATATGTT
GATAATTTAAGGAATATATTCACAGGTAATTACTGTTTTATGAACCATAAGATCTGCATCTCTTTAGGTTTTATTTTTCACACTATTTAGTATA
AAGCGGAAAGTAAAAGTCACCTTCTTCCCTTCCAGTCTTACCAGGGGAGACTGCTATTAAGTTTGATGTATATTTTTCTAGAATTTTCTTTATA
CATGTGTAGTTATATGTAGACATATATATTTTATAAAAAAGGAATCATGCTATATATCCTATTCTACTCCTTCATTTTTTTCCACTCAGGAATA
TACCTTAAACTTTCCATGTCAATACTTACAAATCTGTTTTTTTTTTTTAACAGAATATTTTATTGTTTGGGTAGAACATAATTTGTTTATTTAG
TCATCTTTTTTTTTTTTTTTTTTTTGAGGTAGTCTTGCTCTGTCGCCCAGGATGGAGTGCAGTGATGTGATCACAGATCACTGCGGCGTTGACATC
CTGGGCTCAAGCGGTCATCCCACCTCAGCCTCCCAAGTTGTTGGTGCACCACCATGCCCATGCCCAGCTAGTTTTTGTATTTTTTGTAGAGACA
GGGTCTCGCCATGTTGCCCAGGCTGGTCTCAAAACTCCTGAGCTCAGCAATCCACTTGCCTCGGCCTTCTAAAGTGCTGGGATTACAGGCATGA
GCCACTGCACCCGGTCTATTTAGTCTTCTATTAATGAACATGTATGTTGTTTTCATTTTGTTTTAAAAGCTCCACTGAATATACACTGTGAGCT
CTTGTGTGATTATTTCCCTAGGATAAATTTTTGGAAGTGGAAAATTTCTGGGTCAAGAGTATGCTCATTTAAAATTGTGATTCATTGCCAAATT
AATAGGCCAGACTTTTAAAGAGGCAGGTAAGTCTAGATGCAATATAAAACAAGGAAATTATAAGTGATAGCTATCATTTATTAAGCACTTCTTG
TATGTCAGGGAGTAAACGTTAGTGCTTTATGCACACTACTTTATTTAATCGTTGGAACAATTCTGCTTTATGGAAGAGAATGCCAAGACTTTTG
TTATTTAACTGTCCCAAATCATGCTGCAAATATAAGTGGCAGACCTGGAATTCATATGCAGGTTCCTTGACTCCAGTGGTAAAGGCATTAAAAA
GGAAGATGCTGTCTGTGGAATTTCTTTTTCTTAGTTTTGGCAGCTCAGAATCAGGCTTGTTTTTTGAGATGCCCGGGCTGGAGTGCAGTGATGT
GATCACAGCTCACTGCAGCCTTGACCTCCCAGGCTCAGGTGATTCTCCCACCTCAGCCTCCTAAGTAGCTGGGATTACAGGTGTGCATCACCAT
GCCCAGCTAATTTTTTTTTTTTGAGACAGAGTCTCACTCTGTCACCCAGGCTGGAGTGCAGTGTCACAATCTCGACTTGCTGCAACCCTCACCTC
CTGGGTTCAAGCGATTCTCGTGCCTCAGCCTCTCGAGTAGTTGGAAATTGTAGATGTATACTACGCCTGGCTAATTTTTGTATTTTTTATTAGACA
CAGGGTTTCACCATGTCAGCCAGCCTGGTGTTGAACTCCCAACCTCAAGTGATCCTCCTGCCTCAGCCTCCCAAAGTGTTGGGATTACAGGTGT
TAGCCACCACGCCTGGCCAGAGTTTCTGTATTTTTTGTAGAGATGGGTTTTGCCATATTCTCCAGGCTGATTTCAAACTCCTGGGGTCCAGTGA
TCCGCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGGGCCCGACTCAGGCATGATATTAATAGTGAATTCTCATAATGG
CAATTAAAATAGTTGTTGGTAGATAGTAAGTGCTTTATATATTTTATTTCATTTAATCCTTATAACAGCCTACGAAATAGGTACTATTAATAAC
TCAATTTTAAAAATAAGAAAATGGAAGCATAGAAAAGTGAACTCAGGCTTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGGGGATCACGAGA
TCAGGAGTTCGAGACCAGCCTGACCAACATGGTGAAACCTTGTCTCTACTAAAAACACAAAAAATTGGCTGGACGTGGTGGCACGCGCCTGTAG
TCCCAGCTACTTGGGAGGCTGAAGCAGGAGATTCGCTTGAACCCAGGAGGTGGAGGTTGCAGTAAGCCAAGATTGCTCCACTGCACTCCAGCCT
GGGCGACAGAACGAGACTCTGTCTCAATTAAAAAAAAAAAAAAAAATTAGCCGGGCGTGGTGGCGCACACCTGTGATCCCAGCTACTCAGGAGGC
TAAGGCAGGAGAATCGCTTGAACCCAGGAGGCGGAGGTTGTGGTGAGCCGAGATCACGCCATTGGACTCCAACCTGGGCAACAAGAGTGAAACT
CCATCTCAAAAAAAATAATTAAAAAAAAAAAAAAAAATCAAGTAGGCCAGGCACGGTGTCTTATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGT
GGAGAGGATTGCTTGAGCCCAGGAGTTTGAGATCAGCCTGGGCAACATGGTAAAACCCCATCTCTACAAAAATTTTTTTTAATTAACCAGATGC
AGGGGTGCACAACTGTGGTCTTAGCTACTCAGGAGGCCGAGGTAGGAAAATTGCTTCAGCCTGGGAGGTCAAGGCTGCAGTGAACGGTGTTCTC
ACTATTGCACTTCAGCCTGAGCGACGGAACAAGACCCCGTCTCTAAGTAAAGAAAAGGAAAGTAATTTGTTCAAGGTTATATAGCTGATGAGTG
GTAGAGCTAGGATTTGAACATAGGGAGCCCCTGACTCTAAGGTCATGGTTTTAACAACTCTACCATGCCGCCTGGATGAATATTGATTTGGGGA
AGGAACAATCCTGCCAGTTAATCCTTCCCACTATTTATGTTTCCTGTTGTTGTTTACTTGTTTTTTCTTTGTTTGTTTGTGATGGAGTCTCCCT
CTGTCGCCCAGGCTGGAGTGCAGTGGCACGATCTCGGCTCACTGCAAGCTCCGCCTCCCGGGTTCACACCATTCTCCTGCCTCAGCCTCCCGAG
TAGCTGGGACTATAGGCACCCGCCACCGCACCCGGCTAATTTTTTGTATTTTTAGTAGAGATGGGGTTTCATCGTGTTAGCCAGGATGGTCTCA
ATCTCCTGACCTTGTGATCCGCCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACACCCAGCCTGTTTGCAAATTCATTC
CTTCCCGAGCCTTTCAGCAGTGGTTCTCAATTTGAATGTGCATAGGAATATCTTAGTACTGTTAAAAATGTAGATTTCAGGCCACACTTCCACT
AATTTGATAGGGCTGGTATGGGTCCTGGGAATCTACATTTTAAAAAATATTTTTAAAATAATAACTTATCCGAGTCACATGGCACCAAAGTGTG
TTAGCAGCCAAAAGTATCTGTTCGGGTCTGCAGCAGCCCCAATTCTTGCCTCCTCAGGAGACAGAAGGAGAGACCGAGACAAGTTTTAGAGCAG
GAGTGAAAGTTTATTAAAAAGCCTTAGAGCAGGAAGGAAAGGAAGAAAAATACACTTGGAAGAGGGCCAAGCAGGTGACTTGAAAGACAGGTGT
GCTGGGAATCTGCATTTTAACAAACATCTAGATCAGTATTTCTTAACTCTTTCACCATGACCCACAGTAAGAAATAGATTTTGTTTTTGAGTTC

AATATATATACATACACCACACCCTTAGGACAGCGATACCCTATGTATTAGTCCGTTTTCACTCTGCTGATAAAGACACACCTGAGACTGTGAA
GAAAAAGAAGTTTAATTGGACTTACAGTTCCACATGGCTGGGGAGGCCTCAGAATCATGGCGGAGGTGAAAGGCACTTCTTAGATGGTGGCAGC
AAGAGAAAATGAGGAAAATGCAAAAGCGGAAATCCCTGATAAAACCATCATATCTTGTGAGACTTATTCACTACCACGAGAGCAGTATGGGGGA
AACCACCCCCATGATTCAAATTATCTCCCACTGGGTCCCTCCCACAACACATGAGAATTATGGGAGTACAATTCAAGATGAGATTTGGGTGGAG
ACACAGAGCCAAACCATATCGCCCCACTACATGCAGTGTACTCAATTCTATTCTGTACCTTTCCTTTCCCTTCTTTTTCTTTCTCTCTTGCATT
GTTAGTGCTTACCCAGCCCACTAAATTAATTTTACAATCAGTGGTTCCCAAGCTACAATTTGAAAATCTCTATCTGAGATGATTCTGATGCAAG
TGATCCACAGAGTATACTCTGAGAAACTTTGATCTGATCTACATGCTGAGTTCAGCTTCTCAAATATGGCCTTTAAAGCCCTTCATAATCTGGA
AGCCTTCCTTTCCATTCTAGCTTTCATTCTGTACCTCAGCTTCCTACCCCTCCTTCCTCTACCACTGAGTGCACACATGCACTTACTTGTTTTT
GCCGTTCTGAACTATCTGCACTGTTAGAAGAGCCATGTTCTTTCTTACCTCTGTGCTTTTATACATGCAGTTCCTTTGCATGAAATACCCTGAT
CTGCCTGGTGAATTTTTCTTACTCACCCTCCAAGTTTAAGGATCACATCGTCTTTAAAGCCTTCCCTGACCTTCTCTCTGTTTTCCCAAAGTAC
CTGTGTGTGTGTGTATATATATATGTGTGTGTATGTATGTGTGTGTGTGTGCGTGTGTGTATGTGTGTGTGTATATATATATATATATATAT
ATATTTTTTTTTTTTTTTTTTTCTTTTCCGAGACAGAGTTTCGCTCTTGTTGCCCAGGCTGGAGTGCAATGGTGCAATCTTGGCTTACCGCAAC
CTCCACCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
TGCCTCAGCCTCCCGAGTAGCTAGGACTACAGGTGCCCGCCACCATGCCCAGCTAATTTTTTTGTATTTTTTAGTAGAGACAGGGTTCCACCGT
GTTAGCCAGGATGGCCTCGGTCTCCTGATCTCGTGTTCCGTCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCACCACGCCCCG
CCTTATTTGTACTTTTCTACCAAAAATATCACAGTTGTTTTCCTTACCTGAGATGCCCTGAAAGCCTTCTCAGTTCTCTTAAGTCTGAGATAAC
ATCTTCCTAATTATACGGTATACTCAGCAATTAATCATTGAAAGTTTTGTGTTATCTGTTAGATCATTTGATTCTTCAGGAATTTTCTTAAAAT
ATTAATTTCATGCTACTTGTGGACAGGGTCTGTGATGGAATCTTGTTTCCATTTCACTTTGGCACCTAAACAATGTATTTGTTTTACTGTTATC
TCTATCTTCTCAGCTAAGTGCCTTGAGCTATTGAGTTTCCTACCTGCACACAATAGATTCCCCAACTAGTGTGTTTTAAGGCCGGCCTTTATCT
TTCTTGCCATTTGTTCTTTAAAACTAAGAAACAGTCTCTAGCAAACGGGGCATAAAGCAGTCTAATACTGTCAAATTTGAGGCTTCAAGTAAAG
GATTATTCAAATTGTCTAATTGCCAAAGTCTAAATTGGGTGAGGAATTTAATTAGGGACTCCAATATCAGATTTTAACAGTGTTTACTTAGCTA
GAACAAGAGTGGCAGTTAGACTTTGTAGAGGACTCTTAACTGCAAAAGCTGAAAAAAATTTGTAATTATATATCATTTTCTAGTTATGTACTTT
GGTAATGAAATGTTAGGATTTCTAGTATGCGGCAGTTAAACTCCATAGAATATCTAAACTGTATATTAAATTTTGTGCAATAAAATTGATTTTG
ACAATAAAGAATTTGCAATTAAGTTTTATTAGGTAGTTTACTGTTTTCCCATGTAGAGAATCTTGAGTTGTTATGAGAGTAAAAGGCTGCTATA
CAGTTGAGTTTGGGAAAACTACATTACTTAGTAGTCTGAAAGGGAATACAGTTTAATAAGTAGTCTAACATAGATTCTTATCTCTAAAGTCTGG
TCTAATACAAGAAAAAGCCTTTCCTTACAACTGAAAACTTAAAGTTTGAAAAAATGGCTCATGTGTACTTCATTGTCCTTTCTTTATTGCAGTC
AGAGTTTTCGAAGCCTTTTTTTCATTACCCTAGGCAGAACTTGTGTACTTTCTTGCTTTCAGTATTCCTTGAGCATATTTCCATTATAAAGTTT
TTCATGTTGTATTATATAATTTTAGTTTATGTATCTATTTCTCATCCAGATACTCATCTCACTAAGGTCAGGCATTGTCTTTTCAAATTTGTAT
CTAACACTTTACTATGGTAGCACATAATAGATACTCAATAAGTATGTTGAAAGGTTGAGTAAATTAATGATATACTTCTAGTATACTTCTAGCA
CCTTTACTGTTTGCCTGGCACATGAACACTTAAATGTCAACTTTTATTATTATACATAGGGGATACTTTATATACTTTTTAAGTAACAAAAATG
TAAATTAATTATAACTAAATTTTATATTTTCCTTAAGTGAGACTTAGTTCATTTTTTTTTTTCTATTATTTGTAGAGACAGGGTCTCCGTAT
GTTGCCCAGGCTGGTCTTGAACTCCTGGGCTTAAGTGATCCTCCTGCCTCGGTTTCCAAAAGTGCTGAGATTACAGGCATGAGCCACCATGCCC
GACTGAGACATAGTTCTTAAAATTGTTATTCCAGGCTGGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGATGGGCGGAT
CACGAGGTCAAGAGATACAGACCATCCTGGCCAACATAATGAAACCCTATCTCTACTAAAAATACAAAAATTAGCTGGGCATGGTGGCGTGCAC
CTCTAGTCCTAGCTACTTGGGAGGCTGAGGCAGGAGAATCAGTTGAACCAGGAGGCGGGGGTTGCAGTCAGCTGAGATGGCGCCACTGCAC
TCCAGCCTGGCGACAGAGCAAGACTCCATCTCAAAAAAAATAAAATTATTATTCCATATGCTGTGTATTTTTGCCTTGTTATTTATTTTTATTT
CAGTAGTGTTTGACAGTATTAGAATTTTAGAAATGTTACACTTCTAGAGCTAGTAGACATAATTGATTTTTAAAATTTAATTCCTGCTTATGAA
AAATATAGCATGATAATATCTTCTTGGTTAAGAATGAAATTCTCATTACACACCTACTGATTTTAGGGTTAAAGGAGTGATATTTCTTTCTAAA
GGTAGATTAAACATTTAACATAAAAAGGAAGGGGCTGGGCACGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGCGCAGATC
ACGAGTTCAGGAGATCAAGACCATCCTGGCTAACAGGGTGAAACTCCGTCTCTACTAAAAATACAAAAAATTAGCCGGGCATGGTGGCGGGCGC
CTGTAGTCCCAGCTACTCGGGAGGCTGAGACGGGAGAATGGCGTGAACCCGGGAGGCGGAGCTTGCAGGGAGCCAAGCTCACATCACTGCACTC
CAGCCTGGGTGACAGAGTGAGACTCCATCTCAAAAAAAAAACAAAAAACAAAAAAAAAAAAACATAAAAAGGAAGGAGAACAGGAGAACAGTTA
TTACCTTATATTTTGACTAACTACAAAGTGAAATTTTAAACTAGTTTAAGAGGAATTTGAGAGAAGTCGATTGGTCTCATGCTTCCTTCCGTTA
GTTTCTGCAAATGTTAAAACTGAGTATCAGGCCAGGCACGGCCACTCACACCTGTAATCCCAACACTGGGGGCCCAAGGTGGGTGGATCACTTG
AGGTCAGGAGTTCCAGACCACCTTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAACTTAGCCAGGCATGGTGGTGCATGCCTGT
AATCCTAGCTGCTTGGGAGGCTGAGGCGTTAGAATCTCTTGAACCCTGGAGGCAGAGGCTGCAGTGAGCCAAGATCACAACACTGCACTCTAAC
CTGGGCGACAGAGTGAGACTCTGTCTCAAACAAAACAAACAAAACTGAGTATCAATTTTGACATTACAGAATAAAACACTGCATTTTGTATTAT
AGAATGATATGTATCTATTAAAATGCCTACAGCAAGCATTATCCTAAATAAGAGAAATATCAGAAACATTCGCTTTGAAGTTAAGAATGAGAAA
CCAAGGCACACTTTTACCACTTGTATTCAACATCGTAGTGAAGGTCATAGCCAGAGCAGTGAGCATTGTAGCCAGTGTACAGTAAGACCCCCCA
AAAAGTAGAGGCATAGGATTGAAAAATGAGGAAATAAAACTATAATTATTTGAAATTATTATAGTGATAACCCAAAAGATATATAAATGGATTA
TTTAGATAAGTTTAAAAGAGTGAGCTTTGTGCATTGGCAGTATAGCCAAGTGAGGTTTATCTTAGGAGTGGTTATTGTTAATTGAAAACTTTTT
CCTAATATCCTGCTGTCATGACTTGCAGTATAGTCAGCATTGGCAATTTTTGACAGTCTTTTTGGAGACTGAATAAAAAATAAAGTTTAAAAGG
GTTAGTGGATGTAAAATTAATATATAAAGGTCAGTCATATTTCCATATCTCAGCAGCAAATAACTGGAAAACATCATTAAAACAAATATTGTCA
GGAGATATGAAGTATGTAGAAACAAATCAAAGAAATGATAAGATTTCTTTAGGGAAAATTATAAAATTTTATTATGAGATCTTAGAGAATACTT
AAATAAATGGAGAGGTATTCCGTGTTCTCTAATAGTAATATTGTAAAAATGTCATTTTCCCAGGCCGGGCGTGGTAGCTCACACCTGTAATCCC
AGCACTTTGGGAGGCCGAGGCGGGCGGATCACAAGGTCAAGAGGTTGAGACCATCCTGGCCAAGATGATGAAACCCCATCTCTACTTAAAATAC
AAAATTAGCTGGGCGTGGTGGCACAGGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGCGGAGGTTGC
AGTGAGCTGAGATCGTGCCACTGCACTCCAGCCTGGGCAAAGAGCAAGACTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAGTCATTTTCCCCC
AATTGATAAGTAGATTCAATGCAACTCCATATTAAATGTGATAATTCTAAACAGGAACAGAATATAGAAAAGAACAATGAGGAGAATTGACC
TCATCAGATAGAAGTATTAATACTAATTAAGGCAGTGTCATATTGGGATAAGAATAGATAGATTGACTCATTGGAGTAGAATTGAGAGCCCAGA
AGAGACTCCAATCACCTGTGACCCTGAACTGGAATAATTGGGTAAATCATTATCTTAACTTGTTTTTATTAATCTTTCTTAAATGTATGTATAG
CTCAGATTTATTTCAATATTTAATATTGCAAGCGTTTTGGTCTTATAAATTTAGTGATGTTTTTGTGACCCATAGTCTGCCGTAGAAACTTAAC
TCTTATTAATATTGATTAGCCTATGGTAAAATTGGTTTTATTATGGTGTTGTTTCGCTTGAAGTTGCAATTTCCAAGAACCTATAGACATCATC
CTAGAAGACATTAAGTGAAGACTTACTGTGTATATAAGCAGATTTGAAATTAAAAATATAAAAGATCTTCTGAAGTTGCAACAGTGCTCAGAAG
TATTATAAAATAGAAATAAATCATTTCCAAAAGAGAGATTTCATTTTTGCCCAAAATCTTTCTTCTAAGCTATAAAAGACAAAACTGTTCAATA
CACAGTTTTGTCAATTTAAATCTACATATTCACCCAATTTTTATAAGATAAAATAAAAATGTATAATTATTGAAAAAGAATTGAGAGCCCAGA
AACAGAGCTAAGGAAATATGCGACTTTAGTGTATGACAGAGGTGGCATGTCATATCAAGAGGAAAGGAGGAAATGTTTGAGAAATGAAGCTTGA
AAAAAAAATAGTTATTTAATTAAGTCGGATTCCCTACCTCACATCATATACAAATATCAGCTGAAGATGGATTAAAGGCTTTAAAAGTGAATCA

SAGRES DISCOVERY 02-15



CTTTAAACAATTTTTTACTAAGAGAAAAATATCCTTTTCTACTGATACTACTGATTTGGGACATATTCTATAATACTTATTAAATCCAACTTAC
ATACATATTTATTGAAAACATTTTCTATATGTGAATAAAATATTTGTTTATTAAAGGAGAGGATACAATCCTATAATTTTTTATCTGCTTTCCT
GGTTTCTTTCTAATCAGATACTTACGGCAATAAAGCAAAGAAACAAAAGACAACTCTGCTTTTCCAGAAACTGTGCCAGGATCACGGTAAGAAT
AGTTTGGATCGATTCATATTTAAATAGGTTTTGTTTTATTTACTTTATTCAGTTTTTCAAATTTTATTATTTTTGTTTTGTTTTGTTGTTTGTT
TGTTTTTTGAGATAGCATCTCTCTCTGTCACCCAGGCTGGAGTGCAGTAGGGCAATCTCAACTCACTGCAACCTCTGCCCCCCAGGTTCAACAA
TTCTCCTGCCTCAGCCTCCCGGGTAGCTGAGATTACAGGCATGTGCCACCACACCCGGCTAATTTTTGTATTTTTAGTAGAAACAGGGTTTCGC
CATGTTGACCAGGATGGTCTTGAACTCCTGACATCAGGTGATCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGGGAGCCACCACG
CCCGGCCAGTTTTTCAGATTTTAACTGATAATGTTATTTTTCAAATGACATTTAATAATGGAAAAACTTTATCCTAACAGTTAATTTTCCTGAG
AGACCAAGACCTGGTCTCCTCGGTTCAATTGGAGAAGGAAGATACTTCAAAAAAGGTATTTTATTTCCTATAGCATATTTCTTGTGATCAGAAA
GACCAGTACTTTGCACAATATATTGGAATTCTATTTTTAGGAATGAATAACTGCTTCTTTGAAAATTTTCTCTCCAGATTTTTCATGCTTTCAG
TATAGAATGAATTAAGCATGGCTTCTGAAGGTTGTGTTAGAAACTGATTATGTTTTTGGGATTTATTGTTCAAGAAATTACATGTTGTTCATAT
GGTAGCAATTTTATTAATTACATTGCGTTATGAAAAAATGTTACTGATTTGGTTAGTTACCTGTTTTTATAAATAACATTTTACTGGAACACGG
CCATGAATATTTGATTAAATATTATCTCTAAACTGCTTTTTTTTTTTAACACTATGGCAACAGGGTTGAATAGTTCCAACAGAGGCTGTATATA
GCTCACAAAGCCTAAAATATTTACAATCTGACTTTTTACAGAAAAAAAAATTGCCAATCCCTAGTTTAGGTAATTCAACCGAGGGCTAATTAGA
AGAAGTCTTTTTTCCCCCACGTACATTCTTAAATCATTGCTTTTTCCTGGTTTAGTTTGTAAAGCATTTGTATAATATGTAAATAGATACAGAA
TTAATTTTTTCTGTAATTTTTTTCTGACTGTGAATTTTATAGTCTCTTAGGGTTCTGTTGTAATATATCTTAAAAGTTATGTGTATTTTCTTAT
CCCTAATGAGTGTTGTCTCCATCCTTCCATTTTCTCCTAAAAGTGAAGAGTAAGAGATGATTTTGGCTATTTGGAATCCCATTAATTGTAATTC
TAATATTTATCTTTTAGTTTTCAAAAATACCTTTATAGAGCCTCAGAAACTAGATTTTCATATTTAATTGAAGTGAAATTACATATGCCAAAGT
AACTTGCCAAAATCATTTTACCTGTATTTGTAAAATGGTATATACGTTACAGAATTTCATTTTGGATTCGTGTAATAATTTTAGTGCTTTTTAC
ATTTTTTTATTTGAAATGTTACATTGGTTTCCTTGACATTTTTCTTTATATATATTTGTGTGCTTATGCAATTTTAATTTAGAAATGCTTTTTA
TAATTTTGTTCATTTTAATTTCGTAAAATAAATTTTTCCTCCCACAGAACCAAACTTGTTTTTCTCATGATGCAGTTGTGAGAGAAATGCCTACA
GGGGTTTCAAGTCAAGCAGAATCCTACTATCCCTCACCTGGGCCCATCTCAAGTGGATTGTCACATCATGCCTCAATGGCACCTCTGCCTTCTT
CAAGCTGGTCATCAGTGGCCCACCCCACCCCACGCTCAGGCAATACAAACCCACTGAGTAGTTTTTCAACAAGGACACTTCCTTCTAATTCGCA
AGGTATCCCACCATTCCTGAGAATACCTGTTGGGAATGATTTAAATGCTTCTAATGCTTGCATTTACAACAATGCCGATGACATAGTCGGAATG
GAAGCGTCATCCATGCCATCAGCAGATTTATATGGTATTTCTGATCCCAACATGCTGTCTAATTGTTCTGTGAAATATGATGACAACCAGCAGTG
ACAGCATGGGAGAGACTGATAATCCAAGACTTCTGAGCATGAATCTTGAAAACCCCTCATGTAATTCAGTGTTAGACCCAAGAGACTTGAGACA
GCTCCATCAGATGTCCTCTTCCAGTATGTCAGCAGGCGCCAATTCCAATACTACTGTTTTTGTTTCACAATCAGATGCATTTGAGGGATCTGAC
TTCAGTTGTGCAGATAACAGCATGATAAATGAGTCGGGACCATCAAACAGTACTAATCCAAACAGTCATGGTTTTGTTCAAGATAGTCAGTATT
CAGGTATTGGCAGTATGCAAAATGAGCAATTGAGTGACTCCTTTCCATATGAATTTTTTCAAGTATAACTTGCAAGATTTAAATCCTTTTAAAT
CTTGATACCACCTATATAGATGCAGCATTTTGTATTTGTCTAACTGGGGATATAATACTATATTTATACTGTATATATAATACTGACTGAGAAT
ATAATACTGTATTTGAGAATATAAAAAACTTTTTTCAGGGAAGAAGCATACAACTTTGGACATAGCGAATACAAAATTGGAAGCTGTCATAAAA
AGACAACTCAGAGGCCAGGCGCAGGGGCTCACACCTGTAATCCTAGCACTTTGGGAGGCCAAGGCGGGTGGATCACTTGAGACCAGGAATTCGA
GACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCTGAGCATGGTGGTACGTGCCTGTACTGTCAGCTACTTG
GGAGGCTGAGGCACAATAATTGTTTGAACCCAGGAAGCAGAGGTTGCAGTGAGCTGAGATCACACCACCGCACTCCAGCCTGGGTGACAGAGTG
AGACTCTGTCTCAAAAAAAAAAAAAACAAAAAAAACACACTTTTTTATATTTCTTTTTATAATGTTTTAATGTATTCTTAAATTTCAAGCAAATT
TAAGATAAAACTTGTAATGGCTATGCCATTGAAAAACTTAATTTTTTATTTTTGAGGCCCATGGGCCAAGGTAACCCCTAAGGGGTTTTCTTAG
GCTTCTTGGAGCTTAGATTTGTATGTATATCAAAATGTCTTTAAAATGTTAAGTTGGGCAGAAGGCAGTTGAAGTGAGCTTTCAAGGTATGGGA
GGTTTTCTACATTTTATACTATTTCAATCTATGCCTTTAAAGTTGCTTATGATTTTAGCTGTACACTCATTTTTTAAGGGGAAGAAGTTTCCTT
GGACCATTCGCCTTTCTTAGATGTCCTCACTCCCTGTGATCTCATAAAACTGCCTATTTGACATCTCTATCTAGAAATCTAATTAAAGCTCACA
CTCAGCATATCCAAAACTGAATTCTTGGTCTTCCCTCCCAAACTTGCTTCTCCTTCAGTCTTCTCCAACTCAGTAAATGGCAATGCCATACTTC
TGGTTGCTCAGGCCAAAAACCCTGAAGTCATCCTTGATTCTTCTTTTAGCACCCATATCCAATCCATTAGCAAATCTGGTAGACCCTACCTTCA
CAATATATCTAAAGCTGACCACCTCTTTTGACCTCTACTATTAACGCCCTATTCCAAGCCACCATCATCTCTTCCCTGGATTGAAGCTGTCATC
TACAAAAATTCTTCTTATATCCTTGCATTCCTACAGTCTGTTCCCCATAAAGTAGCCAGAATGATTATTTTTAAAACAAGTCAACTCATACCAT
TCATCTGCTCAAAACCATTCATTGGCTTCTCATCTCACTCAGAGCAGTCAAAGTCCTTAAAAGTTGCAGGCCTAGACTCCCTGTCCTACCTCAG
GTACCACCATATCCCACCTCCTCATGCAGCTCCAGGCACCTTGGCCTCAGTGCTCCTCAAAGCATCAAGTATGCACTTGCCTTGGACAGTCTGT
ACTTGGTATTCCCTCTGCCTTGAATGTTGTTCTCCCAGAAAAATGCATAGTTCACTCTTACATCCTTCAGGTGTCACTCCACTGTTACCTGAGC
AGGTCGTCCTTGAATATATACATCAGCATTCCCTTTCCCCCCTGCTTTATGTATGTCCATAGCACTCACCACGATCTGACTTTACTAAGTATTT
ATTCATTTACTGTTTGTTTTCCCATACCGAAATATAAACTTTCTAAGGACAGAAATTTTTGTGCTTTATTGTTGAATCTCCAATTTGTAGAAAA
ATGCCTACCTTATATTAAACACTCAGTAAATGTTTATTGAACATTAAAAGTATTACTAATAGAACTTTGGTTTTTGAAAGAAATAATAACTTTA
ATTATAAGACGTATATGATTTTTGCAGTTTTACTTAGTGTGACATTGGGTTTATGAGAATCGTGTACATTCAAGTCCAGGAATAATAATGGTCA
TCCAAATTGTTTGAAAGGAAAATAATCCCAGTGGCAAAATGATGGTAGAATTTGGGTAATCTTTTTTTTCCTTTTATGAAAAGAGATTTTATTG
AAGGTAAAACATTAGAGGTTCATTGAGAATCTCTAAATCCATGTTTTGACATTGTCAAGCTCATTGCAACTTCCAGATTGAGTAACACTTATAA
CACATTTCCTTTTCAAAGTGCAAGATTTTTAAAAGAGACTTGTCACATATTCATTTGGCTGGTTTCAAATGGTGAGCTGAATGCTGGGTAATCT
CTACTAGCTCCTTAATCAGATTTAAAATTCTCAGTGTTTCCTAGTTGTTTCTGCATACTTTATGTGAGTTGTTATAGCTGTAACATTACACTTT
ATTTGCTGTTTGTGTTTCGTGACTTTTGGTAATTCTGGCATTTAGAAACCTTTCACTTTGCTTCAAAACGTAGTTATATTTTGGAGTTTTCATT
TGATATATAATTATTTATTTTGCCCTTTTATTTCCCAAAGACATTGTAAGGGTTAATTAGATCATTATATTTTATTATTACAGATTAAAGTTGG
GCAGTAATCTTAATTATGATGGAATTATCATTATGCTAAGTAATTAACTTTACCTAGTTTGTTTTACAACTAGAACCTGCCCTAAATGTTGAAT
ATCTTCCTAGCAAGAAACAGTCTGTCATTTTACTTACACGATGTCTAACCAAACCATAACTTTACATAAACTAGTCGTTTCGGTCAAATAGAAA
AATGTGTGAATGCCATAAAAACAAAAATTCTCAGTTAAATGATACTGGGAAATAGGGAAGACAGCAAAGTGAGACTTGGGCTCAGGATGGTTCA
GGAAGAAAAAAAAAGAAAGACCCCTGAGTACCATTAATATTCCTCAGAAATTATTATTTCAAAAGGAAATATTTCTGTATTATAAATTTTTCAT
GAGCAGCCATTATGAAATCTCACAAGAATCATAGAATTCAATAAAAAAGGTAGAAAGTAATTTTTTTACTTAAAAATATAAATTAAAATAAATT
TTTAAAATCATAAGCACATAAATAGAACTTACCAGGGAGAAAGAAAAACCTGAAGGCACAATTTCTTTTCTGTTCAAAATGTGAACCCAGGATG
TCTCTAGATGATGATGGATGATAGGTGGGGAGATTTTTTTTTTTTTTAATACAGAATCTCATAGTTTTGGATTAATTAGCACCAATCAGTTTAA
ACACTGACTGTTAGAATAGCTGCATGGGTTTTTTTCTTTAAACTAATTAAGCGTTGGCTACTTAGTATAAGTAAGTATAAGCCGAATTAAGGTT
CTGCTACATCTGTGTTTAGAATATTTTTTTAAAACTAAATAAGTGTTGGCTAGTTTTGCGGTGTAAGCAGAATTAAGGTTCTGCTACCTCTGTG
TTTAGAATATTCCCAATGGATTTTTCATTTTTCAGGTGCTATTTTTTGACCCTGTATAGACTTTAATTTAAAATGAATTTGGTAACGTTTCTCC
TCTGTCTCTACATATATTCATGCTTTCACCTGCTCTTTTAACACCTGCTTTTAGTATCTGAGGCACTTTTTCTGAACTCTACTTGTGCACTGGA
TCCCTCCTCCTTTCTCTGCCAGGCTGTGTTTACTTTATCCTTACATCACCACTTAGTGATTCCTTTCTTTGTATAAACATGGTAAATGTCTTCA
TTAGCCTAAAAGGAAAGACCAAATAAAACCTTTCCTACCACTTGGATGCATTTGCATCCTGACTTCTGAAATGCCTCCAGCCTCCATTTTCTCC
CTTCCCAGTTATTCCTTAGCCCAGCCATCTCTGTCTTTAGCTCCTACAATTTTCTTAGGATATTCTGGGAAAGATGAGCGGAGACTGCCCGCCT
TGTCAAATCTAGTGTCTTTTTTTTCAGTCCTCACACTGCTTGACCTATGTATAACCTCCTATACTTCCCTCTTTGCATACTCCTCTGGGTTTTCT
GTGGTAGTCAAGATTCCTCCCTGAGATTTATTTCCCATGAGTCTTGACCCCTCCCCTCAGTTGGTGCTATTTCCCCCTACCCGCCCTCCGATGA
TCTTATCAGAGCCCACAGGTTCAGTTTTCTTTCATGCTACCTGAATGTCCTGATAAACTGGCTCGCTCTCTTCTTTACCTTCCATAATGGCATT

ACCATTTACCACGCCACCCAAGATACTTACTAGGAACCTCAAAGTATTGTATTCTTTTTCTCCATCACACTCATACTTAATCATCAAGTCCTTT
TGAGCTTGTCTCCTCTTGAATATGTCCCTTCTTAATTCCTGCTGCCTTCTTAGTAAAGGCCTTCATTCTTTTTTCCCTAGTAATAATCTTTTCC
ATATGTTCCAGTTAAAATACCATGTTCTCCCTATTCCTTATTACATAGCTAGCATTCCTTGAAAAAAAACAATTCTCTCAGGCCTCCATACCTT
TAGCATGTTACCCACTCTGCCTCTGCTCTTCTGGAACTAGAACACTCATCCTTGAAGGCTGGGCTTCTGTATGAAGGTTGGTCCTGCCTCCTTA
CTTGAGGTGAAGCTTTGTACATGCCTGTATTACGGACATCCTCTTATTTAAGTGTTTGTCTCTTTCGTCATTGGGACTCCAGCACCCAGCATAG
TCCCTAGTATACTAGTTGGTGCCGAATAAATAGTAGCTATTATTAGAAAAGGAAGGGTGAAATTGACATGGGAGTTAGTAAAATGTATATGGAA
ATGATTTTTAAAGGGAAAGGTAATGATTTTCTGGCAGGAAAAGCAGCAATGACAAGATTACTTAAGTCTTGTGAAATAACACTTCTCTTCCTTG
ACCTGCTGCTTCCCTTTTTTACCACACACACACGCACACATACCACAGCCCTTTGAGACTGAAAGCAGCTCTATTGAGAATAGTAGTGTCAACT
GTATTATGTAGAAATTCTAAAGTTTTTGGGATTATTTCATAGCCCTGACCTTGCTACTTCTCTCCACTTTATGTGGCAGGTTTAATCTCAGGTC
TCCCTCATACACTTCTCAGCCTCAGCACCTAACCCTCACACAACACTCCAGTATTGATGCAGTCAATCTTGTATAACATTTTTTGAATGTCCAA
TGTGCAAAGCACGATGTTGGAAATTATACAGAGGTGAATAAGACAAAAACTCTTGCTCTCAAAGATGTCAGTCTTTTTCTTTGCAAGGATAACA
CATGTAGAGTAAAATGCATAAAGGGGACTAATTTTAAATGTACAGCTTAATTAATTTTTATGTATGTTAACACCCATGTCACCACCATGTTTAG
GACATTTCCAGCACCCCTGAAATTTCCTTCATGCCCCTTCCCAGTCTGTACCTACACCTCTAAATCTATTTTCAATCTTAATGGCCTTTTAAAT
AACTGGGCTTCTCACAACCATAGTGAACAGAAACAGCTGGGTTGTCAACGTCTAACCTAATACTTCAGGAAAACTCATGATGGTTTCCATGTTA
AGAGAGACATGGAGCAGGGCACTGGCATGGTGGATGGATCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTAGGGGGATTGCTTGAGCCC
AGGAGTTCAAGACTAGCCTGGGTAATATAAGGAAAACCTGTCTCTGCAAAAAAAAAAAAAAAAAGAGGATACAACCAAATGGAAGAACATTCCA
TGCTCATGGGTAGGAAGAATCAATATCGTGAAAATGGCCATACTGCCCAAGGTAATTTACAGATTCAGTGCCATCCCCATCAAGCTACCAATGC
CTTTCTTCACAGAATTGGAAAAAACTACTTTAAAGTTCATATGGAACCAAAAAAGAGCCCATATCGCCAAGTCAATCCTAAGCCAAAAGAACAA
AGCTGGAGGCATCACACTACCTGACTTCAAACTATACTACAAGGCTACAGTAACCAAAACAGCATGGTACTGGTACCAAAACAGAGATATAGAT
CACTGGAACAGAACAGAGCCCTCAGAAATAACGCCGCATATCTACAACTATCTGATCTTTGACAAACCTGAGAAAAACAAGCAATGGGGAAAGG
ATTCCCTATTTAATAAATGGTGCTGGGAAAACTGGCTAGCCATATGTAGAAAGCTGAAACTGGATCCCTTCCTTACACCTTATACAAAATCAA
TTCAAGATGGATTAAAGACTTAAACGTTAGACCTAAAACCATAAAAACCCTAGAAGAAAACCTAGGCATTACCATTCAGGACATAGGCATGGGC
AAGGACTTCATGTCTAAAACACCAAAAGCAATGGCAACAAAAGCCAAAATTGACAAATGGGATCTAATTAAACTAAAGAGCTGCTGCACAGCAA
AAGAAACTACCATCAGAGTGAACAGGCAACCTACAAAATGGGAGAAAATTTTCGCAACCTACTTATCTGACAAAGGGCTAATATCCAGAATCTA
CAATGAACTCAAACAAATTTACAAGAAAAAAACAACCCCATCAAAAAGTGGGCGAAGGACATGAACAGACACTTCTCAAAAGAAGACATTTATG
CAGCCAAAAAACACATGAAAAAATGCTCATCATGACTGGCCATCAGAGAAATGCAAATCAAAACCACAATGAGATACCATCTCACACCAGTTAG
AATGGCAATCATTAAAAAGTCAGGAGACAACAGGTGCTGGAGAGGATGTGGAGAAATAGGAACACTTTTACACTGTTGGTGGGACTGTAAACTA
GTTCAACCATTGTGGAAGTCAGTGTGGCGATTCCTCAGGGATGTAGAACTGGAAATACCGTTTGACCCAGCCATCCCATTACTGGGTATATACC
CAAAGGACTATAAATCATGCTGCTATAAAGACACATGCACACGTATGTTTATTGCGGCATTATTCACAATAGCAAAGACTTGGAACCAACCCAA
ATGTCCAACAATGATAGACTGGATTAAGAAAATGTGGCACATATACACCATGGAATACTATGCAGCCATAAAAAATGATGAATTCATGTCCTTT
GTAGGGACATGGATGAAATTGGAAAACATCATTCTCAGTAAACTATCGCAAGAACAAGAAACCAAACACCACATATTCTCACTCATAGGTGGGA
ATTGAACAATGAGAACACATGGACACAGGAAGGGGAATATCACACTGGGGACTGTTGTGGGGTGGGGGGAGGGGGGAGGGATAGCATTGGGAGA
TATACCTAATGCTAGATGACGAGTTAGTGGGTGCAGTGCACCAGCATGGCACATGTATACATATGTAAGTAACCTGCACAATGTGCACATGTAC
CCTAAAGCTTAAAGTATAATAAAAAATAAATAAATAAATAAATAAGAAAAAGAAAGCCAGGCATGGTGACATGTGCCTGTGGTCCCAGCTATTA
GGGAGGCTGAGGTGGGAGGATCCCTTGAACCCAGGAGGTTGAGTCTGTAGTGAGCAGTGATTACGCCACTGCACTCCAGCCTGGGCAAGACCCT
GTCTCAAAAAAAAAAAAAGACTTAGAATTGGTGATCCAGGCCGCCTAATGGCATCAAATAATTTGTTATATCTTTAATTTATTGAAGGATCACCA
CATGCTTTTAAATAGCATGGAGAAATGGAAAGAATAGGGACTTTTACTCAGGTAATACCCAGCCTGCTACCTAACAGGTTGTGTTGTACTAAA
TAAAATGGTACATAAGAAGAAACACTGTAAATTATATAGTGCGAATCAAATATTGTTAATAAACCAATATCTGTATATCCTATGTCCCGGATTA
ATCTTTAATTTAGATACTCCTTCTAGTTATCTAATACACAGCAGAGTGAGAAAAATCATTATGGATTAGGTTCTTTAGTAAGAAACCTGAGATG
GACTTCTCATTAGCATTAACTAGTTATTGCCCAGCTTTGGAGAGCCTTCTTTTGGCTTATCATTTATTATAAGCCCAGAAATAGGTGACTAATC
AGAGATAAATGTATGGGTTGTCTGTATCTAGTTTTATGCCTTTTTTTTGCCTAAGACGTAGTCAAATTAATATTTTAACTAATACATCTTAGCA
GAGTTTAGTTAAGCACAAAGTTAACAGTGGGTAGGATTGAATCTTGAAAGTAATCATGTCTGTAATGTTTTTCATGCATGCAAAAAGCACAGAC
AAAACCACTCATGCCCTATTAATAAACAAAATACAGATCAAAGTTTTCAAAAGTAATCACTCTATTTATTCTAAATGTCTGTGGCTTTAGGAAA
ATACCACCAGCTAGTACTTACCTATTTAAAGATGTAGAATTTATTATCCTCTAATATTCTTATCAGTTGTTTCCACAACTTTAGTTTACTATTG
GACTTTCAAAAATTTAAAGAATTACAAGTAAAATTCATTAAACACTTGTGTGTGAATAGTAATACACAGTAATTAGTACAGCATGTTGCTTCTT
CAACAAATTGAGTTTTCAGGGAAATCAGCAAGTAAATGAAATATAAATTTTTGGTAAAAGTATCAAACATTCATCTTGCCCATTTTTCCTCTTA
AACTTTATTATCTAATCAAACATAGTTTTCCATAAGATGTAATAAAATATAGATAAGGTTGGAATATTTGAGGATCCATTTGTGGAACTGAATT
TAATGAGACTTCATTGGTGATACACTCAATTTTTACTGGGTAATTAGCTAATAATGTTGGTCACTGTCTCACAGTTCAAGTAGCTTTAAGATGA
TGTGGCAAGGAAAACACAAAGCTTTTGGGTAACCAGCGTTCTTAAATGTATGGTTTTTGACCAGGTGAACCCTTTAGAAGTGATTTCTGTTTTA
AAAGTATGTACTTAAAATACCTTTGGCTGTGATGAATGTAGATCCCAGCAGAATACCAAAATCCTATTTTTTTTGACTGAGTATTTGTAGATGC
TTAATGACTGAAATGAATTTGGAGGCACTGATGAAAGTGATTTTTTTAAAGTTCTCAGGTACTGTTCAATTATTTAATGTTAAGTTTAGTATCA
AGATACAGTTGTTTTTAAAATGCCAAAATGCTGTTTATTATACAGAATATTTTATTACATTTGCAATATCTTTGTATATAGTGATTTTTTTCTT
GATAATAAATGGAAAAATTCTAAAACACTTGCTGAAATTTTGTTGCTATTTAACTTTTAAAATATCAGATTTTCTTCATATTTATAGCATCTTC
CTAACAGGAAAAGGTAGTTTTAGTTGCTTAGAAACATTAGACATTTTTATGGAATGCTGTTGCTGAATATGGTTGCATTTGTAACTGTCCTTTG
AAATAATTTTGTAGAGTACTGAAGTGCCTTTTTACAAGATTTTTTTCCTTTTTCCTTTTCTGGCTTAACCAACAAAAATCTGTTTTCAGAGTCC
TGGAGGCTGAAAGTCCGAGATCAGGGGTACTAGGACGGTTTCTGCTGAGGCTCTCCTCCTGGCTTGCAGAGGGCTGCCTTCCCATCATCCTCAC
ATGGTAGAGAGAGAGAAGGATGGAGATCTAGGGTGTCTCTTCTCTTTTTTGAGACAGAGTCTCACTCTGTCATCAAGGCTGGAGTGCAGTGGCA
CAATCACATCTCACTGCAACTTCTGCCTCCTGGGCTCAAGAGATCCTCCCGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCGCATGCCACCA
TGCCTGGCCAATTTTTGTATTTTTTGTCAGAGTTTCATCATGTTACCCAGGCTGGTCTCAAACTCTTGGGCTCAAGTGATTCACCCGCCTTGGC
CTCCCAAAGTGCTGGGATTACAAGCGTGAGTCACCATAGCTGGCCTGGCCTCCTCTTTTCTTAAATCCTTTTTTTTTTTAATTGACAAAACTGTA
TATATTAATATTTATCTTGTTCAACATGATGTTTTGAAATATGCATACGTTGTGGAATGGCTAAACTGAGCTAATGAACATGTATTACTTCACT
TAGTTATTTTGTAAGAACACTTAAGATCTACTCTTAGCAACTTTGAAGAATATATTTGTTATTAACTATAGTCACCATGTTGTACAGTAGATCT
CTTAAACTTATTCCTATCAAGCTGAAATTTTAAATCCTTTGACCAACATCTCCCCAACTCCGCAACCCCTATCCCACTCTCACCTCCGCAGTTC
TAGTAACAACCATTCTACCCTACTTCTATGAGTTCAACTATTTTAGATTCCACATATAGGTGAGATCATGCAGTAGTTGTCTTTCTGTGCCTGA
CTTATTTCACTTAACATAATGTTCTTCAGGTTCATCCACGTTGTTTCAAATGACAGAATTTCCTTTCTTATGGGTGAATAATATTTCATTGTAC
ATATACACCACATTTTCTTCATTTATCT

HUMAN SEQUENCE - mRNA
CGGAAGGTGTGAGCCGCAAACCCAGCGGAGGGCGGGAAGAAGGAGGAGGCCTCTAGGGTGNTCGGGGGACTGGGGGCCCCGCCGGCAGAGGTCC
CTCGGCCTCCTGACTGACTGACTGCGGCCGCCTCCGGCCAGGACGCTGGGAGCTGCCTGCGGGAAGGTGCGGGGAGCGGAGCCATGGCCTCCGG
TGCGTATAACCCGTATATAGAGATAATTGAACAACCCAGGCAGAGGGGAATGCGTTTTAGATACAAATGTGAAGGGCGATCAGCAGGCAGCATT
CCAGGGGAGCACAGCACAGACAACAACCGAACATACCCTTCTATCCAGATTATGAACTATTATGGAAAAGGAAAAGTGAGAATTACATTAGTAA
CAAAGAATGACCCATATAAACCTCATCCTCATGATTTAGTTGGAAAAGACTGCAGAGACGGCTACTATGAAGCAGAATTTGGACAAGAACGCAG

SAGRES DISCOVERY 02-15

ACCTTTGTTTTTCCAAAATTTGGGTATTCGATGTGTGAAGAAAAAAGAAGTAAAAGAAGCTATTATTACAAGAATAAAGGCAGGAATCAATCCA
TTCAATGTCCCTGAAAAACAGCTGAATGATATTGAAGATTGTGACCTCAATGTGGTGAGACTGTGTTTTCAAGTTTTTCTCCCTGATGAACATG
GTAATTTGACGACTGCTCTTCCTCCTGTTGTCTCGAACCCAATTTATGACAACCGTGCTCCAAATACTGCAGAATTAAGGATTTGTCGTGTAAA
CAAGAATTGTGGAAGTGTCAGAGGAGGAGATGAAATATTTCTACTTTGTGACAAAGTTCAGAAAGATGACATAGAAGTTCGTTTTGTGTTGAAC
GATTGGGAAGCAAAAGGCATCTTTTCACAAGCTGATGTACACCGTCAAGTAGCCATTGTTTTCAAAACTCCACCATATTGCAAAGCTATCACAG
AACCCGTAACAGTAAAAATGCAGTTGCGGAGACCTTCTGACCAGGAAGTTAGTGAATCTATGGATTTTAGATATCTGCCAGATGAAAAAGATAC
TTACGGCAATAAAGCAAAGAAACAAAAGACAACTCTGCTTTTCCAGAAACTGTGCCAGGATCACGTAGAAACAGGGTTTCGCCATGTTGACCAG
GATGGTCTTGAACTCCTGACATCAGGTGATCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGTTAATTTTCCTGAGAGACCAAGACCTG
GTCTCCTCGGTTCAATTGGAGAAGGAAGATACTTCAAAAAAGAACCAAACTTGTTTTCTCATGATGCAGTTGTGAGAGAAATGCCTACAGGGGT
TTCAAGTCAAGCAGAATCCTACTATCCCTCACCTGGGCCCATCTCAAGTGGATTGTCACATCATGCCTCAATGGCACCTCTGCCTTCTTCAAGC
TGGTCATCAGTGGCCCACCCCACCCCACGCTCAGGCAATACAAACCCACTGAGTAGTTTTTCAACAAGGACACTTCCTTCTAATTCGCAAGGTA
TCCCACCATTCCTGAGAATACCTGTTGGGAATGATTTAAATGCTTCTAATGCTTGCATTTACAACAATGCCGATGACATAGTCGGAATGGAAGC
GTCATCCATGCCATCAGCAGATTTATATGGTATTTCTGATCCCAACATGCTGTCTAATTGTTCTGTGAATATGATGACAACCAGCAGTGACAGC
ATGGGAGAGACTGATAATCCAAGACTTCTGAGCATGAATCTTGAAAACCCCTCATGTAATTCAGTGTTAGACCCAAGAGACTTGAGACAGCTCC
ATCAGATGTCCTCTTCCAGTATGTCAGCAGGCGCCAATTCCAATACTACTGTTTTTGTTTCACAATCAGATGCATTTGAGGGATCTGACTTCAG
TTGTGCAGATAACAGCATGATAAATGAGTCGGGACCATCAAACAGTACTAATCCAAACAGTCATGGTTTTGTTCAAGATAGTCAGTATTCAGGT
ATTGGCAGTATGCAAAATGAGCAATTGAGTGACTCCTTTCCATATGAATTTTTTCAAGTATAACTTGCAAGATTTAAATCCTTTTAAATCTTGA
TACCACCTATATAGATGCAGCATTTTGTATTTGTCTAACTGGGGATATAATACTATATTTATACTGTATATATAATACTGACTGAGAATATAAT
ACTGTATTTGAGAATATAAAAAACTTTTTTCAGGGAAGAAGCATACAACTTTGGACATAGCGAATACAAAATTGGAAGCTGTCATAAAAAGACA
ACTCAGAGGCCAGGCGCAGGNGCTCACACCTGTAATCCTAGCACTTTGGGAGGCCAAGGCGGGTGGATCACTTGAGACCAG

HUMAN SEQUENCE - CODING
ATGGCCTCCGGTGCGTATAACCCGTATATAGAGATAATTGAACAACCCAGGCAGAGGGGAATGCGTTTTAGATACAAATGTGAAGGGCGATCAG
CAGGCAGCATTCCAGGGGAGCACAGCACAGACAACAACCGAACATACCCTTCTATCCAGATTATGAACTATTATGGAAAAGGAAAAGTGAGAAT
TACATTAGTAACAAAGAATGACCCATATAAACCTCATCCTCATGATTTAGTTGGAAAAGACTGCAGAGACGGCTACTATGAAGCAGAATTTGGA
CAAGAACGCAGACCTTTGTTTTTCCAAAATTTGGGTATTCGATGTGTGAAGAAAAAAGAAGTAAAAGAAGCTATTATTACAAGAATAAAGGCAG
GAATCAATCCATTCAATGTCCCTGAAAAACAGCTGAATGATATTGAAGATTGTGACCTCAATGTGGTGAGACTGTGTTTTCAAGTTTTTCTCCC
TGATGAACATGGTAATTTGACGACTGCTCTTCCTCCTGTTGTCTCGAACCCAATTTATGACAACCGTGCTCCAAATACTGCAGAATTAAGGATT
TGTCGTGTAAACAAGAATTGTGGAAGTGTCAGAGGAGGAGATGAAATATTTCTACTTTGTGACAAAGTTCAGAAAGATGACATAGAAGTTCGTT
TTGTGTTGAACGATTGGGAAGCAAAAGGCATCTTTTCACAAGCTGATGTACACCGTCAAGTAGCCATTGTTTTCAAAACTCCACCATATTGCAA
AGCTATCACAGAACCCGTAACAGTAAAAATGCAGTTGCGGAGACCTTCTGACCAGGAAGTTAGTGAATCTATGGATTTTAGATATCTGCCAGAT
GAAAAAGATACTTACGGCAATAAAGCAAAGAAACAAAAGACAACTCTGCTTTTCCAGAAACTGTGCCAGGATCACGTAGAAACAGGGTTTCGCC
ATGTTGACCAGGATGGTCTTGAACTCCTGACATCAGGTGATCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGTTAATTTTCCTGAGAG
ACCAAGACCTGGTCTCCTCGGTTCAATTGGAGAAGGAAGATACTTCAAAAAAGAACCAAACTTGTTTTCTCATGATGCAGTTGTGAGAGAAATG
CCTACAGGGGTTTCAAGTCAAGCAGAATCCTACTATCCCTCACCTGGGCCCATCTCAAGTGGATTGTCACATCATGCCTCAATGGCACCTCTGC
CTTCTTCAAGCTGGTCATCAGTGGCCCACCCCACCCCACGCTCAGGCAATACAAACCCACTGAGTAGTTTTTCAACAAGGACACTTCCTTCTAA
TTCGCAAGGTATCCCACCATTCCTGAGAATACCTGTTGGGAATGATTTAAATGCTTCTAATGCTTGCATTTACAACAATGCCGATGACATAGTC
GGAATGGAAGCGTCATCCATGCCATCAGCAGATTTATATGGTATTTCTGATCCCAACATGCTGTCTAATTGTTCTGTGAATATGATGACAACCA
GCAGTGACAGCATGGGAGAGACTGATAATCCAAGACTTCTGAGCATGAATCTTGAAAACCCCTCATGTAATTCAGTGTTAGACCCAAGAGACTT
GAGACAGCTCCATCAGATGTCCTCTTCCAGTATGTCAGCAGGCGCCAATTCCAATACTACTGTTTTTGTTTCACAATCAGATGCATTTGAGGGA
TCTGACTTCAGTTGTGCAGATAACAGCATGATAAATGAGTCGGGACCATCAAACAGTACTAATCCAAACAGTCATGGTTTTGTTCAAGATAGTC
AGTATTCAGGTATTGGCAGTATGCAAAATGAGCAATTGAGTGACTCCTTTCCATATGAATTTTTTCAAGTATAA

SAGRES DISCOVERY 02-16

TABLE 16

MOUSE NOMENCLATURE
ICSGNM Icsbp
Celera mCG21199

HUMAN NOMENCLATURE
HGNC ICSBP1
Celera hCG17046

MOUSE SEQUENCE - GENOMIC

GCAGGAGGATGGAAAGTTGGAGGGTAGCCTGACTGTATAACAAGTTCAAGGCCAGCCTGAGATACATAGTGAAATCCTGTCTCAAATACAAAAC
AAAACAAAACAAAACAAAACAAAACAAAACAAAACAAAAAAAAAAAAAAACAAAAACCCACCCCAGGCGTGATGGTGCATGCCTTTAATCTCAGC
ACTCAGGAGGTAGAGGCTGGAGAGTCTTTGTGAGTTCAAGGCCAGGCTGCTCTACAAAGAGAGCTCCAGGACAGCCAGGGGTACCTAGAGAGAC
CCTGACCAAAACAAAACAAAACAAAACAATCAAAAAACAACTTAACAATCCTTCCAACTCTCCAAACCCAACGCCACCCCCAAATCAACATCAA
ACTCTCTCAAGTCCCGGAAAGCAACCAAACAGACAACACCTAACCAAGCTGAGAAGCGGACAGCACTGGAGCCTTCTGAAGCACTAACCTCTTT
TAAAGAGGGGGCGCAGCCCAATTCACCAGTGAGCAGATTGGCTTAGAAAGGGGCAAGCGCTCCTTGTGGGACACAGTCACCACTTGTTGATGAG
GTTGCTTGCAGGGTTGACGCCATGGCTCAGCAGGTAGAGTCACTTGCCACCAAGCCTGACACCTGATCTGCATCCCAGGAGCCACAGGGTGAAA
AGAAAAAGCAACCCTCTGGCTTCCACACAGGCACCATGGCATGGGCTCCCTGCTAAACACGTATGCGTGCGCACACGCACATGCATATGCATGC
ATGCACATTCATATGCACACACATAGCGCACACATACACAAAATTATTAATTAAAATGTAATTTAGATTCGGAGTGGACACGGCGGTCGCCGCC
TCTAAAGAGAAGACTCACCACATCTATGGCTGGGGTTCTGAGCTCAGTGTTTCAGAGGCCTCCAGGCAGACTGCAGACTGTGAAGGAAGGTGCA
GAATCTCTCATTGGTACAGAATGGATTCGTCACACATTTACCAGTTCAAGAATTCCCGATAAAGTGTTTCGGCCTAGACCTGAAGATCATGAAA
AGTACAGCGGGGACCCCCAGAGGCCTCATAGACTGTACATTGTCATAAGAATAGGAAGTACAAAGAGGCATCCAGGGCTGGAGAGATGGCTCAG
CGGGTAAGAGCATTGACTGCTCTTCCGAAGGTCCTGAGTTCAAATTCCAGCAACCACATGGTGGTTCACAACCATCTGTAATGAGAGCTGACTC
CCTCCTCTGGAGTGTCTGAAGACAGCTACAGTGCACTTACATATAATAAATAAATAATTCTTAAAAAAATAAAAGAGGCGTCCATACTGGGAAA
AAGATACGATCAAGATGCTCGGACTACAGAAGGCACACAGCCCTCAAATTCACAAGAACATCCCACCGGTGGATGCAAAGCTGAAAGTGGTTAA
ACCCTAGATAGGCATCCAGCGCCTGGAGCTGCCACAGGGACTTCCCACAGAAAAGACCATGTCCAGCGCGTGCCTCAGGGGCACCGGGGAGTTG
GTCATGTGGTGGCATCTGAAGCCTGTGGAGCTGGAAGTGACGTCCTGACGCCACACAGCTTCAGCTCACAGACACACTTACTGAGGAAGCCGTT
CTCATTAAAGTGTATGCTCATCAAAAAAAAAAAAAAAAGTAACTTAATTTAAAAAAGGATTTCTTGTAAGCGATGTCAGTAATCTGGTGAGTTGG
TGACTCTGTTTCTGGGTACCCTATCTGCTGTTGTACTAAGTTTTTCCTGTGCCTAAGCCGTCTTCCTATTAGAGATGTAGACTTGCTGTGTGTC
TGGTCACTTGTACACAGGTGGGGATACATCGTTCTGAATTCATTGAAATTTCTGAGTGTGTGGCTCCCCTGGCCCTGCCCGAAATATGTTAGGT
ACATCTTCCTGGGGGTTTGTGTGTGTCATAAGCACACTGGTATGAGTCATGTGTGGTTTATATTAAACACACAAACGTGTATTCTTTACAGGGT
CTCATGTAGCCCAGGCTGGCCTCTAACTCATTTAGTTCAGGATAACCTGAATCCCAGAGCCTTCTGTCTCCGCCTCCCAGGTGCTGGGTTACAG
GTGTGTGCCAACAAACCCAGGGAAATCTACGTTTTCAGTAAATTGATATCTCTTGGCAATAGTTCCCAAGAGAGTTCAAAGACATGTTTTATGT
ACACTTACAATCCATTTACTTGGAAGAGTTGTTCTTTCTAGGACTGTTCTAGGCACTTCCATGGATAATAAATGCAAGCGACCTCCAGCCCCTG
CAGGCAGGAGTTGCTGAATGCTTCCTGCGTTTCCCCCTTATCTTAACTCTTCATCAGCTTTGATGCATCTTGCAGGCGTGCTCTGAACATGACA
GCTAGCACACTCTGGGTATTTAATAAGCAGCCGATTCATGAACTAAAGCTACCCTCAAAGGTGAAAGCAGTTTATTTAAGCTACAAATAAACAC
AGGTGGGTCTCAGATTTGGCTTGTTTCTTCTCTGAAGCAATGGATGGGGTATTGTTATCACCTAGTCAACTGTTGCCCGAGTCCACCTTGAGCA
AATAGAATGGACGGATCCTGTAAAAGAGAAACTGGGGCTAAGAGAACAGGGCAAAGGCCACCTCTATAGCACAGATAAGTTTCGCCACAGTCCT
GAATGGCTTGCTAAGTCCCAATTAGCTAGCTTGAAGTAATCTCACTTTTATTGGTAGGAGGTGCTTCCTGCATGAAAGAAAAATCCACTTGTGC
ATGAGTACATGCACAACCCACACACACACTCACACACGTGCACATACCACACACATGTACTCGCACACAACATGCACACCCGCGCACACACACA
TAGATGCACACCACACATACACACACACACACACACACACACACAGGAGCACTCACATGCACACACTCACATGCATACACCACAAACATGCA
CATACATGCATGCACACGCACACAGACTCATGACTGTATGCATATGGTCCTGAGCATCCTGAAATGCTGAGATCCTGTGCTGGGTTTAGTAAAA
GAATTGATGACTCTTCCCTTATCTTCTGGGATCGACTATAGCCTTTGACATTCTCTTTGCCTTTCCCCAGGTGAGTCACTTGAAGCCCTGCACC
CGCAGCCTGGGCTCAAGCCTCCACTCTGGCCCTAGGAGTATTCTGAGCCTGGCTGAATGCCACTCTGATCATTGTGGTTTTGTGTGGCTTTGTG
TCCTGTCAATTTACGTGTCCAGCAGGATGGCTTTCCCTTGGATGTATGTCACTCTACACCACTCAGACACCACTCAGATGAACACGCCACGTGC
CCCGGCTCTGTGTTGTGTGTCCAGTGGTCTTGGTTCCCACTCAGCCCCACCTCCGCCCACAGGAGAGCTCTCCTGAGCATCCCAGCAGCTAGCC
TGACTGCTTTTCAAGTGCACACCCACGAGACTCTGAGGCCTCCGTCCGCTTTGTTCCCTCAGTCTGGTGTCAGAGGTCCATCCTGTGCTGTGGC
TGGATGCAGAATAGCCCGTTCTGATTACTGCAGTGCCCTCCACAGTGGGGTTGCTAATGCTTGTGTGTGTCCTAGTCACCATTCTATTGCTGTG
AAGAGACACTGTGGCCACCACAACTCTTATGAGAGTTTAACTGGGGCTGGCTTGCAGTTCAGAGGTTTAGCCCATTTTCATGATGGCGGGAAGC
ATGGCGGTGTGCAGGCAGATATTGGACCAGTAGACCTACATCCTGACAGTGGGCACAGGGAGAGAGAGACAGAGAGACAGAGACAGAGAGAG
ACAAGACAGAGAGATGGAGAGAGACAGAGAGGAGACACACACACACACACACACACACACAGATGTGGAGTCTGGGGTAGGCTTTTGAAACC
TCAAATCCTACCTCCTCTAACAAGGCCATACCTCCCAATCCTTCCGATCCTTTCAAATACTCACCCCCTTGCTACTAAACACTCCAATACATGT
TCCTATAAGGGCCATCCTTATTCAAACCACCACAGTGGTTGTGCTATTTGAGAAATTTGTGATTTTTTTCCCCTAAAGACTTTTGCTTGTTTTC
TTTTTTTTCTTTTTTCTTGAGACAAGGTCTTATGCAGCCCAGCTTGTCCTCAAACTCACTAATATAGCCAAGCATGGCCTTGGACTTCTGATCT
CCCTGCCCGTCTCCTGTGTGCTAGGATTACAGGCATGTACCTGCATGCCTGGCTTAGGCAGTGCTGGGGACCCAACCAGGGCTTTGTGTCTAGC
CGAGAGTTTTACAGCTACAGCCCTGACCCTCCAGGGATTTGGGGAGCATGAAGGAACTGGACTCTGCCTTTGTGGACGTCCTGCCTTCACTTCT
CTGGGGTGTGCTTAGCAGCTGGCCTGCCTGACTTAGAGGAGGTTCCAGCTGTTTGCCAAAGTGCTTTAAAGGAATGGCAGTCTCATCCTTCACG
TGGTTCCAGCATCTGCACTGTCGTTTTATAATTCTAGTCATCTTGGAGAGTGACAACATCACCTTATAGTCAGCTCCCCTGGGAGATTTGGACC
ATTTTCTTTTCTCCCTTTCCTTTCCTTTCCTTTCCTTTCCTTTCCTTTCCTTTCCTTTCCTTTCCTTTCCTTCCCTTCCCTTCCCTTCCCTTCC
CTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCTTTTTGTTTTTTTTGTTTTTTTGTTTTTTTG
AGACAGAGTTTCTCTGTGCAGCCCTGGCTGTCCTGGAACTCACTCTGTAGACCAGGCTGGCCTTGAACTCAGAAATTCGCCTGCCTCTGCCTCC
CAAATGCTGGGATTAAAGGCGTGCACCACCAAGCCCGGCAGATTTGGACCATTTTCATCAGGACTCTAGGCTGTTCTGAGTGCCATGGCTGTTT
AAGCTTTTTGATTCCCCCTCCATTTTTCCTTCCCTCCCTCCTCTTTCCCCTCCTCCCTCTTTCCTTTCTCCCTTTCTCCTTTCCCTCCTTCCCT
CCCTCCTTTCCCTTGCCCTCCCCCTCCTCCCTCCTCCCTCCCTTCTCCTTACTCTGTCAGTCTTTCCCTCTCTCCTCCTCTTTCAGCTT
GCTTGCTGGAGACAAGTCTGTGCACTCAGGGCTTGGTAAGTTAAGCCTACTTAATGCCGATACTCCTAAGAGGGACCAACTCAGAGTTGGCATT
TGTTTTGTGTCCTTTTCCTCACAAAGATATTTTGAGATCGTTAATGACCCCCATAGTTGGTCAGCTTTGTGCAAATAAATAATTTCGGGGGTGG
GGCAGAAACCCTGAACACTTGCTTGGGCTAGAGGGATAACCCACGGATGCACAGAGGCTGCGCTAGAGACAGACAGTGGCTATGAAGTCTTCAG
ACTCTGGCCTTTGTTGCCAGGGTTACAGGATTAGTACTCTAATAGCCCAGATGCTCTTGTGAGCCACAGCTGTCTCTGCATCGTGCTCCGAGGA
GGTAGTGTTCAAACACATACGAAGTGGCTTCTGGGATTTGACCAGACAGAAGTGATTCTTCTTGGGACGGGAGGAACCAGCACGCGCTGGTTTT
TCTTCTTTCACGGTGCCGGCTTCGGAACTCAGCGCCCCTGCTTGGGTTAAACATGGCCTCTACCGCGGAGCTGTACTACAGCTCAGTTTGTCGT

TTGTCTTCTCTTATTGACTCACAGGAATTTTACAAAGTGTTCTGAGTAGAAGTCCTTTCTTTTTCTTTTTGAGACAGAGGCTCAATGTGTTCCC
CAGGCTAAAAGTTAACTCCCAGTGCGAGGATCACAGGCTTGCCCCGCCACCTTGGCCTAGCCAATCCGGGTTCTGGAATCCCAGGTGCTGCCTC
GCCCTCCTCTGGTTTAGCCAATCCTAGTGCTGGGATCCCAGGTGTTGCCCCGCCCACCTCTGGTTTAGCTGCTCTTTCTAGACCACTTGGTGTC
TCTCCAGCCTTGGCTCCTCCCACTACTCAGAATACCAATTCACACTTTTTTTTTTTTTAAAGATTTATTTATTATATGTAAGTACACTGT
AGCTGTCTTCAGACACTCCAGAAGAGGGCGTCAGATCTTGTTACAGATGGTTGTGAGCCACCATGTGGTTGCTGGGATTTGAACTCCGGACCTT
CGGAAGAGCAGTCGGGTGCTCTTACCCACTGAGCCATCTCACCAGCCCCTGGAGAGATGGCTCAGCCGTTAAAGGCTAGGCTCACAACCAATTC
ACACTTTTATCAGTTTTATTTATTGTGTGTGTGTGAGTGTGCATGTATATATGTGTGTGTGTGAGTGTGCATGTGTGTATATGTGCGTGTGC
TTCTGTGCATGTGTGCTGTGCATATGCGGGTATGTGTGTGCATGTGAGTGTGCGTATGAATGTGTGTGTGCTGGGAACCCCATCAGACTGCAGG
TGGTAGACCTGCATAGATGAGAAAGGCTTTGAAAAATGCAGGGTTTTTTTTGGGGGGGGGCACACATAGAGGGTAACATGCTCACTGGGGAGCA
ACCTCCCTACACAGGAAAGGGGTTGGCAAAGCTTGCTTCAGTAGGACACAGGGGACTTTGATCACGAACAAAGAGGAGTAAGTTGGACTACACA
CTCACATACATACACACATGCACATGAGTATACAGACATACACATATACACACATACACACATGCACGCACACATATACATACATATACACACA
CACATGCACACAGATTTAGAATAAATTTAAAAAAATTAAAGCATGAAATGTAATTTTTAAAAGATATCAGTGTGGCTGGAATCTGGGTTTTTTA
AAATTAAGGTCCATGAAGGCCGGCATAGGAAAGAGGTCAGAAGCTGGATCTTGAGGAGAAGGAGGTGGTAGGAGAACAATGGCTCCCCAAAGAT
GTCCAAGTCAAAATCCACAGAACCAAGAATGATGTCAGGGACTGATACTCCTCATCTGACGTTGACAGTCTGGGTCATCCAGCT
GAACCCAGTACAGCCACGAAACCCTTAGTGCAGTGGCCCTCAACCTTCCCAATGCTGTGGCCTTTTAACCCAGTTCCTCCTGCTGTGCTGACCC
AGACCATGACATTATTTTGCTGCTACCTCATAACTGTAATTTTGCTACTGATATGGATCATAATGTAAATATCTGATATGCAGACGGTCTTAGG
CAACTCTGTGAAAGGGGTCCCGACCTACAGGTTGAGAACCGCTGCCTTAGTGGACCAGGGAGGTTGTAGAGAAGAGCCAGGGACATGAATGCAC
ATTTGCTGGCTTTGGAGATGAACGAGCTCACAAGCCAAGGATTTCCCTGGACATGGCCTCTCTGAGCACCGATTCTCCTCAGAAGGACCTGCTG
ACACAAGTGGGTGAGGAGTGCCTGTCTTTGTTCTAGTGGCCATACACAGTGAGTGGAGAGGAGGCAGTTTTTAGGTGACAGGAAGGTGTGTGTG
TGTGTGTGTGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAAAGGGGACAGGGACAGAGGGACAGGGACAGAGAGAGTGA
GACAGGGACAGAGATTTGGTGACAGTACCCATAGCAAGGAACCTCAGAAAAAGCCTGGGTCACAGCAACAGCAGCCTGGTCTCTCTGGGTGGGG
GTGTGCTCTCTGGGTGTCTTAGTCAGGGTCTCTATTCCTGCACAAAACATCATGGCCAAGAAGCAAGTTGGGGAGGAAAGGGTTTATTCAGCTT
ACACGTCCACATTGTTGCTTATCACCAAAGGAAGTCAGGATTGGAACTCAAGCAGGTCAGGAAGCAGGAGCTGATGCCGAGGCCACGGGGGGAT
GCTACTTACTGGCTTGCTTCCCCTGGCTTGCTCAGCCTGCTTTCATATAGAACCCAGGAGTACCAGCCCAGGGATGGCACCACCCACCATGGTC
TGGGCCCTCCCACCCTTGATCACTAATTGAGAAAATGCCTTACAGCTGGATCTCATGGAGGCATTTCCTCAAGGGAGGCTCTTTTTCTCTGTGAT
AACTCCAGGTTGTGTCAGGTTGTCCCAGAGAACCAGTCAGTACACTGGGTCTGGAGGACATGTTTAATTGCCTCCTCTGGAGAGGCTGGGAGGT
GGTGATGGACTCTCTAGAACACTTCGGGGCCTCTTCTCCTTAGTTAAGCCCTGCACATGCCTCTTCTCTTATGCAGTGATGTGACCTAGCTCCA
CCCCCGACATATGACTTATGCCAGGAGATCCTACACTGAATCTCTCCTGAGTGGCTATCGCTGGCGTGTGGGAAATGTACACGTGGCTCACATG
AGACACCACCTTCATAGCTTCACCCTCAAAGACCCCATCAATATTCAGCTGTGAGTCAGTGCCCATTGTAGGTGGCTTGGGTTCTCTTAGGTCC
TGAGTGGAGCTATTTCAGACTTCTAGGAAAACAGTTAGAAAAAAATAGACCCCACTCACACCCCGATGTATATGGCTTCAGGACAGTTGTCAGG
CAGGCTGGGCTGGTGTCTTCTAGTGTGTACAGAGACACCTGCTGCTAGGACCAGAAGCTAGGGCTGGTGTCCCTAATCTCTCTCTACCTTTAGC
TAAGAGGCAGGCACACTGGGTGGACATTTGGGATCTGTTCTGTGCCTTTGATATTTGTAAGTAGGAAAATCTGCATACGCTTATAAGGTGCCTA
TTTGGGAAATGAAAGGGGTATAAATGCACACAGGAGTCTGTTGTAGTAATCTGAGCGTGTCTGACTTCTGGACTCTGCCCTTCACAGCAAACAC
TTATTAAAACACTCCCATATTACTATTAAAGAATTTGAGCTGGACTATGGTGGCACACACCTTTAATCCCAGCCCTTGGGAGGCAGAGGCTAGC
AGATCTCTGTGAATTTGAGGCCAGCCTGGTCTAGTTCGGGGACAGCCAGGGCTACAGGGAAACCCTGTCTTGGAAAACAAACAATAAACCCAAT
AATAATAGTAATAAACAAATGAGCTTTGAAAAGTAGTTTTCATTTGAAATTCCTTGGCTCCAGGGAACTCCACTTGGCTTTTGACTGTTGGAT
GGTATTTATCATTGAACTAATACCCGGTAATGTCTTAAGTGCCTTTCAGGTATACCACAATGCTCATCAGGATAAACTAGAGTTAGAAGGTTCT
GTTTGGAAAATCCTTATTTGAATTCGTATTTATTTGAAACCTAGCCGTATACTTCTTGTATTTGTGGACCAATCAAAAATTCTTGTCGCGGCTC
CAACGTTTTCCTAAGTATTTTAAAAGCCAGACGGGTGAGAGTCCTGTAAGCGTGGCCGCAGGTGTGTAATTGGGCAGCCTGCAACGAAAGTCCC
TCTCGACCCTCACCTAAGGCTCCCCGCTCCCACATCCTACTCAGGTTGGGAACAGGCTCGACCGGGCTCCTGACATCACTGGGGGACACAAGGG
AACCGATAATGCGTAGCCTTCCTGGGGGCATCCCAGCCTCAGCGCTCGCGACTCCCCTGGTTTCCCAGATTTCCTGCGCAATTTCAGGCGGTCA
TCCTCCATCCAGGAGGGCGCGCTGCAAGTGGCTGTCACCCAGCACGCAGCTCTGGGACTGGTCTTTGCTCTGAAACTCCAGCCTGAGCAGCTGA
CACTCAGGGTGCCCCTGGACACGTGCCCGGGACAGAGGCTCTCCAAACCTGAACGACACCCCGAGGATGATCCGTGCATCACCAGCCTCCTTGA
CCTTAGGCAGACGCCCCCAGCCCCCCGGCCATTTTTGGGGCAGCCCCCTCCCCCGCCGCCCCCGGAGTAAAGAGAGAAAAGGACTCCACGGGGT
CGGGGACGTGCAAAAGTGATTTCTCGGAAAGAGAGCGCTTCAGAGAAGGCGGATTTGGCAGGCTGCGCTGATTGGGCCGCGCCAGCGCCCCTCC
CGCTCCTCAATTAGCTCGCGCGACCGTCGCTCTGCGCGCGGGACCCGCCTTCTCCCCCGCCCCATCTATAAAAGCAGGCGCGCGCGTACGGGCC
TCCAGGAGCCCGCGGGCGGTCCCGGAGGCGCGGGCAGCGTGGGAACCGGCGGCAGGTAGGACGCGATGGGGTGGGCGCGGGGGCCGGGGCTGTG
GCTCTCCCACCTTCGCCCAAACGGAGTGCACAGCACGTTAGCAGGTGCTTGCTCTGGCTGCTCTCCAAAAACAACAACAACAACCAACAACAAC
AACAACAACAAAACCCAACCAAATGAACAAACACCTCTCCCTTTAAAATCTGCCTGATGGCCAACTTCATAATGAAGAGAAATAGATCTGCCAA
TCACCGCGCGGCAGCCCGGCTTCCATGCATGAACTATCCAAAGCTCGCGACTGGGCTCGCCCAGGGACCGACTGGCTTTGATTCTGACTAGTGG
CAATCTGATTGCCCAGTGGCGCTGGACTTCTCTGATTGTCCAGTGGCCCAGCTGGCCCCGGAAGGAAAGTCTTCCGTGTGGGTCCCACACAGCT
CTCAAGACCAGATTTGCTGTGAGCTTGGCCCCAGGCTATAGGGGCAGACTTTTCCCCTGGTGAGAAAGATTACTTACCCACAGCCGGGAAGGGC
GTTCAGGGGGTAGAAACTAATAGAAACCATTCACTAGAATCTTAAAATGGTAGATCACTGTTTTGTTTGTTTTTGTTTTCTGATACAGGG
TATCACTCTGTAGCCCAGGCTCATTCCAATGAGCTCCCGGTTATCCGCCTACCTCTTCTGAGTGTTAGGATTTCAGGCGGAGCTTGGGGGGTGC
CCAGGTGCTCAATGGCCCTGTTTTTTTCTTTTAAAGTCAAACGATAAGAGCAGTTTCGTGACAGTTCTAGGTTTGTCCCTTTAAGTTATGGCAG
GCTCCTTCATGAAGAACTGGGACCGATTCAGTGTCCCTGAGGAAGCTTGGGGCCAGAAAGAGATGGGTCTGTGATGGATTTCCGTTCAGTGGTG
GTCAGACTGTGGCCCAGGGCTGAATGAAAGGGATTACGGTGTGGTGTGAGCCCCGCCAAACATGGCTGGTGCAGATGTTGACAGCTGTGTTAGG
CGAGCCTCTGTCCCCTGCCTTGTGAGAAGCCTGACCTAAGACACGTTGCTCTAGATGTAAGTTAGCTGTAGGCAGGATTGGGCCCACAGGGAAT
GCTGCCTCAAAATCAAGAAGAGGAAGCTAGAATCATGTGAGCGTGTTTATAAACCATTAATTGTCCATAGTTGTAAGAGAGTCAGGCTATGCCT
GTCTAGGACCTCAGATTGGCCTCCAAGGCAATAGAGGAGATTGTCCAGGTGCTGAGAGCCGGACCCTGTCAGGTGTTCTTTCATCTGCAGAATG
AATGAAAGAAAGCATCCCTTCTGTGTGTACTGTCACTGGCAGGGTGCTGGCAGTTTGTGCTGTGCCTGCCCAGGGGATGGTGGTCCCTCCCAGT
CTCTCCCCCTTCCGAGTGTAGAAGAGGCTGGGTTAGAGAATTTTAACCTCCTAGCTTCCATGGTCTGCCATTCACCTTTCCTTTTAAACACCCC
TTTTCTCTGTCACCCACCAAGACATCTGTCTTTCACAGTTCTGGGGTGTTGGGTACCCCAGGATCCCTGACAAGAAAGTGCCATTCCTGTTCTG
GAAAAAACTCCAGCCATGCCAGGGAAGTCCCTTCAGATTTCAGGAGGCTCAGGGACCATGGGGGTATGGGTCACAAATCTATCTCCAGGAGCTG
AGTTGAGGCTTTCAATGGACACATCCTCAGATACTCTGGACCCCTGACCCCAGCTCCCACCCCACCCTCATCCTTAGAGGCCACACAAGACACT
ACCAAACCAGGAGAGCCTCCTATCTCCTCTCCAGAACAAGCTGTTGGAGCCAGGACTCTACTTGGTTTTAGGGGTACCCAATGCCATTTCAGTT
CTCTCCCTAGGTATTCCTTTCTGACTTGTCACTTATGAACTCAGTGGTCTTAGAATACTGGGTTTCTTGAGATAACCTTTCTTTCCTGCCTTTC
TTGTGAGGGTCCTTAGACTTAGGAGCCAATGGCTTCCCAAGGTGAAGAGCCCCTGCTGAGGTCAGGGTTTCCCAGCCGTCTTGATGATTTGCTT
GAGAGGTGCCTCAGGTGGCACCGCACTTGCCTAGCAGGCACAAGCTCTGGGTCCAGTCCTCAGCACGGGGGAAACGGAGGCAGAAAGAAAGATC
AGGCGTCCAAGGCCATCTTCATCAAACTAGGGAGTTGAGATCAGCCTGCGATACAAAACCCTGCCTCAAAAATAAAACTCAAAACTGACTGGA
GTCTGACTCCGCTTTAGCCCTCGCTCCCTTCCAAGCCCACTGGTGGCAGTTAGGGCTGCTGTGTGGCTAAAACCAGCCCTGGAGAGACCTCATC
TCCCTCCTCTCAGGCTGCTGCCGTCTTTCCTGGCCCCACTACCACCTGCAAGCGGCCTGGAGTTTCTGACCCTCAGGCCTCTTTCCAGCAATCC
TGACTTTGTGGGACATGCTGGCTCTGGATGTGACTATGTTCTTGGGGATATCTTGACTTCTCACTGATGATAACTTCTTTTTTTTTTTTTTTTC

CCTACCCCAAGAGGTCATTTTAGTTGGAAGACTAGAAGTGCTGTGTTCTGGTTTTCAGGGTGGGCGTCTGTCCAACTGCTTTGGGGATTTCCAG
GCTGTTCTAGTAAATGCTGGCTGCAAGTCCCTGTGCACAAATGCCCTCTCTCCCCACGCTGTAGGAAAAGCAGACCCGAGAGTGTCCAAGTGTG
CCATTAGGTGTCTGGGGATGGCGGGCCTGGATATGGAGTCCCTGAGCTGGCTTTGTACTGTCCCTTTGTTCTCACTGAGGGCTGATTGTAAGAG
GGACTCCCTGTGTTGTTGGAGGAGTCCTCTAGGATACAGGCTCTGATTGCAGGTACTGTACACACAGCTCCCAGACCGAATCCTTAACACTCTA
AGGTTTATTGGCTTCAAGGACACCCAGCCAGCACAGGACTCCAGCTCTAACTCCATCCCAGTGGGAACAGGACCCTATACTGTCTGATATTACT
ATTACTATCCTAGCTGGCAAAGGGCAACCTGCAAGCAGCCTTGAGGGTGTCCTCTTTCTCGGGTGGTGCTGGGATCAAACTCTGTGAGGAACAC
TGGCCCCTTGGGTATCAGTAGTCACGCTGGTTCTTAGAGAGGCGAGCAGCTCAGAGAAAGCACAGCATTGTAGGAGAGGGACTTCTTCCTAGCA
GGTGCCCTCAGTGTCTGGGACAGGGGGTCAGGGAAGAGCTGGACCCAGAGCCAGAGCTGTGGGTGGGGCACATCTGTGAACAGCCTTTCGGTTT
TCCTTTGGGTTTAGGGCCACCGGGCACTGCTGATTTCTCATGGCACTGGTCCAGATGTCTTCCTGAGCCGGCACCTTTGCGTGGACCTCTGATC
TTCCGGCAGTCAGTTCCGGGACTGCTCTGACTCACAGAGATGTATTTGTTATCCTGAAAGATTTGCTTTCTTTCCAAGGATGTGTGACCGGAAC
GGCGGGCGGCGGCTGCGGCAGTGGCTGATCGAACAGATCGACAGCAGCATGTACCCGGGGCTGATCTGGGAAAATGATGAGAAGACCATGTTCC
GTATCCCCTGGAAGCATGCCGGCAAGCAGGATTACAATCAGGAGGTGGATGCTTCCATCTTCAAGGTAAAGCCTCCTGCGTACCCACTCAGTGG
TTTTTGGTTTCCCTCTGGCTCTGGAGGTATTTAGGGATATCCTATGACTAAACAGCCCACTATTTCAAGAGAAACAAGGAGGAGTGTCTGATTC
TGGCACGTTCCCTCATGAGGTTGAGAGTGACTTTCCTGCCCATTCCGCTCTTCTTGCTGCGGTGTACTGACATGCTCTGCTTGGTGTACTAAGG
AAGGCTTTGCTCTTTCAAAGTGCGACTCCTTGGCATGCAGGGATCAGCTATAAAGGGCGACAGGCTTCCACAACTGCTTCTGGGTCAGGTTTGA
GGGACACCCTGAGCTTGTGTTTTAATGTTTCCCCTCTGAGAGGATTGAGTGCGATCACCGAGGGCAAGTCACACAGCTGGCCTGAGAGGAGTCG
GCACCCTCTCATCTCACCCTGGGTGGCAGGTGATGCTCCTGTTTGCACTCTGTACTGCCACGGAGAGAAGCCACTTCTCCGGGATCTCATAGCT
CCTGTGTGATGGAGCCTGTGTTTGGGACTGGGTGGTCCAAGGTCTTAACCCTTTATAGTATAGAGAACTAGGGTAATTTCTCATTAAGGACCAG
CCCAGCCCAGTTCTGCAGGCAGGCAGGGTCAGACATCCCCTGAGGGTTGTTACACTCATGTATGAGTGTCCCTAAGGTTTTAGGCACCTACATT
CGTCTCTGGGAGTTTCAGAGTCTTAGGTCATGGCCAGCCCACACTTCTACTTTGTGAACAGCTGCAGCCTTGGTGGTTTGACCCAGAGTCCAGG
TTGTAAACCACTGCCTTTAGCTCAGTATGTCTGGGGCAGGGTGGAAGGTTATGAGGCCCACTGAACTCAGAGGACCAGAAGCTGACTCAAGACC
GTTTTCAAGCAGGAAGCAGGGCCTGCAGAGACTCTGACTACCAAAACTGTCTTGGATGGGTCCCTCCTGGGGCACAGTCTTCCCTTTCCAGTGA
GAACTCTGAACCAAGCATATGGTGACTAGCATTGACACTAAACTCGGAGGCACAGTGTGCTTGGCTGAAAGGCCATCACGAATCTTCCAGAAAA
AAGGGCAGAGTCCTGGACCAGGGGCCTCAGTTGTTGCAGGAGACAGCAGGCCTCGCTTCATCCAGTTCCCTGCTTCAGCAAAGCAGGAGTCCTG
AAATAAAGCCCCAGATTTATGCATCTTATGCAACGTTCTTCACGGCCAGCAAGCCGTTTCAACAGCCCTGAGGAGAATGTGCAAGATTCCCGAT
GTTTCCGTTGGTTACGCAGTCGCTCTGTGTGGCAATCTGAAATGAGACATCAATCTCAGCAGGAATGGCGGGAGATCAACGGGCGGGCGGGCGG
GCGGGCAAGTGGCAGGAGATTCAGGGCAGAGAGGGTCTTCTCTGAGCTGTCCTGAGTGGGGCGGGTACCTCCGCATCTTCAGTCAGACTCAACT
TGACTGTTGAAGGAACCGTAGGATGAGGCCTTGGGCAGATAGAGCCATCTTAGGGGCCGTCTGCTTAAGTAAGAAACCCACTTTTCTCAGCCAG
TTAAAACCTTTAAGAAATGTAGGTGTTAAGGAAAAGTTATATGCTTGCTTCTCTACCAGGGAAAGGGATTACACCAGAGAGCCCTTGTGCTGTC
TCCGGGCAGCGTCTTGCGGCTTGCTTCCTGTGTAGACCGCAGGGGGGAGAATGAAAAAGATCCTGAGCTTACCTCAGCCAGGCAAGGGCTGAGA
TTCCTTGGGCCTCGCTCGAGATAGGCCTGACCGTTTACCACTTACTCTGTGTGCAGAGGGTCTTGAAGGACGGAATAGGGGTTAATTTTCACTT
TACTTTATTTTGAGTTTGGAACTTAGGTAGTTCAGGTTGATCTCGAACTTGCTCTGTAGCTGGGTATAACCTTGACCTTCTGATCTTCCTGCCT
CTATCTCCTGCGTGTTCGGATTACTGGTGTGGGCCACCATACGTGGTGTATATGGTGCTGAGGATTGAACCCGAGGCTCTTGCATGCCGGACAA
GTACTCCTTTATCAACTGAGCTACACTCCTAGTATTAATTTTTCAAACACAGTGCAACACAATGTCAGCAGAGAAGAGCTTCAAGCAGTGGGCG
CCCCTGCGGGTCCCAGGACAACTCACTCTGTGCCTTCAGCCCTGAGAGACCATGCAGCTAAGATAGCCCTGCAGAGATGGTTTCTGGCCAGATG
TGGCAAGGCTCAGGGTAGGCCTGTGCTAGTACCCAGTGCTGTCTCACGATGCTCCCTGACCATGGAGTCTGATTTGATTGGTACCTGGTATCTC
CAGGCTTTCCTCCCCGAGGAAGCATGAGACCAGAATGGAGGGATAAACTGGGCAGTACTGCTGAGATCCCACCGTTCTGGCATGCGCCAGCTGA
CCGAGATACTGCTGGGGTATCTGTGCTTTCTCGGGTGCCATTGGAGAGTGGGTTCACCCAATGACTTAAGGGGTGTGGTTTTTCACTTGTGTGC
CAGATATTCTGGGCTGCTACATCCAGGGAGAGGTACTGCTGGGGAATGCCTTACCGTGTAGGGTGGTCTTCACTGTGTCTGTGGCAAAGAGGCA
GAGGTTTCCATGTAGCCCAGCCCCAAAGTCACTGTTCCAGTCTGCTTTGGAGTTCACAACAGCCCACAAGTCAATGTGTAGCCAGCAGTGCCAT
TTACAATAAAGGCCAGAATTGGAACTGTCTACTTAAAAAAATTTTTTCTAAAAGTGGGTTTGCAGCCATGTCAGAGAGGAAGTGACCACTCAGG
CTCGGGGGTAGGAATGTTCCTCCAGCTTCTTGCTGAGCATAGATACAGAACTTGGCATCAACAGTGCAGAGAGCATTGGCCTGGAACATAAGTG
TCCCCGGTAGGTGTACATGTGTGTGTGTGTGCATTTGGAGGCCAGAGGTCTATCATTGTCCACAAAAAACGATTTCACTGAACCTGGAGCTC
AGGGATTAGGCTAGGTTGACTGCCAACGAACCCTGGGGATCCTGTTATCGTGACCCCAGGGCTGGGGTCACAGGCACACATACCCATCTTTTTC
TGTGGGCACCGGGGATTTGAACCTGGGCCTTTATGTTTACATGGTAAGCACTGTATTAAGTTGGCCCCTGCTTTGAATTTCTGGCCTTTGCTTA
AAGCACAAGCTTTGGATGGGTCAGAAAAAAGAAATTAAATAAAAAGAAAAAAAAAAAAGAGGCACTTAACAGGGACAACAGTTGGCTGCATCTT
AAAGGGCTAGAATCATGCAAAAAAAAAAAAAAAAAAGCCCAAACAGATGTTCTATTAAGAGGAGAGACCGGTGGATACACATGTGTTCCTTTTCA
TGCTGGAGGTGTTATGTGACAAAGCAGAAAGTCTTTGACGGTGCTGGTGAAGCCATCCACATTTTCCTCTTTGGACTTCATGACCTAAGACACC
CCTCTTGCCTCCTCCCCAGGTCCTTCAAGCCAGAGGACTTTGCCAAAGCTGCATCCTAGGCTGTGGGGAGCCTGGGTTCAAATTCCAGCTTTGC
TGAGTGTTTTGGGGGACCCTTACCCAGCTCTTGTCTGTTGAGATACAGTGGTCTTCCTGAAGTCCAATTGGGTGCTGACCTTGGACAAGGGTTG
ATGGCCAGGAAAGGCTCTGGGGGAAGGGGGCGGGCGGTATGCAGCCGGCCTTTGAGTTGAACTCTGTGGTTTGTGTCCCTCTGTGTTTACTGAG
TTTCTCTCTCGTTCTTCAGGCCTGGGCAGTTTTTAAAGGGAAGTTTAAAGAGGGAGACAAAGCTGAACCAGCCACGTGGAAGACGAGGTTACGC
TGTGCTCTGAACAAGAGCCCAGATTTTGAAGAAGTGACTGACCGGTCCCAGCTGGACATTTCTGAGCCATATAAAGTTTACCGAATTGTCCCCG
AGGAAGAACAAAAATGTAACTATCTGTTGGGACCAGGAAGCCCTCTAGGAACCTCCTTCACCCCCCCCCCCCCCACGCTTAGCTCCTGAAGCCC
TCAGTCTCCACAGGGCTAGAGCAGACATGCCACCCACAGGGTTTGGGTGCCTGGTTTTAGCTCACCAGAGTTGTTCTCTCTTGTGTAAGCAGAC
ATAGAGAGCTGCTCTGCTGACCTCATACGCCATGTGCTGTCAAGTGGCAGCTTCCTGCAGAGGGAGTGGCCCAGTGGAGGCAGGGAAGGGTGGT
GGACTCTGGGTCATGGCAGCCAGAAGCTGGAGGGAGCGAGTCCCCGGAGCTCAGCATAAACTCCTCCAAATGGGTTTGAGGCTCTGCTGAAGTC
TGTGATGCAGGATTCCCTGCTGCTTCCAGGCAGTCTACAGAGGAGGCTGGGGAGGAGTGGGCAAGGCAGGGACGGGCGGTAAGGTCCAGGGAAA
AGTTCTCCAGTTAGACGGGCCGGCAGTGGGGACATCACTGATGGCTTCGGTGTGTCACTGCTGGAGAGGATAACATCAATGCCGAGGTCTTTTC
CAGCGGTAATGTCCTAAGAGCATCTGTAAAGGAATGAACGCACACTGGCCTTCCCCAGCAGAGCCTCGTGGCTCCCAGGGCCTGGTCCGTTCTG
TACTGCTTCTGGAAGGCCGGCTCCTTTGTCTTCGCAGTGATTTGAAGCAATAGGGAAGTTTCTTTCAGAGCCCTGCTCCCCCAGGACCAGCCAG
GCTTGATCTGGTTAATGACCCTGACTTGTTTATAGTGTGGGTGGAGCCCCCTCACCTGCAGGTTTGGGGGTGAAGGAGAGGCAGAAGGACATAG
CATTTGCATGGCATTTGTCTTGGTATACTGTACTGTGAAGTTGAGTGGTTTGCCTGCCTCTCTGGCTGGCTGGGTGGGTGGGTCGGCTCTCAA
CCTCTGCTTGCCCAGCCATGGCTTCTAGGTGAGTCTCTCCACCTGGATGAAGCAATGGGGAGAGATGATACAGGTTCCTGGGGGTGGGGAGCCT
GGCGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNACAAAGTGGGTCAGCACCCATCTGGGACCAGGTATACTGGCCGATGAAAGCATTGGTCCCCTGGGGAGGCAGGCAG
CAGGCTGTGAAATGTCATGTGTGTGACTTCCCCATGTGGCACGTATACACACACACACACACACACACACACACACACACACACACACACACAC
ACGCACACACGCACACACGCACATGCACACGTATAAAAGGGCAAAAAGATTTTCTGTTACCTGGCACTCCCTACCTTCCAGGAAATCTCTGGGT
GTTTGATAAAAACCCAGCCTAGCAAACTTACCTTCAGTATATGGGCCATAAATGCCTGGTATAAAATGCACCCGGTGGGGTTCAGATAGAAGGA
AGAAGCCAAAGTCTGGCGCTTGTCCTTCACAAGCCAGTGTTTACAATCCCCTCCACCACCCACCACTTCTCCCCTTTTTGACTTGGCAGATCAGAT
GACCCGGCCATGAGAAGCAAGGGCTGAGCCTTTCCCAAACCTTCCAGCAGCTGCTGGTCAAAACCAGCGAGGACGCTCACTACTCCCGTTTCCT
TAATTCAGCATTTTAAGAAAAGGTTGCAGTGTGCTCGGCTGCCCTGGGTCATGGTGTCTGTCCCCTTTCCCATAGGCAAGCTGGGCGTGGCACC
TGCAGGCTGCATGAGCGAAGTTCCTGAGATGGAGTGTGGCCGCTCAGAGATTGAGGAGCTGATCAAGGAAGTGAGTGGAGGGGGTCTCAGGCGT

CTTCCAGGGAGGATGGGACATTGCTTCTAACCCTCAGAGGCACTGAGAGCCTCAGGCTCTGCAGGGAAGTGAGGGACACCCCAGCTACCTCCCC
AGGCCAGCCTCCCTTTACTGGTCAGGCCCTGCCCATCCAAGCATAGTTAAACCCATTGAATAGCAGCTTTGAAGGTCTCCATGGAGTCTTAGCC
TTGTTTCTTAGCCAAGCTTCATATGGAGGTCTCCATCGCTTCTGGTCATCCCGTCGGCCCTCATGGTAACTAGATGGCTTGCTTTTCAAGACAC
AGGTTTTATTCCTGAGTGTGTTATAAGATTGGATGACTGAGGCCCGTAGGATCCACTAAAGGTGGTGGGGACCAGCCTGTGGCTCAGCGCTCAC
CTATCGTGTACGACAGTTCCCAGCAGCATACACAAAACACACATCTTAGAATAATCCCCCATCACATGCATGGTTGGCAGCCTGGAACTGAAGG
CTCAGTGGGCTCCGTTTAAGTTAAACAGATGGCTTTTTTGTGTGTCTGTTTTTAGCCTTTATATTGTGTCTGTACAAGGTGGGGTTTCCATAGC
TGAAACAACCCTTTAAGCTTATATAAGCAAGATGAGGTCTCTTTAGACGGCAGCTGGCCCAGACCCTGTCACCTCAGCTACTCAGGAGGCGGAG
GCAGGAGGGGTTAAGACCTGCTTGAGCTGCAGAATGAATTCAAGGTAGAAAACTTCACGAGACCCTGCCTTGAAATCAAAAGGGGAAAAAGGCT
GGCAATGACATAGCTCCGTGGTAGAGCGCTCGCCTCGCGTGCACAAAGTCCCGGTTTCCATCCCCAGCTCAGTGACATCATAAAAATAAAACCA
AGACTGTTGTTAGCAACGACACATCAGCTGTGTGGTCTGCAGCATTCTGTGGAGCACTGCAGCCGGCCAGCATCACCTTCCCAAGCTGCCCAGC
TCTGCGGCACATGGCCGTTGTGATGTTCTGGGTGGTCTTGGTTCTGTGTCTCCCCCACCCCCACCTTGTCTTGTTTTCGGTATAAGCCTTTACT
GCCAACTTGCCTGAGCCAGTAGATGGTGATGATGTCACACCAGGGTCACAAGCAAAGGAGGTTTCAGGACGTCTCCTAATTGGACCCATCCACC
ACTGAAGGCCCGAGAGCCCTGTGGCTCTCTGAGTGAGATTCTCAGCACAGTAGAATTGGCTTGGTGTCACCCCAGAGGGTTGCCCCAGAACTGG
GCTATGTCTCCCAGCATCTGAAGGCCAGTGAACTCTTTCATAGCCAAGGCTAGTCAGGATGCCAGCCCAGTGGGTTTGTAGCTTAGGGTCTGAT
GAATTGCAAAGGGAAGCTCTGCTTTTCTCTCATGAGATAAAAGTTGTGGATTTAGTTGTGTGTCTGATATTGGGTTTTACAAACATGGGGTCAG
GTGAGTGCTGTGCTGGTGACCCGGGACTCAACTGCTCTTTTCTGTCACCTGGGTCTACAGCCTTCTGTGGATGAGTACATGGGTATGACCAAGA
GGAGCCCATCCCCACCAGAGGCCTGCAGGAGCCAGATCCTCCCTGACTGGTGGGTCCAGCAGCCCAGTGCAGGTGAGTGTGGCTGTCCGGCACT
AGCAACCACTAGGCTCTTTATGTTAGGGTAGGAGGTGCTTGCCACTGCTAGGATCCATGTCCTGTGGAAGGGTCATGAGTCACAGCCGGGGACC
GAGACAGCCAAGCTGCAGCCTCTCAGGCAGGCACAAAGGTCTTGGTAGTCATGCATGGTCAGTCCCCTCCTGTAGTCCCCGGAAGCTGAGAGGA
GCCTGCCAACATCCCCAAGCCTCAAGGGAGGTCCCAGCTCTCAGCCACCTGTCTCTTCCTGGCTCACTGTCAGGGCAGCCCCAGAGCCAGAGAG
AGCCAGGGCGTTAGGAGCGGGAGGGGAGCTCAGTCAGGAATAGGCGTTAGTTTGGAACCACTTTGGGCAGTTTTCATGTCTTGGTGGTGCCTCT
TGTTTGCTCATCCATAAAATGGGCCACCAGGACCTGCCTGGTAGGATCCACAAGTTAAATAAAGGATTCACCCCTTTGATAGTATCTGGGAGGT
ACACCCATGCTGTAGCTACTTAGAGGGTCATTCACCTGGGCCCCTACCTCAGTGTGTGAGCAACTTTTATGGCTCACAGACATCTTGGTTTCCT
CTTTTGCCTCTCTCCTGCTAAGACAGGAACTGCTGGGAGGTCTTAACTGGCCTTGCAGGACTGTGAGGTTTCCAGGCTGTGGGTGTTAGTGTCC
TGCAAGGGGCCTTGCGCTGCAGGGGTGTGTCTTTGGCAAAACTGCCTGGGACTCCAGCTTCCTTGTGAGACAAGTCCCCAACCATTGTGTATGG
TCCTTGGGGTAGCAAGGAAGCTTAGCACAAGGACAGGAACCTGTAGTGCAGAGGAAGTCCCCTCCATCATGGTAGGTTTCTGTGTCTCACGTAG
AGTGAGGTCTGCCCACTAATGTTGACACCAGCAGTGTCAGCCTCTCATCTATAGCTCAGGGATACTTGGGTCCTCCCTGCACCAGCCCAGCAAG
GCATATCCTTTCTTTTTCTCTGCTTACAGGCCTGCCACTGGTGACCGGATATGCCGCCTATGACACACCACCATTCAGGTACCAGGGTACTCTGGG
AGAGCATGGCACAGGCTCTGCTTGAAAATAGCCCCATGATGTAGATGGGGTCATGAGGTCCCACAGACAAGTGTGGCCTAGGGGTAGGCTCCAG
AGACTGATTCTTCTTCCTCGTTCTGTGTGGTTTGGGAGCAGTTATAGTCATCCAAGAGTGTCCTCAGGGACAGCTCTGCAGCCGGGAATGTAGG
TTGCTGGACTGCCTTGGCCTCGCGTGGTGGGATCTGACCTCTTGGGGCGTCAGGTTCATCATGTGTGAAATGCTGTACTATTCCTAACACGGTC
TAGTAGGGACACAGCTGGCCAGTGTCTCCCATGTAGGGTCTGTCACCTCCTCTCACTTCCAACTCTGTAGCAAGAGTCCTAGAGATGGTTGTAC
TGATATACTGATGGTGCTGAGGCTGGTGCAGATGTTGGTGGTGCTGATGGTGCTGATGTAGATGATACTGATAGTGCAGATGTTGATGGTGCTG
AATGGCTATGATGCTGCAGATGCTGCTGATGCTGGTATGGATGCTGATGGTGATGATGTGGTTGCATCAGTGCTGTCTATAGAAGTTGGACCTG
GTTCCTCCTCCCAGCCCCCATGCTCCCAGACTCAAGATAATATTTACAGATACCTGTATGAAGCTAGGCTCTTCTCTGACTAGATCATAACCTA
AAATAACCCATTTATTTTAATCTACATTCTGCCACGTGGCTGGTTACCTGTGCTCAGGGACCATGTGTCCCTCTCATCACAACTTCCCGGGAGA
ATCTCCCGCACTTCGCCCTATCCCAGAATTTTCTCTCCCTCCGGGATGTCTCTCTTCCTATTTCCTGCCTAAGCCATAGGCCGTCAGATTGACT
GTTTCCAGGAACAATGTCCATACAGATGTATGAAGTTCCCTCTACAGCTGCCTTAATGAGTGAAATGATTCTTTCTCCTGGAGCACTGTAGATG
AAGAGCGAGCCTTCATCTGAATTCTCCCCTCCCTCCCGCTCCCTCCCCACCTGCGGTCTTCTGGCTGTCTCCTCTGCGGTCTGTGTTATTTTGT
CTCTCTGTTGTGTGTGTCTGATGTCTGTCTGTCCCTGACAAAGTGCTTTGCTCTGTATTTATGGAACAGCACAATAGGTACAGTATGGGAAAGG
ACTAAGGGATTATCTTTTTATAGAGATCTGGAGTTTTTTTTCAAGTTAAGACGTTACTTTGCTGACCCCGGCTGACTGAGAATAGCGTGCGGCC
CTGCAGACATGCTATTGATTTATATCCTCGTGTGCCTTCCAACTCTTAGGGGATATTTCTTTTGATTATGGTTGCTTTTAACCTATTGGCTGTT
TTCAGCGAACGATTACCATAGTGTGTACAATGTATGCATGCACACACACACACACACACACACACACACACACTACTCTGGTCATAGGCACGGA
AGGGTATATAATTTGAGATTTAAGCTATGCATTTAGCTTGTGTTTTAAAAGCTGATTGAGAATCTGGGAAACTGAGGCGACATAAGGTTGGTTG
CATGGGTCTTTCAAAGGCAGGTTAAACGGGCCGAGAACACAGTATGGAGGCAGAGCAAGGACGTAATTTTAAATGGTCTCAAGGCCAATGGTTA
ACCTGGTTGCAGAGCCTGACAAAAGTTCAGTTGCTGAAGGCAAGAGGTGTTTCTGGAAAAAAGCTATTTCTATAGGTGACGGCGCTCCTGATGG
TGGTGATGGTGGTGGTGGTGCTGCTGCTGAGACTGATGGTGCTGGTGATGATGATGGTGGTGGTGATGTTGAGGATCCTGATGGTGGTGGCGAT
CATGGTACTGATGGTGATAACGCTGGCAACCATGGTCATGGTGCTGATAGTGATGGCTGGTGTTTGTAGTGTGATTTTGGGTGCCAGAGTCAAG
GGTGACATTCTTGTGGGCTCTTGTCTCTTTCCCATGCTATTAACCTCCTCTAGGTTATGAAGACAGGTCGTTTCCCATTTCAAGGCCCTGGGCA
GTGTGACTGATGGGTCTCAGAGTGGGGATCTGCCATCCTCACTGCTGCTCGCTGTGAGGCAGGTGGCATCTCTGTGCCGTCCTGCGAGCCACCG
TGCTGCCTGGTTTCAGGACAGGCTCGGTGGGGCTCAGGGAGAAGCCCTGGGAGCTGTCACGAAGGTAGAGGCAGGTGCTCACCAAGTAAGAAAA
ACACAAATAGACGTTCGCCCCTCTCTCTAGTGCTGGCCTGTCCATGTGTTGGGGTCCTTTTAGATCTGGCTGTGGATGGCGAGCTTAGCTTGTA
CAGCTTCCACAAGCATTTGTCTTCTCGACTGCCCTCAAGGCTTCTGTAACCCACTCAGGAGGCCCGGGGTCACGGGCTGAGCCTTTGGCCTTGT
CAGCCCCGGGCTGTGGCCCTGAGAATCTGCTGACCAATGCATTCTGGGGCCACACTGGCCGGGCCAGACCTGGGGCCTTCTGAGTGAGAGGTAA
AGGCAGGCTGTGGGGAGGAAGTGCCCTTGAGCCTTGCACAGCTGCCTCAGCACAAGTGAGGGAAGCGAGGTGCCCTCAGCCACAGCTGGGAGCT
CTTCTTCCAGAACCCAGGCCACATGCCCCGTCTCTGTAGATACGCTGCAGCCGGGCTTCCTGACTGCAGAGATGACCTGGGGTGAGATGGGTGA
GGCAGGGGGACCACAGGGAGTAAGGGAGACCATGGCACTGTGCAGAGCCTTGACTCTGAGGTCTAACCCATGGTAGCTGCCTCCCTGTGGTAAG
CAGTGTTATAGGTCTTGAGACCAGGCTAGGATAGACTTCCTATTTATCAGAAAAACCCAGACCTCTGGCTTTTAAATTTTATTTTATTCATTGA
TTTATTGATTTATTTTTAGAACAATCTTGAGAGATGTGTAGCTCGAGATGGTCATGAAGTCACAATCCTCCTGCCTCGGCCTCGAGTGCTCTGG
CATGAGGCACCCCTCTCTGTATTTGCCACCCACGCCAAGGCTTTCTCAGAGGTGCTCTGCTGTCAGACCTCTTGAGGCTGCCAATTTGTTCCCA
GCCTGTGTGCATCTAAGGAATGGGTCAAACAGCAAGGCTTTTTTTGGTGTGTCAGCACTTCAGGGTGAGGCAGAGCCAGCCTGCTGTGGAGAAA
AATGCCAGGCTCCCCCAGCAGACAGCTGGAGTGGCAGGGCTTGCCCTTTCACCTCTTCAGCCTGCAAAATGGCTGCGGTGACCAGCGATGTACC
ACAGGGGCCAGATGTATGGATATGCCCAACCCCCGCAGAACCAGGGATTTCAGTACGTAGTCTCAGGGGTCTCACCTGTGGACCATATTTTGTC
CCGTTTCCCTGGCTCCTGTGGTCTCACAAGAGACCCCCCCACAAAGCTGGCGCTCTTGTCATCGCTACCTTGCTGATGAAGAGCAGGCACAGAG
AGGTGGAGCCGCTTGCCTCAAGTCACACAGCTGTGAGGAAGCAGTGCTAGAATTCAGTACGAAGGCGATGCAGATGGCGATGCTGATGATGCTG
ATAGCGATTTTAACGGTGGGCCTGGGAGTGAATGTGGGGCGAGCTGCTGGTGTCACCCACACAGGCCCACCCAGGCAGTGGTGCAGTTGGTGAC
TGCACAGCTTTAGGACACCATGAGTTTGGGGAGCTATCAACTTGTGTGGCTCCAGAGAGAAGCCTGGATTGGCCTGAGGTGGCGAGGCGAAGCT
TAGGATGCACAAGGCTGCCGACAGTGGAGAATTCAGTTTATAGCAGTTACAAAGCTTCTCCAACAACAAGCCTCTAGCTCTGGGCTCCTGGTGT
CCGAGCTTCCCTCCCAGGAGTCCCGCCTCTATGATTCCCTCCCTGGAGCCCCGCCTCCACACTAGCTGTTAGTCAGGGGCCGCTGGGCCCTCTG
CCTTGTGTTTTTCTCATCTTTCCACTTTGTAACCTTATCTGGAATCCGGTTGTCCTTGCCTGCAAGAGGACGTCAGTACCTTCAGTACCGCCTG
CTAGACAGGAAGCCAGAGGCCGGAAGAAAAGGAAAGTCAACGAAAGCCAAATACTGGGTTGGCACGTTTCCAGCCTCAGGGTTCAAGTTCAAAG
TCTCCCTCCCACCCAAAAAAGATCGTTGGGATTATTATGGTCGGTTGGTGCCAGACTGAAGCTTTTCTCTCTTTTTAAAACTTTTTTGTTTTTT
GTTTTGTTTTTGTTTTTCGATTGATGGGTTTACGTTGTGGCACTGGGGATGAAGCCTAGGACTTGAGTGCGTGAGGGAGCGCTTCCCCTCCGAC

CTGCACCCCAGCTCCTGAGGTGACAGAGAGAAGGGTTGGCTAGGATGTAGCCTATGGTCACAGCTCCTGCCTGTGCTGCTCATAGGTGGAGAGA
AGGCTTCTAGGTCTTTCTGGAGGACAGGCTGTGTGTAGGATTGTACAGAGGCTTTCGATCTGAGTCCAGGTCACAGTGTTTGTGATAATGTTGA
TACCTTCACAGGTGGGTTTCTTCCCATCTCTAATGGGGGCTACCGAGTGCAGGGTGACTCGGGAACCAGAGCCATAGGCAGCTCATGAGAATTA
CATTGGCATGCTTGTATGTCTTGAGCTTGGTACAGGCCTTCCTAGATCTCTCTGTGTTTGCGCATGTGCATGCACATGTGCACATGTATGCATG
AATGCATGTTCACACCTGTGCTCATGTGTGTGGAGATGTGTGTGTATATGAATATGTGTTCATATGTGTGTAGGTTCATGTGTATGTGAATGCG
TGTTCACACGTATGTACACGTGGAAGCCAGAGGCAAGTCTCAGGTATCATTTCTTGGGCATTGCCCGTCTTATTTTTTGAGACAGGGTCTCCTG
CTGGCTTGGATCTGACCAACTAGGTGAGACTGGCTGGCCAGCCAGCCTCCGGGGTCAGCCTTTCTCTGCCTCTCATGGGCTGAGATTACCAGCA
AACAGCACTTGGAATGAGGAATAGACTCTGAGCCTTTAGGGGAGGCACTGGGGCTCCCCATCTTCTAGGCCTGATGGCCCTGTGCTCTTGGCTC
CCACAGCTTTCTCCCAGATGGTCATCAGCTTCTACTACGGGGGCAAGCTGGTGGGCCAGGCCACCACCACCTGCCTTGAAGGCTGCCGTCTCTC
CCTGAGCCAGCCGGGGCTGCCTAAGTTGTATGGGCCGGATGGCCTGGAACCCGTGTGCTTTCCGACGGCCGACACCATCCCCAGTGAGCGGCAG
AGGCAGGTGACCCGGAAGCTGTTTGGGCACCTGGAACGTGGCGTGCTACTGCACAGCAACCGCAAGGGCGTGTTCGTGAAGCGGCTGTGCCAGG
GCCGCGTGTTCTGCAGCGGCAACGCGGTGGTGTGCAAGGGCAGGCCCAACAAGCTGGAGCGGGACGAGGTGGTGCAGGTCTTTGACACCAACCA
GTTCATCCGAGGTCAGTACCAAGTCACCTCGCTGCCACCCACTGTCCCTGCCTTAGAGGTCACACCCACCTCCTTCCTTGTGCCTCCTGTATCA
TGGGCCAAGTGCACTCTTGCATGGCTTTGGCAGTGGTATAGCTGGGGGAACCCTTGGAAGCCTAGCCTGCCTGTGCTTTCTGAGCGCCTGGGCA
ACCCTTTCCTCACCTCCCCCTCGGTATAAGGACAGCAGAGTTGGAGCCTTTCCTTTTGGAGTTGACGAAGCTGATGGTTGTTCCTAGCCTGGGA
ACGGCTTAGCAATGCAGACTCCAGGGCCTCAGCCTGCCCAGGCTCGGCTTCTTTACCCTGACAGGGTCCCTAGGGGATGTGGCATGATTTAGTG
GGCAGGAGGATCATGGAGAGAGAGTTCCAGGCCAGCCTGCACTGCACAGTGAGATCCTGTCTCCCCAAAACAAATCCAGACCAACAAAAAGTTC
CCCAAATCGCCTAGCAGTATTCGGGAGTGACAAATCCCATGGGTCCTTGGTTGGCTTCTAGCTAAGCAGCCTTGTATCCTAGGCCCCTTTCCTT
GGCTGTTGGGGGATCTGTGACTTCCTTCCAAGTTCTGTACCCCAGCCCTGGGCCCTGGCTACACACAGCTCAGCGGTTCACTGGTGTCTGTGTT
CTTCCAGAGCTGCAGCAATTCTACGCCACCCAGAGCCGCCTACCTGACAGCAGGGTGGTCCTGTGCTTCGGGGAGGAGTTTCCGGACACTGTGC
CCTTGCGCTCCAAACTCATTCTGGTGCAGGTGAGAGCCGGCAGCAGTGTCTGCCTGTGCCCAGGGTGAGAAGAGACAGCAAGGACTGGGGGCTC
CACCTGGGCAGAGGTCGGGGACTAGATCATACGTGGCTCTTGTCACCTCTGTGATGGCTTCCCACGTTGGGACTCTCTTCATTTGTGTTTCCTT
CTTCCCCTCTCTGCTTGCTCCTACTTTCCCTCCCTCTGTTCTCCTGTTCCTCCCTCTTCAGGAAATTTCTGCTTGTCCAGTGGCCCTAAGATCT
AAGTGACAGATCACGGTCTATTTGACTATGGTCTGAACGGTGGCACTCTTGTAGATGTAATGGTGACAGTCTGAGGAGCAGCCAGCCTGGTTGG
AGCAGTTCTGGGAGAACACTCTTAGCCATGTGCAGGAACGCTGCCCACCTGGCTCCATCTTGTCTCGGAGGGGATTGGAGGACCTGTGGTGGAG
GATGGCCCCAGTTCCCCTCCACCTTGATTCTGACTTTGCACATGGCCCTTGCAGGTAGAGCAGCTGTATGCCAGGCAGCTGGTGGAGGAAGCGG
GCAAGAGCTGCGGTGCTGGCTCCCTGATGCCAGCCCTGGAGGAGCCCCAGCCGGACCAGGCTTTCCGCATGTTTCCGGATATCTGTACCTCACA
CCAGAGACCCTTTTTTAGAGAAAATCAACAGATCACCGTCTAAGCCTCAGTCCGGGCACCCCACCTCGCCTGAGCTCAAGCTTCAAGAGTCTGT
GACTAAGAGAATTCCGAAAGGATGTGGAGCCCTCTGACTGGGGTGGGCGGGTGTCCTCCAAGGGGCCTCCGGAAGCCCACAGAGGGATGCGCTC
CTGCTCAGGCAGGTGTCAGAAGCTTGCAGGGGCTGTGGCCGCAACCTGTGATTAAAGCATTCCTTTCCTGCGTTTCCCCCTTCACCACTAATGG
CTGGCCTTTCTGTGTGCTGAGGTCTTTCGACAGTTCAAATCATCTGGTGGCAGCAGACTCGCCTTTGCCCTTCTGCGGCCGAGGGCGGAGATTT
ATGACTTTCTCTGCTTGGTTGGAGAAGAAGAATCTTTACTATTCAGCTTCTTTTCTTTTTGGCCAGAACTCTGAAAAAAAAAAAAAACTCTTTTT
AAGACAATATTTGTATTCTCACAGGCTCAGCTGTCAATCACTTGAGACCTTCCCTGTAAAGTGGGGCAGATTTTAAATATGGGTGTAGATACTG
CTTGCAGCCTTCGCAGGAATTTTGGTTGTGGTTCATTGATTCACACAGACTCTGTGTCAGCTGACAGGGCTGTGTGGGGCATCAAAGGAGGACC
AGGCACTGTGGAGAAGACCCATTCACTGGCATCTCACCCTTCCTTGTCCAGCTCCATACCCAGTCCTAAGACCCAGTGAAAAGCCACGTCCAAA
CTGTGCTCTGGGCTCATCAGTGCCCACCCACGTACCAGGGAAAGGCACACACCCTACCCAGTGGGCACAGAGCGGAATGTCCCCCTACCGCACC
ATTTGCGCCCCCAATCTGGCTGTCCAACCTAGTTTGTAAGTAATCTAAATCAGTGACTATAGCCCCGCCTAAGGGACACTTCCCGGAGGAGGGA
GCCGCTGAAAAGGAGTTAGTTTGAGGGTCAGTACACAACAGGGGCAGAAAGCCAAGCAGATGTGGGGGCAGGGAGAGTCATCATCTGCTTTTGT
CTGAGAGAAGGAGAGCTTCTCCGTTTGTTCAACTTTGTAACAAGCTGGGTTACATGCTCCACGCAGCTAGAGAAGCCTAGGTGCTCTGCATTCC
CTGGGGAACTGCAGGAAAGCCTTACCTGCTGACTGTTGCTCTGGGGAAAAGCCTGAGGGTCCAGAGCAGCTACAAGCTACAGGCCATACCTTAC
AACCTGAAAAGCTAAGGACCACGGTGACCTTCCCGGCTACTGTGTGAAGGTGCTGGGTGGGGCCTGCTCAACAGACAGGGTCGACAGAGTGTGT
GATACATGCAAACAGAATCCTTGGAGTGTGTGATACATGCAAACAGAATCCTGGGCCCCTGCTTCTCCCCCTCAGTCAAAGCAGGAGTGTCCCT
TCCGAAGCCAGGACAACCTGTTCACAAGGCCCCTTGTCACATGTCACCTTCCACCTGCCTCAAGGAGTGCTAGTGTCCAAATATTTATTTTTGT
ATTCTCTTAAGAAGTATTGATTTCATCCTTTATTAAAAAAAGTTGCTCTTTCACAAAAGTAATGTTTGTTTCTTTTTTTAAAAAATCACTTTTG
AATATAGTTTTCATTAGATTCCAGGATTTTTTTTTCTTTTTAAATTTTGATGTTAAAAAACGAGACCAGAGGTCTGGAGAGATGGCTCAGTGGT
TAAGAGCACTGACTGCTCTTCCAGAGGTCCTGAGTTTAATTCCCAGCAACCACATGGTGGCTCACAACCATCTGTAATGGGATCTGATGCCCTC
TTCTGGGATGTCTGAAGACAGCGACGGTGTACTTATCTACATAAAGTAAATTTATTTTTAAAAAGTCTTTAAAAAAAATGAGACCAGATCTGAC
TCTGCAGCCCAGGCTTTGAACTCATTGCAATCTTCCTGCCTCAGCCTCCTTAGCAAGGGGAGGAGAGGTGTGAGTCACTGTGAATCCTTAAAGG
AATCTTTAAAATAAATCTTTAATTTACTTTTAAGAAATAATGGATTGAGATTTTCAAGGATTTAGGGATTTTTTTTTCTTCTCTTAAGACAATA
GCAGAAAGCTCTGGAGAATAACAGACACAGGAGAGCACAGAGGGCGGGCAATCCACGCTGTTCTACCAGATGTAGATTAGGGTTTCAGTGAGCC
CAGGCCTCGTGCAGCATGGGAGGGCATGGAGGAAGGAGACTATGCTGACAGCACCCTTCTGGAAGCTTCTAGAAGCATTAGTGGGACGGTCACC
AGTCATAGCGCTGAGGTGTGATCTTCCATTCGTGCACACATACTTATGCCAGACACCGGCTCAGAATGACCCTCACTGGTGCTATAACCAGCCC
AGGGGCCATTTCAGTAGCAACTGGGAACAAAGGCCCTCCCCACCCCCACACCGCAGGTGGGCACAGACTGCTAGTTCTGCTGTCTCTGAGGCAG
TGTGCACTGTCTCTGCTCTCATGGGATCTCAGAGACAGGGCCAGTTAGTCCCAGCTTACCCATGTGGAAAGTGCGGGAGAGGGCCATGTTTGGC
TTGAGTGAGGCCTCCCTTGTTCCGGGAGTGCAGTTAGAGCTTCTGCAAGATCCTTGGCCCAGAGGACAGCTGACTGCAGAGCAAAGTAAAGCAG
CCATTTCTGCAGGGAGTCCCGTTGGCTTCAGAGGGCTCCAACGGGGGTCTTGTGTATAAACAGCTCCTCTCTGGATGTGCAAAGTGAATCCAGT
CCTGTTTGTGTCTCTCAGAGTTCAACCTCTGGGCCAAGAGTGGATGCTGTCTCCCTGAAGTGCGGGAGGGAATTTGGCATCTCTGAAGGCTGGG
GCCTCCTGGGACAGGACTTGGGTCCTCAAAGGAATGTGACTTTCTCTGGGTGGAGACTGTTTGGTCCTGAAGGAAAGGCCAGCTACCTAACCAC
CACTCTTGGGATCATATAAAACCCTTATTAGGTTAGTGTGTGTTAACATGACTCTGAGTGGCTACTTAGTTCCCTAATGTCTGCAAGGTCCACC
TGAGCAGAACAAACTTTCTGCTTCCCTTCATACCAGTCACAGAAGACAAGGACCCTAGAGACATCGAGGGAAGAGCAGGGTGGGGTGAGGCAAG
TGCCCTGGGGTGCCTGCTGTGTGAGGTATTGGCTGGGCCGGTGAAAGACAAGGGTTGATTGTGTGGCCAGAGGACAGGCTAGGGTTCCACTCAT
CATGCTTCTGTCTCCCATTTCCCTCACCATCGAGAGGGATTTGATACCACACACAAAGAGGCTTAACAGGCCCGAAGAGCACAGAGCAGAGCCT
GCCGCTCAGAAAATACCCAAAATAACCGTATTTCTGTTTACCACTCATCTGTAATTAAGCCAGGAGTGATTAGAGAGCTGAACTATAAATATTA
AATAGTCCTTGCTGACACGCTACAACGCCAATGGTTAAGTAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTCAATCAACTATGTCAATAAT
GTAATTGTTAATAGGGTGTGGTGGTGCACTCCTGTAAGCCAAGCATTCCAGAAGCTGAGGCAGGAGGATGGTGAGTTCCAGACCATGCTGGGCT
ACACAGTGAAACACTGTCTCAAGAAACCAAGCTGCAACAATAGTGGAATTAGCACTCAATTGTTTGGAGTGATAAAGAAACGTATGACTGTGCA
GAGTTATATGTTTTCCCTTTATTTATGGACACCGATTTAATTGAATATGATATTAATGTGGTCATTTCTGAGCCTTCCATTGTAAACAGTAATG
AATTTATTAAACTTCTCTCATTAGGTTCCTTACACAGAGTCTGTGCTAGCCTAGTGGAAGGGCTGCCTTGCTGACTCCCCGATCCTGGCTTCCC
TTCCGGACCAGAGCCTGGAGTTCTGTAGCTTTCTCTTTTACTATTATTATTTTGTTTGTTTGTTTCTGAGAAAGAATCTTAATCTATATTCCAG
GCTGACCTCAAACTTGGTTTTGATGCTCACGGCAGGTGGTGGGACAGGCCAGTGAGGCGTTGCCTGTGATCCACCCACCGGGAGCCCTGTGATG
GGAAGAAGGGATCAGTGGTTGGCTCAGGGCTTCGGAGAGACTTGAGATCCCCTCATGAAGGTGATCCCATGTTGCTTTAGGCAGTCCTACGGAC
TCGCACATCCTGCAGGAGGAGTCGCTGTGAGCATCCCTTAGAGGACATCAAAATAGTGTGCTTTTGGTTTAGCCTTTCCTATGCGGTGGGAGGG
GAAGGGGCGGGAGAGGGAAGGAAGGGCAGAATCTGGGCTCTAGGATCCCTTGTGGTGAGGTTTGGGGAAGGGAATAGGCTTTCGTGGATGCTGC

CCGGTGAGCAGGGTCCTCCTGTCCTGCCCCCCCATCCCGTTAGCATGTGCAAGTGGAGGACTGAGCTCTGAGTGACCCTGGCTTGGAGCTGTGT
TGCAGATTGGGACTGAACTCAATATATGTTGGCATTATGGGTCATACCTTTGTGCTGAGGGCTATCCCTACTATCCCCTACTTTGTGCTGAGGG
CTATCCCTACTATCCCCTACTTTGCTTTTGTCTGAAGTATATAGAAAAAAAACTTAAAAAATTGCCCAAACCCCAAAAGGGACATGGGAGGTAT
CCCCTTAGCAGGTCCTTAGCCAGCTTTGGGGGAGAAAAACCAGTGTCTCAGCCACCCTGGATCCCCTTTTCCTTCCTGTCCGTGGCTTCTGCAA
GGGTCTCTCAGCCTCTAGTGCCATGAGCGGGGCATTGGTCAATGCAGGGTAGAGATCCCGAGGCCAGAATAAAGTGACTCTTGCCAAGGCCTCT
GAGAACAAGTCAAACATCTGATGATGGGAGAGTCTTCTTGATTATCCATGCAAGCCAGTGTCACAGGGTTGAGTCAGAACTATGAAGAAGGGAC
ACGTGGGTCAGAGCCAGAGAAGACACGTGACACGGCAGGACAGGATTTAGTTGGGCTGAGATGACTCTTGAAGCTGAGGACTGGCAGGGAAACA
CAGGAGGTTCTAGAAGGAACCACCACCCCAATCTGTAGTCCTGACCTTGGGGACTGTCAGGGAACGGGTGTGTGCTGTTTTAAGTCACTGCTA
CAGCACTGTCCACAGCCATAGGACAGTGACACAGAATGTTGACCTTCAGAGGAGAAACCCAGGACTCCCGGGATGGGAGTTAGGGATCCTGGGT
TGGATGGCGGGTCACATCATCCCCTTTTCTCCGGACTCAACTTCCTCCCAGCTGTCTCTCTTTCATCAGCATCCTGTCCTTCTCACATGGGAGC
CACACTGCCCCCCCAGTACTTGGGGACACTGGGGTGGAAACCCCAAGGTTGAAAATAGCCCTGTATTATTCTTGGTTAAGTTTCTGCTCTTTCCC
CGAGGCAGCCGGCTGAGAAAGCCACTTCCTTCTGCCAGCCTGCCGTCCATACTGGCATCTGTCTTCTGTCCTGCTGGGCTTTCAGCCACCTGGG
GCTGGCCCAGAGGTGGGCTTCTGTGGAAAGATTTCCCTGTGTTCCTGCCCTGACTGTGGCAGAAGTTTTGGNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNN

GGGGCTCATTGCCATGGGTGCAGAAGGCAGTTTTCCCTCCAGACATTTGGCTGTGAATCTGGTCTGCTATAGCAGCTCCTAGCTCATCTCCTCT
GCTTGG

MOUSE SEQUENCE - mRNA
CCGGAGGCGCGGGCAGCGTGGGAACCGGCGGCAGGATGTGTGACCGGAACGGCGGGCGGCGGCTGCGGCAGTGGCTGATCGAACAGATCGACAG
CAGCATGTACCCGGGGCTGATCTGGGAAAATGATGAGAAGACCATGTTCCGTATCCCCTGGAAGCATGCCGGCAAGCAGGATTACAATCAGGAG
GTGGATGCTTCCATCTTCAAGGCCTGGGCAGTTTTTAAAGGGAAGTTTAAAGAGGGAGACAAAGCTGAACCAGCCACGTGGAAGACGAGGTTAC
GCTGTGCTCTGAACAAGAGCCCAGATTTTGAAGAAGTGACTGACCGGTCCCAGCTGGACATTTCTGAGCCATATAAAGTTTACCGAATTGTCCC
CGAGGAAGAACAAAAATGCAAGCTGGGCGTGGCACCTGCAGGCTGCATGAGCGAAGTTCCTGAGATGGAGTGTGGCCGCTCAGAGATTGAGGAG
CTGATCAAGGAACCTTCTGTGGATGAGTACATGGGTATGACCAAGAGGAGCCCATCCCCACCAGAGGCCTGCAGGAGCCAGATCCTCCCTGACT
GGTGGGTCCAGCAGCCCAGTGCAGGCCTGCCACTGGTGACCGGATATGCCGCCTATGACACACACCATTCAGCTTTCTCCCAGATGGTCATCAG
CTTCTACTACGGGGGCAAGCTGGTGGGCCAGGCCACCACCACCTGCCTTGAAGGCTGCCGTCTCTCCCTGAGCCAGCCGGGGCTGCCTAAGTTG
TATGGGCCGGATGGCCTGGAACCCGTGTGCTTTCCGACGGCCGACACCATCCCCAGTGAGCGGCAGAGGCAGGTGACCCGGAAGCTGTTTGGGC
ACCTGGAACGTGGCGTGCTACTGCACAGCAACCGCAAGGGCGTGTTCGTGAAGCGGCTGTGCCAGGGCCGCGTGTTCTGCAGCGGCAACGCGGT
GGTGTGCAAGGGCAGGCCCAACAAGCTGGAGCGGGACGAGGTGGTGCAGGTCTTTGACACCAACCAGTTCATCCGAGAGCTGCAGCAATTCTAC
GCCACCCAGAGCCGCCTACCTGACAGCAGGGTGGTCCTGTGCTTCGGGGAGGAGTTTCCGGACACTGTGCCCTTGCGCTCCAAACTCATTCTGG
TGCAGGTAGAGCAGCTGTATGCCAGGCAGCTGGTGGAGGAAGCGGGCAAGAGCTGCGGTGCTGGCTCCCTGATGCCAGCCCTGGAGGAGCCCCA
GCCGGACCAGGCTTTCCGCATGTTTCCGGATATCTGTACCTCACACCAGAGACCCTTTTTTAGAGAAAATCAACAGATCACCGTCTAAGCCTCA
GTCCGGGCACCCCACCTCGCCTGAGCTCAAGCTTCAAGAGTCTGTGACTAAGAGAATTCCGAAAGGATGTGGAGCCCTCTGACTGGGGTGGGCG
GGTGTCCTCCAAGGGGCCTCCGGAAGCCCACAGAGGGATGCGCTCCTGCTCAGGCAGGTGTCAGAAGCTTGCAGGGGCTGTGGCCGCAACCTGT
GATTAAAGCATTCCTTTCCTGCGTTTCCCCCTTCACCACTAATGGCTGGCCTTTCTGTGTGCTGAGGTCTTTCGACAGTTCAAATCATCTGGTG
GCAGCAGACTCGCCTTTGCCCTTCTGCGGCCGAGGGCGGAGATTTATGACTTTCTCTGCTTGGTTGGAGAAGAAGAATCTTTACTATTCAGCTT
CTTTTCTTTTTGGCCAGAACTCTGAAAAAAAAAAAAACTCTTTTTAAGACAATATTTGTATTCTCACAGGCTCAGCTGTCAATCACTTGAGACC
TTCCCTGTAAAGTGGGGCAGATTTTAAATATGGGTGTAGATACTGCTTGCAGCCTTCGCAGGAATTTTGGTTGTGGTTCATTGATTCACACAGA
CTCTGTGTCAGCTGACAGGGCTGTGTGGGGCATCAAAGGAGGACCAGGCACTGTGGAGAAGACCCATTCACTGGCATCTCACCCTTCCTTGTCC
AGCTCCATACCCAGTCCTAAGACCCAGTGAAAAGCCACGTCCAAACTGTGCTCTGGGCTCATCAGTGCCCACCCACGTACCAGGGAAAGGCACA
CACCCTACCCAGTGGGCACAGAGCGGAATGTCCCCCTACCGCACCATTTGCGCCCCCAATCTGGCTGTCCAACCTAGTTTGTAAGTAATCTAAA
TCAGTGACTATAGCCCCGCCTAAGGGACACTTCCCGGAGGAGGGAGCCGCTGAAATGGAGTTAGTTTGAGGGTCAGTACACAACAGGGGCAGAA
AGCCAAGCAGATGTGGGGGCAGGGAGAGTCATCATCTGCTTTTGTCTGAGAGAAGGAGAGCTTCTCCGTTTGTTCAACTTTGTAACAAGCTGGG
TTACATGCTCCACGCAGCTAGAGAAGCCTAGGTGCTCTGCATTCCCTGGGGAACTGCAGGAAAGCCTTACCTGCTGACTGTTGCTCTGGGGAAA
AGCCTGAGGGTCCAGAGCAGCTACAAGCTACAGGCCATACCTTACAACCTGAAAAGCTAAGGACCACGGTGACCTTCCCGGCTACTGTGTGAAG
GTGCTGGGTGGGGCCTGCTCAACAGACAGGGTCGACAGAGTGTGTGATACATGCAAACAGAATCCTTGGAGTGTGTGATACATGCAAACAGAAT
CCTGGGCCCCTGCTTCTCCCCCTCAGTCAAAGCAGGAGTGTCCCTTCCGAAGCCAGGACAACCTGTTCACAAGGCCCCTTGTCACATGTCACCT
TCCACCTGCCTCAAGGAGTGCTAGTGTCCAAATATTTATTTTTGTATTCTCTTAAGAAGTATTGATTTCATCCTTTATTAAAAAAAGTTGCTCT
TTCACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

MOUSE SEQUENCE - CODING
ATGTGTGACCGGAACGGCGGGCGGCGGCTGCGGCAGTGGCTGATCGAACAGATCGACAGCAGCATGTACCCGGGGCTGATCTGGGAAAATGATG
AGAAGACCATGTTCCGTATCCCCTGGAAGCATGCCGGCAAGCAGGATTACAATCAGGAGGTGGATGCTTCCATCTTCAAGGCCTGGGCAGTTTT
TAAAGGGAAGTTTAAAGAGGGAGACAAAGCTGAACCAGCCACGTGGAAGACGAGGTTACGCTGTGCTCTGAACAAGAGCCCAGATTTTGAAGAA
GTGACTGACCGGTCCCAGCTGGACATTTCTGAGCCATATAAAGTTTACCGAATTGTCCCCGAGGAAGAACAAAAATGCAAGCTGGGCGTGGCAC
CTGCAGGCTGCATGAGCGAAGTTCCTGAGATGGAGTGTGGCCGCTCAGAGATTGAGGAGCTGATCAAGGAACCTTCTGTGGATGAGTACATGGG
TATGACCAAGAGGAGCCCATCCCCACCAGAGGCCTGCAGGAGCCAGATCCTCCCTGACTGGTGGGTCCAGCAGCCCAGTGCAGGCCTGCCACTG
GTGACCGGATATGCCGCCTATGACACACACCATTCAGCTTTCTCCCAGATGGTCATCAGCTTCTACTACGGGGGCAAGCTGGTGGGCCAGGCCA
CCACCACCTGCCTTGAAGGCTGCCGTCTCTCCCTGAGCCAGCCGGGGCTGCCTAAGTTGTATGGGCCGGATGGCCTGGAACCCGTGTGCTTTCC
GACGGCCGACACCATCCCCAGTGAGCGGCAGAGGCAGGTGACCCGGAAGCTGTTTGGGCACCTGGAACGTGGCGTGCTACTGCACAGCAACCGC
AAGGGCGTGTTCGTGAAGCGGCTGTGCCAGGGCCGCGTGTTCTGCAGCGGCAACGCGGTGGTGTGCAAGGGCAGGCCCAACAAGCTGGAGCGGG
ACGAGGTGGTGCAGGTCTTTGACACCAACCAGTTCATCCGAGAGCTGCAGCAATTCTACGCCACCCAGAGCCGCCTACCTGACAGCAGGGTGGT
CCTGTGCTTCGGGGAGGAGTTTCCGGACACTGTGCCCTTGCGCTCCAAACTCATTCTGGTGCAGGTAGAGCAGCTGTATGCCAGGCAGCTGGTG
GAGGAAGCGGGCAAGAGCTGCGGTGCTGGCTCCCTGATGCCAGCCCTGGAGGAGCCCCAGCCGGACCAGGCTTTCCGCATGTTTCCGGATATCT
GTACCTCACACCAGAGACCCTTTTTTAGAGAAAATCAACAGATCACCGTCTAA

HUMAN SEQUENCE - GENOMIC
ACAGAGGTGTGAATTAGACACCCCTGCTCTGGACTGCGCCTCCACTCCCTGAGCAAAGCAATGCAGAGCAGTGGAAAGAGTCTTGGGTTTGAAG
GCAAGAGGCTCCAGCCCCCCGAGCCTCAGTTTCCCCATCTGTCAAGTGAGGATAACCACGCCTGCCCTGCTCTACTGGGCAGGGCAAAGGAGAT
GATTTAAGAGCAAGTATTTTGTAAAAGAGAAAGCAAGCTGCAACTTTAAGTTGCTACTCCTAGTGCCCCTCAAAGCTGCCTAGCAAATTGATTC
TTCTCCGTAGTTTCCTGCATTGAGTTCTAGAACTCAGTGCTGGGAGTCAAAGGGTCCCTGTTGACTCCTGGGCCTGGGGAACCCACTCTGCCTC
GGAACCCTTCCTTGCATCCTTCCTTTGTAGGCAATCATTTGGTGCATCCCAGCCAACCATGCACTTACAGAGAAAGAAACAGCCAAAAGAAATA
GAGAGAAGGGAATTACGACCTGGGGTGCATTTGACTGCTTCAGTTCCGAAAATACTTACTAAAGACCTATTAGGTGGCAATGAAGTTGACCTCA
AATCACAGAACCTTAAAATTGGAAGGGACTTGGAGATTATGGATTAAGTAGTACACGCTCCTGAAATCACACAGCAACACTGCAATCACCTCTA
ACAGGCGGTCTAGCATGTGTTCCCTTCATGCTTCCAGGGACAGGTGGCTCCCACGTCACCAGGCACCTCATTCCACTTGTAGAAAGATTGTTAA
AGCACAGCCCATTATTAAGTGGACTGAGGTAAGCATGGGGGCAAATTCTGCCCACTGACACACAACTACCATATGCCACCAAAGTCCGAAATGA
AGCCTGCTTACAAATGAAGACAATTACAAAATCATCCGTCTTGTCTCTAAGTGCCAGGGTAAAAATGGACTTCTAGGATTGCATTTAAAAATAT
CTCTAACCACGCTCAAAGTTTGTGATTCTCCTTAGAGGTAAATTATTGTTGTTGTATTGATATTTTATTGTGCTTCTGCCATTTGTTTCTCACA
GATGCACCTGCTGCACATCTGCAAAGGTAAGCTGGAGATGAACATGGGTGAGCGTTCTGGATTATTTGGCACTGCTTGCTAAGCACATAGATTC
ATGATGCACTGAGTCAGAATCCCTGGAGGCTCCTCCTGGGAACCTACATCTTGATAAGTGTCCCACTGTTGCTTATTTATGCTAAAATTTAAAA
ACACTCATCTATATAATATACAATAATATATATTTTGTAATTGTTGACTTTGTAATTGTCTTCATTTGTAAGCAGGCTTGGAGTCCCATAGGTG
AACCCACCTCCCAGGTTTCAGCAATTCTCATGCCTCAACCTCCTGAGCAGCTGGGATTACAGGTGCCTACCACCAAGCCCAGCTAATTTTTGTA
TTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAAGTGATCCACTGCCTCAGCCTCCCAAAGTGCTGG
GATTACAGGCGTGAGTCACCATGCCTGGCCCAGAATTTATATTTTTCACAAACCAGTATTTCCTGGCAATAGCCCTAAATGTTCAGGATATTTT
TGATCTATGCTTAAGAAACCTTTTACTCTTAAGTTTTTTTTTCCTCCCCTGGGACTGTTTCAAGTTCTTCCGTTAGTAATAAATGTGAATAAAA
ATTTATACCTGAAAGGCAAAACGTTATTGAATGCTTAATGAAATTTTTTCCTTTACATTAAATGTTTACATACTTTGCCACTCCTCGGAGGAGG
GTTATGAATTAAATACCTAATACATTACAGCTGCTTAATAAACAGCCAATAAATGAACGCCAATGCATTTAAAAGTAATGAGTTTTAGGATATA

AAAAATAGAAATCTCAGGTTTTTATTTGTAATCCTTCTAGAGTAAAGAAACAGATTGCGGCAATATTAGCAATTCGTAAATCACCATCCAAACC
CACCATGAACAGATAGAGCAAACTGACTCAGTGAAAGAGAAATGACTGGAAGCAAAATGGGGTCAAAGTTCATGTCTTTAGGGCAGATACATTT
TACCCAGTAATATTTCTCTTCCCAAGTCCCCTGAGTCGGTCCCAACTTACTGCCTTTTAGAGATCTCACTTTTATTGTAAGATAGCTTCTTACA
CGAAAACATTTACCACTTGTGCACGTATATATATATATATCTATACATATGCACACACATCCTTTGTATTCAACTGCCTGATAAACTGTAGTCA
TTTGTTCTGTGTTGTGGAGACTGATAAGTGAATCTTTTCCTTATCTGCCAGGGTAAACTGCCAACTTTCAAATACTCTTTGGTTTTCCCAGGTG
AGTCATGCACCTTCCAGTGTCTGTAGCCCCAGGGCTGCTCATGCATGTGACTGGGTCTTAGTTTTTTGACCTAGAGAAGGCATACCAAAGTCTG
CTTGAGCCAACATCTTTGCCAGGTGCCCTCATTGTGTTTATTTTTGTCATATAAACCTTAAGTGGATGGCAGGATTATGTTTCCACATGTGCAC
ACCTGTTTACAGACCACCCACATCAGGTAGGGCAATCCCTCTGAGGGGCCGCAGCAGATTGTGAGGGGCTTCCTGTTTTCATTCCAACCTTCCT
CTGAAACACTGGTGTGTAGTGGCAACGTTGTTCTTAAGCTTGAGCCCCCCGACCAAGTGAAGCATGAGAAAATGCAGCTTACCTTAGTCACAGG
CAGCTAAGCACAGGTAGTTAATGGCAGGTAAATTAGCCACAGGCACCTTTGGAACCAGCAGCAGGTGCGGCAGACCGGACCCTCCTCGGAACGA
GGAGCATGTGCAGAAGAGTTCGCACGGCAGGCTGGGAGTGCTGCCTCCAGGAAGGCCTGTGCTGGGGTTGAACCTTAGCTGTTGTCCGGGAACT
TGGATTTCAGGGGGGTTCCTGCCACCCTAACGGATAAAAGTGCCTCACTGTGTCCAAACTATTTGTGCAAACAGTGTGGTTTATGCTGAACACC
TGCTTTCCTTCTGGGATCTGGAGTTTTTTGGAACACGCCAGGCAGAAGGTGCCTATGTGGCCAGCACCCCCCATAAAAACCCAGGGCTCTGAGT
CTCTAGTGAGCTTCTCTGGTTGACAGCATCTCAAATGTATTGTCGCAACTTGTTGATGGAGGAATTACGTGCGTTGTCTGGGATTCCACTGGAG
AGGACTCTGGAAGCTTGGGCCTGGTTTCCTCCAGACCTCACCCCGTGTATCTTTTCCTTGTGCTGATTTCGCTCTGCATCTTTTTGCTGCAATC
AACGGTAGCTGTGAGCGCAACTATATGGCAAGTCCTGCGGGCCCTCCTCCCGCGGAATCACTGAGCCTGGGGAGTTATTGGGGCCTCAACTCAG
ACAGGTATAAAAATTAATACACCTCCTAGAGCACAGAGATGAGCAATGTTCTTCCAGCTTTCTTTCCTTTTGCCCTCCCTGAGATTTTTTTTTT
TTTTTTGCAATGAGCTTATACCTTGTCTATTTAAGGCATTTTTAATTTAGTGTTGGGATAAGTAGGGGCACTGAAATAGCATAAGATTTCCCC
CTTACCTCAAGAATAATTCAGCAAAATAATTCATAATATAGAGCAGGTACCAAATTATGTTATAAAGATTTCAGTATAGCTGGAGTCCAGTGTT
TTTAAAATGTGGGTCAGTGAAGGCTGGAGTAGGAAGGAGGACAAGATTTAAGGTGGATCTTAAGGATGATGCGGTAGGCAGATTAATGGCCCGC
AGAGAGGTCCAAGTCACAGCCCATGAAACCTGGGATTGTGTTAGGCTACATGGCAAAGGGAAATTCATGTTGTAGATGGAATGAAGGTTGCTAA
TCAGCTGACCTTACAATAGGGAGATGATCCAGGTGGACTCAATATAATTATACGGTCCTTAAACGTGGAAAAGGGTGGTGCACCTGCAGTCCCA
GCTACTCAGGAGGCTGTGGTGGGATGATTGTTTGAGACAGGAGTTCGAGGCTGCAGTCAGGCATGATTGCAGCACTGCACTCCAGCCTGGGAGA
CAGAGCAAGCCCTTGTCTCTTAAAAAAAAGAGGGGGCAGGAGAGAAGGGCAGAGTGATGTGATGTGAGAAAGACTCACTCGCCATTCACAAAGC
CATTGTGGGCTTTGAAGATGGAAGAAAAGGCCGTGAGCCAAGGCAGGCAGCTGGAGAGAAGCTGGAAAGACAAGGAGTGGATTCTCCGCTGCAG
CCTCCAGGAGGAGCCGGCTCTGACGACACCTTCATTTTAGCCCAGTGACACCGTGTTGCACTTCTGACCCGAAGAACTATAAGATTATAAACTT
GCGGCCGGGCACGGTGGCTCTTGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGTTCATGAGGTCAGGAGATCGAGACCATCCTGGC
TAAAACGGTGAAACCCCGTCTCTACTAAAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCGCCTCTAGTCCCAGCTACTCAGGAGGCTGA
GGCAGAAGAATGGCGTGAACCCGGGAGGTGGAGCTTGCAGTGAGCCGAGATTGGGCCACTGCACTTCAGCCTGGGCAACAGAGCGAGACTCTGT
CTCAAAAAGAAAAAAGAAAAAAGAAAAAAAAAAGATTGTAAACTTGTGCTGTTTTAAGCCATTAAGTTTGTGATAATTTGTGACAGCCACCATAG
GAAGTGCATTGAGATTTGTAGTATTTTGCGGGGTGAAGAGGAGGGTGAAAAGGAATGGACAAGCCTGTCAGGTCCCTGGATGGAGATTTAATGA
CGATGCCAAGACTATGGATCCTAGTGAGAATCCTGCATCCCCCATGCCCTACAGCTACCAGGGAGATGAGGCACCTGGGAGAGTTAGTACTCGGC
TGGTGGTTTTGTGCCCTCTGGGCCTAGAAAGTATGTAATGCTGCCATCCCTGTATGCGCAGAAAGATGGTTAATGCAGCCCCACTCAGGGCAGT
TTGGGGGCTTACCTGAATTTCCCCACTGGGAGCCTCTCTCCTGACTTAACCTCAACAGAGGCATCTTCTTCCAAGTGCTGCTTGTAACTCAGCC
CCCAATGCCTGAAGACACACCTTCAGCCTCTCTCCTGACGTTCCCCTGCCTTTCCAGGAGGCCCTGGAGGGAAGGACCCCACACTGGCTCTCTG
CTGAGTGGCCCAGCTCTGGCCTATGGGACACGTGTGCGTTTGCCTTGCCCAGCACACGCTGGGGCTGCCACCATTCCCAGAGCAGTGCAGGCTC
TTGGCGCCACCACCCAAGTGCCCTGTCAATTTCCAGGGCAGGAGTCAGAGCCCCATCTGCAGGTGACTCTGGCTTTCTCAAGACTGAGTTGACA
CCTGTGCTCTCAGCAAACATGTTTCTGAGCACTCTTGAACTCACTTGCTAAGCTTGGCTTGGAAAGTGTGAAGGGAGAGCTGGGGTCCGCAGCT
GGAAAGACTCTCACCTCCTGCCTCTCTCCTGAACCCATTTGATGTCTCTCCTCTGGCCAAGGGGTAAATCTGCACATGTAAGTCTCATACACTT
TGGCTCTTCATGGAATTGGTCCCTGTAGAAGCCGGGCCAGAAAGAATCTAGCACCCTCTTGCACTACAATTTATTGAGCCTTTACTTTGTGTCA
GGCACCGTTCTAAGCAGTTTATATCTAAGATTGGATGGATTTCCACCACTCCTATTCCCATTTCGAGAAAGAGTACCCTTTCCCAAGACAGGAA
AAACAGCCAGGGCCATAAAGGAGGGCCTTTTGTGACATCATCAGAAGTGGAGAAGAGGTACCCAGATCCCATTAGCAAAGTGCAGCCGAAGAGT
CATGCTAAGTTCACTGTGTCCCTTGCGGCATTGCCTTCCTCAGTGCTGGCTGCCATCATACAACCCCATAGCTTGTGTGGCTTAAACAGCAGAC
ATTTATTTTCTCAGTGTTCTGGAGGCTGGAAGTCTGAGATCAGGATGCCAACATGGTCAGGTTTAGGGAGGGCTCCCTTCCTGGCTTGCAGACA
GCTGCTTTCTCACTGTGTCCTCACATGGGCAGAGAGTGAGTGAGAGCAAGCTCTCTGGTGTCCCTAGTCCCTCATCGAAACTTCATTACCCCAC
GAAGGTCCCATCTCCAAATACCATCACGTTGGGGGTTAGGGCTCAACATATGTATTTGGGGGGACATCATCTGGTCCATAGCAGGCACTGTCCG
GGTCAGAAGGCCTCCCAGGGATTTGGTCCTGAGGCTGGCTGTGGAAGGTGCCCTTGCTTCATCACCTCTGCACCTGCTCCACTGTAAGAACTGG
GCAGACAGATTGGCAGCTTAGGCCAAGCAAGATAGATGGTACGGAGGCTCGACAGGAAGGTTTCTGGAGATCAGGAAGATAGGAATTAAGGAAG
GTGAAGAGGAAGAAAAAAGGACTCCATGAAGAGGAGAGGGTCTCTAAAAGCTGGAAACATAAGTGAGGAGGTGAGAACCAGTCTGAAGCACCCA
CCTGTGACCTGGTGGGGGCAGGAAGGTGTTAGAGGAGCTAGGGAGCTGACCAGACGGGAGGAACCCTTCCCATTCTTCATGGAGGCAGATTATC
GCTGGTCTGCAACTGGCATTCTTAGAGTTAGGAATCACTGTGTCCATTTTTCTAGACTTCTCTCATTGGTGATGATTTGACCTTTTCCTCTTGC
ACTAATGAGCAAGGTGGAGGAAAGAGATCTCTCTCTCTCACACATATACTATCTCACTCAATGCCCACCAATCCTAAGAGGCAGGAACAATTGG
GTTACGCCATAGTGAACTGCCCTTCTGTAGGTCAAAATTTAAATGTAGGTGATGTCACAGAGTTTAACCTAGTATTACCATCAATGCCATTATA
CAGATTAGGAGACTGAGGCTTCGGAAGGTTAAGTCATTTGCTCAAGCTCACACATTTGGTGAGTCAGGGAGCTTGGATGTGAACTGGGGCCTAA
CTCCCAAACCTGCTGTGGTAGGCTGCCATCCATGGAAACAGGGGTTCCTGCGGGAATGTGTAAGAGATGAGGTTGGTAAGTATGACTTTTAGAT
GCCAGGAGTTGACCTGTGTGGCTACCAATGGGAAGCCCCTGAAGACAGAAAGGTAGGGTAGCAAAGTAGAATCAACAGGGAAGGGATGAGGAGG
CCGGAGGGTAAGTAGGCCACTGCGAGATCAGGACGAAATTTACTGGGATCGTGAGATGCTGGAAGGAAGGATCAGAGAATCTGGGACCATGCTC
TGCATCTTTTTGCTGCAATAAATGGTATTGCATGAGATACCATTTATTGCCATGTGTCCTCATTGTAGTCATTTTTGTAATTTATATGACAAGA
AAAAATGACAGGGTGATTTTTACATATGTGCATACCTATTTACACACCTTCCAGATCAGGAGTGGTGATCTGAGCTCACTAGATATGCTCAATT
AGGTAATAATCAATTCAGGTCATCAAATTGATCACCCAAATCAATTTAGGAAATTGATGACCTCAATTAAGGCAAATATATACAATGAAATATA
TGCAGCTGTTAGAAAGGGCTAGATCCCATATACTAAAATGGAAAGAAAGCCCTTTGAAACCTAAGAAAACTGTGTTTCCATTATGTGAGCAGAA
ATCTTGTGTACACAGAAAAATGGTCTTTCTTCTTCCCCTCCCCTCCCCTCCCGTCCTCTGAGACGGAGTCTTGCTCTGTTGCCCAGGCTGGAGT
GCGGTGGCGTGATCTCGGCTCACTGCAACTTCCGCCTCCTGGGTTCAAACTATTTTCCTGCCTCCTGAGTAGCTGGGACTACAGGCGTGCGCCA
CCATGCCCAGCTAAGTTCTTTGTATTTTTAGTAGAGACAGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGGACTCCTGACCTCAGGTGATCTG
CCCACCTCGGCCTCCCAAAATGCTGGGATTACAGGCATGAGCCACCGTGCCCAGCCAGAAAAATGGTCTTTCAATTGGAAATGTAATTCCAGAG
AATAAAGAATAGAACCACACTGTAATATGACAAGTAATAACACACACAAGCGCTAAAGGATTTTTTTTTTTTTTTTTTTTTGCCTCCCGATAT
CTGAGGGGCAGGCTCCGTGGAGCCTCCAGGCTGAGAGGCTGAGACTGGCAGAGCAGGCTGGGTTCTGGATTCTGATACTCCTGGGCAGGAGTGT
CTCAAAGATTGAGACATTATGTTCATTCTTTGGGGCTCCTGTTCTTGGCACTATATCTAGCACATAGTAGTTGCCTCATAAATACCCATTAAAT
AAGAGCAGAACTAAACACATCTGGTTAGAAATTGTTCCTAGGCAGCAAGGAACCAACACGTGGAAAATATGGGGTTTCTGGAGCAGTGTTAATG
CAAGCCAGTTCCTGTAATGTACATAGTGACACCTACTGCCAATGACACGTGCTGGAGCCCTTCCACTGTTGATTTCCTATATTCACTTACCCTT
GTCTTTAAGTGGATGTTGGTGGAAACTTGAGGATACATCTTTGTGCAGCAGACAGCATTTGTAAGTAAATCTGTGTAGGCTTAGGGCCACATTG
ATAAAAATATATGAGAGTAAACATATACAGAAGCTGTTTTAAGAACTTCTGATGTCCTAGATGCTCTGATTTCTGGAAGCTCCATCCCACATCG
TAGCAAATATATTAAAACACTCTCATATTCTCTAAATACTCTTAAATAATGTGAGTGTTAAAACAATAGTTTCATTTGAAATTATTTGATGTTG

CGGAACTCACTTTCTAATGACTATGACTTCCCGGCAATCACGGCATTAGGGAATTCATACCAAGTGATGTCTAAGTTATAGTTTCAAAATATAA
TGAAACATTTATCCATCAATACATTACAATTATGAAATTAACATGTTTTGGGGACCTTCATTTAAACATTTATTAATCTCAGATTTGCAGTATA
CTTTTTGTATTGTGCAGTCAATAAAATTTTCAGTCTCAAACATTTTCATAGGTCCCTGAAAAGCTCAACGCAAAAAACAGCCCCCATGTGTGAT
TCTCTACTGGGCAATAAAAGCCAATCGCGACCCTCATTTTCCCCCCATTCCAGGGCTTCCCCAGGATAGAACGCGGAAACGCTTCTTTTTCCGT
TTCCAGGGATTTCTTTCTTTTTCCAGTGTCGTTCTCCCTCTCCCCCACTTCATTTTTACAATAAATGTCAGTGCACACCCAGGAGCGGGTGGTC
CCACAGGGGACATCTTAACGCCCACCCAGGAGCGGCTGGTCCCACAGAGGACCTCTTAACGCTGACGCTTTCTGGAGAAAAGGATTTGTGATGA
AAATTTCCCCAAGGGGACCTTCTAGCGCCTAGCACCTTCGATGCTCCTGTTTCAGTCGCGGTCTCAGCGGGCAGTGGCCTCCTTTGAAGCTGGG
ATTCTCCTGCCCCTCCCGGGCAGCGCAGGCCACCGGTGACCCGGGACGGTCTGTAAACGACCTTCGCGTCCCCGTCCCCGTGGAATAACGCGCG
GCGGGCATCACTGCCCAATATCCAGCGCTCGTGAAGGCGGAGACCGGCGGGGCAGCTAGTTTCTGGTTGTGGATTCTGATTAATGGGCCGCAGG
CGCACGGTCTGCACCGTCCGGCTCGTTGCTAGTGGCTCGCTCGGGAGCCGCCGCACTCCCGGGGCTGTCCGCCCGAGCCGGCCTGGAAGGCAGA
GGACGCCTCCAGGTCGCTCCGCGGGGCCTCCGGAATTCCTGGGAAAGCCCCCCTGCAGCGCCGCCCCTGGACCCCAGGTGTGAGGAGCGGGGCT
CGGCCAGCGGCTCCAGAAGAGGCCCGGACCCCACTGCCGTGGCTGCCGGGGGCGGGAAAGTGATTTCTCGGAAAGCAGAGCACTTCGAAGAAGG
CGGGCCGCGCGAGCCAAGCTGACGCTATTGGTCGGTGTGGCCGTCGCTCTGCGCACCGCCCGTCCCCCCCACGACCCTTTTTAAGGCCGCGCGA
CCGCTGGCGCATCGCCTGGAGCGCGGCAGCAAGCGTGGGAACGCGGGCGGCGAGACGGCGGCAGGACGGCGGCAGGTAGGCACAGTGGGCGGGT
AGGGCGCCCGTGTCCCGCGCGGTCCGGTCCCGCGGGGTCCCCGACGCCAGGCGGGGCGTGGGGGTGGAACTACCTACCGTAATGTCCCCGGGCG
CAGCTCAGTGGCCACCCGTGTCCCTCTCTGCTTTTTGCCTATTTTCCAGCCACCTAAGTCCAATCTGAATGCCCAAGTCGTTGATTGTCGTTTG
CCTGTTTCCAAAGATTGGTAGATAGATGCCTTTTTAAAAATCTCATTTTTCTTTAAATCTGGTTTACATGGAAAACGTTAGGAGAGCTCATATA
ATGAACGGCAATAGCAACCCCCTATCTTGAAACGCGCTCTATCATCCCACTGAAATTCTACCACGTGGAATAATGCTTGGAGGGTCAGAGTTGT
GGAACTGCCCAATAACCAGTCGTTACTGAGGGTTAGTTTGTGAAGGAGGGGACAGACTGCTTCTAAAATTCTGTTTAATGACAGTCAATTAAGA
TTTCTGAGTCTGGCTTGAGGGCCTTTGCTTCCATCACAGCCCAGTCGTCCTTGGCAAGAGAGTCTGTATATGGGCCACAGCTCACAAAAGCATT
GTTTGAAAAAATTTATTGAAAGAACATTGTTTGTAAAATGAGTCCCAATACATAGGACAGACTTTCCTAAGGTGAGATGTGTTACTTACCCAGA
GCTGTGAAAGGCTTTACGGATGGAAACTAGAGACTGAATTTTCCAGAATTTTAAGAAGTCTCCCCAACCAATGGCCCCCCACTTTCTTTTTTTA
AACCAAAGGTAAGAACTGGTAGTTAAAATGACAGTTCAAAGCTTGTCCTTTTGGGTTACGGCAGCTTCCTCTATGAAAAGATTTGGGAGTGATT
CAGTCACTTGAGGAAGGTTGGTGCCAGAGAGAGAAATGGCTTTGGTGCTTTCTGGTCTAGTGATGCGGGTATGCTAGGCCAGAGCGAGTGCCCT
GGGCCCTCCGAGGCGGGGGAGAGGGTGGGGTCTGCTGCTGCCAGCTCAGGTGTGACCTGTAATCTGGATTAGGTGGGCCCAGGGCAACCTCTTA
TCACGTCCCTCCTGGAAAGCCTGACTGCTGTATACATTTCTAGGGCTGCAGATAGGGCTTGGCCAATAGATTACCTCAAAATCAAGAAGAGGAA
GTTATAAACATGTGATTAGACTTATTAATTTTTCCTGGCTGGGCATTTGGTGGAATTCGTTTGTTAATGTTTAATAAATCATTATGGATCATAA
CTGTAGTAGAATCTCAGGCTTTTGATGTTACTTAGAATCTTGGAGGAGACCACGAAGGACACACAGCGTGGCTGCACATGTGCAGAGATCTTG
TAATGTAACTATGGCTTTTCTCTGCACCATGTGTGAAATAAGCTGCCGCTGGCGTTGGGGCGCCGGCCTGGGTTCCAACACAGTCCGCTGGCTG
CCTCGGTATTTGCCGTGCCTCTCTGGGCCTCAGTTTTTCCTCTCTTAAATAAAGAGGGGACTGGATTAGATGATTTCTAAAGTATTTTCCAGCT
TTCAGATGCTATGACTTACTCTTCTCTTTTTCCTTTTAAAATTTCTTTTTCCTGTAAATCACCAAGATAGTTGTCCTGAACAGTTTAGATGTTA
TGAATCCATTAGGAATCCTGATAAGAAAGTGTTGACCCTCTTTCTAGAAAAATGCGTGTACTAACAAAATTTTTGCTTTTGGTTGCAGGAGGCT
CAGGAACTGTGGATTCTAGTTTAAGAAACTTGTAGCAAGGAAATCAGGGGAGTTGAAAGTCTCAGAAGCCAACCCCTATGTTGTGTTCTGGCCA
CCTCTGTGCAGCTCATTCCTCAATCTAGGAGAAATTTTTCTACCTTGCCCCAGGAAAGAGCTGCTAACTTGTTTTCGGGGAGTGTGGGGGGGTC
TTTGGTATTGGTGTTCCATTTCTCTTCTCAGGTACCCTCTCCCAAGTCTGTCCCTTCTTTATGATAAACACAGTGGCCTGCTTTAGAATTCTGG
GTCTCTTGAGATACAGCCTCTCAACTTACAGGTGAGGAAGCCTCAGGGAGAGGTTCAAGTGACGTCACAAGGTCTGGTTAGAGAAAAGCCTTTG
CCAGAGTTCAGAGTTTTCAAACCAAGGTCTAATTTGGGTGGGCGCAGTGGCTCACACCTGTAATCACAGCACTTTAGGAGGCTGATGTGGGAGG
ATCACTTGAGGCCGAGAGTTCAAGACCAGACTGGGCAACATAGCGAGATCCTGTCTCTAAAATGTATATCTGGGTGTGGTGGCATATGTCTGTA
GTTCCAGGTACTCAAGGGGCTGAGGCAGGAAGATCGCTTAAGCCCAGGAGTTCCAGGCTGCCGCGAGCTATGATGGCACCACTGCACTCCTGCC
TGGGTGACAGAGCAAGACCCTGTCTCTAAAGAAAAAAAAATTGAACTCATCCCCTTTTAAATCCATAAACGCACAACTGAGGTTGTTGGATGGG
GAATTTAAGAAATCCCACCTCCTCCCTGGGACCTGGCCCTGTTTCCCGTCTCATGGCCACCTGCAGGGTGGCTGAAGTTTCCAGAATGCGT
ACTTCTTGTGAAGGTTCTGATTGATATTTGCTTTCTGGACCAGTGTGGCTCTACCATATTTTGGGATGTTATGTCTTGTTACTGCTGATTGTT
TCAAACTCGTTTGCCCAAAGAGGTCACATTTTAATCAGAAGAACAAAAATGCTATTTTTTTTTTTTTTTGGGTGGGCGTCTATCCAGCTGTCTT
GGGGATTTCCAGCACTGTTCTTGGAAATGTTGGCTCTAAGTCGATAGGTCATGCTAGTTCTCTCTCTCTTTCTCTGTGCTGTTGGGGAAGCTGT
CTGCTTGGGTGAGAGTGTTCTTCCAAAGGATGTCTTTGGGTGCCCTGGGATGGTTAGGTCCCTAGAGTGGGACATGTTCTGGAAGAGGAGCCCA
GTGAACTTTGCCCTGTTCGGTAGCTGCAGTTTATTTCCTCACTCTTGTCCCTATCTTTCAGTTGGTCGTAGGAGTTGCCCAGGAAGGAAGTTTG
GATAATAATAATGACATCTGGCATGTAAGGTCCAGGCCCTGTCTCAGTTGCTTTCCGTGTAGCATCTGAATTCTCTTACAACCAGTACAGGTAG
TGTTTTGTTAGCTGCATCTGGGACTGGGTAGCTGATGCCCTGAGTTTAAATGCTGATCCAGCGTCTCCCAGCTGAGCGGTGGCGGGACTTGAAT
GAGATCGCGGTTCTGTCTCATTCTCAAACTGCTGCTCTTATCACTGTGAAGGAACAGCTATTTAGATGGGCTGGCCTGAGGGCCTCCTCTTTCC
CAGACGGCACGGACGCAGTATTCTATCAGGGAATGTGGGGCCAGCTGGGCATCTGGTAGCCCAGTTGGTTCTTCGGATAATGGGCTGCTCAGTG
AAGGAACCTGGTGCTGTAAAAGTGATTCCCCCTCTCCTTCCAGTCTTGGGCTAAAACTGGAGCTGTTCACTGTGGTTGTATCTGCCTGAAAGGA
AAGGGCAGATGAAAGCTGGAAGGAGCACAGCCAGCACAGTGGGAGGGGCCTGCAGGGGGCTGCTGGTGGCTGCAGGTGGCTGCAGGTTTCCCAC
GGAGCTTTCAGTTTGCACTCAGGGCTGTGAGGTCATGGAGGCCAGCATTGCCTTCTCATGGCAGGTGTCCCGGAGTCCCTGAATCTGTGGGTTT
CCCCCAAGCCAGCACCTTTGCTGCAAACCTCTGAGTTTCCTGTTAGCAGTTTTTGGGTTGCTGTGATGAATGAGACAATATCCGTAATATCACA
GCGTGTATTTCTGTCTTTCCAAGGATGTGTGACCGGAATGGTGGTCGGCGGCTTCGACAGTGGCTGATCGAGCAGATTGACAGTAGCATGTATC
CAGGACTGATTTGGGAGAATGAGGAGAAGAGCATGTTCCGGATCCCTTGGAAACACGCTGGCAAGCAAGATTATAATCAGGAAGTGGATGCCTC
CATTTTTAAGGTAAAGAGCCCAGCTCCCTTCCCCACTGTGGGCACAGTGTCTCCTTTCCCTCATGGACTAGTGGAGATGTTGAGTGACATCTTT
CTCATTTACTTAAAAATTAATCCAGTTTTTTAAAAGCAAACATTGGTTCAGGAGTGCTGAATGTGTCTCAGACATGTACATGAGCTGATTTCAC
ATCTCTTGAATTACGGAGTCACTTTTGTGGTCGCTTGTATTCTGATGAGGAGATCGAAGGCTCTTTTCTTCTCTTTTCTGCTGCTTCCTTTTCC
TGATGAGCCAAGTGGGAGAAAATACTTCGAGACCTTCACGCTAAGACCTTTCCCCACGGGCTTCCATTAGAGGCGATGCATATACCAGGGAAGG
TTTCAGTCCTTGTTCTTTCAAAGCTGATACTTCTGCCTGGCATTGTAGGGCCAGCTCAGGAGGGTGAGATGCCATCTGTCATTCCTTTGGGGGC
TGGGCCGTGTGGGGGGTTGTGAACCTGCAGCAGATGTCTAAAAATAGTCTCACCTCCCTTGAGAGTAATCGGTTCCCCATGCGTGGAGAGACGT
GATGGAGGGTTTGTTCTGTGCCAGGCCTGGCCCACGGCTTGTTTTCTGCTCACATGATCCTGTGTGGTAGATGCTGTTCCCACCCTCATTCTAT
AGAGGCACTGAGAGGAGAAGTGACTTGTTGAGGTCTCACAGCTCTTGTATGACGGAGCCAGCATTCAGATGCAAGATGGCCCAACTGTGAACCC
TTGGTCCTAACTCCAGAATAGCTGATCAACAGAGATTTCTTGCCATTACACCTAGATTCAGACAGAGGAACCAGGAATTAGGGCAGCCCAGCTC
TGCAGACCAGCTGGGCTATCGAATCCCTTGTGGGTCATCAGAGTCCTGTGTGGGCATCTCTAAGGCTCCAGATGTCCAGGTTTCACCTCTGGGA
GATTCGGAGCCCAAGGTCAAGGTCAAGCTAGACTTCCACGTTTGCCAGTGTGGACACTACACGTAGTCTGAGTCCTAGCCCAGGTTATAAGCCA
TTGCCATGTGTGCTTATTCTCTTGCATTTGGGGGCCAGAGATGGGGAGGGGAGAGTGAGTGTGGGAGAGGGGTGAAAGGGGCTGAGTTGTTGGG
GGCCAGAATCAGACCTGAGACCACAAACAAGGTGTGGAGGGGGTCAAGGCTGTAGGAGCCCATGACAGTGCTGGACTCCCAGCCACAGATGACT
GTCCCCTGACACCAGAGAACAAAAATGACAAAAGATCACACCTTAACCCCAGAGTGGACCATAAATAGGTCAAAGGTAGCTTAAGATGCATTTT
GGTCCTGCACGTCTCTGCCTGACCGATGTTTGCAGTGGGGCTGTGCGTTTCAGTAATTCTGTTAAATCTGCAATTTGAGGTTGCTGATCTTCTT
GAGAATCTGATGCCCATTACTGACCACGCCAAGGAATATGGGGACAAGGGAACGCTTTGCACTCACTTTCGAGGGGTCCCTTGGTGCCCCCACA
CGTTCCAGATTCTTTCTGATCAAGGACCCCAGGTCAGGGAGCCTCAGCACCAAGAAGTTTTGTGATGCCACTGCCTGCCTCCTCACCCTTAGTG

CCATTGTGGATTTCTCTCTTGTTTGATTGCAGATCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCCTTTGGCATCATGGTGAACTTCTCTTGGG
AAGGACTGCAAATGTAAACAGTGCCAGAGTCCCATTCAGTCGGTTGGGAACTCTGCATTATAGATAACCCCAAAAGCCGGAATTTCTCTGCCTC
GCCACTGTTGATGTCTGGGTCTGGGCAATTCTTTGTTGTAAGGGTTCCCTATGCCTTGTGGGATGTTTAGTGGCATCTCTGACCTCTACCCACC
AGATGCCAGTAGCATCCCCTCCCCTACTGTCACAATCAAAAATGTCTTGGACATTGCCAAATATCTCCTGGTGGGGCAGAGTCTTCCCCTCCCC
ATTAAGAACCCTGATAAGAGCTGGCCACTGCCAGGATCAACAGACTTAACCAGAGGTGTTGGGTGCTGAAGGCACAGTTGCAGGTTGGACATCA
GTAAAACATCTTTAAGACATGGCAGAGGGTGCTGGACTAGGCTGTGTAGCCCTGACATGTGGCATGCTGACGGAGACGAAGCTTCTCCCTTCAC
CCCATTCCCTACTTCAACTTGTGCTCGGGGGGTAATGAAATAAAGCCCCAGATTTATACATCTTATGCAATGTTCTTCATGGCCGTTTCAACAG
TGTTGAGAAAAATGTGCAAGATTCCCAATGTTTCCGTTGGTTACGCAGTCGCCTGATGTGGCAATCTGAAATGAGTCTACCATCTCAGCAGGAA
TGGGGCCAGGAGGGAGACGCGGGTGCCCACTGGAGCAGGGAGGCCATCGGGAGGGCCACCAGTGCCGGTGGAGACATGGCGCCAGCAAGAGCCC
ATCATGTGCTTCCCTGAGCTATGCTTCTTCCCATCCATCCTCTGAGAGGCCTGTCTCTGTGACGTTGGCCGGATAGATCTTTGGCTGTTGGATG
AAGTCAACCTCGGTCAGGTAGAGCCATCTTAGGGATTTTCCGGTTATGTAGACACTTGTTTCTTTCAACTGTTCAAAGAAAACCTTTCAACAAT
TTAGGAGTTAAGAAAGAAATTTATGAGTTTGGTTTCTTCCGTAATAAGTGGATGGTAAAAGGGGCCACTTATACCAGAAAATCCCTCATTGTCT
GCAGGCATCATCCTGAGGCCGGCCTCATGGTATAGATCACAGAAGAGAAATTGAAAAAACATTGAGCTCATTTTGTACCGACCCTGAGTACACT
GATGAGGCCCTGATAGCAACTCATTTAATTTTTAAAAAGTACTTTACCTTCTTGACATGACGACAAGGGGGGAAAATCTAGTTAAGTGAGGATT
ATGATTCATGGTTATTCCAGGCATCGTAACAGTCCTGAATGAGTTAAAGCTCACTTAGTAGCACAGATATTTCTCATTCAGCAGGCCTTGAAGG
GAAAAATAGCATTTAATTAAAAAAATGCAACATGAAACAATCATATTAAATTAGGAAGACCTCCTGGTCTTAGTTCAGTGCTGTCAGCCTGAGT
TGTGCGTCAACAGGAGAAATAAGTTATGGTGGAGGCTGAATGAGCCATAGTGACTGTTGCTGGCGGCAGGGGTGGGGGGGCCCTGAAATCACTC
TCATGTCTAGTTTTTGCTCTAGCTCAAGAAGGATCTCGAGAGATCATCAAGCTAAGTTGACCTTTTAATGCTGGCCAGAGAGGCTGGGAGAGGG
CCAGGTGCCTGCTGTGTCACAGAGTTCAGGGCAGGCGGCAAGCCAGGTACCGATGGTGGCCCTGGATGCTTCCTGGCCGTGGGCCCTGCTGTG
ATGGATGATGTGGCCTGGACTTGCTCGTGGGGTGAGTGTGAGCTTGGCGTGAACGAGTGAGTATGGCAGTGCCTTGCAGGCACCGCGGTTGCGT
ATGTGTACCAGCGGATCACAACGTTGCCATGAAATCTGTGCATTTCAAGGCCCGTTTGGGATGTGGGTTAACTCAGTGGTTCTCAGGTGGGGGA
GGTATCATGATTTACCCTCCAGGGAATACTTGGCCATGTTTGGAGACCTTTTTTGGTTGTCACAGCTAGGGGAGGGGTGCTATTGGCATCTGGT
GGGTCAAGGCTAGGGATGCCGCTGAATATTCTACAATCCACAGGACCACCCCGCCACAAAGAAGGGTCCCAGCTGATATGTCAGGCTTGCCACG
GTGGGGAAACCCTGATTTAAAGTAATAAAAATTTGAAACTACAGTTGATTTAGTACATGGTTTGCTGGTTTATTTCTTTAAAAATAAACAACAG
CAACAAAACCCAAATTAATGCCCGGTCAGTGATGCAGTCAATGAAGAGAGCATTAAAGACCGTGTGCTTTAAGAAATAGTTTTAGAGGGGAGTT
TTACATCAATGTCACATGAGGAAACTACCACTTATGCTCACTAATGGGAATGTTCTTCCAGTCTCTTTACCCCAGGTAGAGGTGCAACATTTTG
CATCAACAAAGTAGGCAGCATTGGCCTTGAACAGTAAGCATTCTTGTCTTTTTTGAGAGGAAAAACAGTCTGGGCTATTTTAAAGGAGCTGTGA
CTCATGGGGGCATGATGGAGTTTCTGGAAGTGTGGTCTCCTGGGTAGCTAAATCCAAATCCCTGGAATACTGGCTAAAGACAGCTACCTGGGCC
GGGCGCGGTGGCTCACGCCTGTAAGCCCAGCACTTTGGGAGGCCGAGGCAGGCGGATCACGAGGTCAAGAGATCAAGACCATCCTGGCCAACAT
GGTGAAACCTCGTCTGTACTAAAAATACAAAAATTAGCTGGGTATGGTGGTGCACACCTGTAGTCCCAGCTACTTGGGAGGCTGAGGTAGGAGG
ATTCGCTTGAACCTGGTAGGTGGAGGTTGCAGTGAGCCAGATTGCGCCACTGCATTCCAGACTGGTGACAGAGTGAGACTCCGTCTCAAAAAAA
TAAAAAAACTAAAATAAATAAAAATAAAAATAAAAAAAGACAGCTACCGAGACCCAACCTCCCTTCCCCAGTGAGAATCTTGAGGGGCAAGGC
CCAGGAATCTGCATTTTCACAAGCTTCCCAGGGGCAGGGGGTTGGTATATGCATTAAGCCTGAGAACACTTGCTGTGGTGGGGAAACTGTTGGG
TTGGAAGTGGGTACAGCTGGCATTTAATCCCAGACTGGGTGGCCTTGGGAAAGTTACTTACCTCTTGGAATTGCATTTTCCTGAAGTGGGTACA
GCTGGCATTTAATCCCAGACTGGGTGGCCTTGGGAAAGTTACTTACCTCTTGGAATTGCATTTTCCTGAAGTGGGTACAGCTGGCATTTAATCC
CAGACTGGGTGACCTTGCGAAAGTTACTTACCTCTTGGAATTGCATTTTCCTGAATGGGATCGGGATGTCCCTACAGATCTCCTATCATTTTAG
GCTGGAGGACACTGTCTGATTTTTCCTGAAACCGAAGATAATTCTCATCTGACTGTGGTTACCTCCTAGTTGGTGTGTCTGTATTCCAATTTTG
CAAGCTTAAAATCTGTCCATTCACCTGTCTTATTTTTTTAAAATCTGTACTGCCCCATTCTACATTATGACTTTAAGATTTCAGCTTTGAATTT
CTGGTCCTAGTTCAGATCCTAAGGTTTGGAAAAGTCAGAAAACAGATCTATTAAAAAAAACACACACACATTAAAGGGAAAGTACTTCATTACA
TTTTAAACAGCACCTGGGGGGAAAAGTCTAGAATAAATGCAAAAATGCAAAACAAAATTTCTATTAAAAGTAACAGGGCGATGGATGACCATTT
TGACTTTTTGCAAATGTTCCCTTTTCATGCTAAATTTTAGGGGTTGATCTGAAAAAGCAACAACTTGTTCTTTGTTTTGAACGCTCTGGTGAAA
CCATATGCAACTTCCTCTTTGTGCTGTGTAAACCTCAGGTGTCTCCAGCTCTTCAGCCAGGCAAGGGCTTGGCTAAAAGGTGCACTCCAGGGTT
GGAGGAGCCTTCAGCCTGGGTTCGACTTCTGACTCAGCTGTATGAACCTGGGGGACCCCCTCCCTGGCTTGGGTCTTTCCACATCTGGTCCCCA
GATGTGAAAAGACTCAAGACATCTGATTGGAGTCTCTTTGGGTCCTGAAATTGAATGAGAGTTGATGGCCAACAAAGATTCATGGGAAGGGAAG
GATGTGTGGGGTCCTGGTCATGGTGACGGATATTTGTGATTGGAGTCGGCCATGAATTTAATGTGCTTCTGTTTCTTTCTTCAGGCCTGGGCAG
TTTTTAAAGGGAAGTTTAAAGAAGGGGACAAAGCTGAACCAGCCACTTGGAAGACGAGGTTACGCTGTGCTTTGAATAAGAGCCCAGATTTTGA
GGAAGTGACGGACCGGTCCCAACTGGACATTTCCGAGCCATACAAAGTTTACCGAATTGTTCCTGAGGAAGAGCAAAAATGTAACTATCCTTTA
TGGGCATGAAACCTTCCAGAAGCTGCCCTGGCCTGTAGCCTTCACCACAGAACTTGGGTCTGGGGTAGACACAGGGTCTGGGGCACATAGTTTC
AGTTAAACAAAGCAGTTCTCTCCTTCGTGTAAGCAGAAATTGAGATCTCTTTCCAGTGACCTCAGAGGGAAGGGCGGAGGAGATTGGGTGCTGC
CCAACCTGTGCCCCACTTGCTGCCTGACCACAGACATTTGTAGGGCCTCCCTGGACAGGAACAAGCATCCTCCAGCAGTTTCTGATGAGGAATC
CTTTCATTTTCCAGCAGCTTGCAGAGGAGGCCAGGGGAAAATATGGTGACCACAGAAGGCCTGGATCATGAGGGTTGGGAGTAAAGCTCTCAGA
TGAAGTTGTCAAAGATGGCACCATGGCCTTCGTTGTTGGAGATGGGATATGCCTCAGTGTGTTACTAGATCCTGATTGTTATTTGGGAACTCCG
GGATGTGATCATTCCTGAGGTTTCTTCCAGCTCTCAAATCCCAAGAAAGCATTTGTGACAGATTAAAGCAGGACAGCAAAAACATGCCGCACCC
TGGTCCTACATCACTAAAATAAATCCCAAAGTACTGAGCTGGGATCTGGCCTCAGAAGGCTTCTCAAAGCCCTGTGCTGTGCCGCTGCCATGAA
TTGTAGCTGATTTATGAGATAAAACCTAATTACCAGCGCTGGTTTAGAACATGCTTTTAACACATTGATTTTCTTAGCCACTTGATGAGGCTTT
TAGAATAACCCACTCTGGCTTTCTCCTTCTAAGCTTCTGAGTAGTCCACGAATGCCTGTAAGAAACAGAAACCCCCAAAACTTCTTGGGGCTGT
GCAGAAGTTTGAAGTTTGCACTCTTCCCGCTGTGGGGGTGTTGACTTAGAATTTTTTAAGAAGTTAAAATGGTGATTCAAACAAATCTATAGTG
AATCTGTGTCAGAGAGTTGTGTAATCGTCATGAAGGAGGCAGCATGATGGTAAAGATGGTGGACAGAGAATCCGAGGTGCTGGTGAATGTGGCC
CATGAACGAGAAAGCTGAGCCAAAGCCGATGCCCGACCCGGACAGTACAATTGCGGTTTGGGGCGTTTGTAGCCTAATCGTCTGCAATTAGCAC
CTAACTCTACTGAGCGTGAACCCTAGTCAATACTAAATAGTAAGGCCAACAAACTGACCTTCCCTTGGAGAATCGGGTGCCCTTTAGGAGGAAA
CCTCTATATAATAGTCTGGGGTGACCCTGAAAGGCTAAGCAGTCATCTTTTTGCCTCATTTCCCAGTTTTGGACAATTTTTTTTATCACCAAAA
AGTAAAGTGTGATTTGAAGGAATAGAGAAGTTTCTTTTGGCCCCTACTGCCACCCCCAAGATCAGTCAGGCTTGAACCGGCAGGTGACCCCAAC
TTGTTTATAGCATGGGGTGCAGCCAGCATCACCTGCTAGTGATGTTAAAGAAGCAGCAGGAGGTTCTCAGGGGTGAAGCAATGTAGCATTTGCA
TAATTGCCTACAGGGGCCCACTCGCCTCTAACCTCAGTGGTTTGCAGGCTCCATGGTGGGCGCCCCACCTGCTCCCTACTTCCCCATCAGTAGC
TTCTCAGTGAATTCTTTAATCTATCGAAATGGAATCAAAATTCAGCCGGGAGGAAACAGTGGGTAAATTCTGTAGGTCACTGGGAATAATGAAT
TTTTGTAAGTGTTGGTTGTGATACGTCTCACACTGATAAACTTCATAAGGTAAGTTGTCGACTGAGGAAGCGGCATGAGAAGGGAAAGAGCAGA
GGCTGGCCCAGCGTGCCCCTGTGGACACTGTGCACCTTTAGGCGGTTTGTGATTACGGCTGGTGCCCACTGGGCATCAGTGAGGGTGCTGCGGT
GTGTGTGTGTGCATGGGTGTGTGCACTGATGCACATGTGTATATTTGGAAAGGCCAAAAAGAGATTTCCTGCCAACTGGCAATACAAAAAGAC
CCCAACCTGCCAACACGTTTTGCCAGGAAATCGGTGAGTGTTTTCAAATGCCCTGGCTTATAAATGTAACCTTCTTAAGTTAGCAAATGCTTGC
TGTAAAGTATATCTGATACAGACTCATTTTGGATCTCAGAAAATAGAAGAAAGAGACCAAAGTGCTGTCTTTATCCTTTAAAAGTGTTAGCAGA
AACAACCACCACCACCACCACCACCAACTTCTCTCTTTTGACTTTGCTGATCAGATGACTGAAGCATGGGAAAAAAATTCTGTGCCTTTCCCAA
ACCAATGAAGACACTCACTAACTTAACGTTTCCTTAAACTCAGCATTTACAGAGTAGATTATGGCTTCAGCAAAGGCTGTGATGCCTCCGTGCC
ATGTGTCATGGTGTTTGTCTGGTTTTCTGTAGGCAAACTAGGCGTGGCAACTGCTGGCTGCGTGAATGAAGTTACAGAGATGGAGTGCGGTCGC

TCTGAAATCGACGAGCTGATCAAGGAGGTAAGCAGAGGCAGCATTTCAGGGGTCTGGCCCTGCCAGGAGGAGTCTCATGTCTTCTGGCAGGGAG
GGGCACCGTTCTTGCTGTATGAAGGCAGCCAGACCCTCGGGCTCGCTGAGGAAGTGGCATCTCCACCTGTACAGATCTGGAACGGAAGGACTGG
CTGGGCGCCCCCTCCCCAGGCCAGCTTCTGCCGACAGGTCAACCCCTCACGCCAGATCCCTCCTTCATCCCTAGGGCTGGGCCTGAGCTGCCGG
TTATGTGTCAGTGAAGTTCCTTCCAGCTCCAAACTGTTCGAACACTTTGGACAGCAGTCTTTTAAATGGCATCGTGAATTCCCTTGCCTTCCTA
GCAGGCTACAGAGAACAAAATGTAAACTTTCCTTGCTGCCTGCGCTTGTCATGATGGCGGGTGTTGTTGTACCAGCTCTCATGGCTATTTGATT
GCTTCCTTTTTAATGTGCAGTTTTTATTCCTTAACGGATTGGAAAGCTGGATAACCAAGCATGTTCACATTGCACATAAATTCCTAACAGGCTA
CAAGGGAGAGCATAATCGGGGCCTCCTTAGGCAAGAATACATGGCTTTTGTATACCCATTTCAGCTATTGGGATGCCCTTTTCTTCTGTCTTTG
GCCTCTTAACTATGCTTTTCATGGGTATTACAAGGTGGACATTTGCATGACTAAACCTCGTGCAGCCTTTGCAAAAGGTTGTGTGTGAGTACTG
CATAAATTCTTCTTCTTAATAACATAGCAATAATGGAATCCTTAAGAGTAGCTTGGCTGTCAGAGAATGAAGATAACAGAATGTAACCTACCCG
AACGGCCTTGCTCTTCTGCACAGGCAGCTGCCAAGTGTCTGGGTGGTCTTTGGCAGCCGACTGAGTGAATTCTTGGCTTCGTGGCCCTCCACCA
ATGTCCTGTTTTCTGTAGAAGGCTTTTCTGCTGACTCAGCTGAGAGAGTGAGATAATCGGATTGCCACACCGGGGTCACAAGAAAAGCAATTTC
AAAACATTTCATAATTGGATTTATCAGCCTCCTTTAAGGAATGGGCCAGAGACTGAACATCTGCATGTGGCTCGTTGAGCGAGATTCTTGAAAG
CATGGCAGCCTTTGGCCAGCATCACTGTTCACTGGTGTCTCAGAGCTTGTCTGCGTGTCCAGGGCGTTGAGGGCAATTGGATAACCTGGAACAC
TGGGTCTGCAACAGGCAGGTCCTGGAAAGGGCCAGGAAACTTATTAGTGGCCCCCAAAGAGCCTAGTAATTTGGCCACATGGTTTGAATGCTAA
GCCTGGTAGATTTAAGGCCTAGGGCCTTTCAGGTTGCAAAGTGAAACTTGACTTTTGTCTCCTGAGATAAAGGTGACAATATGGTTTTACTTAC
ACATGAACTGTTCATTTTTACAAACACTGGAGCCCCAGGTGGGAGATCAGTGACTGAGCTGCCCTCCTCTCCCTCCCCTGACTGTGCAGCCTTC
TGTGGACGATTACATGGGGATGATCAAAAGGAGCCCTTCCCCGCCGGAGGCCTGTCGGAGTCAGCTCCTTCCAGACTGGTGGGCGCAGCAGCCC
AGCACAGGTGAGGGTGGGTGGCCTAGAATTGTCACCAGGCATGGCCTGAAGGGTTTACGGCATTCCACCAGCCAGGGACGGAGTGGGGGTGGTT
GTTGCTATCATGATCCATGTCTCATTAAAGGTAGCTCAGCCCTGAGAGGTGAAGAACGATGGCCCTGGTTTCCCAACATGAGGGCAGAGCCCAG
CTGTGCCTTTGGCCCTGCTCTCCGCTGCTTCTCAGGAGGGCACAAGCTGCTTGTTCCCTAGGTGATGTCCATGCCAGCTCTCCCCACGCTCCTG
GGAAAGTCCAGGGAAGAGGGTCTAGTGAACTTGTGTAAGGCCAGAGGGAAGATGCAGCTCTTGGCCACGCTGGCGCCCCCTCCCTGGGTACTCC
CTTAGGTCGGCCAGTCTGTTACGACATTAAGGACCCCCTCAGAACCAAAGAGAGCCCAGGGCATTTGGAGGAGAGGAGAACTCAGACCAGGAAC
AGGAAGTTTGTTCAGAGCCCTAGATTTGAATCCCACGCTGGGAAGTTACAGATCTTGAGCCTCAGTTTATTCATCCGTAAAACAGAGAAACCAG
GACTTGCGCCATGGGGTCACGAGGGTTAAGTGAGGCATTCATCCTTTGATTCTCTTTTGATGAGCCACTCAGAACCCCCAGCTGCTTGAAATGC
CCCGCCCCCGCCAGGCCCAGGCTTCTGCAGCCCGTGAATGTGTTTGCTTCCTCCCTCGGCGTCTTCCCCCTACATCCCCTGTGGGAG
TCTGGGAGGTGGCAGCTGGCCCCGGAGGCCTTGAAGGTTGCCAGGCCTTGGGTGTCGAGTAAGAGGTCCCTGGAAAGGCACCTCTGTCTGTGCT
GCAGGAACACCATCCGGAAAGCTAGCTTGCACCCCCAGGCTCTCCCCCAGAGATAAGCCCTGGGTGGTGGGTATGCAGTCCAGTGGTATTCTGG
GGGCAAGTGCTTGAGGTGGGAAGGAAATGTGGCCCCACAGTGTCACATTGACACATGGTCAGAAATCCCACAGCATAGAGGAAGTCCCCCCGAC
TTGCCACTCTGGTTTTCTGCATTTGTGAAACAATGGCTCTCTGCTCTGGTGGGGAAAAGCACTGAATTCAGCGGAAGCCTGTGCTCCCTGGAGC
CTCTGGCACGCCATGTGCAGCCTTTTAAGGGACTTTTGGAGAAGGAGCGATTGGGGTTACTCCCTGTACACCACACCTGGGTGGCTCTGAGCTT
GCTTTTCTGTTTCTCCTGCAGGCGTGCCGCTGGTGACGGGGTACACCACCTACGACGCGCACCATTCAGGTACGGGGTGGTCCGGGCTGAGAGG
GGCGTGGGCACTGTTTGAAGACAAAGCCCAGATAACCCAAGCAGGGTTGCGGGGTTTCGAGGATGAGCAGGACCTGGTGTGGAAGTCTAGGCCT
GGTTCCAAGGATGAGCAGGACCTGGTGTGGAAGTCTAGGCTCCGTTCCGAGGATGAGCAGGACCTGGTGTGGAAGTCTAGGCCTGGTTCTGAGG
ATGAGCAGGACCTGGTGTGGAAGTCGAGGCTCCGTTCCGAGGATGAGCAGGACCTCGTGTGGAAGTCTAGGCCCGGTTCTGAGGATGAGCAGGA
CCTGGTGTGGAAGTCGAGGCCCCAATTTCTCCTCCTCACCATTTGGTCAGGAGCTGGCGAGTGGCCTCTTTTGAGGCCACTTTTCTTGGACTGG
ACCAGCAAGTAGACAGAGTACTCTTTGAGGCTGTAACTGTGCAGGAGAGACAGTGAGGGACAGGCCAGCGTCTGTCCCAGCGCTGCCTCTCTTT
TGGGGCTGCAGGTGGAGTGATGGAGCCTCTCAGAGCCTCATCTCAGGCTCCCCTGCCCACCACCTCTAGGTGGATGCAGCTGTTCCCATTTCGC
GGGCTCAGGTGGTCACGTACTTGTGTGCTCCAGACTGGGGGCCTCCCCGCGGTGGGCAGAGGTGGCCTTTGTGTGTAGTCTCAGCGGCTAAGGA
CCCTGGCTGCACTTCTGCCAGCTGCCCCTGGAAGTGACGCTCAGGCGTGGTGACGGCATCTTCTGAACAAGGAAGCTGGGGCATCTTCCAGCAT
TGGCTGGTTCTGTGGGAGGCGAGCAGCTGGTCTCATCAGATGGGCCACAGAACGTTAGGGCTGGGCCTCTGGGCAGGGGAGGAAATGGGGCAGG
GATAGAAGCGTGCTGGCTGAGGACTGCATGGGACAGTTTTGTGGGTAGCAGAGGTCGGTGCTCACCCAGGCAGGAAAACTGTCGAGATGGCAAT
GCCCTGTCCATGAAGCTCTTGTCTATTTCCTGGCAGCCCTTTGAGCTGGGGGGTTGTTTTCACTCCGGCTTCACAGATGAGGAGACTGAGGCTG
GGAGGTTCAGGATCTCATCCAGGTCGCGCAGGCCTCTGGCTGGAGCCTGTTCTTGAGGCCTCCTTGTGCCCGGCAGCCGCCATGCTCACAGGGT
CTCAGTTCTGGGAGGCCTGGGTCATGAGGCTAAGCCTCCGGGCTCGCCAGCCACTGGGCTATGGCCTGGGAGTCTGCTGACCAGTGCTTTCCGG
GGGCTGTGGAGTAGCCAGGCACAGAACTGAGCCATCTCGGTGAGATGCAGAGGCACAATTTGGGGAGAGCATGTCCTTGAATTAGTCCAGCAGG
GTCATAGCCACTGCCTCATGCACAGAACATCCTTCTAGAAGCTGTGAGCTTTGGTACCTCTGTCCAGCCCCGCCCCCACCTCTATGTAAATCCA
TGCTTCAGTTTCCTTACCTGGAAAATGGGTATAATAATAATCTACCTTACAGGGTTAAATGTGCTGGTAGGTCCCAAGCCCTGGGCACAGCACC
TGATATGAGCTGTGTAGACCATAGTCTGTGGTTTATAACTTCAGGAGTCTTGTCTGTGTAGATAAGCATTTGTCCTGTTACCCAGTTTCTTTAA
CTGGTGCTTACCTGTGCCGAGCACAAATACAAGCTCCGATAATCCTCACAGCAGCCCAGTGAGGTGGATGCTGTTTTTATCTCTACTTTGCTGA
TGAAAAGCTGAGGCACAGAGTGGGGAAGCGGCTTGCCCCAGGTCATCCAGCTGGGCAGCAGCTGGGCTGGGACCGCACGTCAGGCAGGTGGGCT
GCAGGGTCTGTGCTGCGGGTGTCTTTGTTGCTGCCTCTGTGGTCAGGCCGTTCCCCAGCAAGGCTGTTCTTGTGGGTGAGTGGCTCTATAAGGG
CAGGGCTGGGTCGCAGCAGGCCCTTACTGTTGCAGAAGGCTCACCTGCCTCACCTTGGCAGCCCTTGGTGAGCTGCTTCTCACCTGTCAGGTAC
AAGCCTGACAGCTGGAACCTTCTCTTAGCATAAGACGTTCTGGGGTGTGTGGTCACTAAGACACTCCTGCTTAGGCGTCTCTGAAGCACTTAGC
TGTTCCGGGTGAAGCTGCCAGTTCACATGACTGAGAGGTGCTGGTACCAAGATAAGGCCCCGGAAATGACAGGGCAAAGGGCCAAAGGGGTGAC
GGAGTTGCCTGAAGCGTTTCATTCATTTGGAACAAAGTTCGAAAGTTGCTTCAGGGTAAAGGGAGGGGAGTGTGTGGAGTCCGCAGGCAGTGCA
GAAGTTGCAGACTTGGCGTGGGGGGAAGATGATGAGTGAGGAAGAGCGAGACCAGCGGGGAAGATGGTGAGCAGGGAAGAGCGAGACCAGTGCT
GCCATTTCCTTCTGGGTGACCCTATCTAGGATTCAGTTTCCTGAAGTGTCAAATCAATGAGGTGGACCAGAGCTTCTGCAGCTCTAGCTTCCTA
CCCTGCATGATTCTAGAACCTGCGTAACTCCAGCATGGCTGGAAATGGAGCCCGTGAATGGTGGGTTGTCAAATAATAAGGCAGGGAGCAGAGC
CCAATGGGAGGGTCCAAGGAGTTCTGAGTGCCCAGCAGTGTCAGCAGGGAATGCAGATGGACTCAGGGCCTCCCCAGATGTGGTCAGCCTTGCA
CAACTCTAGGGGGCGCCGTGGAGTTAGGCACCTCACAACTTGTGTGGCTCCACAAGGCAGCCTCGAACCGGTCTGGGGTACTTAGAAGGAGCTG
CAAACTCACTAAGCTCATTGCTAGCGTATGTAATTCTTTTGGTTTAAGGCAATTAAAATGCAGATACCTCCCTGCATTTACATGTTATCTGCAT
TCCTACCTTAGATTAGTGTTTTCCAAACTTTGGTCACTTGAGGTCCAGTGTCACAATTGGTTTTCACAGCCTGGACTGTTACTAACATCATGTT
TTTCCTCAAATCTTAATCTTAAAATAAAACTTAAGTTTATTTTAAATGAGAACCCACTATCATTGGCTGTAAAGGAAGACCTGTGGCACCTGGT
ATAAGTAGGTAATACTGTCTGGCTAGAATTGATTAAGATTGTATTTGTCTTTCATTGAATTTGTCTTGACCTCTGACAATGCCCTGAATTTGGA
GCCCTAAGTTCAGTGCCATTATTCAAAAGGGAGGTTGACAGGTGTTAGGTGTTAGAGAGCTATCAGCACCAAACTGAGGCTTGCTTTTTGAGGT
AATCAGAGGTTGGAAGAATATTGAAGATGGAATAATCTTGTGATTACATGTATCACCCCTCCCCCATTATTCTGTGTGTGCCACTTTTGGGGAA
CCCCTGCTTTAGTTTGAGTGTTTTTCAGACTCTTTCCTGAGAACAGATTTGGATGAAGGGTTTTGCAGAGATTCTTAATCTGAAATCCAGGAAA
TACCAAGGGCGCTGTGAATTTGTTGAGAAAAAGATTATGTCTTTATTTTCTTTAACTTCAGGTTTAAATTGAGCATTTCCTTTTGTTATGAATG
TAGGCAGCAGACCGCAGTGCCCTTGGCAGTGCCTATGAGACGGAGTATTGTCATAAGAAATGAGTTGTCGAAACATCGTTTGCCCTCAGCTTGA
CGTGTAAATTACAACAGTTACCAGACCTTCTCTAGACCTTGTATTTAAAGAGTCAGTGAAGAAGTACAGAGAACACTGTTGTAGTTAATATGTT
CAGTCATTGGTTTCCTTAGTCATTCTGTGTATTTATTCATGCATATAAAAACATTACTTCTACAAGCAGTACATGGATTTCCCCAGAATATCAA
AGTGGTTCAAGACACACAAAGAGTTACCCGTGTAGGTGTGAGACAGACTGTGCACTTGGGCAGGAGGGACCCTGTATGTCTCCCCGCAGCACCG
TCATCGTGTCCCTCTTGTCCACAGCATTCTCCCAGATGGTGATCAGCTTCTACTATGGGGGCAAGCTGGTGGGCCAGGCCACCACCACCTGCCC

CGAGGGCTGCCGCCTGTCCCTGAGCCAGCCTGGGCTGCCCGGCACCAAGCTGTATGGGCCCGAGGGCCTGGAGCTGGTGCGCTTCCCGCCGGCC
GACGCCATCCCCAGCGAGCGACAGAGGCAGGTGACGCGGAAGCTGTTCGGGCACCTGGAGCGCGGGGTGCTGCTGCACAGCAGCCGGCAGGGCG
TGTTCGTCAAGCGGCTGTGCCAGGGCCGCGTGTTCTGCAGCGGCAACGCCGTGGTGTGCAAAGGCAGGCCCAACAAGCTGGAGCGTGATGAGGT
GGTCCAGGTCTTCGACACCAGCCAGTTCTTCCGAGGTCTGTACCGTCGTCACCTTGCTGCCCCCACATCTTAGAGATCACGCCTCCTATCTGTG
TGCCATTTGCAGCTCAGGGTGGCCCTGTGGTCTCATGGAGGGATGTGGAGGAGGAGTGAGGGGCATGGTGTGGCAAGGAGGTGCTCCTTTGAAT
GGCACTCTGCCCTCTCCACTGAGCGATCCTGGGGTGCTTCTCTGTGCCTCAACTTCCCCATGTGTACAGTGGGGGTGCAGAATCAGTACCCTCA
TCAGGTGATTGTCGGGAGGGTAAAGGAACTTAACCTCATGTACCTTGGAGTATGTTCCAAGGATGGTCCCTGAGCGCTGGCTAGAGACACAGAG
TCTGAGGCCCTGCTCCAGCCACAAGATCCGAACCTGCATCTTAGCAAGGTCCCTGGGGATCTGTGTACAGGTTTTGAGACACGCTGACTTTCCG
CACACTAAGTGCTCAGGATGGCAGCTGCACACACTAAGTGCTGCCTGTTAGCTTTCGTTACGCTGTAGGGAGGATGTGTAGGATACCAGCCTGG
GTGTCTCCTGGAGGGTTAGGATGGCGTCTCCCTTCTCCACGTCCCCATGCTCTCTGCTCCTCTCCCTGTAGCAGCACAGCCCGAGATAGTGTCA
GGTCTCAGCTGCCACTGGCCTGAGAACTGCCAGAGGAGGGGCCTGGAAGGGCGGGTGCAAGGGTATGTGTGAGCTCAGGGGCATAAGCCCTGAG
GAATCCCCCTAGTGAGGAGGTGTGAGGCCGCGGTTATCACCCCTGAGCAGGCAGAGCGGCACAGAAGTGCGTCCTGCAATGTACATTCCCGGGC
CTACCTCACATCCTCTGATTCCATGGGTCTGAGGCGGGGCCCAAGATTCTACATTTCTAATGAGCTCCCAGGGAAGGCGACTGCTGCCGGTCCA
CCGGCCCACTTTGAGACCCTTTCAGTTGGCTGTCAGAGATTCGGGTGAGGGCTGCAGCCCTCCCTGGGTGTCCTCAGGTCGGGGTTGCCAACTC
AGTTGCCTCCAAGGGCCAGGCAGGTAAGAGCAATGCACGAATTGAGAGATAAGAGAGAGCACTGGGCAGCTGTGCCCATGGAGAGGCGTTCAAA
CGAGGCATTAAAATCCCGGCAACAACCTGGAATGGCCAAACGAACAGCTCCTTGCTTGGAATTTGGCCCAAGGGCCACCAGTTTGAGATCCCAT
GGTGCCCTGGCCTAAATGCTACAAGCCCTGGGCCTCCTGATCCCCCAGCCCTGCTGCTGCGGGAGTTGGAGGTCATCTCGGCCTTGCTTGCAAA
CACCCTCTGCCTGTGTCATTCCAGAGCTGCAGCAGTTCTATAACAGCCAGGGCCGGCTTCCTGACGGCAGGGTGGTGCTGTGCTTTGGGGAAGA
GTTTCCGGATATGGCCCCCTTGCGCTCCAAACTCATTCTCGTGCAGGTAAGTATGGGCAGCTTTTTTTTTTTTTTTTTTTTTGAGATGGAG
TCTTGCTCTGTTGCCCAGGCTGGTGTGCAATGGCGTGACCTTGGCTCACTGCAACCTCCGCCTCCCGGGTTCAAGTGATTCTCCTGCCTCAGCC
TCCCGAGTTGCTGGGACTACAGGCCCGTGCCACCACGCTCAGCTAATTTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGAT
GGTCTTGATCTTGTGATCCTCCCAGCTTGGCCTCCCAAAGTACTGGGATTACAGGCGTGAGCCACCTCGCCCGGCAGTCTGGGCAGCTTTGAGC
CCTGCATCCAGGTCTCCTGGCCCTGTCATGTAAGGATCAAGTTTTGGGCTGGAGAAGAGGACACAAGGACAAGTTTCCACCTGTGTAGGAGGCA
GGCCTGGGCAAGACCTTCAATATGCGGGAAGCGGATTCTTGCCATCTCCGAGCCATCTTCTGGTGTCTGGGACGCGCACAGTCTGTGTGTGTGT
GTTTTCTTTTTTCTTTTTTGGTTTTAAATCTAAGCCTCTTCTCCAGAAAGATTCTACCTGTTCAGTTGCCCGAAGGTCTAAGTGACAGATTAG
GGCATTGCCAGCCCTTATTTCATGTAGTCAAGGGAATGAATCTCTAATGGTGGGATCCTGGGTGCTGGCTGTCCCAGCTGGGACAGTACTGGGG
AGTATGGAACAGTTTTGGCAGGAGTACTGCTTGCCCTTCCTTGGCATTCTGGCTCATTCACTTGGGACTCACGTGGCACTGGGGTCATCAGAGG
ACCTGGCTAGGGTCAAAGACAGTGCCCACCCCCTTTGGAGCCTCCGCCTCTGCCTCTGACTTTCTGCACCTCCCATCTAGATTGAGCAGCTGTA
TGTCCGGCAACTGGCAGAAGAGGCTGGGAAGAGCTGTGGAGCCGGCTCTGTGATGCAGGCCCCCGAGGAGCCGCCGCCAGACCAGGTCTTCCGG
ATGTTTCCAGATATTTGTGCCTCACACCAGAGATCATTTTTCAGAGAAAACCAACAGATCACCGTCTAAGTGCGTCGCTTGGGCGCCCCACCCC
GTCTGCGTCCTGCATCCATCTCCCTGTTACAGTGGCCCGCATCATGATTAAAGAATGTGGATCCCTCTGTCTGGGGTGGGATGCCTTACTTTGC
ACTTAATTTAATAAGGGCATTCTCGGAGGAGTAGACGTTTAATACGAAGTGGCGGCATAGCCCTGCCGAGATGTCGGTGATGGCCTGGATGCTG
TAACCACAACCTGTGGCTAAAAATTTTATTTTCTATCCTTTACCCGTCATTATCATTAGTTGCTATGATTCTTTCTGCATTTTCGGTTAACTAT
CATTTCCAAAGACTTGTCATTCAGTAATATTAGCAGATAGCTGCTTCGATAAAGGAATTTGGAGTTTAAAAATCAACTTGTGAAAACAAGGTTG
TTTTTGTCTTTATCTTTTGTTAGAGTTATAGATTTATGATTTCATAGGCTTGATTCTATGTGAAATATCTTTTTACTTTTATGCATTTTAATAA
GATTTAAAAATATTTAGATTAAAGCCCCCTTTAATGAGTACAAGAAAAACTCTTGGCTTGTTAGAAGAAAGTATATTCTTTCTAGAATTTGGTG
CAGGAATATGTGTTCATATCCAGGCAAACGGGTGTGTTTTTATCTTCAGACAATGAAACCTTCTCCTCTGGGGCTTTGTTGCCAGGAAGATTAG
AACTAAATTTATTTTTTTCATTTCTGTCATGAAATCATTCCAGATACCTCTTTTCTTCTTTCCAAATGGTTTTCACATGTGTTTGAAATATTTG
TACTTTGAATTGTCGGATTTTCCATGTCCTCCTTTCTCCTTTGTGCCCAGCCTGAGTCAGCACCATCCCGCATTCAGAACCTCCCAGTGAAAGG
GCAGCCTTCATTTTGAGAAGGTGGAAGGTGTTAGGGTTTGGGAGACAGCTCATCCAATCTCCCAAGTCTCATGGTGGATTTGTGACTGTGAGAG
TTTCCGGTTTAAAATCTGAAAAGCCAGATATGCCTGTTTCCTTTTCCCAGCACCATGCCTGTGGAGGGGACAGTCAGACCCAGAGGTCCTTTAC
GTGTGGATGGAGTTCACAGGCGAATAGAGGAGAGGACCAGGGGACGTGGCTTGTCCCTTTTGTCCAACAAAGCATTATATTTTTAAGAATGGCA
GACCTGTTTGCTGAAGTGTTCATAAGATAACAATAGGCTTGAATCTCCAATTCAAATGAATGTCAAAGCACATATCTTTAATATGCTGAATGAA
TATTTATTTTTGTATCCATTAAAACAGTATATTGATCTCTTTTATTCTTTATTAAAATAAAATGCTCTTTTTTAAAGCTGCTGTGTACTGTATT
TTTTTAGTCACTGTCAAATATGATGTAATTCTCACCAGATTCTAGGTTCTGTAAAGGGGGAGTTACTGCTGCAATGTGCAGTGTTAATTCAGTG
CACTGGACTGAAACAATATCGCACTGGGATTTTAAGGATTTTTTTTTTTTTTTTGAGACAAAGTCTTGCTCTGTCACCCAGGCTGAAGGGCAGTA
GTACGATCTCGGCTCCCTGCAACTTCCACCTCCCAGGTTCAAGCGATTCTCGTGCTTCAGCCTCCCAAGTAGCTGGGATTACAGGCATACGCTA
CCACATCTGCCTAATTTTTTTTTTAAAATTAGAGTTGTGATTTCACCATGTTGCCCAGGCTGGTATCGAACTTTTGGCCTCATGTGCTCTGCCC
CAACCTCTCCCCCAGCCTCCCAAAGTGCTGGGTTTACAGGTGTGAGCCACCTCACCCAACTCCTGTTTTAAGGATTTTTCTTTTTTCAACCTATC
CCTTAAACAACAGCAAAAAGATACGGAGACTTAGACTGATCCTATGGAATGAAAACATTGGAGAATGTTTTTATTCCGAATGGGGGGCTGTTTG
GGTTTCTGTGAGCTGACAGATGAGTGTGCGGAAGGGTGTGGAGGAAGTGGGGTCTTGTGCTGATTTCATCCTCCTGGATGCAGCTGGGGTGATT
TGTACGAGGCGTCCCTGGTTGGGTCAGCCACACGTGGCTGGAGTGTGTGTCCTATTTACGCACATCTCGCTGTGCTAGGCCCTCAGGATACAGC
AAGGACATGAGGGACCCAGGTTGGCAGTCACAGAGATGACTTCCAGCCTAGTAGGACATTCCCATCCATCAACACAACAAAACCCATCAATTCT
GGGAGGTGCAGGGCTGGCCAACCCAGGTGGAGAGAAGTTCCCCAGCAAGCTTCATCCGCAAGGCCATGTCTGTTCTCTCCTCTGCCCTCATACG
AGCCCAGTGAGACTGGGCCTGTTCTTCATTTCTAGCTTACAGATGAGGAAACTGAGGCACAGGCTCATGCGTGGCTGACTGAGAGGCCATCTATG
TCCCAGGAGGACAGCTTCGCCTGAGAGGCTTCATGAGCAGATCTCGCTGCCATCCTTGAGCTGGTGGGCTTCCTAACACCCCACGCAAGAGGTC
AGCAGCTGGGTGCGTCGCTCACTGTCTTAGGCATCTTTGCCATGAGTCACACTAATGTCCGCACGCTGCAAGTAGGAATTTTGTTTACAAGCAA
GCTCTTCTCCATCCTGTGGATTCAAGGCCAAATGTGGAAAGTTGATATCGTCTGTTGTCTCCCCAGAGTTCAACGCTCTCGTGCAGACGGTCGA
CAAATCCTTCCTACTCAACTTCTTGCAGCAAGCTCGGGGAGAGGCGGGAGAGGGGAGTGTTTTCATTTGCAGAGGAGGAAATTTGGGAACAGGA
TGCTTCTTTAAGAAGTCGGGTTTCTAGAGAATGCTGTGAGGGCCCTGGATGTGAACTGACTTTTGAGATGCTGACCCCACACTGGCCAGTTAGC
TCTGGGCCCTGGAGGGAAGCTGGTGGGGATGGGCTGACGGGACATCCTGAAAAACAAGCCATCTCCACTCTTGGTAGTTTAAAAATGTTTTAAG
AAGTTAAGGTATTTCAACAATTCCTTTCTGAGTGATTGCCACTTAGTTCATTAACTTTTGCAAAATCCCACTTTGGGAGGCCAAGACAGGTGGG
TCACTTGAGGTCTGGAGTTCGAAACCAGCCTGGCCAACATGATGAAGCTCTGTCTCTACTAAAAACAAAAACAAAAACAAAACACAAAAATTAG
CCAGGTGTGGTGGCAGGCACCTGTAATCCCAGCTACTTGGGAGGTTGAGACAAGAATCACTTGAACCCAGTGGGGTGGAGGTTGCAGTGAGCCG
AGATCACACCACTGCACTCCAGCCTGGGTGACAGAGTGAGACTCTGTCTCAGAAAAAATGTGCAAAATCCATCTGGGACACAACATTTTTGCTT
GCCCTCGTAATGTCCAGAAGGCTGGAGATGATGACCCCTGGGTCCAAGCATCCTCAGGATCCGGTGGGTCCTAGAAATCCTGGGAAAATCTTCC
TGAAAGGGCTTCACCGGGCAGCCACCCATGCCTGCCACAGGGACACTTTCTCTCCATAAAGAAGCAGCTGTGGGAATCAGGAAGAAATGACTCC
TGTGCATGATTCAGACTCTCCATAATAGAAAGTTTTGCAACCCAATGACTCGGAAATGTTTAGAAATTCTAAAGAATAATCTATAATTAATGAC
TGTAATTTTAACAACCCAGTGGGCTGAGAGTGGGGTGTGGCAGTTTCTCAGTGGAAAATCTGGCTGCTTTTACTACAAGTAGGAGGAGAATGAC
AAATATCCTGGCCCCAGGGCACACCTGATCTCAGGCTTTCTCTTCAAGCACACCGTTCATTAATCTGTTAAAAGGCCTAGCTCATGGTAAGAAG
CCCATTTAAACCAGCATTTCCCAAACTTATTTGACTTGACGTTTTGCCTTGCAGCGTGTCTGTGGATGAGAGGTGCCCACAAGCGTTCAGTCTT
TTATCACAATCCGACTGGAACATCTTAGGAGTTGAGAAGAGTGTGTACATTATTTCTTTCCTATTTTCTTTGGGCTACCTTTCAGTCTGGATGG
AGTCTGCCAGGGATGGGGATGGCTTCAGTCTCCTCTTTATATGTAACTAACTATTCCTAAACTTAGTGGTATAAAAAACGCTTTATTTTGTGGG

TCAAAATTTAGACAGGGTACAGTGGTGTTGGCTTTTCTCTGCTCTGCAATGTCTGGAATGTTAGCTGGGAACAGCTGAGAGTGACTTGAAGTCC
TGCAGATAGAACCACCTGGAAGCTTTTTCATTCACATGTCTGGTGCTTGGGCTGGAAGGAGGTGAGGCTGGGCACAGTTGGGATACCGATGAGA
ATATTGACTTTGGCCTCTCTATGGAGTTTGGGCTTCCTCACAATATGGCAGCGTCAGGGCAGTCCCGTGGACACAGGGGAAGCTGAATGGCTGT
TTGTGACCCAGCCATCACTCAACTGGACAAACAAGCCCTCCTAGGTTCAAGAGGAATGGACAGAAACACCACCTCTTGAGGAAGAAGTGTCCAG
GAATTTGCAGCCATGCTTTCAACCTGCCACGGGAGCCCCGAAGCCTCTCCTTTGCTGCAATCCCACCTGCCTTTTATCCCCCTGACCTCTCCTT
GGGCATCCTGATTCCTTTCTGACCCTATTCCTTGAGTCCCAGGCAGATGGGCCTTTTCCTCACTTTGTCTTGGGAGTATGGCAGTGGACTCTGC
CTACTTCATAATGGAGCCTTTTTCTTGTCCATTTTGATGACCTCTCAGAGCAGGGCTCTGACACGTTACTGGGTTACAAAGACCCCTCCCTGCC
AGGGCCAGCGTGCAGCACAGGGTGCTTTTGAGTTCCGGTGAACGGGGTGCTCTGGCTGGAGCCTAGTGCGAAGTTTCCCCTTCTCCGCCCATTC
CTCATCCCTCAGGGCACACAGGTCACCTTTCCTCGCCTTCTCGTCCCCACCTCTAAGGCTTGGCCAAAGTTTCTTCATAAAAGCAAGAAAGATA
ACGAAAGAGCCCCCCATGGGTTATGGTTTTTGTGGGGCCAGGAATGCCCAGTTTGAACCTCCAGTTCCGCCACCTGTAGCCGAGTGAAAGAGGC
TGGGTTATTCAGACACCCCAAGCCTCAGTTTCCCCACTTGTTGTGAGGCTTGAGTGTGCTAACACATCAAGGCAACCCAGAACAGCGCTTGGCA
GAGACTCGCAGTTTATCACTGTGAACTGTCGTTATTGGAAAGTGGGTGGAGTCGGGTTTGGATTCCCCCAGGAGCAGAGACAGAAACAAAAGGA
TTCAAGGTAAGCGGCCTGTATGGGAGGTGATCTCAGAAGTGCTGGGAGGGGAAGGGGACCTGTGGCTTTAATGGTGACCCTGTGCTACTGGAGG
CCTGGGATCTCTGAGGAATGCTGAGGCCCAAGCCCTGCAGAGCCAGCCCCGGGTTGTTAATTACTTGGCACTTTCCTCTTGCCTTATGTGCAGG
GGTGGGCTCAGGCGACTGAAGTCTCAGACACTGCTGCAGGTGCTGGCAGGGGAGTCACAGCTGCATAAACTGGAATGGGGCAGGTGGGGTGGG
GCGGGTAAGGGGTTGTGTTTGCTTCGGAGAGGGTTTGTCAGCACTTTGAAGGAAAATTTGTGTAGTGGCCGGAACCACAGATGACCCAGGGTTT
GTGTTCCAGCCCAGGGATCATTAGCTGTGTGCGTCACTTAAACTTTCTGTTCCTCAGTTTCTTCATCTGTAAAAAAGGGGCAATAATGTTACCT
ATTGGGAGGATTAAATGACTTAATAAGTATGAGGGGCTTAGAACAGTGCCTGGCACGCAGTACATACTAAGAAAGTGGATTTGCACATATCATT
AATGCCTCCCTCCCTTTCTTTCTTTCTTGTTTATTTATTATTAAATAGTTATAAGTATAAATAATTACAATAATTTATGTCAACGAACTATAGT
GTCAACAATAACTATAGGTAATTATTTAATAATTAGTAATTATAAAATAATTGATACTAAATTAACTATAGAATTATATAGTGCCAGAGTTGTT
TGGCTATCTTTAATTATACATGTAGTTATTTAATTTCACAAATAGTTATATGAATTATGGAAGTGAAGGTACGATGGTATAACTATACAATTAT
TAGATAACTTATCATAGTGGTATACATATTTATCATGCAGTTATTAAATAATTACAATGGAATGACTTATTCGCTCTCTGCGTTTGTGCAAGGG
CAAGGATGGCCACGTCCCAGCTCTATCCAGCCCCTGGCCCAGTGCCTGGGGTTCGGTGGCGCTCAGTTCACGCTTGCAGAGCGAGCGGCGGTGA
GTGGATGCGGTGGGGTCGGGCTGTGGTGGTAAAGGTGGCCGTGAACAGGAGGGGCCACTAGAGCACACAGACGTGAATGACATGGGGCTCCAGG
AGGGGCAGGAAGAGCTACAGAAACAGCATCCCCAAAGCTGCCTGGCACGGAAGAGGTGCTGCAGAAATGGGACTTCCCTTCCCATCCTCTTCTC
CTGATAAACAACTGAAAACATAAGAGCGAGATCTTGGGGCTTCTGTGAGGTTAAATGAACGAACAAAAGTCTTACAGCGGAAATCACTGAGAAT
CTCCCCTCCCCTGTCTTCCAAGGAGAACATGATTGTGAGCCTGCTCCTCCCTTCCTGGGGGGGTTGCTTCCTGCTGGGGAGAGGCTAAGTTGAA
CTCTAGGATCAAGAAAGGGAAGGAGGCAGAGAAAGGTGAGAAAGGTGAGAAAGATGAGAAGGTGCTCGCATGGAGCGTCCGGGCAGTACCAGGC
TGGCCCGAAGGAGGTGCGGATGAGGGGGAAAGGCTGTTTACAGATGTGGTGGCTTCTCCGTGTGCATTCACCTCCTGGGTCTCAACTCGTGCAG
ATGGAGGGTCTGAGTTAATCTGAGGTTACATTTGTTTGCTCAGCTATGCTTTTTCAAGAGGCCATTCCTCTGAGACTGAGCCCCATGGCTCCTG
GCTTTACATGAGTTACACGCATCTTCTTCTCCTTTTTTCTAAATAGTAAGGGGCAGAGAGAGTTAGAAATAAAAAGGAAAGCTGAAAACAAAAA
CCTCTCAGAAGAGACTCTGGCTGTTTTTTGTTTTTTTTTAATTTTTAAGTTTTTATTAATGCTCATCTTCCCTGAAGAGCCCTGGCTGTTTTCT
TGACCAGCTTCTGGAGAGAAAAATCACAGTGCATTTGAGTAGCTCCAGATGTGATCTCCCCATTCAGCATTTCCCTTCCTGTAGCATCTGCCGA
GCCTTCCTTCTGGCTTCTCTGCTCTCCGTGCCTGAAAGGAGACATTGAGCAATCCAGGCCAGTTCGAAATCCTGAGCCCAGAAATAAAGTGACT
GTTGCTTTTGCGTCCTTGCACGTTTGCCCCGGCTCTCAGCAGAGGCAGAAGGTGATGTTTGGAGGAAGCAGATGGCCCGGTCTACTGTACATTT
CAGAACATTTCAACTGCAAGGCTGGCTGGGGCTATTGCATCACTGAGCCCGATAGGGCTGCAGGGCAGAGGCAGGGATCCCTGTGGGTGGAACT
GCTGGGTGGCAGGACGGGGTGGGGGAGCTGAGGGTGGTGTTTGGAGAGGAGGGGGAGAAGGGGGAGACAGTTTGGGGAACGTGCCTGAATTCCT
ACCCAGGTCCAGTGTGGGTTGATGCAAATGGTGCACACGGGCTGAGAGGTCAGCTAGATCTGGGTTCCGATCCCGACTCCTTACTGATGAGTTG
TGTCCTTGGAAAATGACTTCTTCTCTTTGAATTTCAGTGTCCTTGACTATATACATGATGGATTCTTCCCACATCGCATGGATGTTGTGGGGAT
TCATTGTCCTGACCTCCTGGGGTGTTGGTGAGGATTAAATGAAATCATGATTTCGTTTGACATGCTTGGACAAGAGCCCCACACACTAGAAACC
CTGGGTGTGTTAGCTGTTGGGAAGATTCTCCTGACCGTGATGATGGGAGAACTCGGCATAGCCCTGCGGGAGGAGTGTTGGTTCTCAACAAC
TGCGGCTGTTTGGGGGTTGTTGGCTTGTACTCCCTCTTTGTAGAGGCTCCTCGCTCCTGGCTCAGGGCTGCTCCCAGGTGCACTTTCGGTGGCA
AGGCATTCAATTGTACACGCTGACTCAGGCGTGGTGAAAGCCAGCTGGCCCTCTGGACCCTGGCCTTGGTCCTCAGCCCTATTGGTTGTCCCCG
CTGCCCGGGATTGGTTGGCCCACGGGGAGGGGCTCTCTGCCTAAGGATGGTCTCCCCAGCTCAGTGACAGAGGGATGCTTAAGCCACGCCACCA
CCTTCGTTCAACTGCCAGCATACCTGAGTGTTTGAGTCAGCCTCTCTCCCCTGTGGCCCAGTGACATGGGCAGCAATGTGGGAGGCTGCCCAGTG
GGTGGGGAGTCGATCAGACGGAGCGAAGAGATTTCTCGAAGGCCCTCTTCACCAGCGTAGCTTACGACAGTGCTGGAGCGCCTACCTGAGCAGA
CCACGCTCTAAGCTTGTTTTGCTGAACACCTTCCTATTGTCCCAGAATCCACCTGCTCTCCCAGGAAGACTGATCTCTTCCAGGGACCATAAGC
AGCTTCCCCAACAGGTGCCCCAGCGGGAGACCAGAGGGAGGGAGGAGACAGGTCAGAGTGCCTACTCCCGTTTTCTCCCTGAGTCAACGTTGTT
CCTCCTGAGGCACCGGCCCCCATACCGCCCTCCTCCTGGGCTCCAGCAGCCATGCTCTCTCCTGGCCCCCCTGGTCCCCTGCCTTTAGTGACAG
CTTATCCTCGTTCCTGCTCTGTCTCCTTTGGTTCCCTTAGACCAGGTGTCAGCAAATCTGGCTTGCAGACCGAATCTGGCCACAGAGCTGCAAC
GACAGAATTCAGCGACTGCAGCAGAGGCCGTGCGGCCCCCCAGGCCGAAAATATTCACTATCTGCCTCTTTCCAGCTTTCCAGAGAAAGTCTGT
GACCTCTGTGTGAGACCCACCCACACCCATGAGATTAGTCCCTTTGCAAATCCCTTCCTTGAATTAACCTGTGTTGAGTGTGCCAATGGCTGTC
TGGGACCTACCCGGCACGCATTCTATTATCCTGACGTCCTCTTAGCCTGGCAACATTCTCGTTCTCTCCATTTTGCAGATGGGAAAGCGGAGGC
ACAGGGAGGCTAAATAACTTTGATGAGATTAGGCACACAATCAGTAGGGGGAGGTCAGTTCCAGAGTCAAAGGCAGGTGCCACCAGCACCCCAT
GGCACTTCCTGTCCTGAGCTGCTCTTACTCGCTCTCGGGACGGTCATGCCAAGGAAGTCCCCTGTCCACAGCCGGGACGCCCTGGGTGGTGCTC
GTGGCGGCAGGGCCAGTACTCGAATCAGTGTCCCTACTTTGCTTCTGTGCCCGGGTCCCCCTTGATTGACACACGACCTGTCATCTATTCTGGT
CTCTGAAGGGCCTTTGTGCGCCTCTTCTGTGCTGCACGAGGCGCTGATTTTTACGGCCTGTCCTTTGCAGAGGAAGCTTCTCTCATGAATTTCT
CAATTTTTGTGGCAAGGAGGGTCCCCAAAGCCTGGACATGTCAGCAACACTCCTGTCTTTTCCAAACCTCTCCACGCATCGCCACCAGGAAGCG
GGGCAGCAGGCTGAAGCTGGGACCCTCACTCTGCCCCTTAGAATGTGAGCAAGGGAAAGTCCCAGAGCAGATCCCAGGGCACTACCGGGCCCTT
CCCTCATCTGTAAAGGAGCTCCTTCCTCCCAGGGCCAGAGGAGGCAGCGTGTGGTAAGTGTTGAGCAGGTGTAATTATACATTTAATTACTGCC
CTCACTAAGGAAAGTGTGCAGCTGTGTCCACCGGTGGGTGGTTCTCAACCAGGGGTGGTTTGGCCTTTGGGACATCTGGCCATGTCTGGAGACA
TTTTTGGTTGCCATGATGGAAAGCAGGTGCTACTGGCATCTAGCGGGTCAAGGCCAGGGACGCCGCTCGACACCCCATAGTGTAAAGGTTGGCC
TTCACCTGCCCAGCTAGAAGGATCCAACCCCGAATGTCAGAGGCGCTGGGTTAGAGGAAGGCCGGAGTGGCCGTCTGTCTTTGTGGAGGGAGGG
CCTGTGTCTGTCTCGCTCACTGTCACATCTCCAACACGTAGTGCGGGTTTCACAAATGGTTCTTGACACATGGGCGTGTGCTGGCTGCCCACCG
GAGCTGGTCAACACGGTTCCCACTTCTAAGGCAGGCAGTGACCTGTGCTGGACCTGACACGGGCTTTAGGGGCTCAGAGGATGGGGACGAGGGC
TCCATAGAGTGGGGGGGGGTCAGCTCGTCCCTGAT

HUMAN SEQUENCE - mRNA
ATGGATGGGGGAACCGGGCGGCGAGACGGCGGCAGGACGGCGGCAGGATGTGTGACCGGAATGGTGGTCGGCGGCTTCGACAGTGGCTGATCGA
GCAGATTGACAGTAGCATGTATCCAGGACTGATTTGGGAGAATGAGGAGAAGAGCATGTTCCGGATCCCTTGGAAACACGCTGGCAAGCAAGAT
TATAATCAGGAAGTGGATGCCTCCATTTTTAAGGCCTGGGCAGTTTTTAAAGGGAAGTTTAAAGAAGGGGACAAAGCTGAACCAGCCACTTGGA
AGACGAGGTTACGCTGTGCTTTGAATAAGAGCCCAGATTTTGAGGAAGTGACGGACCGGTCCCAACTGGACATTTCCGAGCCATACAAAGTTTA
CCGAATTGTTCCTGAGGAAGAGCAAAAATGCAAACTAGGCGTGGCAACTGCTGGCTGCGTGAATGAAGTTACAGAGATGGAGTGCGGTCGCTCT

SAGRES DISCOVERY 02-16

GAAATCGACGAGCTGATCAAGGAGCCTTCTGTGGACGATTACATGGGGATGATCAAAAGGAGCCCTTCCCCGCCGGAGGCCTGTCGGAGTCAGC
TCCTTCCAGACTGGTGGGCGCAGCAGCCCAGCACAGGCGTGCCGCTGGTGACGGGGTACACCACCTACGACGCGCACCATTCAGCATTCTCCCA
GATGGTGATCAGCTTCTACTATGGGGGCAAGCTGGTGGGCCAGGCCACCACCACCTGCCCCGAGGGCTGCCGCCTGTCCCTGAGCCAGCCTGGG
CTGCCCGGCACCAAGCTGTATGGGCCCGAGGGCCTGGAGCTGGTGCGCTTCCCGCCGGCCGACGCCATCCCCAGCGAGCGACAGAGGCAGGTGA
CGCGGAAGCTGTTCGGGCACCTGGAGCGCGGGGTGCTGCTGCACAGCAGCCGGCAGGGCGTGTTCGTCAAGCGGCTGTGCCAGGGCCGCGTGTT
CTGCAGCGGCAACGCCGTGGTGTGCAAAGGCAGGCCCAACAAGCTGGAGCGTGATGAGGTGGTCCAGGTCTTCGACACCAGCCAGTTCTTCCGA
GAGCTGCAGCAGTTCTATAACAGCCAGGGCCGGCTTCCTGACGGCAGGGTGGTGCTGTGCTTTGGGGAAGAGTTTCCGGATATGGCCCCCTTGC
GCTCCAAACTCATTCTCGTGCAGATTGAGCAGCTGTATGTCCGGCAACTGGCAGAAGAGGCTGGGAAGAGCTGTGGAGCCGGCTCTGTGATGCA
GGCCCCCGAGGAGCCGCCGCCAGACCAGGTCTTCCGGATGTTTCCAGATATTTGTGCCTCACACCAGAGATCATTTTTCAGAGAAAACCAACAG
ATCACCGTCTAAGTGCGTCGCTTGGGCGCCCCACCCCGTCTGCGTCCTGCATCCATCTCCCTGTTACAGTGGCCCGCATCATGATTAAAGAATG
TGGATCCCTCTGTCTGGGGTGGGATGCCTTACTTTGCACTTAATTTAATAAGGGCATTCTCGGAGGAGTAGACGTTTAATACGAAGTGGCGCAT
AGCCCTGCCGAGATGTCGGTGATGGCCTGATGCG

HUMAN SEQUENCE - CODING
ATGTGTGACCGGAATGGTGGTCGGCGGCTTCGACAGTGGCTGATCGAGCAGATTGACAGTAGCATGTATCCAGGACTGATTTGGGAGAATGAGG
AGAAGAGCATGTTCCGGATCCCTTGGAAACACGCTGGCAAGCAAGATTATAATCAGGAAGTGGATGCCTCCATTTTTAAGGCCTGGGCAGTTTT
TAAAGGGAAGTTTAAAGAAGGGGACAAAGCTGAACCAGCCACTTGGAAGACGAGGTTACGCTGTGCTTTGAATAAGAGCCCAGATTTTGAGGAA
GTGACGGACCGGTCCCAACTGGACATTTCCGAGCCATACAAAGTTTACCGAATTGTTCCTGAGGAAGAGCAAAAATGCAAACTAGGCGTGGCAA
CTGCTGGCTGCGTGAATGAAGTTACAGAGATGGAGTGCGGTCGCTCTGAAATCGACGAGCTGATCAAGGAGCCTTCTGTGGACGATTACATGGG
GATGATCAAAAGGAGCCCTTCCCCGCCGGAGGCCTGTCGGAGTCAGCTCCTTCCAGACTGGTGGGCGCAGCAGCCCAGCACAGGCGTGCCGCTG
GTGACGGGGTACACCACCTACGACGCGCACCATTCAGCATTCTCCCAGATGGTGATCAGCTTCTACTATGGGGGCAAGCTGGTGGGCCAGGCCA
CCACCACCTGCCCCGAGGGCTGCCGCCTGTCCCTGAGCCAGCCTGGGCTGCCCGGCACCAAGCTGTATGGGCCCGAGGGCCTGGAGCTGGTGCG
CTTCCCGCCGGCCGACGCCATCCCCAGCGAGCGACAGAGGCAGGTGACGCGGAAGCTGTTCGGGCACCTGGAGCGCGGGGTGCTGCTGCACAGC
AGCCGGCAGGGCGTGTTCGTCAAGCGGCTGTGCCAGGGCCGCGTGTTCTGCAGCGGCAACGCCGTGGTGTGCAAAGGCAGGCCCAACAAGCTGG
AGCGTGATGAGGTGGTCCAGGTCTTCGACACCAGCCAGTTCTTCCGAGAGCTGCAGCAGTTCTATAACAGCCAGGGCCGGCTTCCTGACGGCAG
GGTGGTGCTGTGCTTTGGGGAAGAGTTTCCGGATATGGCCCCCTTGCGCTCCAAACTCATTCTCGTGCAGATTGAGCAGCTGTATGTCCGGCAA
CTGGCAGAAGAGGCTGGGAAGAGCTGTGGAGCCGGCTCTGTGATGCAGGCCCCCGAGGAGCCGCCGCCAGACCAGGTCTTCCGGATGTTTCCAG
ATATTTGTGCCTCACACCAGAGATCATTTTTCAGAGAAAACCAACAGATCACCGTCTAA

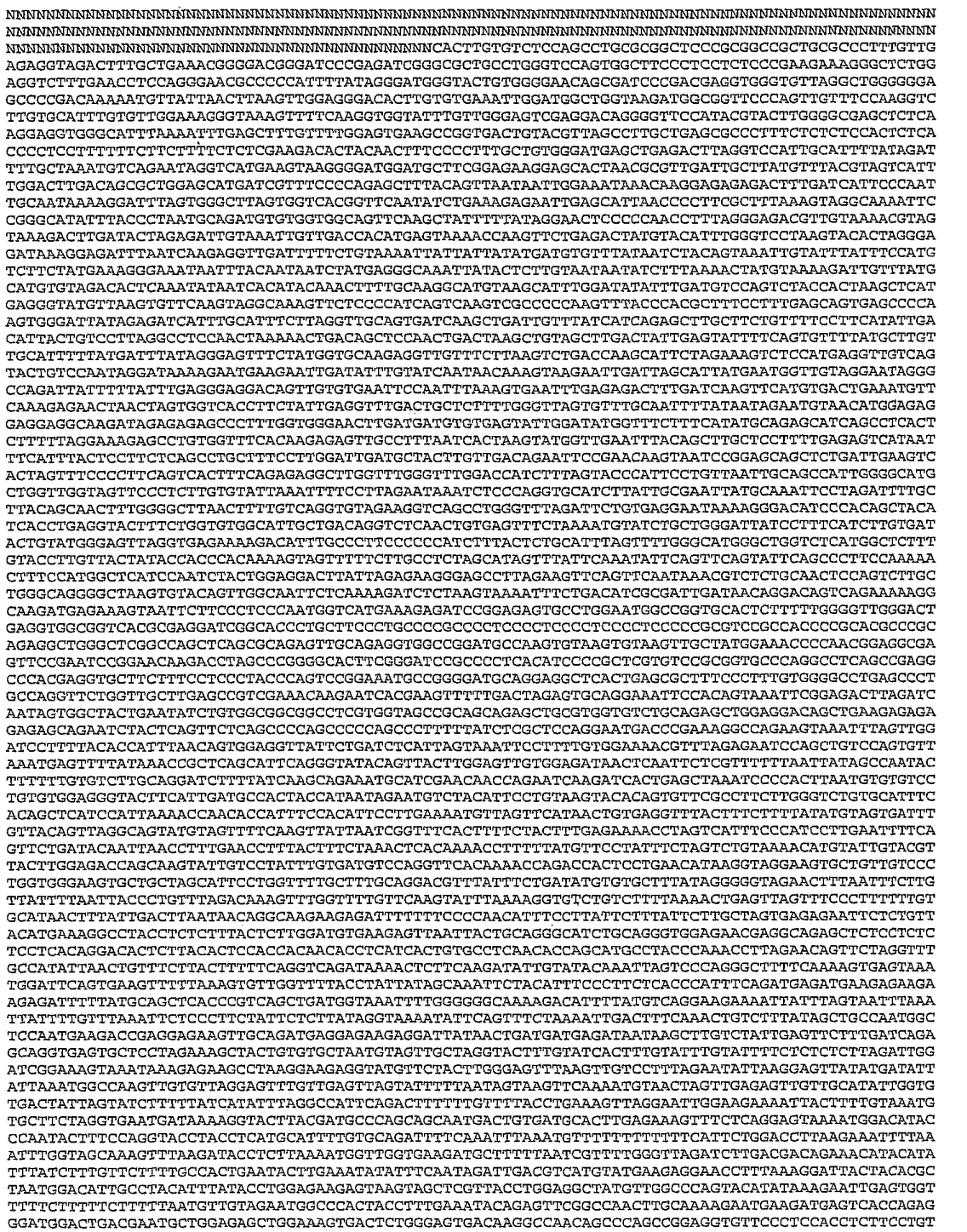
SAGRES DISCOVERY 02-17

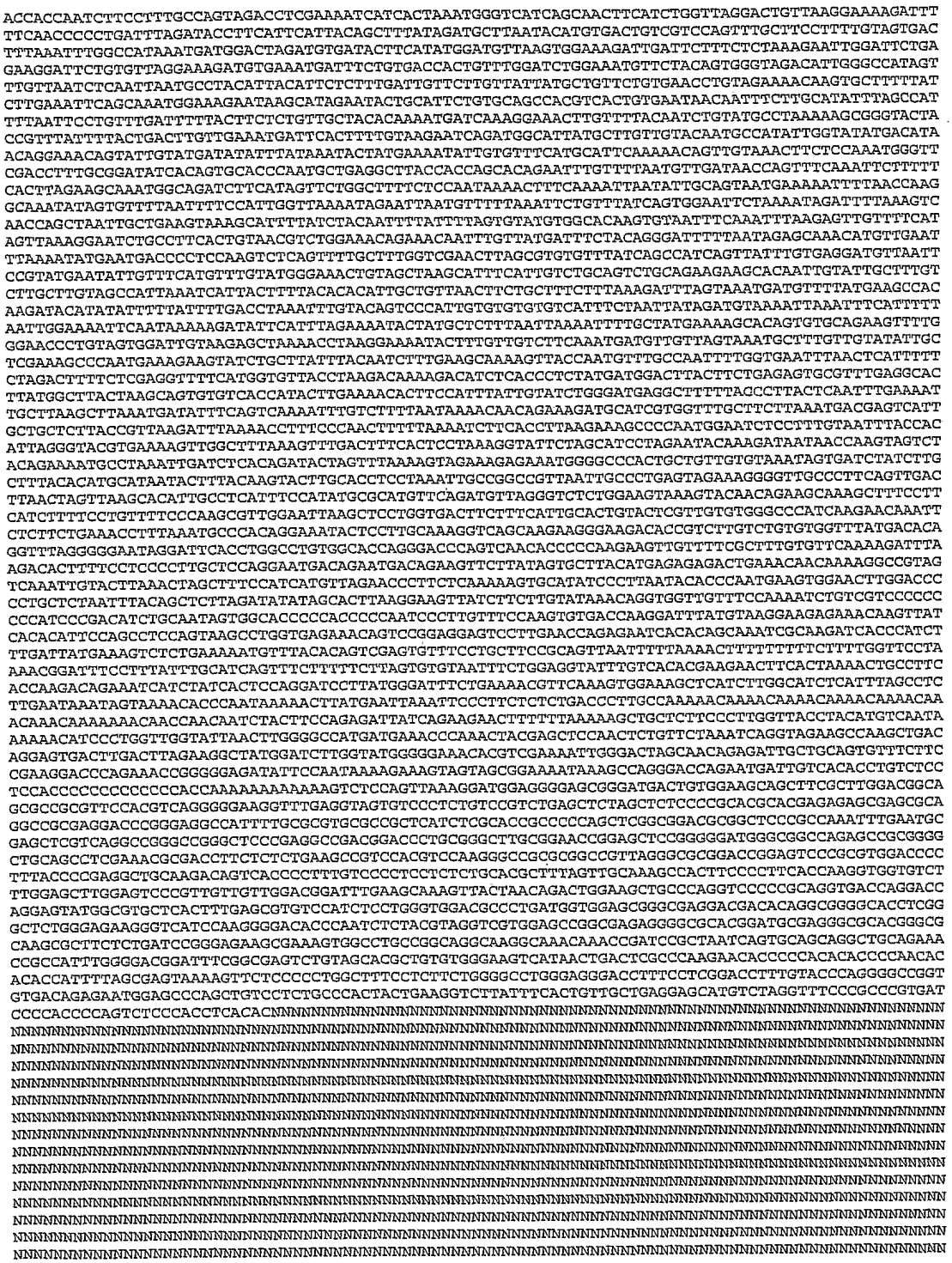
TABLE 17

MOUSE NOMENCLATURE
ICSGNM Bmi1
Celera

HUMAN NOMENCLATURE
HGNC BMI1
Celera hCG23091

MOUSE SEQUENCE - GENOMIC





NNNN

TGATAAAAGGTACTTACGATGCCCAGCAGCAATGACTGTGATGCACTTGAGAAAGTTTCTCAGGAGTAAAATGGACATACCCAATCATTTCCAG
ATTGACGTCATGTATGAAGAGGAACCTTTAAAGGATTACTACACGCTAATGGACATTGCCTACATTTATACCTGGAGAAGAAATGGCCCACTAC
CTTTGAAATACAGAGTTCGGCCAACTTGCAAAAGAATGAAGATGAAGTCACCAGAGGGATGGACTGACGAATGCTGGAGAGCTGGAAAGTGA

HUMAN SEQUENCE - GENOMIC
CAAAAGCAAAATCCAGTTGCCTGAGATCGGAGCTTCCCGCAGGATTCGCGCAGAGCGAGGAGCGGGGAGGACGCCGTTTGCGGGAGGCGGGGGC
CGGGATCCCGACACCGTCCGCAGTCTCCCCGGGGTCTCTCAGGGAACCGAGCTGGTGGCCGTCCTAGGTAAGCGCCGAACCANNNNNNNNNNNN
NNNNNNNNNNN

GATCTTTTTCCCAGAGATTTACAGTTAATAATTGGAAGTAAACAAGTAGAGAGACTTTGATCATTACCACTTGCAATAAAAGGATTTAGTGGGC
TTAGTGGTCACGGTTCAATATATGAAAGAGAAGCATGTATTAACCCCTTCCCTTAATGTGGGCAAAATTCCGAGCATATTTATCCAAATGCAAG
TGTAGGTTGGTGGTGTGTACAACGTTATGAGTAGTTCAACCTATATTTTATAGGAACCTTAACTCCCATGTTCTGGAAACACATTATAAGCTAC
ACTAAACAGTTGATATTTAAGGATGCAAATTATTGACAGTATATAACAAGTTATGAGACTCTATATGTTAACATTTGAGTTTTAAGTAGACCGA
TCAGAAATCCCTGGGATTGATTTTATAAACAAAATTATAAGTTTTTAGATTTGAGTTAATTCCATACATCTACCCCAAAGTGTAGTCAGAAGTG
TTTGAAATAACCTACTTGTGTGAGTCTTATGCCTAGTAAAATATCTTTAAAGCCATATACAAGTCACTTTGTATGCATGTATACACATAAAGCT
TTTGTAAGAAAATTAAGCATTTAATTGTACATGATAAATCCATTAATACTCTATCACTAACTTCTTGGATGTATGTTAAGTGTGCAGATAGGCT
TTCTCCCCAGGAGTCAAATTAACCCCAACTTTACCCATGCTTATGTTGGGCTGTGAACCCCAACTGGGGCTATGGAGTTCATTTGCATTTCTTA
GATTGCAGTAGGCAAGCTGATGGTTAACATAAGAACTTGCTTCTGTTTTCCTTCATTTTGACATTCCTGGTGTTAGGCCTCCACCTAAAAACTG
ACAGCCCCAACTGAGTGTGTTACAATGGCAAGTTTTAACGGTTGAGTATTTTTACCATGATATGTTTGGTGCATTTTTGTTTGCTTAACTGGCA
GTTTCTGGGTTGGAACCTGGAAGGTTTTCACTTCTGAGGTGGAAGAGATTGTTTCTCAAATCTTATCAAGCACGTCAAACACTTTGGAAGTCTT
CATTAGGTTGCCACTACTTTCAAAGGGCATAAAAACATAACTGATTTTTATATAAGTAACAGTGGTATTTATTAGCATTATAAATGGTCACAGG
ATTGTGGCCAAATTCTTCTGAACTGAGGTAGAGGAATTGTGTGAATTAAGACTTAAGATGAATTTGAAAGACTTTTGGTCAAGTACATGTGACT
TAAATGCTCAAAGCCAACCGGTAGATAACCCTCCACTGAGGTTTGATTGTTCTCCTTGTTAATACTTGTCTTTGTGTGGTGTTGGTTTTCTGCA
AGCTAGAGGAGAAATAAAGGCAGCTATTTTTATTGGAGCCCCTTCATGAACTTCGTGATCGGTGGTTTTTTAGTGCAGTATGCTTTCACAGGCA
AACAGAAATATCAGCTTGCTATCTTTCTAGGAAAGATCCTGTGGTTTCACAAGGAGAATTTTCTTTAAGCACCAAGAAGGCTGTTCTTTAATTT
ACCAAGTATAATTTGATTTAAATATTGCTACTCTTTAGGGTCATTGCTCTACCTACAACTCCTCCGTGCCCCGCTTAGATTTATGTTAATATGT
TGACAATATTCTCCAAAACAAGTAATCCAGAGATAACTGAGGAGTCAGTCACACAAGAAGTTTTCTGGTAGAGGTCGCCAGTTGCCACTGTGGT
CACTTTCATAAGAGAGGCTTTGTTTTGTTTTTTACCATTTTCTAGAGGTTAGCTCTTAATTTCAGCCATTGAGCTGTGTTGATTGGTGTTTCCC
TTTACTGCATTAATACACCTTAGGAATTAAAACCGCAGGTATATCTTACTGCAAGTTTCAAAAGGTCCTGGATTTCCATTCAAGGAAGATTTGA
GAATGTACTTCAGTGAGGTCTGGAAGCTTAGTCTTATATCAGGTTCTGAAATGAATGAAGAAGGGGGGTTGAAGTTTATTTTTCAAGAATACTA
CACGAAGTATTTGACTTCCCTGACTGTCGGCTGGTGTATTGTTGCTGACAGTTCCCCATTGTGACTTTCCTGTAATAGAGGTATCTGTTGGGAA
TATCATTTCATCGTATGGGGGGTTTTACATTTGTTTTTCTCTCCTGTCGCTGCTTTGGGTTGACAAGCTGTTGATTTAGCGTTGGAAATGGGCT
GGTCACATGGTTCTGTACATATTGTCACTATTGTACCGATTAAAGTACTTTTTCTTGCCCCCAGCATAGTTTGTCCAAATAAAACACTGGGCTT
TGCCCTCTCCTCTTCTTGTAAAACAGATTTCAGTTTTCAGCCTTTCCAAAACTTTGTATCGCTCATTTAATCTACAGGAGAGCGTCACATTAGA
GAAGGAAGTTTTAAAGAGGTTCGGTTCAATAAACATCTCTGCAATTTGAGCCCTGACGGTTTCGGGCTAAGTGCACAGTTGGCAATTCTCAAAA
AATCCCTTCGTGAAATTTCTGACCGAGTGATTGCAGACAGGACAGACCGAGAGAGTCGAGATCTGAAACCAGCTCTGCGCACCAAGTCGACGTG
AAAAGAGGCCCCCGGAGTGTCCGAAATGGCCGGGAGTGCGGTTTGCATTTTCCTTTCGCGGGCGCTGCCGCAGGCTCCGGGGTCCCCGCCGCCC
AGGACTGGGTCCCCGGTCCCCGATCCCCGCTCCCCGCTCCCCAGCGCTGTGGCCTCGTGGGGCTGCCCCGCCCCCCCGGCGTCGCCGCACCCAC
CCCGCCCCCGCGCCGGCCCCGCCCCCGCGGCGCGCCGCCCCTCCCCCGCCCGCCCGCCCGNNNNNNNNNNNNNNNNNNNCCCCTCCCCCGCCC
GCCCGCCCGCCCGCCGCCCCGCACGCCCGCCCACGCTCGGGGCTCGGGCCGGGCTCCGCGCGGAGTTGCAGCGGTGGCCGGATGCCAAGTGTAA
GTGTAAGTTGCTATGGAAACCCCGACCGAGGCGAGTTCCGAATCCGGAGCGAGACGGAGCCCCGGGCGCCGCCGGATCCGCCCCTCGCATCCCG
GCCCCCGGGCGTCCGCCGCGCTCAGGCCCCGGCCCAGGCCGACTGGAGGTGCTCCTCCTGCGGCCCCAGCACCCGGCTCCGGAAATGCCAGGGA
TGCAGGGAGGGCAGAATTGTTTTCCCTGCGCGTCGCGTAAAAACGTGCCAGGTTCTGCTTGCTGGAACCGTCTAAAACAACCGGAACCCCGGAT
TTTCACTTGCAGATTCTTGAGGAAGTTTTATAATAAATTCGGAGACCTGGAACAAGCCCTAGTGGTTGGTAAATATCCGCGGGGATTGTGTGGC
GTCTGCAGCAGCCTTGGGGCTGCTGGGCTGGAGGACAAATGGAAGAAAGAGACCCTAATACGCTCAGCTCCCAGCCCCCACCCCAGACTTTCTT
CTACCTACAGGAATGATCTGAGAGACCAGAAGTAATGTTAGTTGGATCCTTTTGCATCAGTTTGGTAGAACTGATTCCGATCTGATGAGTAAAT
TCCTTCTGTAGAAACGTTAGGACAGCCCAGCTGTACAGTGTTAAATGAGTTTTATAAATTCAGTGTTTCAGGGTTTGTGATTACTAGATGATCT
CCATTCTTGTTCTGTGAATTATGGCCATTATTTCTGTGTCTTGCAGGATTTTTTATCAAGCAGAAATGCATCGAACAACGAGAATCAAGATCAC
TGAGCTAAATCCCCACCTGATGTGTGTGCTTTGTGGAGGGTACTTCATTGATGCCACAACCATAATAGAATGTCTACATTCCTGTAAGTACCGA
GCTTTAGCTCTCTTTTGTATCATGCGTATTTCACAGTTCGACCTGGAATTTGAAAACTGTTAATGATTCCTGCAATCTGTGGAAATGTTGGTAC
AAAGTGGTGAAGGCATTTTCTTCTCTTGCATCTAATGACTTTTTGTTAATATGTATTGATTGTATTACAAGCATGCAATATATGTGTTCTCAGG
ATATGAATTAGCTTATTTAGTTGGAAATGCCTTTCACCATCTTGTTTTCTACTAGTTCTGGGTTTCTAACACCAATGATTTATCCACTCATTTC
TAAACATAAAAAAACTTCACATGTTCTACTTCTAGTCTGTAAAACGTGTATTGTTCGTTACCTGGAGACCAGCAAGTATTGTCCTATTTGTGAT
GTCCAAGTTCACAAGACCAGACCACTACTGAATATAAGGTAGGAAACTGTTGAAATTCCTTGTTTGTAATTATTATTGGAGTTGTATAATTTAC
TGAAGGCAACCCTCTTTATTTCTTCACAGAAAATTTACTCTTGAATACATAACTAATATGTGTGTGCTTTGTGGAGGGTAGCCGTTTAATTTCT
TGCCATATTAATGGTGACCAAGTTTAGACAAAGTTTAGTAGTATTCAAGTGATTTTAAGATTTTTTTTTCCTAACTGTCCTTTAAAAACTGAGT
TAGTTCACCTTTTTTGCATTGCTTTATGGACTTCATGACAGGCAGGAATAAATATTTAAAAGGGCTTCCATTCCTCTTTATTCCCTATTCATAT
TAGCTAGTTTAGTAACTTGAAAGGCACACTTCTTTTGACAGAGCAAATGTGAAGAATTTATTAGTGAATATAAAATATTTTTCTACTGATTTAA
AAAGTGCTATATACAGAGAACTTTTATTCTCATAGTTTTTATCTTATCAATAATAGTTATAGACAGCATCACAATCAAGTAAAATATTATAGCA
CAAAAGAAGACTATAGAAACTTATGAACATTTTTAGTTCTTGCCATCTGAATTCATAGTTTTCTATTTTAATTATTTTTCAGGTCAGATAAAAC
TCTCCAAGATATTGTATACAAATTAGTTCCAGGGCTTTTCAAAAGTGAGTAACTTGCTTAGAAAATGAATTTAAAGAGATTATTCATTAGTTCT
TTGTGTTATGCCAAATGTTTACATCTTTTTTCCCCATTCAGATGAAATGAAGAGAAGAAGGGATTTTTATGCAGCTCATCCTTCTGCTGATGGT
AAACCTTTTAGGGGAGGGAAGACATTTTATATGGGGGGAGAGCTTATCTAGGAATTAAAATGTATTAAAATTGACTTTACCACTTCCATCCTCT
TATATATAAAATTTATTAGGCATCTGATTTTTAAAAATTACATTTCACTATATCGTTATAGCTGCCAATGGCTCTAATGAAGATAGAGGAGAGG
TTGCAGATGAAGATAAGAGAATTATAACTGATGATGAGATAATAAGCTTATCCATTGAATTCTTTGACCAGAACAGGTAAAATCTTTAGGCAAT
TTATTTTATGCTAATGTTTTATTAGATTGTTTCACTAATAAATTTTCTCTTTATTAGATTGGATCGGAAAGTAAACAAAGACAAAGAGAAATCT
AAGGAGGAGGTATGTTTCATGTTACAAAAACATATAGAAGAAACATTGTTTGGAATCCAGATTTTATCAGGGATTGTGTTGCCCTTTAGAATAT
TAGGCTGTTAAATAGAAGAAAATGGTCATGTTTAATGTTTAAGAAAGGTCTACATGTGATATTTAATAATTAGAATTTATTTTATATATGATTG
TTAGTCTTACAAAATATTTTAAGTAGTTCACAGTTAATACTTTGGTATGCTTGAAGATTATATTAGGAATCTGTTCATTTAGTATTTGTAATGA
TAGTAAACTCAGAGTGTAATTAGTTGAGAGGTTGGTCACCTCCAATTTTGTTTGATACTAGTATCTTTTATATTCAAGCAATCAAATTGAAACT
TTCTTCATATCTTAAAGTAACTGAAAAAGTTACTTTTCTAAATGTACTTTTAGGTGAATGATAAAAGATACTTACGATGCCCAGCAGCAATGAC
TGTGATGCACTTAAGAAAGTTTCTCAGAAGTAAAATGGACATACCTAATACTTTCCAGGTATCTACTTTTATATTCTTCTTGCATTTTACATAG
ATTTTACAATTTTAATTACATTTTTCACTTTGGATTTTGAACCCAAAAAAGCAATAGAAAAAAAATGTGAAGTTAGTGCTAAAGTTGAAATTTA
TCTTAAAACATTTGGTATACATTCTCTTTTTATGCTATGAAAACAAATCCCTTAACACTCTCTAGAAATAATTTTTTCTCATTTGAAGTTTCAGG
AGTCTTTCTTTGTTAAAATGTTTGGAGAATATGTTTCTTAAAGCACTTTTGGATTATATTTAAATGACAAAAAATGTACATTTACCTTTGTTCT
TTTATTACTTAATAAAAATATTTTTCACTAGATTGATGTCATGTATGAGGAGGAACCTTTAAAGGATTATTATACACTAATGGATATTGCCTAC
ATTTATACCTGGAGAAGGGTAAGTAGCATATCTGTTGTTAGATTATGATGGTAAACTATATTTAAAGAATTAAGAGTAATTTTTTTCCTTTTAA
CTTTGTAGAATGGTCCACTTCCATTGAAATACAGAGTTCGACCTACTTGTAAAAGAATGAAGATCAGTCACCAGAGAGATGGACTGACAAATGC
TGGAGAACTGGAAAGTGACTCTGGGAGTGACAAGGCCAACAGCCCAGCAGGAGGTATTCCCTCCACCTCTTCTTGTTTGCCTAGCCCCAGTACT
CCAGTGCAGTCTCCTCATCCACAGTTTCCTCACATTTCCAGTACTATGAATGGAACCAGCAACAGCCCCAGCGGTAACCACCAATCTTCTTTTG
CCAATAGACCTCGAAAATCATCAGTAAATGGGTCATCAGCAACTTCTTCTGGTTGATACCTGAGACTGTTAAGGAAAAAAATTTTAAACCCCTG
ATTTATATAGATATCTTCATGCCATTACAGCTTTCTAGATGCTAATACATGTGACTATCGTCCAATTTGCTTTCTTTTGTAGTGACATTAAATT

TGGCTATAAAAGATGGACTACATGTGATACTCCTATGGACGTTAATTGAAAAGAAAGATTGTTGTTATAAAGAATTGGTTTCTTGGAAAGCAGG
CAAGACTTTTTCTCTGTGTTAGGAAAGATGGGAAATGGTTTCTGTAACCATTGTTTGGATTTGGAAGTACTCTGCAGTGGACATAAGCATTGGG
CCATAGTTTGTTAATCTCAACTAACGCCTACATTACATTCTCCTTGATCGTTCTTGTTATTACGCTGTTTTGTGAACCTGTAGAAAACAAGTGC
TTTTTATCTTGAAATTCAACCAACGGAAAGAATATGCATAGAATAATGCATTCTATGTAGCCATGTCACTGTGAATAACGATTTCTTGCATATT
TAGCCATTTTGATTCCTGTTTGATTTATACTTCTCTGTTGCTACGCAAAACCGATCAAAGAAAAGTGAACTTCAGTTTTACAATCTGTATGCCT
AAAAGCGGGTACTACCGTTTATTTTACTGACTTGTTTAAATGATTCGCTTTTGTAAGAATCAGATGGCATTATGCTTGTTGTACAATGCCATAT
TGGTATATGACATAACAGGAAACAGTATTGTATGATATATTTATAAATGCTATAAAGAAATATTGTGTTTCATGCATTCAGAAATGATTGTTAA
AATTCTCCCAACTGGTTCGACCTTTGCAGATACCCATAACCTATGTTGAGCCTTGCTTACCAGCAAAGAATATTTTTAATGTGGATATCTAATT
CTAAAGTCTGTTCCATTAGAAGCAATTGGCACATCTTTCTATACTTTATATACTTTTCTCCAGTAATACATGTTTACTTTAAAAATTGTTGCAG
TGAAGAAAAACCTTTAACTGAGAAATATGGAAACCGTCTTAATTTTCCATTGGCTATGATGGAATTAATATTGTATTTTAAAAATGCATATTGA
TCACTATAATTCTAAAACAATTTTTTAAATAAACCAGCAGGTTGCTAAAAGAAGGCATTTATCTAAAGTTATTTTAATAGGTGGTATAGCAGT
AATTTTAAATTTAAGAGTTGCTTTTACAGTTAACAATGGAATATGCCTTCTCTGCTATGTCTGAAAATAGAAGCTATTTATTATGAGCTTCTAC
AGGTATTTTTAAATAGAGCAAGCATGTTGAATTTAAAATATGAATAACCCCACCCAACAATTTTCAGTTTATTTTTTGCTTTGGTCGAACTTGG
TGTGTGTTCATCACCCATCAGTTATTTGTGAGGGTGTTTATTCTATATGAATATTGTTTCATGTTTGTATGGGAAAATTGTAGCTAAACATTTC
ATTGTCCCCAGTCTGCAAAAGAAGCACAATTCTATTGCTTTGTCTTGCTTATAGTCATTAAATCATTACTTTTACATATATTGCTGTTACTTCT
GCTTTCTTTAAAAATATAGTAAAGGATGTTTTATGAAGTCACAAGATACATATATTTTTATTTTGACCTAAATTTGTACAGTCCCATTGTAAGT
GTTGTTTCTAATTATAGATGTAAAATGAAATTTCATTTGTAATTGGAAAAAATCCAATAAAAAGGATATTCATTTAGAAAATAGCTAAGATCTT
TAATAAAAATTTGATATGAAAAGCACAATGTGCAGAAGTTATGGAAAACCTATAGAGGATTACAACAGGTAAACGTTAAAGAGAATACATTGCT
GACTTATAGTGATGTGGCTAAGAAGTACATGCTTTGTTGTAAAATTGCTTGAAAGCCCATTGAAAGATGTATCTGTTTATTTACAGTCTTTGAA
GTAAAAGTTACCAATGTTTGCCAATTTTGGTGAATTTAACTCATTTTCTAGGCTTAAGTTTTTCATGATGTTTAAGACAAAGAAAAGTTAATGG
AAGTGTCAAGTGATATTTTTACCTTGGATGATCATTTGTATAAAGAATGAAAAAATATTTTTAAAAGGCTAAAAACTTTAAATGCTAGTGGACT
GTCATTTGACTTACATAAAACCAAGTTATCAACATGGAATTCAAATTTTACATCTCAATCTCTTTATGATGAATTTATTTTTGAAATTGCTTAT
TAATCAGATACTGCAGTTATGGCTTACTTAGCACTAACCATATGTGAAAATGTTTCCATTTATTTGAAAAATGATTTTTTTTCCTCCTCAATTA
GAAAATGGCATAAGCTTAAAAGCATATTTCAGCCAAAATTTTTTCTGTTAATGAAAGATTATAATGTTTTGTATTCTTAAATAAGCAGCTATTA
CAGTTTGACAATTGAGATTAAAAACCTTTGCTAAATTACCATGTTAGAAATTTTCAACCTTATGAAAACCCATATCAAAAGCTGCTAACTTTGT
AACTTTTAGTAGTCAAAGCAGGGTACAGGAAAAGTCAGCTTTAAGTTTGACTTTTGCTTCTGAAAATATTCTAGAACACAAAGTTAGTGCTAAC
AAAATATTTCAGAGAAAATGCCTAAATTGATTTTACAGATTTTTAGCTTAAATGCAAAGAGAAAAATGAGGCTGGTTGCTGTTGTGTAAATAGT
GATCTATCTTGCTTTACACATGCATACCATTTTACAAGTACTTTTTGCTTTTAAAATTGCCGGCCGTTAATTGCACTGCATTGAAAAAACAACT
GCCCTTCAGTTGTCTCAACCTTCCAACCATATTGCTATTTCCATATCCATACGTGATAATATTTGGACCTCTGGAGGGAAAATGCAACAGGCAG
AGTAAGCTGGTAGGAACTTTCCTTCATCCTTTCCTCTTTTCCGAATATTTTGAAGGTGCAGTTAATTTGTGAAGTCTTGTTACACTCATTGTAT
GGGCCTATTAAGGTTTTGTTATGAAAACAATAGGAACTTAAATACCCATGTGAAATGCGCCTTGCATTGACCAACACGAAAGGAGGACGTTTGG
TATTTTAAAATAGTTTATTTTATGGTATCTTTTGAGGGGATAGGATTTACTTTTAGAAACAATCTACACATGGAATCCAGTCTCTTTAAAATCCT
GGGGTGAAGCAATTGTTAATTTTTCCATTTCTCTTTGTATTTTAAAGGTTTGATAAATGATTTAGATCTTTTTCTTCCTAATACACGAAGAATG
ATAGTTGGAAATTCTGATTTAGTTTAGTACTTAGTCAGAATGGAGGCCCCATAAGATTTTTAAAATACTTTGGCTGTTTTCCCCACACAGTCTT
CATTGCATTTTATCCAAAACAAAAAGGTCTTGATCAAATTACATGAAAAACGACTAGACATCATTTTAGATCTGTGCTGCATCTAACAGTATAC
TAATTAAAACCTTTCAAAAACCGTCTATGCCTCTAAGACACTAATTTGGTGCAAAGATCACTGAACCCAGCTCCAACTTAAAGCTCTTGAGATA
CATGATTTCACTTTAGGATGTTTCTTCATGTACAAAATGAACACAAACACAGGTGATAATTTCTAAGGTTGCTCTAAAAAAATTGACTCCTCAA
AAAAAAGCCCTTGAACTAAATTAGGACCACAAACTTCAAAGCGAGGAGCCGAGTTCTTTACAAGGAATAGAAGGAGATATCCATATATTCCAGC
CTTGCAGAGAATCAGATTTGCAAATACCCACCGCGAAGACCTTGAGCCAGCCGATCTCCCTGCAAATCTCAAGATCGCCCAGTTTGATTATGA
AAGTCTTCGAAAATGTTTACACAGTTGAGTGTTTCCTGTTTCCGCAGTTAATTTTTTTTAACGTTTTTTTCTTCTTTTGGTTCTTGAAACGGAT
TTCCTTTATTTGCACCAGTTTCTTTTTCTTAGTGTGCAATTTCTAGAGGTCTCACATGAAGAACTTCACTATCAACTCTGTCTTCATCAAGTCG
ACGACATCAGAAGTCATGTTATATTTATCACTGGAAAGACTCCGCTGTAGCACTCTTGTGAGAAGAGTTCTGGAGAAGTTCAAGTGGAAAACTC
ATTCGGAAGTCGCTTTAGCCCTCCAAATAAATAGTAAGCGCTCAATAAAAACTTCCAACAAAGGAGTTAGAACTACTCTCATTCTTCAGCCCCT
AGCCTTTAAAAATGTCCCTTCCGGGACTATCCGAAGTCACTTTCATAAATAGCAGGTGTTGTTCCCTACATTTCAGTAAAATGCTACTTCTTGC
TCTGATTGTCAGGTCATCATGGAATGCAAACTTCACCGTGGACGTGATTTCAACGTTGGTGCGGATTTGGAGATGTCCAACTCTGTCCTCAATT
AGCCAGAACTCAAGTTGAGATAAGAGACTTGGGAGGCTGCAGACCCAGGTGATAGGGAAGCGCGTCGGAAAGTGGGATGCCAGGAATGGGATGG
TGGCCGAGACCGACACCGAGGTTAGTGCAGGTGGAGAAGTAGGTCCAAAAGCCCAAGTCACAGGTCCGAAGTCCTCAGGAGCGGAAGATCTTCC
AACTAAGCCGGAGAGCGGGGCGCACCGCACGGCGTGGAGCATAACGCCCGGGCGAGGGTGATTGGGGTGGGAAACTCCACTGCTTTCCAAAAAA
CAGGTTTCTTAGGTTCTAGTGCCCGGTGGAAAGGGCACAGTACACCGGCCTGGGGGAAATCACCTGACTTCTCCTTTGGTAAAGGCCCCCTTAC
CAACGCTGCCTCTCTGGTAAGGGGGTCCTTTACCAAAAGACACCTTAAAGAAGAAACAGCCTCTCTCCTTTTCCTTATTTTCTAATTAGCATCT
TACAGAGGAGTGGAAACAGCTACAGCCCAGTCCCCTGCTCAAAACTGCGCCACCCCAGTTCGGCCCTGCTGGGCGCGCGAGCCAAGGCCGCGGG
GCACCGGGAGGCCATTTTGCGCGTGCGCTGCTCGCCTCGCGCCGCCCTCGGCTCTGCGGACTCGGATCCCGCCAAATTTGAACGCGAGATTGTC
AGGCCCTGAGGGGCTTGAGGGGCGGGGGAACGACGCCGCTCTCCAAAGTTGGACCCCGTGGCGAGCGGCGGCGACAGCCGGGTGCTCGCTGCCT
CCCGAGGTGCTCCCTTTTCCCGCCGAAGCCCTCCACAGCGGCAGGCCGAGGCGCAGCGACGTGTCCCTGTACCCCGAGTTCAGCGCGGGCGGGA
AAACGACCTGCACCCGGGGAGGCAGCGGCTTCGCGGGCAGAGCCCACGGGAGCGCGCCCTGCTAGGAGCCAGGCCGGATAATCGCCTTTCTTTG
TCCTCCTCCCTCTTCGAGTCCAATCAATGCCCTTTCTCCTTAATGAACGAGGTGTCCTTGGAGTTTGAGGTTTTGTTGGATGATTTTAAATAAA
ATTATTAAGTTATAAAGTGGCCACCCTGAAGGTTCCCGAAGGCGACTTCATGTCTGTGACTGGAAAGGCCTAGAGGAGAGGGTCCTCCCGCTGG
GCTCGTTTAATAGAACGCGCTCGAATCCCCTGGGAAAGAGCCTTGACTGGGTGACAGGGCTGAGGAGGGGTGGCTGCGCGGCGGGAATCTCAAG
ATCTGGGCAAAGGCTCGCGTCTCGGGACGCGAAGTCGACGCCAAAATGGGTCCCCGGACAAGGCGACCCTGGGAGTGCCGGCGCCCCCGGCCGG
GCAGAGGAGCGGGTGGGCCGAGGCTGGGACATCGCCTCCGAAAGCTGCCGGGACGCGGCGGCTCCTGCAGAGCCTGCGCCTGCCGGATCCCCA
GAACACAGAAGCTTCTCGGACATGGGAGCTCCCCGTGCGCCCTAAAACCAGGAGAGGAAGGGACGACTTGGGAAAAGGGACTGGGGAAACAGCG
GAGAAGTGAAAGCGGCCTAAAATGGGCGACGGCGGGCGAGTCCTCTTTATCAGTGCAGCAGGCTGCCGGAGCCGCCATTTGGTGGCGGATCTCG
GTAGTTCAGTAGCACGTTGTGCTGAACGTCACAACTGGCTTGTCTACGTGGCATCGTCATTTCTTAACCGCGGTTTTACGAAATGCAAATTTCC
CCCTGGCCTTCCTCCTCCGCGGCCGTCGACCCCCCTCGGCGCTCCGGGTGGACGGCTCCGGGGCGCGGCTCGTCCCTCGGGTGGTGCAGCCCCC
GCGGCCCGAGACCCGGGGAGGGCCGGGGGTACTTTCTGCGAGGCGCCTTCCCCGCGGCTTCTGCCCGCGCCAAAGCCTGGTGGAATCCAGCGCA
GACCTAAAGCACGCTTGACACCCCGATTTTTCGAGACTAGGACGACTCTCTGAGCCAGCAGCTTTCCTCTCCCTCTCGGGGAGAATCTCATTTC
CTTGGGGTGGTGAGGGTGACGGGCACTGTCTTTGGCCCCGCGTGTCCGTTCCCCGGTCTCACCCCTCTGCGAGGTGAGGAGGGGAA
ACGGCGAGCTTAGGCCTGGCGGGAAGGAGCCTACCCGACGAGAGGGCTCCGCGGGGAGGGTCGGTTGGAATCCCGCCCTAGCGCCTCCTGCTCT
GCCCGGTCCCCACCGGGGACGGGGAATGCCAGTCATTTCTGTTGAGTGCTAGCAGGGCCGGTGTCACCACCTCGGGTGGCCGAGGCTTCGAGGT
TTTCATGAAAAGCCCCCGAAGCGTGAGGCGCCCGCCCAGTGGAGAACAAAGGGCCGAGGGCCGAAGGCGAGGCGAGGCAGCGCGCGCGGCTCCC
TTGGCTCGACCTAGCTGGGAGTCGGGGGGCGCGGGCAGGGCTCACTCCCGGCCTAGAAACTGGAGCCCGCCACCCCCGCCCCGCAGGCGACCGCA
GGGATCCCATTCTTGGAGCCCGAGCTGCCATGTTGCCTTCGCGGAGGCCGCCAGTCACTTGACGCTTCCGAGACAGCGAAGCCCCCAACCTGAG
AGCCCTTCGGCCGTCTTTGCCGCACAGCTGCAGTCAAGGCCCGGAGGGACTGCGGGACGCGGGCGGGAGCGAGAGCCCTGTGGGCTGCCAAGCC

GGCGCGGCCGCGCCGCGGCAGCCGCTTCCCTTGCCACCTTCGTTCCAGGGGCTGCGGGGCTGCGCGCTCGGCAGAGGCTCGGTTGCCAGTAGCA
ACCACACGACGGCGATTTGCAGCCAGGGCCGCCGCCGCAGCCGCTGGTACCTCTGCCTCCTCCTACACCTCGGGCTCGAGCATTTGAAACCCTG
GGGGTTGCCTTCGGTGACATCTCCCGCCCCCACCTCCAGTCCTCAGTCTCCAAAATCCTCAGCTCTGCTCAAAAGCCAGCGCCCCCGGCTGGGC
CCTGCCCCCACCGCAGACAATAGGAGCGGCTGGGAGCGCACAGGGCGGCGCGCCGCGAGCAGCGGGCACCTGAGCCCCCAAATCCGGGCGCG
TCGCTGAGTCTCAGCCCCAGGTGCCCTCTTCGCGGAGTTGATCAGCAATTCTTTTTCAGTGGCCAATTAGAAAGCTTTTCTTGACATCAGAAAT
AAGGGTGGTGCCAAAGAAAGAAGTCAAACGCCCACTCCCTTTCTAATAACATCGACACAAAGAAGAGCTCATGGTTGCGTCTGCGCTTGGTAAC
AGTGGCTTTCCTCTGGGTTAGAGCCACAGGCACAAGCACCCGCTGCTATCTTTCTTCTTCGCCTACCATGAATATTTTGCATGAAATCCAGAAT
GTAACCATTTGCGTTGACTTAACTGTTGCATCTGGATACTAGTTATTTATCAGTGGATGGAACACTTTTTTTTCCATTTCATTGGATGATCCGC
ATCAACCCTTGGCAGTGTGGACTGCGTGGTTTGAAACATAAAGAAAACGACTGGTATTAACCCTTGAGGATCTACTTTTTCTGTGGCTCTAGAA
CACCAATTTAACTTTTTTTAACAAGAGAACTCTTGTTAATGTTTTAAGCAGGTTTTATTGAAGAAAAGTCCTTAGAGTATCTAGCTAAGTCTTT
TATTTAGCTACTAGGATAACTCGGGAAATATGTGCATTGCCAAATTTCTTCGCTCTTAATAATTGTCCCGGCTTTGTTAGCTGAGTGGTCTTAA
TGGGTTAAAATTTCTTGTAAATCACAAATGTGCTGAAATTTCCAAGTTTAAAGCTCCCTGAGGATAAGCACCTGCCTTATTCATCTTTGTAAGC
GTCAGAGTCCTTTGAACATAACAAATATTTGTCGGACTTCCAGGGAATTTCAGAAGTCTCAACAACTCTTATTAGGAAAAAAACTAACTTACTG
ATAACTAGCAGAAAGCTTGGATATCTTTAATGAACTCAATGAAAAGCTAAACAATTTCCAAGCTGGTAGCATTATCAGATATTCTCATTCATGA
ATATTTAACTTAATTATATTTCAAATGCCATAGATTGTATGTTAAAATATCTGACACATGTTTTCAGGATTCTAAGGAGAATGACAAATTGTAC
ATAAGAACTTGAAACTGCTAATTTCTCATCTAGTGTCTAAAAATTTGGTTAAATAGCCACAAGTAAGGTGCAACTTTAAAGTGCTTTCATACTT
TCTGATAGCACAGACATGTCATTAACTGTCTTTACAGCTGGACAGGAATGCTTAAGGATCTAGCGTTGGATATTGCAAATCTACTAAGACAAGG
CACCTTGAAATATCCTCTTTAATTTAAATAAGCTTTAAAGCATACTGAAAATAGTATGTCTCAATCACAAGTGATGGTAAACTCAAATTAATGC
CTCCTGAAATGACTCTTAGGTATATTATTAAAAGAGGTTCACCTTTAAGCTTCACAAAATATCAAGTTCATTAAATAAGACAGTTTACCTAAAA
GAAGAAGCACTGCTTGGTTCCTAGAGGGAGCATAACGACCTGTAGCTTGCCAAACCACCCCCATCAGCACCTTAAAAATAGGAAAGCAAGGCT
TTAGTGAAAAGTTCCTTGCTACGGTCTTTCAGGAAAGAAAAGCTCCAACAACTTGCTTTGGACCAAGTTAAAGAGATTATCTCCCTTTTTCATT
ACGACTGTCTTTCAATGAATTGAAGGATAAGATCAAAGTGCATTCATATTCATGTGAATTATCGCTATTGACTTGAATAATGATGGATTTCATT
GTTTTATTTAAACTGAAACCAGGAACGCTGCTGCTTTTGAGGCTACACCCCTAAGGCTGTAGAATTTCTTCTCTGAGAACTCAAAAGCCAAGCA
ATTAGGTCTGACAACCACGTCATTTCCATAATGTACTTCCGTACAGAGGACTTTTTATTGGAATCGGTTACATTTCTATAGAATCTTATTACCA
CTCAATTTTTGACTTCTTTCCAACCTTCTCAACAAAACTCCTAAGTTCGGCAAGTACACTTCCAAAAAACTTATGAGTAAATTGTACTGAGAAG
ATACAGTGATGTTTCAGAAGCTTTTATTAATAGCTGTTCATGAATCAGACAAATTAATGTTATCAGTAATTACCTCAGGAGAGTGTTTTTGTTT
TGAACATGATACATTACAGTTTTTCTAGGGTAACTGAAGAACTCAGTTACAGTAAGCTTGGGAAAATGTGTTTACCAGCTGTTTCTTTCTAAAT
ATGCCTCATGACAATTTTCTTAAGACATTTTCATTGGGGTTTTCCTCAAACTGTCCCATCATTTTCTAAGGAGATGGAAGTTACTAGATTCAGT
GGAACTCCCCCTCACTTTCACCAAGTGATCACTCTGCTCAAATAATTCTTATTACAATGCTTATCAGTTTGGAGAACACTTTTTAGGAAATTCA
TTACAATAAAGTAAGCTTGTCATTGAATTCTGCAAGCAACCTTTAAAATAGACTTAGGAAACTGCATTTTCCTGAACTTTAATATACACAATTT
ATATAGCCTCTCTAAACCTAAAAAGAGACTCTAGTGCAACAAAAGTCTATTACATTATCATGGTCTGCAGTGGGTTCTGGGAATATCCTTTCCC
AGAAAGAGAACTGATTCAGTTACTTGGTTTCTCTCTTAAACTTCTGCCATACATTTAAGGCATTACACATAAACCACATTTTAAAAAAAATTCA
ATGTTTTTCTATTCAGTTGGGCTACAAGAGATCTCTATTTTCATTTACCCATTGTGTGTTTTTAGTATTGCAAGACACTCTTTAAGCCAGGAAT
TATTAGTAAATTGTTTCTCTTTGGGATATGACCATATATATATTGAAATTATTTGCATACGTTCAGCTTTACTTGTAAATTTCTAAGACTGTTA
CCCTTGACTTATAAGTAAAATGATAAGCAATTGCATATTATTTCACTAGGGCAAAAAAAAAAAGCATTCCTTGAATAAAAAGCATTTCTTTATA
ATTCAATTCCTTAAGACCAGATTTGTCTTACTGATGGGAAAAGTATTAGTATTTTCTTCATATAGGCAGTTCATCTTTTATATCGTTCATATAG
GAACTTTTATTTTTTCACCGTAAAAAAATTAGGTAATATTGGAGTAGGAGGTAAAGTAATCCAGCTTTAGCAATATTTAGATGTTTTCTCTGAA
ATGTCAAAAAGCAAGGGTCCAAACTGTAGTGCAAGCATCTCCTCTGAAAGAATGAGATGTAGTGCCACCGTGTCCTCGAATTTAGCCTACGTTT
TAGCGGAGCTCACTCTCGGCTCAGATAATCTCTGGGGAAAAAACGGACAGATAGAGTGGTTAAACAGGAAACACTATTTTTTTTTTTCAAACGT
TTGAGAAAACTTGAAAACCATCTCTCGGTACTTTTGCAGTAATTTCCAGGAGTCAGAACATACAGTCCATTATTCTTCAGAGTAACCAACGCAC
AAGACATTTTGGCTTGGGACTTGATATCGCGAAATGACGTCAAAAAATTAAAAAAAAAAACGAAGCTCGCACATGCGCAATGAGGTACAGCTGC
TTTTTATTTTTTTTGTCTGTATCAGCTATTGGCTCCTATCCCCGCCTCTGGGATCCGGCCTGCGCCGCGGGGTCCTAGGGGGCCAGCAGCTGTAA
AGCGGTACGGGATTCCGCACCCTACTCCAGCAAGAAAGAGCCTGAAGCCCCTCCCCACCTTTCCCGGCCAGGGCGCTCTTCTACGTCCCGCGCG
CGGACAGCCGGGGCGAAGTAGGCCGACCGGCGCGGCCGCAGCGAGTTTTCTGGCAGCGCTAGCGCCGCGGGGCCTGGGTTCCCGGGTTCCGGTC
TCCGCCGGCTCCGGGCTCGCCCCCGCGAGTTGGCCGCACCGTTCCCCCGCCCGCGGGGCAGCCGCTCCTCCGGGAGGCTCCGGCAGGGACCTTC
GCCCCGGCCCCCGAGCGGCAGTGCGGCTCCAGCTGGAGGCCTGGCCCGGGAAGCAAAGTGAAAGGACAGAGGCCTCCTTCCTCGCCAGCCGCCC
GCCGCGCCTTTCCCAGCTCAGGCCGGCGGCCCGCGGCGCGGAGGGAGCGAAAGAGTCGGGGCCTGCCCCCTCCACCGCCCGCATCTCGGCCGCC
GCACCCGGGTCCGCCCCGGGAGGCCCCGCGGGAGGGAACCCCCGGCCCGCTGGGCGCTTCCGCACTGACGCCTTGGGGCCGCGCGCCCCCGCCC
TTTCCTCCCGCTACACCCGCTGGGCCCCGCCCGCGCTCCCGGCCTGCTCCCAGCGCCGCCTCCCCCGTTAGAAACTTCGCAGACACCGCGAAG
CTGCTCTTTGGAGTTGGAGAAACTTAGGAAGAATGGGAAAAGCCGAGGAAGTCGGGGAGGACCACGTTCTTCCCTTGCCCTCGGCCCGACACTC
CTGTCCACATTGGACGCGGCAGCCTGCCAGCGCCCAGGAGAGCCGACCCGGTGGACA

HUMAN SEQUENCE - mRNA

GAGAGGCAGAGATCGGGGCGAGACAATGGGGATGTGGGCGCGGGAGCCCCGTTCCGGCTTAGCAGCACCTCCCAGCCCCGCAGAATAAAACCGA
TCGCGCCCCCTCCGCGCGCGCCCTCCCCCGAGTGCGGAGCGGGAGGAGGCGGCGGCGGCCGAGGAGGAGGAGGAGGAGGCCCCGGAGGAGGAGG
CGTTGGAGGTCGAGGCGGAGGCGGAGGAGGAGGCCGAGGCGCCGGAGGAGGCCGAGGCGCCGGAGCAGGAGGAGGCCGGCCGGAGGCGGCA
TGAGACGAGCGTGGCGGCCGCGGCTGCTCGGGGCCGCGCTGGTTGCCCATTGACAGCGGCGTCTGCAGCTCGCTTCAAGATGGCCGCTTGGCTC
GCATTCATTTTCTGCTGAACGACTTTTAACTTTCATTGTCTTTTCCGCCCGCTTCGATCGCCTCGCGCCGGCTGCTCTTTCCGGGATTTTTTAT
CAAGCAGAAATGCATCGAACAACGAGAATCAAGATCACTGAGCTAAATCCCCACCTGATGTGTGTGCTTTGTGGAGGGTACTTCATTGATGCCA
CAACCATAATAGAATGTCTACATTCCTTCTGTAAAACTTGTATTGTTCGTTACCTGGAGACCAGCAAGTATTGTCCTATTTGTGATGTCCAAGT
TCACAAGACCAGACCACTACTGAATATAAGGTCAGATAAAACTCTCCAAGATATTGTATACAAATTAGTTCCAGGGCTTTTCAAAAATGAAATG
AAGAGAAGAAGGGATTTTTATGCAGCTCATCCTTCTGCTGATGCTGCCAATGGCTCTAATGAAGATAGAGGAGAGGTTGCAGATGAAGATAAGA
GAATTATAACTGATGATGAGATAATAAGCTTATCCATTGAATTCTTTGACCAGAACAGATTGGATCGGAAAGTAAACAAAGACAAAGAGAAATC
TAAGGAGGAGGTGAATGATAAAAGATACTTACGATGCCCAGCAGCAATGACTGTGATGCACTTAAGAAAGTTTCTCAGAAGTAAAATGGACATA
CCTAATACTTTCCAGATTGATGTCATGTATGAGGAGGAACCTTTAAAGGATTATTATACACTAATGGATATTGCCTACATTTATACCTGGAGAA
GGAATGGTCCACTTCCATTGAAATACAGAGTTCGACCTACTTGTAAAAGAATGAAGATCAGTCACCAGAGAGATGGACTGACAAATGCTGGAGA
ACTGGAAAGTGACTCTGGGAGTGACAAGGCCAACAGCCCAGCAGGAGGAGTTCCCTCCACCTCTTCTTGTTTGCCTAGCCCAGTACTCCAGTG
CAGTCTCCTCATCCACAGTTTCCTCACATTTCCAGTACTATGAATGGAACCAGCAACAGCCCCAGCGGTAACCACCAATCTTCTTTTGCCAATA
GACCTCGAAAATCATCAGTAAATGGGTCATCAGCAACTTCTTCTGGTTGATACCTGAGACTGTTAAGGAAAAAAATTTTAAACCCCTGATTTAT
ATAGATATCTTCAGCCATTACGACTTTCTAGAGCTAATACATGTGACTATCGTCCAATTTGCTTTCTTTTGTAGTGACATTAAATTTGGCTATA
AAAGATGGACTACATGTGATACTCCTGTCCGTCTTGGTTCAAAAGAAAGATTGTTGTTATAAAGAATTGGTTTCTTGGAAAGCAGGCAAGACTT
TTTCTCTGTGTTAGGAAAGATGGGAAATGGTTTCTGTAACCATTGTTTGGATTTGGAAGTACTCTGCAGTGGACATAAGCATTGGGCCATAGTT
TGTTAATCTCAACTAACGCCTACATTACATTCTCCTTGATCGTTCTTGTTATTACGCTGTTTTGTGAACCTGTAGAAAAACAAGTGCTTTTTAT

CTTGAAATTCAACCAACGGAAAGAATATGCATAGAATAATGCATTCTATGATGCCATGTCACTGTGAATAACGATTTCTTGCAGCTATTTAGCC
ATTTTGATTGCTGTTTGATTTATACTTCTCTGTTGCTACGCAAAACCGATCAAAGAAAAGTGAACTTCAGTTTTACAATCTGTATGCCTAAAAG
CGGGTACTACCGTTTATTTTACTGACTTGTTTAAATGATTCGCTTTTGTAAGAATCAGATGGCATTATGCTTGTTGTACAATGCCATATTGGTA
TATGACATAACAGGAAACAGTATTGTATGATATATCTATAAATGCTATAAAGAAATATTGTGTTTCATGCATTCAGAAATGATTGTTAAAATTC
TCCCAACTGGTTCGACCTTTGCAGATACCCATAACCTATGTTGAGCCTTGCTTACCAGCAAAGAATATTTTTAATGTGGATATCTAATTCTAAA
GTCTGTTCCATTAGAAGCAATTGGCACATCTTTCTATACTTTATATACTTTTCTCCAGTAATACATGTTTACTTTAAAAATTGTTGCAGTGAAG
AAAAACCTTTAACTGAGAAATATGGAAACCGTCTTAATTTTCCATTGGCTATGATGGAATTAATATTGTATTTTAAAAATGCATATTGATCACT
ATAATTCTAAAACAATTTTTTAAATAAACCAGCAGGTTGCTAAAAGAAGGCATTTTATCTAAAGTTATTTTAATAGGTGGTATAGCAGTAATTT
TAAATTTAAGAGTTGCTTTTACAGTTAACAATGGAATATGCCTTCTCTGCTATGTCTGAAAATAGAAGCTATTTATTATGAGCTTCTACAGGTA
TTTTTAAATAGAGCAAGCATGTTGAATTTAAAATATGAATAACCCCACCCAACAATTTTCAGTTTATTTTTTGCTTTGGTCGAACTTGGTGTGT
GTTCATCAGTTATTTGTGAGGGTGTTTATTCTATATGAATATTGTTTCATGTTTGTAGGGAAATTGTAGCTAAACATTTCATTGTCCCCAGTCT
GCAAAAGAAGCACAATTCTATTGCTTTGTCTTGCTTATAGTCATTAAATCATTACTTTTACATATATTGCTGTTACTTCTGCTTTCTTTAAAAA
TATAGTAAAGGATGTTTTATGAAGTCACAAGATACATATATTTTTATTTTGACCTAAATTTGTACAGTCCCATTGTAAGTGTTGTTTCTAATTA
TAGATGTAAAATGAAATTTCATTTGTAATTGGAAAAAATCCAATAAAAAGGATATTCATTTAGAAAATAGCTAAGATCTTTAATAAAAATTTGA
TATGAAA

HUMAN SEQUENCE - CODING
ATGCATCGAACAACGAGAATCAAGATCACTGAGCTAAATCCCCACCTGATGTGTGTGCTTTGTGGAGGGTACTTCATTGATGCCACAACCATAA
TAGAATGTCTACATTCCTTCTGTAAAACTTGTATTGTTCGTTACCTGGAGACCAGCAAGTATTGTCCTATTTGTGATGTCCAAGTTCACAAGAC
CAGACCACTACTGAATATAAGGTCAGATAAAACTCTCCAAGATATTGTATACAAATTAGTTCCAGGGCTTTTCAAAAATGAAATGAAGAGAAGA
AGGGATTTTTATGCAGCTCATCCTTCTGCTGATGCTGCCAATGGCTCTAATGAAGATAGAGGAGAGGTTGCAGATGAAGATAAGAGAATTATAA
CTGATGATGAGATAATAAGCTTATCCATTGAATTCTTTGACCAGAACAGATTGGATCGGAAAGTAAACAAAGACAAAGAGAAATCTAAGGAGGA
GGTGAATGATAAAAGATACTTACGATGCCCAGCAGCAATGACTGTGATGCACTTAAGAAAGTTTCTCAGAAGTAAAATGGACATACCTAATACT
TTCCAGATTGATGTCATGTATGAGGAGGAACCTTTAAAGGATTATTATACACTAATGGATATTGCCTACATTTATACCTGGAGAAGGAATGGTC
CACTTCCATTGAAATACAGAGTTCGACCTACTTGTAAAAGAATGAAGATCAGTCACCAGAGAGATGGACTGACAAATGCTGGAGAACTGGAAAG
TGACTCTGGGAGTGACAAGGCCAACAGCCCAGCAGGAGGAGTTCCCTCCACCTCTTCTTGTTTGCCTAGCCCCAGTACTCCAGTGCAGTCTCCT
CATCCACAGTTTCCTCACATTTCCAGTACTATGAATGGAACCAGCAACAGCCCCAGCGGTAACCACCAATCTTCTTTTGCCAATAGACCTCGAA
AATCATCAGTAAATGGGTCATCAGCAACTTCTTCTGGTTGA

TABLE 18

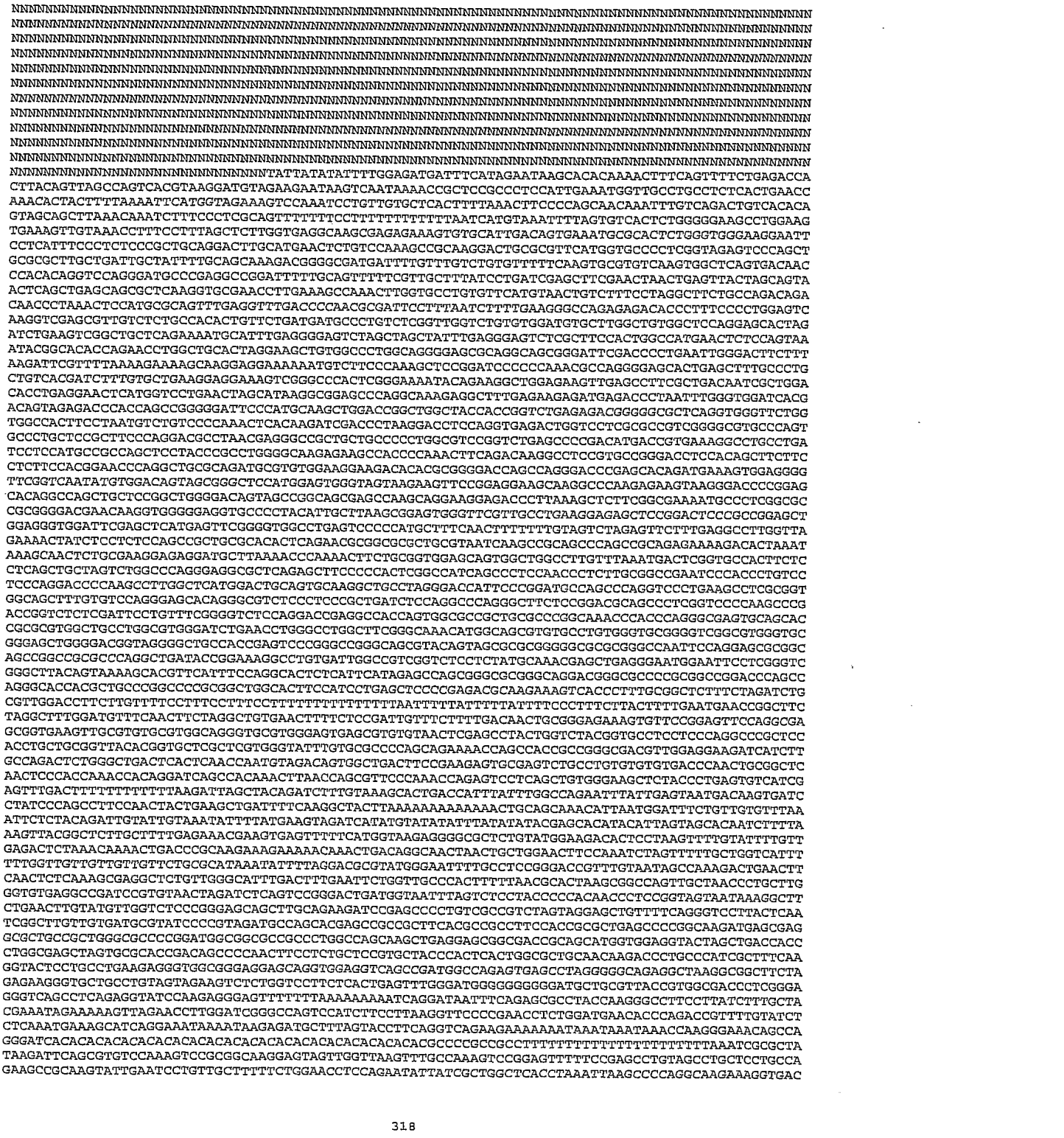
MOUSE NOMENCLATURE
ICSGNM Runx1
Celera mCG13559

HUMAN NOMENCLATURE
HGNC RUNX1
Celera hCG401175

MOUSE SEQUENCE - GENOMIC

NNNN

SAGRES DISCOVERY 02-18



AAGGTGTCTACCGACACCCAAAAAGGTCCAATCCAGCAGCTTTTCTGTTTGAGCAAGGGGCCTTGTAGACCCGGCAACTTCAGGTGGGCAGCTC
ACGTTGGTCAGGTCGCTTTTCACCCTGATCTTGCCCTAGCTTTGTGTTGCGTCTAAAACTTGGCTTTCAGAAGCTATATATAAACAACCTCGGG
CGGTTTAAAAAAAAAAAGAATAAGAAGAAGAAGAAGAAAGAAAGAACCACCCTACAACTCTGGCAGGGAGCTGGAGGAATTTAGATTCTCTTCT
TTGGTCTTCTCCTGAGGTGGGTTTTAAAAGGTACAGCTGAGAGCAAAAAGACTCTGTCAAGTTGTGTTTTTAAAAGGCTAAGAAGGCGGGACCC
GAGCTGAAAAGGGAAGCTGCTCTCCTTTTTCTTTTTTCTTTTTTTCAATTTAGCTGAATAATTGTCTCATTTAGGAGGGAGATTAATTTAATTT
AAGCTTTTCGTAGTTCCAGGCCTCAGCTGGATCTTGATCTAATTACAATGAATAGCGCTCACTTTTTGACAAGTGCTGTCCGGTTCCCCTTTTC
ATGCTAAAAAGACCATCCACATTAAAAAAAAAAATCATAGAAGTAGAATTTGCTGCTGACTCTGTCTGTAGAATTGCCACCTTTACCACTGTTG
TGAAAGCAACTTTTTAAAGGGGTAGAGGTGGGGTTGAGAGTCTGAAGGGGAGCCAGGCACTCGGGTTTTCCTTCCCTTCCAAGTATTGGGGAAT
CCGTCCCAATTCCTTTAGAAAAACAAATTTAGCTGGTGTTGTCTTCTGTTTACCCTGAGAGGGACCTATCTGGGCTCAGCCCTAAGGTCACTTT
CAGAGAACAGAGAGAAATCAAACTTATTGTAGTCAAGGAAAGGGCCAGTTAAGGTAGATCTCCCTGCCAGCCTAGCTAAAGGGACTGTGGCTTC
CTTGAGGGAAGAAATTGGGTCTTTTCTGAGCTTTGTTGCTGTGGTTGTTGTTGTTGTTATTGTTGTGGTTGTGGTTGTTCTTCTTCGTCTTAGT
CTACCAGGGAATCCCAGTTTATCAAGACACTAAATAACTGATTTTTAAAATGGTCTTCAGGAGTTGACGTGGTCCCGTCTTGAGCTACCACATG
GAAATGTTTATTTTTCTTTTCAAAAGAATTAAAGACCTTACACATTGCCTTTACAAGCCACGAAAAATAATTTTTTCCTTTTAACAAAAATAAT
CACTGCCGTAGAGATTCCCCTTTACAAATGATTTTGGAAAGACCTCAGTGTGTTTCCCTGAGTGACAGCCAGGAGCCATGACAAAGGTCACGGT
GGACAGGGAAGTTGAAAAATCAGACCTCTGGATTAATATCTGTCACCACCTATGCTGTCCCACAGAGGGACGGCTGCTTCAAGGAGCTCACCAG
TCAGTAGATAGAATTTGCGGAGGGAAAGGAGATTTAAAGGCTGGGTTTAAGAGGAAGCTGGACTTGGAAACAGACCATCTTCCTTGCTGTATTT
TCTATGGGCCCTGGCCCCTCTGTGTGCCAGCTCCTACCAAACACACAGAAGCAGTTTCTACCAACAGTCTTTACATTTACATGTGAATTAAGAT
TCCGGAATCTCTTTAGGGGTTAACCCTGCAGGACTTATCCTATTCCCTGCTGCCGCCACCACCCCAGATAAAAATCGGATGATGTGAAGCCCT
GTTCAGATCACTTGTAGAAGAGCATCTCCCGGAACCTTCCGGAATCTTGTTAAGTCCTCCGCTTTAATCTTCAGAATTATCAGGAGACTTACAA
TCATGAAGTCCCTTGAAAATTGATTAAAATTATGCTAATTAGTCCTCCCATCCTCCACCCCTCTTTCCACCTATAGACTGTTTATCTCAGCATA
GAAGAAACACTTAATTTCACTGCCGAGAAACTGGGAAATCTGCTCCATACTACACAATATTTGCAGATACCGTCTACAAAGTTGTCTAGGTGAC
TTGCAGTAGATTTTATAATACTGTAATAAAAGAATTTGTTTAGCCCCTGGTACACCAGAGCACAAAAATATAAACATACCTTTATCAGGGAAGT
TCAAAGACCATGGGTGCTGATGGAATATGCTTTCCAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAAATTCTGGCCGGAA
GACCATGATCCCTAGCTATGTGTTAAATGTCATCTCAGATAAATTCTACGTTCCATTCCACAGCCTCTTTGAAACTCTGGAAGATTAGAGAATT
TGCAGTAACTAAGTTGTTGCTTTAATTTCAACCTGTAAAATTGTTGGAAAATGCCAGTTTCAAACTAAGAATAGGCTAGCCAAGAACAGTGCTG
GGAAGTCCTCAGAGCAGAGAAGACAGCTGACATTTGGCCCAACTTCCTGATACTTGAAGAACAGGAGAAGTTCAACAAAATATGAGCTATCTTG
GGCCAGCAAGTCCCTTCTTGTCTGTTTGGTCTGTACTAAATGTAAATGTTTCTCTTGCCTTACCTATTGTTTATAGCTTTTTACTGCAGACACT
GCTTTGTATTTCTGTTTGAAGTTTGATTTCTTTTCATTATTTCTATATCATCTCTCAGTGACAAAAATCTATATCAAATTGGAAGACATCTTAG
CTTTAAATAAAACAACAACAGTGCTAGTAACCTAGCCCTAAGTGTGCTTGTCATTGTTTTAAGTACAGAGTTAAATGTCCCTGGATTTAATTTT
GTCTCCTTCCCTTCTCCATCAAAACTCTTTGGAGATAAATCAAAAAGCCCAAGAAGTAGTAACCGAGCCACTGGATGCCCCCTTCCTGCTTCCT
TTAGAAATGGGGGTGATGCAATTTAAACTCCTAATTTTTAGACTTTTGAATTCCAACATCAACAAGCTTTTCTTGGCCACCATGGTCCTCTTGT
GCTGTAGACGAGGGGGCCTCATGGGTTTGACCTCTTGGTAATGAGGGATCCCTGGAACAACCATGGTAAACTGAGGCACGGTGGGGCACAGTGG
GAATTCATGACTTGGCGTGCCTTTGGGCGCTCTGGAACAGGATTTATTCATTTTGGCCTCTTAGGAGATATGGGCCCCAACAGTCAGGCATTCA
GACTGGAAGCCCGGATGTCGATTCAGTGCCCTCGGAGCCCAGTGGGTGTTGAGATGAACTGGAAAGGCCTAGGTCTCCACAGGGAGATGAAGGC
AAGGAAGTGAAGCATTTTCACAGAGGGTATCTCATCCTTGTGAGCAAACTGTGCAGAGGGAAATGAAAACATTGATGAGAGAGATGGGGGGAAA
AATAGACAGAAAACAGAATTTACAGGAGTAACATTTTGTAGGAATAGAAAGAAAAGATAATAATGATCAATTAACCGAGCAGGGGAATTTATTT
CAATGATGTTCTTTGAAACAAAAGAGTTGTCTTATTACCACTCCTAATTAAAGGCATCAAACATTTGTGGTGGGATAGAAACATCTAATTACAT
ATTGCTTGGAGAATAAGCGTTTTTAAAATCTCCTTTGTAGAAAACACGTCCAACAGTTGACATGAAAGGGTTAAAAGCAGAGGCAAGGGGCCGC
AGGGTCCTTGTTTCACAAAGCAAGTGAGTGAAAACAGATAAAAATTAAAGAGATAGCAAGATACATACCCAGTCCTAGAGAGCAGAGTGTCCTA
GTGATGTCCTAGGGGTCCCCTCTGTCCATTTCTCAGGGTAGCTGGGGCAATTTCCTGACATAGGTTCTTTAGAACGCAGGAGATAGAGCAGCCA
CAATGAATAAAATCGCCCAGATAGCCATCTGCAGGACATCGAACAGCGGGAAGGAGACATGACTAAGCACCCAGTAAGAATGGCGAGCAGAGAG
ACCAGACCTTGATACCAGATTAGCAGATCTGCGGCGGGGTTATTTCATACAGAATGAGAAATATCCCTCTGATAGATTGTGAAGCAGCCAGTGT
ACAAAAACTGAGAAAAACAAAGTGGCAGTAGAAGAAGAGATGTTTCTGCTGCCATCCCGGGAAAACCTGCCCGAGGATGACCACACAACTGAGA
TAAATAACAGACATCTCACCGAAGACTGACAGCATGTGTCTGGAATGGTTGGAACAAACTGAACTCTCGGGGCATGGCGATTTGAAATCCTGTG
GTCGCTTTGAATATGGAACAAGGCAAACATAACCGATATCAAGTCAAAACTGGAAACTTTAGCTGAAGTCAAAGAACGGCAGGCTTGGTGGTGC
ACACCTGTAAATCCTGACCTCGAAGGCTAAGAGGACTGGGAGTTCAAGGCCATTCTAGGCTCCATCGTGAAACCATAGCTCTCTAAAACAAAAC
CAAAAGGACCAAAGAGCAGCCAAGCAGTGGGTAATGTTTTGTGAAGCACTTTCAAGGCTTCAGAGTGTTTTAATCTGAAATTACTACTTTTTTT
GGTTTTCTGGATATAAAGTAAGCTCATCTACAAGTTGTCTTTCCAAATATACTAAGCCCTTACCTTTTCAGTGGCAGTAACGGAATCCCCCAGA
ACACAGTTCATACAGATGCCAGACAGCAGTCTGGTTCTACCTTTGATTTGAGGAGAATGACCACACTGGAGCACCCGTAGTCACTGAGGTCATC
CCGCTTGTAATTAATAATAAAGAAGTGGCCCGTGTCTAGTTTTTCTCCTTGGGTGCAAGAGTTTGCTGCTGGTGAGTGTCCAAGAGCGGCAGGA
AGAGGTGCCAGAGATTAGCTGCAGACAGACAGTTTAAGTATTTCCGGGTCATCCTTGGAAGCTGCACACTGGGTGGCACACACACCTCTAACCC
CAGCACTAGCAGAGAAGAGAGGAAGATCGGGGGTTCAAGATCACTCAAGGGTTCAAGATACAGTGAGGCGGGGGCCAGCCTGGGCTATCTGAGA
CCCTGCCTCAAACAACAACAACAACCAGTAACAAATTTAGAGCAGAACTAAATTTAAATACTTTCATCCAGGTTTCCTTAGGTGCACCAAG
AAGGGGCCAAGCAAGTAAAAGGTGGGGCCAGAGAGATGGCTCAGTGGTTACCAACATGATTCATGATACAGAGAATGGGTCTGATTCCTAGAAC
CTATGTCAGGTGGCTCACATCTGCCTACAACTCCAGTCCCAGGGTAATTTGCTCCTCTGGCCTTCATGGCCTGCTCTCAAGAAAATGCCCACCC
ACATACACTTAATTCAAAATGCCAAGATAAATCTTTTTTTTGAAGTGGATTAGATCACAAATCTACAAACACAAGACTTTCTGTCTTTCGAATAT
GAGGTCTTAAGAGATAACTGTACCAATGAGAAACAGTAGTAGCTTTTCAGAATTCCTGTCCCCGCTTGTCTTGTTCCCACTGTGTCCTGTGACC
TTCTGTGGCTTTTCTCCTTTAATCTCTGTGTCTTCCTTATTTGAAAATCCACACCTGTCTCTGCATCGCAGGACTCACAGCAAGCTGTTTCTGT
CACGATGATCAAATGATGACGGACGGCTCTTCTATAAACTAGAAAGTGTCACCATTAAGCATTAAGTTTAACATCAGCGCAATTGCCAGACAAA
TGACACAGCCAGGTGCCTGTGACAGCACTGATGTCTGCATTTGTCCCTTGGTTGACGTCTAGGTGGTGGCACTGGGGGACGTCCCGGATGGCAC
TCTGGTCACCGTCATGGCAGGCAACGATGAAAACTACTCGGCAGAACTGAGAAATGCTACCGCGGCCATGAAGAACCAGGTAGCGAGATTCAAC
GACCTCAGGTTTGTCGGGCGGAGCGGTAGAGGTGCGTATCTGTCACGGATGGGTGTGAAATTCGAACCCGGGTTTTCCAAATAGTAGCCGTTTC
TTATTATTGATGCAGCATAATGATATTTATTTAAGGTAATGTTTATTTGATACCTAACAACTGGATATTATCACGTTTTGATGACTAAATTGGC
TTACAACTGACTTGGAACGCACAGCGTGTGATGGACTTGGAACGCACAGTGTGTGATGCGTGAATTGTGAAGTTCAATAAAACATTCCACCGTT
TTCCTAAACTGAGATAAGTGAGCGAACCACCCCAGAATGAGGACTGAGATTGTATAATGGGTGGTCACTATGGGATAATCAAAGCCATGAGCCT
TTATCATATGGTACTTACGCTCCCTCGAACATGCGACAGGGTTTCAGTTGGTCACATCAATAATTTTGGGGGAACCCTTATTGATATAGTTTTA
AGTAAGCTTATATTCCTAGGATTAAAAAAAATGGACTCTTACTGGTACATCTGAGAGCAGTGTGACCTTCACTATGCATTCTTTGTGTATGGTT
TGGTGGGAGAAGCCAGGCTCACTTAACATTTAGATACTGCTCATGTGAGAGACCAAATTATTTCCTTAGCCCAGCTGGACATGCAGTTATTATG
CCTCACCTTTAACCAGTTATTAAACTATTGGAGTAGAAAGAGGACCTGCTCTCACTGTAGGCTTGTCTGCTTTCCAGTTATCTTCCGAGGTATG
TGTTCTCTCTTCATTTCAAGGAGCTACGGCACATTTTACAAACATCAGCAGGCCGTGTGAGAGTCTAGGAGCAAGGTCTTCGCTTAAACCCTCA
CCTTTGTAATGTAGAATTGAACGATCTTAGCCGTAAATGATATCTCTAGCTTAATCAAAGCGGAATGACATATATCTAAGTCATACGATCAGTT
CTCAGAGAGGGGAAGACACAGGGAGGGGCTAGTCGTGTCCATCGCTCAGTGGTAGAGCCTTCCGTGTGAAAGGCCTTTAGTTTGATCCCCAGCA
CCAAGCAAGCAAAACAAAGCAGGTAGACTGGCAACAGACAAGAAATGTCAAGCAAAGGGATTGTTACTACTGATTCTGAAGGCGTTCAGAACAG

TGGAAATTCCGTGTTCATAGTGGGAAAGAGGAGAGAGTTGAGAGTGTGAGCCTGGACTTCTGTGTTTGCTCCCCTACCCCTGCCCCCAGATGCC
CAGGGCATTTTCAGAATGATGTCACAGCTGGAGAAAAAAATGTAGAGAACATATAATGTTATTGAAAATATGTGTTCGCGCTACTGTGCTAATA
ATAGGGTGATTGAAAGAAGAGTCTACCCACTTATCGAAGGCCTGGGAGAGCCTGCGCCCTTAAGTGGATCCACTTGGAATATTGAAAGTCTGCC
TTTCAGCAAATGGAATTCGCATTACGGTTCAGAGGCATGTGTTTAGAAAATATCAGGGAGGTTTCAGATGAGTCGCTGGCCGAGCGGGTGGGAA
GCCAAGAAGAAAGGAAGACCCCAACAGCCAGGCCCACGCCCACCTGCCTAGCAATAAGCTTAGTTCGTAGGATCTAGCTGGGTTGCCAGAGAAC
ATGTCCCCATACTCCTAGGCGTCTAAGTGGGTCTTTTTGTCATGTTTGGCTATGGAAGTTTCGAAGACTATTTAATGGACTATTCCAGTGACAT
TTTCCCGTAGGGAGTTGCATGGTGGCTTTGTGACGACCGTGGCAGCCAGTTGATGATGATCAAGAGTGGGGTTCTGAAAGCAGCGTGCCTGCCT
ACCTTGGTGGTGCTATGTGCTGGTCGCCTATCCCTCTTTGGCCATTTCTGTTTTGAGTGGGTGACTAAGAGGTGCTGGTGTTTACCTGAGGAAC
AATGGACTGTTTCCCCAAGGCGTGGAGTGTTTGCACTCTGCTGTCTGATTCGTGCCAGTGTGCACTTGAGTTTGCATAACCGCCCCCCCCCCCC
AGGAAAACAGCAGCACCCAAGGCGAGGCTGGTTTCCCATACCCTGGAATGAAAAAAATTAATCAGATGCAAAAAATTGGATTATATTTGACTTG
AGCAGGCTCTCCTCTTCATGAGGGGTAACGAGTAATTAAAACTCAGGAGGACTAATTGACCACTTGACCCAGTTATGGTTTCTATATATAATGT
TGGTCTTGAGTTTTTATGGTTTAAATTTTTCATGTCAATACCAAGACAAGTGAGCTGTCGGTGTAATAAACATGGTTTTATCTCATAATTTCAC
TTTGTAGTCACAAAATATGATTTTATTTTGATTTTTCATGCCATCAAAGCCTGCTGGATATTCCCCAGCCCAGCCCACCCCACCCTCTCTCACT
CTCTTTCTCTCCTTCTCTCTCTTGCGATTTGCTTCCCATTAGAAACTGAAGAAATGACTCTCACTAATTCTCACAATTAGCCCTAATCTCCCTGGC
TGAACCTTATCCTTTAAAAGTTGCATTATGCTTTATGGAACGATCTTAAGACCCGACTATTTCATTTTTCATTTTTTTAAATGTGCCTAAAAAT
ATGCCCTCAGAGGCCACACACTGGCCCAGAAGGTCCTGGCCTTCCAACACATCCACATTCCGTAAGGTCAGTTTGGGATTCTGTCAGTGATGGC
TTCTCGGAGGGGCCTGGGTACTCCGTGTGGGATAAAGGGTAGAGATGACATGAATGGACACCCTCCTTTCTTGTTACCAGATGCCAGATTTTGA
GGATTGTGACCCTCACAGAAACTGCCAGTTAACCAAGGAAGGATTTTTCTCTGTTCCAAGAAATGGATCTGTCTGGGAGCTGGCTGATGCTCAG
CTCTAACCTCAGGTTCAGCCTGTGACTGGGAAAACCTGCCTGTCTGGCTTCTAAGCCCTGGCTGCCTGCTGGCCCCTGTGAAAACCTGGTGAAG
GCAGAGGAAGCTCCTGCCTGCTTCCTCCATGACCATGGCTTCCGCCTGCTCTCCTTTAGATCAGCTCGGGTGTATCTCCTCATAGGAATGTTTC
TCCCTTTGATTCCCAATCTGCATGTTGATTATCTGAGGGGCTCTACAAAGGAAGGAGAGATAGCTGCTCCCGGTTGGGAGTTTAGGGTGGGGTG
AAAATCAGAGGGGATCTTGGGAGACCCTCTCTGAAGTCCAGAGATTAGGAGGGCGCTCAGGAGGCTGCCCAGAACAATGCATGCTTTAGTCACA
GGGCCTGAGATTATCAGTCATCTCCGAGTTCAGGGTCAAAAAGAGATCTCTTTCATGAGGGAGGTCAATTAGCTGAGCCTTTTTTCTCGGTCTGT
AACTTGCTCCCATGAGCTGGGGTGTGAGGTGACAAACATTTAAGAAACCTTGGCAGTGACATCTGCAAACACCCATTTCCTGCTGGGGTGTTTC
ACCAGCTGCCGAAGACTTGATCCATCAGTGAACTTAGCTTTAACGATGCCTGTCACAGGGAAACAGATCACGCAACTACCAAACATGACAACAG
CCGTGTGGCAAATGTGAGGAGGGAGACCAGAGCCAATGCTCACTTGTTCCAAGTTGGTGATTCTTTAAATCTCTGGAAGCTGTCATAGATAATT
CTGAAAATCCCCCCAAAGATTTCCTAAGGTCCAAAAAAAAAAAAATGCACACGGGCCCAGATTTCTATAGTGCAGCTTAGTTTCGGGATTGTTTA
TGGATCTTCCTGGGACGTGCTGATACTAAAACGTGCGAATCTGGAACGTGTCTTGGACTGCTGAGGGTCAAGTCTTAAACACA
GCCCATACTCAGAAGATAAATATACATGAGGACCCACAAGGTTGACATTTTCCTGTGCTTCTCTGTTGTGTGGATGGCGGTGATATCTGTAGAC
TCAGGACCTGGTTGGTAGAGGGTAGGAAGGTATAGCAATTTAAAAGGCCAGGGCAGGCATCCGGTGGACCACTAGGCATATGGCTGGATGTAAT
CGTCTGTGTGGGAGCGAAGCCACCATTGGCAGAGCAGTCTCTTCCCTAGTGACTGTCAGTCCTGGCTGCAGTGACATGCACGCACATCCCCAGA
AGACCAGTAGTCTGCTGCTTGCCAGGAACAGGTCTCCTTTCTTAGTGGAATCTGCTGTTTACGCTGACATCCTGGCAGCTCAGAACTTGCCCAG
TTTGTGCTTTTCTGAAGTGAAATTCCTTCCTGGANNNNNNNNNNNNNNNNNNNNNNNNNNNNAATATTTATCCCGTCACAGTCTGGGCTCCTTC
ATATTTGTGTAGTGTCGGTTTCTTTAAGCATTTCCATTCCGCTTTTACGTGATTTGGGGTACAGTGTGGGATGTTGTCTCTCTCGGCTGAGCGG
AAGGCTGTGGTGGAGACGCGTTGCGGGAAGGATAAACTGTTCTGGCGCTCCAAAAAGGGAGGGCCGCCTTGGTGTGCGGCTTTCCGGGAGAGT
TGGTCTTAGTGACTCATGATGTTATCACAGGATCCATATCATTCTCTATTTGATCACAAATTCATAGAGGAAGAAGAAATCCAACTGCCACCCC
TAGGGATGTTTCTCGGAGAGCAGTCCATGTAAGCACTAGAAACTGATTGTTGGGTCTCCTAGGGAGAACAAGAAGAAGGAAAAGGTGTGCGCTA
TGTTAAAATCCAATGTCCACTTTTCTTCCATTTTCTTTCTGTTTTTTTTTTGGTTCACGGTTTGTAATAGCGCATGTAGTAAAATCTGTTTTCT
TCGGATTTAACTACAAACAAACAAAAATAAAATGGTACAAAACAAAAATAAAAACTAAGCAAAAGCCAACAAAACTAAGGGAAGCCTGGGCCCC
TCAGAGAACAAGCCCCGGCCGGTCCTAGCAAACACTTCCTTTCCACAGCAGGCCAACAAGCTTCACCCCAGAACCAACAGCACTGACTCAGAAT
CTGCCTGTAAGGATCAGGTTTCCCCTTCTCTTTATTCCACAATAAGAGGGTTAGCAACACTTTCCTCAAGCAAGCTTCTCCCTGTCCAGCTTAA
AGCGTGGGGTGGCCGGAGCCTCAGCAGGGACCAGGAGCTGCCCGCTGGACGCTGTCCCTGATGGAAACTGTAGTGTCATGCTCTACCCCAGCGG
GCTTTACAAAGTGCCAGGCATGGCGGCAGGTAGCTTTTTGTAGCTGAGGTTATTTGCATGCGCAGGATTTTTCCCATGTGGGGCAGAAGCAGCC
CTCCAGCCCTCCTATGGAGCCCCCTCCATCCCTTCCCCAGCAGCTAGGCTTTCCTTATGAGCCAGCCCTTTTTGGTCAGGACTAAAGACTATCA
ATCAGAAAGTACCTGTGAGAGGAATAATGGTTGAGTGACTTTTAGAATTTCCTGTTTGACAGCATCATAGACATAAACAGTGATCCAGCTAGCC
ACTCAGTGAGAATAGTTCTAACAAATCAACCTGCTAGCTCGCTCTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTCT
TCTTCTTCTTCTTCTTCTTCTTCTTCTCCTTCTTCTTCTCCCTCCTCCTCCTCCTTCTCCTCTTCCTCCCCCTTCTCTTCCTCCTCTTCTTCCT
TCTCTTCCTCCTCTTCCTCCTTCTCTTCCTCCTCCTCTTCCTCTTCCTCTTCCTCTTCTTCACCTTCTTTTTGGTACTGGAAGTAGGCTAG
TTATAGAAGAATATATTCTGTTTCAGGATTTTTTTTTTTAAAGAAAAATTACTTGTTGAAGCAGAGAGATGGTGTAATGTCTGGTGCGTGTCTCC
TCCCTGCTGTTGATTATAAAACAAGCTGAGAACAGTAGGGGGTGTTTAAGAATGACTGCGGAGTCACGCTCGATGTCTATGGAAGGTCGGTCCA
GAAACCCCCTCCATTCAATTCAGACATCTGCAGCTGCTCCAGCCACTTATACAAAATGGCACAGCCTTAGTAACTAACCCTCAGGACACCCTCT
AACATAATTTACATCACACCTAGATTGCTTATGAATCTAGCTAACAGAATATCGCTTGCACATTAATAGTTGCTGTGGTATTGTTTAGGGAATG
ATAATAAAAAAAAAATAAAAATAAAAGAAGTCCACATATATGTTCAGTACAAATGGATTTCCCCACAGATATTTGTGATTGCAACTTCTTGAACC
CAGGGGACCCATGGACATAGGACCGACTCATGGAGTGGTGTGCTGTTTGTAGACTCTGTTGGGCCGTTAGGCAGAGGAGCCTCTACTTTCATTG
AGAGAGTTCTTGGACTAAAATGTTCTTGAAGCCCCAGTGCACATGAAGCCCCAGTCAAGCAATTAACAAGAATGGGTAAGCAAGCTGTCTGTGA
AAATGTCCCAGCGTGCCAGCCACCTATCAGGGAGCGGGTGGGTAACGGTAATCTAGCTGATCACTTCATGCCTGTGTTTGTAAACATGCACTAG
TGCGTTTCAGGCAACCCCTCTATGTCCTCCGTGCCTGGCTCTGCAACGAATCTCACATCCACACATGTTTGGGGCTGTGTGGAGGGTGGAGCTA
ACAGTACCGTCCAGTTTTACTCTGCACTGCGTTGGGGTTCCAGCTTACAGCCCAGCCTCTATTAGCCTATATTGGACAGTCTATCCAGTTTGGG
AACTCTATTTGCTATGCCCAGACACTCTCCAGCCAGCGAGCCAGGCTACATGGGTCCCCACGAGTGTACAGAAATCCCAGTGGTCTCCTGTGAC
AGGCTCAGGCTGCAGTGCTGGAGCCCCAGCACGTTGCCTCTGGCTTCCTAAGCCAAGGAGGAAACACTCAGGAGCCACGCAAACTCCACGCCTC
TCAGAGAAGATGGAAGTGAATTGGAGGCAAATTATCTGACTCATAGTACTCCATGCTTTTAGAAACTTAAGACCCTCTTCATGAACACATGGAC
CCAAAGGTACCACCTCCCCAACACCTGATCCCAGGAGGCTCAGGTCCAGAGAATGGGAGGGCTGGCCAGTGTCCTCTAGAGAACTGTGTGCCTC
TAATCCAGTCACTTTATGCAAAGGAAGGAGTTGTATGGAATTCATCCGCATCCGTATCGGATCTTTGTGGATAAGACAAGAAGGGAGGGACTGT
CTGGAGGTAGAAAGGACTCTTGTTTGATTACAGTATTGGCTGTGGGTCTTCACAGACATTTTTATTTCTATTTGAGATGTCTGTATGGAATATA
TTCAGCCTCTATCAGTTTCTGCCTCTTATTAATGAGAAGCTATCTGAGTCTGGATCATTCATAAGGCTCTTTGTCTTTTTAAACGATGTCTGCA
GAACCTGCATGCAGTAAGGGCCCCATTTTCATCCTTGTATTTAAACCACCCAAGAGGCAGGTCCCCTTCCCTCTTCTTTCCTAGGTCAGTGATT
GATCAGTTTTGATGAGCCTCTTGCTTAGTTTGTCTCTGCTGGGATGAGTTTTGACCCCTAAGGGACATTTAATGAGGTCTGCAGAATGTTTTGA
TTGTCACCCACGGAGCCTGAGGGGTGGTCCCTACTATCCAGTGGATAAGGCCCAAGATCTGCTAAACACCCTATTATGTGCAGAATGGCCCCTC
CCACCCCCAACAAAGAACAATTCTAAAACTTTAATCGTGCCAGGACTGGAGAAAGCCGGACTTGACCCAACACTTCCAGAAGTTGTTAGATATC
TATCTCCCTTGCTCCTCCTCCTTCCACTCTTTTCCTTCCTTGAAAAAAAATCCGCGAAAATTTTAATTCATGGTATTCACACTGAGTCAAAGA
GGAAACAGACAGGAGGCTCAGAAGTTCAAGATCACCCTTGGCTTTGTGTTGAGTTCCAGGCCAGCCTGGCGTATAAGAAACTGTGTGTAAAAAA
CAAACAAACAAACAAACAAAAAGAAATAGTAAATGAATAAGAACGTGTCCAGAAGCCCAGACGAATGAGCTTTCGTGATATCTCCCCCCCCCCC
CCAGAGCTGCCCAGTGGTACCCTCAGTGGACAATTCCTGCCTGGCAGGTAGGCACTCACTCACTCCTTAGATCCCTGCTTAAATGTTCAACTCT

AGGCGCTTAGCACTGTTTAACGGCTCTAGGCTGTAGACCTTACCATCTTCTTAACAGAGAGCAGAGAGGATGTCTCCCATTGACACTTAAGAGC
ACCCATTTCCTTGAGGATGCCTTTCCATCAGGGGAAAATTGGAGAATGCTTGTGTCATGCTTTGTTGAATGTTTGACAGCAACCCCCACCTTCC
TCATGGTGACAATCTGAAATACCTGCAGACTCTATCAACCCTCCTCGCCTGAGGGTGGAGAACTTCAGAACAACTTCCCTCTGTGCCTGTCGGC
TCTCTGCCGCTTTTGCCCAAGGGAGGAGAAGGAGGAGCCTTGAGGATCGATTTCAGAGATAAACGCTGGATACTGGTTAGGTTATGCCTTCCCT
GGGTCAGAACAAGCTGGCTCAAGTCTCCATGCTGGGTCAGGTCTCAGCAGGGACAGTATCCCTAGAGGAGACAGGGACATTGGCAGGGTCACTG
ATAGACCTGTTTCTTGTGGCTCCTTGTGGATTTCTGAGAGAGAAAGCCTCCTAGCCTACCCTTCCTGCCCAACCAGCCTCCTGGAGCTCTGAGG
GCCCGAAAGGGTTATATTCAGCGGGCACTGAGATTTTAGATTAGCAATGGGAGAGAGGAAATTAAATATGGACTGTAATATGAAGCACTGTTTT
TCATGGGAAAAGAAGTTCTCCCAACTTAGCCAGTCCAACTCTTTTGTCCAACCGTTAATAGCATGCAAATATTTATGAATCATACATGCCCCTT
CTAATTCCCGTGTGTATTTTCACAATAAACAGTGCGTTTCGACAATGGGGCAGAATAATCCCTTTGTCCCGTAGCAGAGCTGTGCAGGCTGGCA
CCCGGCAGCATCGCATTCTTCCCGAGTGGTAACTGCTGTCTCCACCCAAGCTTAGGGGAGGTTTATGTCTGTGTGACCCGGGTGGACGGGCTCT
GGACGGTCCTCCAGGCAGTGCTCCAGGCCACCCCGTGTTACTAGAAGCTATTCTTATCTCATTGTTTTTAATAATTTTCAAGGGAGTGCTCACA
CTTGGGTCTTCTCTGGTGGACACAGAGAGTTGATGTGCACTGAGGTTTGCTGCCACCTCTTGCTGCACCGTTGACTTCTATTCTGGCCAAATTC
CTGGACTCCGGGTCACACTAAAGCCACCTGATTCCTCTGATTCATCGCAATTCCACAGAAACACGTATCTCTTCAGAATGATTCGGCGGGTCTT
TGGAAGGCGGTGTGAGGGAGGCTGAGAAGTGCTCAGGACGCCCTGAGATGTGTGAGCCTTGGTTTTTCCTCCTGTGTAGTGGGCATGGTGGTGC
CTTTCACTCAGGCCTCACAGGGTTGTTGTTAATAATAATAGCAATAATAATAATAATAATAATAATAATAATAGCAAGATGGTGTACTTAT
GAGGAGACTTAGGAGACGAGGCATGGCGGCTCTTTCTACTGAAGGGTGGGATTGTTGGAAGAGAAGGGAGGAGATGACAGGAAGTTAGGGAAGG
AGGTGCCCCTCCTACTGCCTCTCATCCACGACAGGGGACTTTTATCCCTTTGTTCTGCTAAGGACCTGATAAAACGGAGGCGTCACAATTACTC
ATAAATCAATGCATGCATAACAGTAATAAACAACTAATCATTTTCAGGGCCCAGTCTGGGCCCTGTGTGTTGTGCATATGCAACCTACCTCCCT
TCCCTGTGTCTGTTTGCTTACCCCGTCTCCTAAAGGCATTTAGGGAGAGCATTTCATTCATTCATTCATTCATTCACTCATTCATTCTTC
TCTTTTGCTTTTTTGGAAACAGAGTGAACACTGTTCAGCCCAGGCTGGCCTGGAATTCACAGTGATCCTCCTGCCTCAGCTTGCCATGTCCCCG
TTCATCTATTTCTTGATTCATCATCGCACATCTGCTGTGCACCTATTGTGTCGGCTAGCACTAGAGGACCGTGAGTCCGCTGAAGAGGCGTTCT
CAAGGTCAAGGGTTCATGAGGGCGACAGTGAAGCAGGCCTTCACTGTTCTGTGTAGACGTCTCTGTGACAAAGGACAGGTGCAACGGGGGCAA
ATACAAGTTGTGTGTAACCTAGCGAAGGGCAGATGGTTTCCCCGGGCAACTCGTCGTCTCTCTTGAAACCTATGGGAGGCAACAGAGTGTGCAT
TTGGCGGGGGTGTGGGGGCGCGACTTGTCTGTCGAGGAACCAAGAGATACAAGGGTGGCCTGCTCTGGAGGCCTTGGCATACAGGGGGCTGAGG
ATGCTTTAAGGGCCTTGACATCCATCCTGGGCACTAGGTCTGATGCCAGTGACCTGGCGAGCAGCCAACAGATCCTTGGCAGAGACGTACATCG
ACACACAGGTGTGGTGCACAAACTTAGACTGCAGTGTGCAGAGTAGGGAACTTGTTTGGGGGTTCTGGGGTGCTCAGAGACCAGTCTTACTAGT
GTCTCCTCTCAGGCAGCCTCAGATCTGTGCATGGAGAGCTCGCAAATAGCCCCATTTAGCATTAGCGCCCACCTCAGGCTGGTGTCCAGCTTTC
CTCTCTTCCATTAGCATCCAGTCCACCTGCCCTGCCTCCTTTCAGAGCAGCAAAGGTTCAAGAAGATGCTGAGCAGGAACTGCAGACCCCAACA
CTCCCCTCCCTCCTGAATGCCCACACCCATACCCAGACTCCCTGCTGCTCCTGCCCAGGTTGCTGTGGGCATGATGCTCTAGGCCACAGGTACA
GGCGGGGGATTAGTCAGGCAGCCTTGGGAAGCCACCTTAGGCTTTTTCCCTGCATGGCCCCTACACAAGGCAGATAGACCAGCACAGCCTGGGG
AATCTGGGCATCTATCAACGAAAGAAGTCGCTGAGTGGAAGGACAGAAGAGCACGCGGCCTTAATCTAAAGAGACTCTTGTGCAAGTCTGGGCT
AAAAACAGGCTAGTCATCTGAGATAATGTGGGGCTAGGATTCCAAGTGAGTAAGACAGGAGAGAACATGCAGCGTGAAGAAAGAAAGCAGAGTC
CCTGGGACTCTCTTGGTGCTTTGGTGGGGTGGGCAAGCGATATAAGTGTCTGATCCAATTTTAGGATGTTTCCCAAGATGGCAGAATCTATAGA
CATCTCCTTACCTTATTAAAATGGGCACAGGTATAGCATTTGTGTGCAATCCCCTCTCTCCTCTCTGTATCTAGTTTGTGTCATCTCAGAA
TGACTTTACCCTACCTGTCGCACAGCAGATGCCGTATCTCTGTCCTGTATGTTTGAGCGGTGGTGGGCCGGACCCTCAGAGACAGAGACAGGAC
CCACTGCGTTCATTTTTTCCCTAAGGTTGTTTTCAACCCAGCACATCAAGTACAGCCATGCTTCCCAGGCAGGGGCAGCCATCGCTGAAAGTCG
GCAGAACTCGTTGATTCACTTTTTCAAGCTTGTATGTGTGTGTGCACATGTGTGTGCAGGTGTGTATGTGGAAGCAGCAGCTGCTGTCCACACT
CTTTCATCACTTGGGATTTTTTTTTTTTTTGAGGAAAGGTCTCTGACTGAACCTGGAGTTCACCATTTCAGTTGGCAGCCCCCTCCCCAAAT
CCATTTGTATCAACCCCCAGGAATAGGGTATAGGTGCCTACTGCCCACTGGCATTTGACACAAGTGCTGGGCGTCCAAACACAGGTCTTCATGC
TAGTGCAGCAAGCACCTTATCTACTGAGCATCTCCCAGCCCATCAGCCCTCCTTTTTTTGTTTTGTTTTTGTTGTTGTTGTTGGGTTTTTTTTT
TTTTTTTGGTTTTTTGTTTTTTTATTTTGTTTGGGTTTGGTTTTTGGAGCTTTCTCTGTGTAACATTGGCTGCCCTGGAACTCACTCTGTAGAC
CAGGCTGACCTCAAACTCACAGAGATCTGCTTGCCTCTGCCTCCCTAGTGCTGGGATTAAAGTGGGGTATAAGCGCCCTGCTCTATTTAATTTA
AATAACATTAGAACAAAAGACACAAATAGGGTCCAAGCCCAGCCCCTGAGCTCTACTGAGTCACTTCCAGAGAACTCCAGAGAATGTCACACAT
GGCTTTCCCATTCTCCAAGTGGATGGCTCACTCTCAAACTGCTGGTCACTCCGCACAACCAGGCAAAGGTTGTTTCTATGGAGAACTGAGTTCT
GTGCTTCAAGTTTTCAGTTAGGCTCTTGAGGCTTGGACGTTGGCCAAGAGCAGAGACTCTGGTCTGCATTCTGCCTACATGGACACAGACAGGA
CAGGGTCAGGCCAGCTGGACACAGGGGCTCTTCGCACGAATATCAGTCAGCCTACAGAAGCTGTGCAAGTCCAATGGGTTGTGTCCTGCCTATA
AGTCCCTAAGTAAATTATGCAACTCTACCGTCAACAGATCATGGTGGAAATAGCAAGAGGAAGGGAAATGGAACGGACACACGTGTAAGTGCCG
GCTGTTAGGAAGCACCGGTGGGAAAATAAGGGGGGAAATGCTAAGTGCATGCTGGGAATATCCTGCAAACACAGAAGTTATCCCTGGAATCTGG
GGGAGAGCATTCATTTCCTTGGAAAAAAAAAAGTCCCCAACCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGGTTAGGCTTGCAC
ATGTGTACACATGTGTGGATCTCAGAGGACAATTTGTGGGAACCAGTCTCCCCTTTTTCAGTATAGGTGCCAGGGACTGAACTCAGGTGGCTGG
GCTTGGCCGCAGGCCTCCACTCACTGAGCCCTGTCGCTGGCCTGGGTGCGTGCATTTCCATGCTCAGAGTTACTTGTACCCAGAATTGGACATG
GCATAATCTACGGTCCCCTGTAACCTTGGAGAATCTTCGGGGATTTCCTGAGTTTGTGAAGAGCAGACCTCCCTCCCAGCCCTTCCTGGCTGTT
TTGATTTTTCAAAGGCAACATTTTAAAAAGAAAGTTTCCTTCCACTTGCTTTGGGGTGCCTAAAGTAGCAACTGTGCAGAAGGTTCCCTCAGAG
AGACACAAAGAGAGGGATGTTACCGGTACTGCTTAAGGAAAATGGCTACCCCACATCCCCCGGGCAGAAGATCCTTTGCATGTGTAATCTTCCT
TTTCGTGACAAAGGGCAAGTTTCACATCCCCAGAAACAGTCCCCAAAAGGAGAAGATGACTCATGTGTCCCAACCTACACCAAGGAGAATGAGA
GTTACGGAGCCACTGAGAACTGGGGGTGGGGGGTGGGGATAGAGCAGCCCACCCACAGGCCAAGAAGGGCAGCGGGCTCCCAGCAAGAGACTGG
AGGCCAACGGGCTTGGAGGGCGGGGCAGGGGTCAAGCTGGAATGTAGTGATGTTTAGAGCCTGGGCAAGCAGTGATCTTCAGCCACCTATCTTC
TTGCTTACTTTTTGCTTCCTGCCCTCAGCCCTCCTAGGGGAAGCCATATACAGTGTTATAGTATCTTGATCCTGCAGTTTAGTCATTTGCTACA
TGCAAAGGGAAGCAGTGTGTCTCAGGCTAGACAGAGAGGCAGGGTCCTGCTGATTCTGTATTAGACCCCAGGGCTGTCAGTGTCCACCACTGAG
TCCTCCCCTGAGGCCCTGGGACTGCCTGGCCTTGCAAAGCATGCCCCACAGCCCCAGCAAGTGTCCAGGAAGGCTCACCCCGTGACCTTCTTTC
CAACTAAATAAAGCAGTTCGTATTTTGTTCTGCCCTTTGGATGGGCAGACTGGCGTCGAGGAGGACGCCACATGTTGCTGTCTTGGCTTGTTTA
TATAGTGGATCAGCCCCTCGCTGTCATGCCTTAAAGGGTGGCCAGCTGGTGATGCAGCCATGAACCGCCAAGTTCAAGTAGAAATCAGTCTGAG
CAGCAATTCTGACACCTGTTGAGCGTTCCTCCTCTTCCCCAATTCCTCCCCCATCAGGTGTCCTTGGGCAGCTCACAAAAGCTGTTACCACTTT
GTATTTTGCAGAAGAGAAAGCTAGGGCTGTGAGACAGTAACAAAGTTGCCCTTGAGTATGACTGTACAGGCAACGAGTGGGATTCGAACACGGG
TATACTGGGTTGCTGAGCTCTCACACTTAGCCCTCTCCCTATGTACTTCCAGCTCTGGAATGTTCTGAGCAAGCTTTGTCTCTGGATGCTTGGC
TGAGTCCAGACTTCCCCCTCTTCCCCTGGTCTTTCTTTTTTGATGCTCCTTCCTCTTGCCTTCAGCCCTCTTGTCACTCCTGTCAAATATCAG
TCCTCTGGGATCACAGCCATCCACTGAAGCTGATGCGGCGGGTTCCTTCAGTACCAGGAGCAGAATAAAGATTTCGAGGCTTCCCCCTCTCTGT
CGGCCCTCTCACTGGCTGGATGATTCAGAGCATCAGTGGCTTACCGCTTGCCCCTCTACCACCAAAAGCCTCTGCCTCCAGCCAATGCCCCTGA
TCAGCACCAAAGTGATCTATGTCCTGGCCAGCCAGGGTTTCTGGGAAAGTGGGGTCTCCCATCAGGCAACAGACTAAAACATGAAGTCTTGGAC
AGCCCAGTCTCTCTGCCCTGCCTTAGACCCTGAAGATCCCAGGAAAGCGAGTGTTATTTTGCTGACCGGTACTCCTCTAGGTCGGTCCCTTGTG
AGTCTCTCCTCTCCTGGCGGCTGCAAGTTACGGCGGAGAAAAACACTTGAGAGTGTTTCACTCTCCACGCCCATGTACTTAAAATACCAAGCCC
ATAGGTCATTTTAATAAGGGAATTTGGCTAACAACACATGTGCGCTGGAGGCCCTAGCTCCCACGTCTGCAGGTGCTGGCCAAGCAGGGCTGTG
TCTGAGCAACCACGGGCCTGGGTGGGTGGAGAGCAGAGCTTGCAGCTTCTGTAATTCTGAGCACCGAGATGTGCCTCTGGCTACCTGGAAGCCG

TTGTCAGGGACGGGCCTAAACCCAGCTGGAAAAATACAAACAAGAATGGAGGTCAGGTTAGAACCAGGGTGACAAAAAAGTCACCATGGTCTAT
AGATCATAAGCAGATGTCCTTGTACTCAAAGCTCTTACCAGGACTGGGGAGGTGGCTCAGTTGGCAGAATCCTGGCAGCACAAGCAGGAGGTCC
CGAGTTCTATCCCTAGAGCCCAGGTTTTAAATTTTTAAATTTGTAATGCATGTTTGAAATCCCAGTTCTGGGGAAGTGGAGACAGACACATCCC
TGGGGCTCACTGCTCAGTGGCCTAGCTGAATCCATGAGTTCCAGACCAGTGAGAGATCCTGTCTCAAATCACAAGATGGGCAGAGCTTGAGGAA
TGATGTCTAAGGCTGACCTGTGGCCTCCACATAAAACTGCACATGTGTGTTTGTGCACACACATACACACACACATGCACACACGTCAGCTGCA
ACCCGAGCCCATCGTGGGGATTGCCACCAGTTTATCTCCTCCCAGGTGAACCCCATTACAGACATGCAGTCTCCCTAATCTCCCTCCCTGGTGG
GAATCACTAAGTGGAATTCCTCGTATTGACACATTAAAGGATGACCATAAAGTCATAGGAACCATGGTGCTGAGCAGTGGCCATACCAGTTGGG
GGTCACAGCTGTATTTCTTTCCTAAGTCAGCTAGTCTCTGGCTAAGCCGACACTCTCACAGTCTTACACCTTCTGGAAGCGCCAGTCAGCTCCA
GGAGAGACTGCCGCTGAGTCCTGAACTTGTTCGTAGGCAGCTGCCTAGAACAGCTTGCACATTAGAGTCACAGGGGCAATTTTCACTTTGGAGG
ATGGTAGTTGGGCAGTGGGTGGGAGATGGGGTGAGTGGAGGCTCCTGAGTTTAGATTTTGCACAGGTGGCCATTTATACGCCAATGGTGGAAGC
ACAAAGGTTGTGAGTGTAAAGTTTAGGGTCATTCCCTCTGTGGTTAAGTGAGGTGGTTAATATTTTATGTCTGTCTGTCTGTCTGTCTGTATTA
TGTATTTGTGTGTGTGTGTTTGTGGCTTATCTATGGAGGTTCAAGGATAACTTGTGTGAGTCAGTTCTGTCCTTCCACTATTTGGATCCCAAG
AGTGAAACTTGGGTTGTCCCGTTTGGCAGTAAGTCCCTCTGCCCACTGAGCCATCTTGCCAACCTGAGCTGAGTGATTTTTGAGGATGCAAAGT
CACCTGTTTAAGTCTTTGCCTTACACTCTTTTAAGAACTGGTAAAAATCCATCTTGCTCATTTCACGGGTCTTCTCTGACAACCAAATGAAGTA
ACTTCCATCGGAATGTGTCGGAAGCATTGGAAGGTCTGCATACACCTAAACATGTCTACATTGTGAAAACGAGATTCCTCATTGTAGGCAGAGT
TATGAAAGGAGCCCTGGTGAGAATTGAGCTGTTCTAGAGTCGAGAAACCCTTGCAATGCTAAGCCCAGGATGCTCTGTATTTGTGCCAGGATGA
AGAATGTGCCTGGATGGTCTCCACCCACCCAGGATCTCTGAACATGTTCTTATTTAGAAAATTCGCCGATGCTGTGAGGTTAAGGCCATGCATG
AAGACCTTCATGTGGAGACCATATGTGTTAGCCTTCATGTGGAGCTCACCTATGATGGCCTTCATGTGGAGCTCATGCATGACAGCTTCTAAGG
ATGGGGAGATTCAGAGACAAGGGCATATAAGGAGGCAGCATACAAAGGTAGAAGCAGTAATTGGGGCACTGAGACCACAGCGCCTCCAGAAGGT
CAATACTGATGACAATCTTAGGAAGTCAGGAGAAGGAGAAGGAAGGAGCCAACCACCCCCATTGCCACCTAAGGTGTCTTACAGGCACCTTCAT
CTTGGCCTTGTGGCCTCCAGAACAAGAGACTGAGTCTGTGTGCATTAAGCCATAGCACTGTATTACATCAGCCCCAAGATTGCTTGAACTCAGT
GTTCTTGAAGTCTTTGCACTTCCGAGGCTGAAAGCAACAGATGACATGATTCTGTGTGTGGTGACAGTGTGCTAGATAGTCACAGGTTTGGAAG
ACATCATTCGAGACCTTCATGACGCATTTCAGGCAAGCCATGGCTGAAGCCAGCATTGGAGAATGTTAGATGCTACAGTACTCCCCAACCTTGA
GCTGTTACCGAGCTACAAGCTCCCATGTAGGCATCTTACTGCCTCGGGCTCAGAAGACACTATCAGAAAAGATCTGTGAGCTATTCCACAAGTA
GCTACTCTTGACCTGGGACCCAGATTGGCAAAAATGTGGGAGAATCCAACTCTTCGAATGCTCTATATAGAAGCACCTGATCTTATTGTCTGTT
CACTCTCCTCACACTCGCGCATGTACACACACACATACACACACACACATACACACACACATACACACACACACACACACACACACCAAGGG
CCAGCTCAGGACCAAGCTATGTACCTATCAGTCACTGGTGTCTTCAAGGTCCTTTACCTATTTCCCCTTTGGCTTTACAATCTTCCATTGCCTG
AGAGCCTCTTCCTGTTCTCCTTTCTCACTTCTGAGGAATGCGAGGCTTTGGAGAAATGGGCCCTGCCCCCACCCTCACCCCCACCCCCAGGCAG
ATTAAGCTTGGACCATCACAAATGCTGTCAAAGCAGAAGGCCTAATTAATCAAGGTGAAAAGTGATTTATGGGGCCAATCGGAACTAGTCACAA
GCAGACTCTTCCTTCGGGGAAGGTCACCTGGGAAGCAGGTCAGTGGGAGACTCACTGGGCCTTGAAGTTGGGAAGACTTGAGAGAGTGAATCTG
GGTGGCTGGAGAAGTGGGGTTGAGTACAGAAGTCCCAGAGTCTGGAGGCACTACTTAAAGAGCTGAGCTCATGAGCTGCAGAAAGAGGGACGGG
TTCTAGGGAGAAGATTCTGGAAACTGGCTCTAGGATTCCATGTTGATGATACCAAGGTCTCGCCCGTCCATCATGGGTGCTTGGTGAGAAAGGA
AGACCCATTGTGAGGTGTGCAGGGTGCTTACCGTACAGCAGCAGGCTCGGCACTGCCTTTACACAGTCAAAGGCTACAGAGAACGATGAGCAAC
TTCCTCAGGTTACACATCAGCACACCATTCTTAACATGCCCACCCTCAGCCTCTGTGGACCATCCCTCCAAGTCTGCTAGATGCTAAGGTAGAA
AACCATATGGAATATCCCCTGATGGTGTATCCGCAGGTGTCTGATGCAAGTGCCAGAGCCTGGCAGCCTTCTTCCTGGGGAAGCTGGGGAAGGA
TTCAGGTACAAAGTCTCTTGGGCCGTAGAACCCCAGTCTCCAGAAACCACTCCTGTCTGGTCCACTGGGCCTCTCAAGATGCACAAGAGGCCTC
CTCCTGAACCTTGCCTGACACTATTGTTCTCTTTGGCAGAGACTAGCAGACAGACTTCAGAGGCTCTGGGGTCTTTGGGAAACTGTACTCTTGA
TAGGGAGTGCTGCTTGCTCTGGTTATAGGTTGTATTCTTGGGAAATGTCTCAGTGGCCTTCCACTTTCAGCTGGAAGTGGTATGGTTTTCTAA
GGAGGTTAGGCGGGTAAGCAGGGTTTTGCAGTAGCCAGTGCCTTTTGGACACAGTTTGTTCCCATTTCCCTTGAGTTTCATTGTGTACTACGTA
AGAGGAGAGATTGTACTAGCTAAGGAACTAATATTTAGGTAGAAGACTTAATATTGCACCCGGCCAAATACGGGCATTCCATACAGAGCTCTGA
GACGGGGAGAGGTGCGTGCGTGCATGTGAGCCTTCGGACCCCCATGGGCAGACACCATTACAATGCTTTACCTCATTTATCTTTCTCTCGGGCC
CAAAAGGTAGAAATTTGGGAAAATTGCCTATACCAATTTTCAGGCAAGAACACCGAGCCTGAACAAGAACACAGAGAAGTCTAGATCTAGTGGC
TTGTCTGTCAAGCATCTGGAATTTAAACCAGAATCCACCCCCTGAAGCCTGCTCTGTCTGTCCTGTCTATGTCCCTTGCTCTGTCCTATCCCAG
CCATGCTTTCGTAGCATCTAGTCATTGGGTATTTATAAATACTATTTAGCATCAAGCATCAATTTCTAATAGGTACAGAGAATAACATCTAATTT
TAGCATGTGCTGTGTTAATAAAAAGATAGAGAATAAGAATATGTTCTATGGAGGTGTGGTGAGGTATGGGGGTAGAGGCATCCCCTCCCCCTGA
AGTACCAGCCACATGACGGTATAACATAGAATAGAGTTTATTCAGGCCATGGGAAGGGGAGTTAAGAGGGTAGCAGAGACAGAAACGCAGAGAG
AGGGAGAGAGTAGAGAAGTAGAGGCTGACCATGACCACGTGGAAAGAGGGGGCAGGGAAAGGGGAAGGAGGGGGGAAGGGAAGAGCCCAAGAGG
GCAAAAGAGAAGCAAGGGAGCATGAGAACAAGAGAGAGAGGAGGGGACAAGCAACCCCTTTTATAGTGGGTCAGGCCTACCTGGCTATTGTCAG
GTAACTGTGGGGTGGAGTTTAGACAGAATGCTAACAGCATGTTTTCACACTTAGAAACTCAGTGTTTGTTGATTTGGTTGGCCTGCTCATTTGT
TTTGAGACAGAGTCTCATGCAGCCGAGGCTAACCTCACACTCACTGAGTAGCTGAGGGTGACTTTGAACTTTTGATCCTCCTGCCTCCGTTACC
TGAGTGCTGGGATTACAGGTGTGCAGCCTGGCACGCAGTGTATACAATGCTGGCATAGATCCTTGGGCTTCATGCTTGCTAGACCACCACCCTA
ACCGCTGACCTACCCCTGGCCCCAGAAAGTCAGTCTTCTCTAATCCTCGGAAGTACAGAGTAAAGAGAAGAAATGTGTGACGGTGTCTTTTCTTA
TTCTTTTGCCTGGATTTTACAAATATGCAGGGAAGACAGAGGGAGGTTAGCAGTAGATAGGTATGAGTCCCAGCTGTCAATTCCCAAAGTCCTG
ATATGGGAGTAAATTCTGATCTCCTGGATCTTATTGGTAATTAATGATTGACTTATAGCTATGTGACTATGCACTATGCCCCACCTGGTGAACC
CTCTGTGTGCATTACAGATCAGAAATAACTGGTGAACCCACTGTGTGCATTACATGGTGAACCCACTGTGTGCATTCCAGATTGGAAACAAAAC
CTAGGTGTACCAGGAGAACAAGTCCTCCTGCCCCAGCTCTGTTGCCTTTCAAGCTTGAGGGCTGGACAGCATAGACTGACATAAGGTAGAGAGG
CTCAGACCACCCCTCAATATGTTCTGTTCTGTTTCCTGTCTCCACAGGCAAGAGCTTCACTCTGACCATCACCGTCTTTACAAATCCGCCACAA
GTTGCCACCTACCATAGAGCCATCAAAATCACAGTGGACGGCCCCGAGAACCCCGAAGTAAGTGAGCCCCCTTGGGGCTGGTAACTGTCTGGG
CTGGTGTACACAAAGACCCACCAGGTCTCACAATGTATCTGTGGCTTCAGCCTCTTTCCTGAAGAGATGTCAGGCCCCTGAAGACAGGAGAAGT
TTCCAGGTCAACTCTCTCACCTCTCAAACGTTGTTTGTGTGAACTGGGTTCTTTCTAAAGCTTTGGCTTACACGTCAAAGGGAAATTAGGCCAA
CTCAGATGAGTTAAGAACACTTTGGGTTTGTTTTTGTTTTCTGAGGCAAGGAGTAGACCCCCACATATACAGCAATGTTCAGTGTGCTCAGACA
CAAGCAGTGGATAGACAATTGGCCAAGTACAGGGTGTGACAATGAAGACCTGAAGGTCACGGTGGACAAGAAGAGATGGCTTACCATCCATGCT
TGTGTTAATTTGTTAAGGCCAGAGATGAAATCTGTGAAAATCATCCTCTCTTTTTCCCTTGAAGGGATCTTATTCTAGGATTGTTTAAAATAGA
GCCTGGGCCGGGCGAAGAGTACTGGGGGAAACCAGTAAATATAGAAAGATAGCCTCCAAAATACCCCGAAACTCCTGTGAGGAGAGTGTTTAAA
AAGGAGTGGGGTTGTTTAGTCTGAAGGAAAGATGTCTTCAGAGTGACTTAAGGACTATCTTGGAGTAAACACAGGAGTGACACTCTTACAGGGC
CACACCCCGGCCCAGGAGCTGCAGCTGGGCCACAGTCCAATTCTGTAGGCAGATGAGCCCGGAACGAAGAGCAGCTCACCTCCAAACCATGTCA
GGGGCCCCTGGGAAGTGATACCCTCAGAGGCTGGGATGCGAAAACATGGGGTCCCTCCTGCACCCAGAAGCTATGGTGCAGAGAGATTATTTGA
TAAGAATGAAGGTACTGAGAACAGGGGCCCTAGAACAGTCTCAGAGCCTCCCAGAACCCCAGTTTCTTGTAGAAAATGTATGTAAAGGTGACAG
CCGCATTGTGAAACTTAACTAGATGAAGCCAGGTGCCCGGTGCAGGGCATGCGCTTACAGAATGTCAGGAATCTCCGTGGAGCTTCCTTGCCTC
GACCCCTCGTTTCAGTGTGGTGGTTCCATTGAGCCTGCTGAGGTAGTTCCCTCAACAGGCAGCCCTGTCCACACAGGCATCTCATCTGGGCTCT
GAGGTAGTAGCCCTTGGGAATTTGGCTCTCTGAGGCTATTCAGTGGTCACTCTGGCTATGGCAGCGTCTCCTGCAATCATGGTCATGACTTCTG
GTATCTGGACCACCCTTGGAACCAGTCACCTCTCTGCCTCCATTTCCCCAATTTTCCCTGAAGCAGTAATACACAGAGAACAGCTGCAGTCACC
AGCAATACCACAGGGCAGAGTGTTCACCCTGGCTGTGCTTCCCTCCCCTCCCTGGGCTGGGCAGCTCCCTCCACTCTGCCCACCCTGTTCCCAT

TTTTATTCCCTACCAAAACCTGTTGAGCTTTTCCTTGTTAACGTCCTTGAGATTTCCTAGCTGTGGTCAGGTTCAGGGAACTCTGGGGCTTGTG
CTGGATAGCATGCCCTACTCCTTTAGAGTGTGAACAGCAGACCAAGGTAGCACACAGTCCTCACACAGCCCAGGAAACCTCTTGGCACTCCCTG
GTTTCCCAGAGTAGACAGTCATGACAGAACACCCGAGGGCCATGGCCCAGTGCAGGGGACTGGAGAGGAAGCAAGCCGAGGTGATGACTTAGCA
CAGGGCCAGGAGAGGGGGCGAGGTGTAGGAAGACTGATGCTGAGAGTGACCGTGCTCATAGGATGGCTCCTTTAGGTGTCCGTGGCTCTCTAAA
GCAGCTGCTGCCTCCAGGACAGATTATACAATGGCTGTGCACGAGGAAACAGCTGAAAATGGGGACCCATGAGAAGCCTTCTATTTTCCTTATT
CTTCCACACCTAAGAGAGACAGGCTTTCACCTTGTGTGTATTTTTTTTCCTGGAACATTCCAGAGAAGTGAGGGGGGAGCTGAAGCCTTAGAAAA
AGCAAACGGCAGGGGAAAGGGAAACGGCCCCCATATTGGGGCCCCTGCTTGCCTGATGTGTATAGATCAAGTACTCAGATAAAGCACTTGCCGC
CTCTGCTATTTTATAACTTGTAAGAACAGTGGACCATTAGTGGTTAATTGTACTATTATCGTCCTATTCTTTTTTATTTATTTTTGTGCTTTGA
GTTGAGAGACAGGCTCTCACTATGCTGTCCCGGTCGGCCGGAACTTGCTATGTAAGCCAAGCTGACTTTGAACTCCTGCCTCCCCAGACCCTGA
GTGCTGGGGTTACAGCGTGTGCCACCACATCTCATACCGGTTCTCATAGCACACGGATCATTTCCACTGGCACTCTGCCCATCACCACTTTTGG
ATGCAGTGAGAAGTGAGGACCCCGTGTGCCCGTCAGGGTGGCCAGACTGGCACAGCCGTGGAGATTTAGGAGCGCTGTCCCACCCCTCATTAAG
GAAGGATCATAGATTCTGGATGAGTCTGGCCCAAGAACCCTAGTGTTTGCCACACTGAGCAACATCGCTCAGTTCTCCCACTTTAGCAAATCAA
AGACTCAGAGAGAAAGAACCTCTCTGATCCTTCCAAGAAAAGGAAAATCAGCCCTAGAGAAGGGAAGCAACCTTAGGTTTAAACAAGATGATGA
AGCCACAGGGTGGAGGGGGAGTTTTTCACTGTCTGACTTTGGTGTCTGACTTTGGAACACACATCTGTCCATCTGTCCATCCATACCATGCTGT
CTGCACTTCACATCCTATGAGTTCTCTCTCCTGCCTTTGGAATTTTTGTGTTTAATTGTGGACTGGCTTTCATGATTTCTCATGTGGGACCCAG
CTCTGAGGCTGCCCCATAGGGCACAAGGTAACCTCGACGCTGACATGGTTGTCAGGACTGAAGCTGTATCGTAGTAGGTTGTGTGCTCCAGGGA
CTCCCCAGCCTTTTGCAGTTCAGATGGTTACTGGCCGGTCCCAGAAACCCTCTGCCCCCGAGTAAGTCAAAACTTGCTTTTCACACAGTCCATG
GGATCCTTCTACATCTCCAGCCAATACAGAAATCTGTGAGCTTGGGGGAATTCAGTTCCTTAGAGGGGAAGAGTGCCACCGGAAGGTTTTTGTT
TTCAGGCAGTAAATAGACCATTTGATGACTTGTTAACATACTGGAAGATAGTGTGGTAGAAGATATACTAAAAGGGTGGTGGTATATGTGTGTG
AGGGGTACATATGGGTGTGTGTGTAGTATAAGTGTGTGTGTTTATGGGTTCATGTGGAGGTCAGGGGTCAGAGGTCAGCATCAACCATCATCGT
CTTCAACTCTACTTGTTCTTTAACACAGGGTCTCTCTGTGAACCTGTAGCTCATCTGCTGAGCGATGCTAACTAGCCAGTAAGCTGCAAGGACC
TGTATGTGTCTATTCTCCAACACTGGGGTTAGTGCAGACATACCAAATCACCCAGCCAATTACACTCGAGGTAGGGATGGGGACATGAGTCCTC
ATACCTGGGTGGCAGACACTCTACTGACTGAGCAATCTCCTTAGCACCAGCCCCTGCTCCATAAAAGGGTTTTCTCTTCACAAACAGAATTTTA
AGAGTGGGTTTATGTTGCTTTGATATTTCTAGAAACATGTAAAACTCCATCTCTCAACCCACTCGTGATGAGTCTTGGGAAGTCTGGTACCTGT
GACTTGGGGAATAGACTTCATTAAAATTCAAAAAGGTCAAGAAACCAATGCTGGCTGTGTCTGCGACAGCTTCTGCCCTCTGGTAAAGCTGTCC
TTGGCAGTCACTGTTCAAGCTCTGAGATTCACAGTGACGAGAACAAGATAGAGCTGTTCCTTAGAACTCAGAGCCATCAGGATGCAGGTCTCAG
TGTCTTAGTTGGGGTTTACTGCTGTGAACAGACACCATGACCAAAAGGACATTTAATAGGGGCTGGCTTACAGCTTAGGTCCAAGCCTCAAATC
CTTTGCATGACCCTTTCAGTCCTGGGCTGTCAACTGCAACTGAGGCTGCACCTTCACCAATGACCTAACATGGCCTCTCACAGTGCCAAACCTC
TGCTGCTCTTCATGCCCCCTTCATGCCTTCAACACCAATACCACCTGACTGACTCTTACACATTACCAAGTACCACTGCAGCATGAGGCACAAC
CTTGGCTATCTCTGGAACACAGCTTCTTTGTACTCTCAGAAAACACTTCTCAGAAGATTTCACCTCAGTGATGCTGGTCTCTTCTTAATCACTG
CTAATTTTGTAGCTCCAGCTCACGAGCATCCATTTTCCCAGTAGCCCCTTCTATTCTTGACTCTAAAGCTTGAGCCCAAACTGCTGAGTTCTGC
TGCTTGCTGGTGCTGGAACATGGCCCCCTTGTTCTATTACATTATCAGTGCTGGGATTAAAGGTGTGTACCACCACACCTGGACTTAAGCTTTT
CTTCACCAAGAGCTTGCTCTGGTCCCAGGCTGGCCTTGAACTCTGAGATCTTCTTGGCTTTATCTCCAAGGATAGCCCCATGCCTGGATCTAAA
TTTAGCTGAGTAGGATCTTGCCCCAAAGTCCTACTCCCTTAATCCGATATCTCCTAGAACATGGGAGTTGGCTCCATTCTGCTTCCTGGTGCCC
CTTTACTATTTAAACCATATATTTTACATTTTTCCTTTCTAAGCTTGCTATGCTTGCTTAAAATGCTCTTCATGAGACTCAACCAGAGAACAAA
GTCTCTGCTGGGTGTTTCTGGACTTCCTTTGCCATTGCAATTAATCTGAGTCTCTTCTCCTTAGCCTCAGGCAGACTCTTCTGACAAGGGCTAA
AGCCACCCATATTCTTCATCAAAATACCATAAAAACAGCCTCCAGGCCATGTACTGAAATTCTTTTCCACTGAAACTTCTTGAGCCAGGTCTGC
ACAGTTCAAATCACTCTCAGCAAAGAAGTCTTCCATATTCCTAATAGGATGGCCCATTGAGCCCTAGTTAAAGCATTCCACTGCTTTCCAAATC
CAAAGTCCCAAAATCTACATTTTTTCCCTAACAAAAGTATGGTAAGGCCTATTACAGCAATACCCCATTCCCTGGTACCAACTTTTATCTTAGG
CTTTTACTGCTGTGAACAGACACCAAGACCAAGCCGGGTGTGGTGGCGCACGCCTTTAATCCCAGCACTTTCGAGGCAGAGGCAGGCAGATTTC
TGAGTTCGAGGCCAGCCTGGTCTACAAAGTGAGTTCCAGGACAGTCAGGGCTATACAGAGAAACCCTGTCTGGAAAAAAACAACAAAAGAGCAA
AACAAAACAAACAGACACCATGACCAAAGCAACTCTTATTAGGACAGCATTTAATTGGAACTGGCTTATAGGTTCAGAGGCAGTCCATTATCAT
CAAGCCAGGAACATGGCAGCATCCAGGCAGACATGGTGCAGGAGGAGCTGAGTTCTACATCTTCTTCTGAAGGCTATTAAGAGAATACTAGCTT
CCAGGCAGGTAGGATAAGGGTCTTAAAGCCTACACCCACAGTGACACACCTACTCTGACTGGGCCACACCTTCTAATAGTGCCACTCCCTGGGC
CAAATATATCCAAACCATCACATTCACCAACTGATCGTTTCTAGATGAAAGTATCCTTAGAATGGATCAACTCAAGGGCCTGTCAGCCAACTGC
TTTTTAGAGAGTTTTGTTGAAGTCGTCCTGGGAGTAAATGCACGTGCTTCTGTATGTGTGTGTGCATGCATGTACACATGTGTGAGATGTGGGA
CACGCATGTTTATGCAGGTGTGCCTACAGTGTGTTCCCACGTGGAAGCTAGAGGTTGATGTCACGTGTCTTCGTCCTTCGCTCTCCTTCTGCCC
TTTCGTTTGTCTGAGTCAGGGTCTCTCACTGAACCTGGAACCTACTGAGCTTGAAATTCTGGCTAGATTGGCTGATAGTGAGTCTCCAGGATTC
TTGTATGTTGACCTCACCAGTGCTAGGGTTATAGGTATGCGCTGCCACACCCGGCTTTTAGACAGGGATGCTGAGGATCTAAATTCAGTTCCTC
ATACTTGTGCAACAAACACCTTACTGACTGAACTGTGTCCCAGCCTCATGAATTTATTTTCTTCTTTGATTTTGAAGGGACATAGCAGACAATA
AACAAACAAACAAACAAACACAAATAAATAAATAAAATCTTACATGTGTATGTATGCATGTATGTATATTAAACAGAACCTTTATATTTGATGA
ATAATTTCTAATGAAAAAGCAAAATGCATGAAAGACATCTGTAAACATTCGGTGATAATGGACTCAAAATCGAGACTGTTAGAAAAGAGTGAAC
TGGGTGTTTGTGGCTTTATTTCTTAACATTGAAAGCAGTGCAGATCTTTTTCAAGATATTCTTTTCTCTGGATAAGAAGAGTTACTAATAATAG
TGGCTGACATTATATAGCACTCATTATTTGCCCAGCACCTTTCAAAGTGCTGCAGGCATATTAATTTATAAAATCTTGGGAGAAACAGTTAAGG
TAGTTGAAGCAAAAGCTAATTAAGAACCCTACCCAAGGTCACCCAGCTAATCAGCCAGAATGGAAGCTGTGGAATCCAGATGTTGCACACCTAG
GTCTGCTTCTGAGCACTAAGGTATTTGGGCCTCGCTGCATTGTGATGCTGTATCTTTGATAAGGAAGGCTTATCACTTGGGTGTGACTCACATG
TGGTTTTCCTATAGCTTTGAAGCTGCCCCAGACGTTTGACTGGAGTCAGTCTTCCTACCGGTGGGTGTACTGAGTTACCCACGTGCTTCCCAGG
GAGTTCCCAATGCTGCCTGCTGCCACGTGTGCTAACGATTGGCTCTGAGGGTCACTGAGGTCTGCTTGAGGACATGGTGGCAATGGGACGTAAA
CCAGGGATAATGCAAAAACCTATATGTTTCCCAAAGAGAAGAGTACGACAGTGACCGACTGGAGCAGCCCTGAGGGCAGGTGTCTAAACGGGGA
TCCCCTTTAGCAAAGGGTCCCAGGTAAAGCTTGGACACTCAGTGTGTGCTCTTGGGGTTGCCATGGCTAGTCATGGTGCTCACAGGGAACCGTG
CCACGTGGCTCCCAGGTCCTTGGAGTGTTCAGATATCAGGCGTGTCCATCAGTTCAAGGCAGAATCATGGTGCATAAAGGAAAATGGAGAGTTT
TTCCTTCCTTCCTTCCACCCAGATGGAAAGCAAAAGATAGAGCGTCAAGAGCAGTGCTCTGTATGCCTGCTCTTCCCCTCTGAAGGCATTTCAG
GTTAAGCAGAAGATTCTGGGGGGCTTCACCCAAGTATTTAGTTCCCACTCTGCTAATCTCTCTAACTACCTAGAGACTTAGGGAAGCAGTTCT
TAAAAGCATTAATAATAACTGTGCCTAAGTGTTTCTAAGGAATGTTAGAATCTCTTCCTGTTTATTATTTTAGTTATTGGACACTAGACCTAGA
AGAGTTTTGTGAGCATCAAGATTTCCCTGAATTCAGGCTAAGGCCTAGAAGTTTCTCTGGGGCAACTGAGGATGTGGGAGAAAAGATCATACTT
CTGTCTTTGTGAACAGCAGCAGTCCTTCATGACACTACCCATGAACAGCAGTCCATCATGACACTGCCTGTGAACAAGAGTCTATCATGACACT
ACCCATGAACAGCAGTCCATCATGACACTGCCTATGAACAAGAGTCTATCATGACACTACCCATGAACAGCAGTCCATCATGACACTGCCTGTG
AACAAGAGTCTATCATGACACTACCCATGAACAGCAGTCCATCATGACACTGCCTGTGAACAAGAGTCTATCATGACACTACCCATGAACAGCA
GTCCATCATGACACTGCCTGTGAACAAGAGTCTATCATGACACTACCCATGAACAGCAGTCCATCATGACACTGCCTGTGAACAAGAGTCTATC
ATGACACTACCCATGAACAGCAGTCCATCATGACACTGCCTATGAACAAGTCTATCATGACACTACCCATGAACCCAGCAGTCCATCATGACAC
TACCCATGAACAGCAGTCCATCATGACACTACCCCATGAGCAACAGTTCACTATGATACTACCCATGAACAACAGCCTACCTTGATACTACCCC
AGTGAGTTTTTAGTCAGTGCCCCCCTTCTGTGCAGAAGTTGTTAAAGTTTAGGTGGCTCTTGCTGCCTGAAGCAGGTTCTTCCCAGGTACCAGG
AAGACTATACAGGCATAAGCAAGACACCTCCTCAGTTTGGCGCCTGGAAAAGAGAGAAGAAACATATAATGAATGGAAGCTAAACCATTTCTTT

GAATGTATTTCTTTGAGTTAGAGCACTGCAAAATCATATTGCTACTTAGAATACCATCCCAGTGAAACTGGGGTCTACGCTGATACACTGTCCT
TGTTAGGAATGATTGTACGAAGCGCAGAAAGAGAGAAAAGAACCCAACAATGTAATACTGTCTCTGGTGAGGCTTCCGTTCTTAATCTTAAAAT
GTGTAAAAAGATTTCAGGATCCTTAACTCCGGGACCTAGGCTTTCACCCTGGCGCCATCGGGCCTGTGGGTGTGAACTTGGGCAATTATCTTAA
GTACTTTTTAGTCCTTGGTTTCCTCTTGGGTCAAACTAGGCAATGAGACGAGATAATCTCTAAATTAGTTCCCACTCGAGCTGGGGTAACAAAA
TCTTGTCAGCAAAACAGAGGTATAGCTTCTTCACAAACAGGGCCCCTTTACAGGCCACAACCCTGAGCTGAGGTGATCATCCTTCATGTCCTCA
ACCAGGGCTTCCACAGTGGTTTTCAGATTCTCCCTCTCCCTGTCCCTCTCTCTTCCCCTCCCTCCCTTCCTCTCCCTTTCTCTCCTCCTCT
TTTTCCCTTCCCCTACCCTCTCTCTGTTCTTGAATGGGCTTTGTACTTCATCTTCAGTTTCTCTAGCTATAAGTAACAAGCCTAATGTCCGAAC
AGCCCTGATCTGATGCCTCTGCCACTCAGCTTGGGATGCTGCACGTCATGCTTGCCCTGCTTAGCTTTGGGATGCTGATACCTGGCTCTCTGTC
CAACAGAGACAATGGCCATCCATATCAGTGTCATGGGGTCCCTGGGAACCTTCCCTGGGACACAGTATACATTTAGAAGACGTCGGCTATTGTT
TGTATTTACCTTGGAGTCTTGTGGGAAATGAGAAAGGACTTTTGACAGAAACAACAAAGGGATCTGTGAATTCCTAAATTTAAAAATTCATGAA
GTGGCCTTAATGTTGCGTTTTTTTGAGATGTAATTAAACATTTATGCATTTTGATTTTTTTTATTTCAGATTTTTTTTTATTTAGGCCCAGTAA
ATTTCTTTTCTGGCATATTATGGCCCCTTAAAATATTCTGGGCACTGTTCCTAAGTCCCTCACGGTTCCAAAAGACTTGTCCCCAAGTGTCGTA
CTTTGTGAACAACTTGAAGAAAACTTATGTCCTGGTAACAAAGAAGCTCACACCTGACACTCGGGCCTCAGTGTATGCACGAGACAGCTGATGG
AGAGTCTTCACATTGTTCTAGAAAAGAACAGAATCCCCCCGCCCCCCATCTGCCCTTGCTGACCTTAGGGCATTTGTTCCAGGAACCAACACCT
CAGATATCTGCCACACGGAAGCCCCTGATATCAAATGGCAGATTATTTGTAGATAACTTGTGAGCATCTTCCTGTAGACTGTCAGTCACCTCCG
GGTTACTGAAGTACTGGAGACAAGGCTGGATAAATGAATACCTGTGAGACTGTGTTGTTAGGGAAGTCCGTGTGTGCTCAGTGCGGCACTTTTT
CTTCCTCAAGTATTTTCAGCCTGGATTTGGTTGAATCCGGTTGTATCAGCTGCAGATGTGGAGGGATGAAAGATGACAGACAGACAGTACTGGG
ATCATCACTCCAGGGTGCCTGTAGACTCTAGCAAGACCTGTACGCGGTGCACACACAGAAAGCACCTAGCCTAGACAGGTTTCTGAAGGGCTCC
CTCCCATTGTGTGTATGAGAGAGAGAGGAGGGGGCTCTCCTGCTACCTGTGGATGTTGCTCTGGGAGACTCAGCTGTTGTGCATCTTCCGTGGG
GACAAATGACCTCCCAGCTAGCTGAAGGTCTGTGGCAGACAGCCCCTGTTGTCAGAGCACACTACCATGCCTACCTCTCCCCTTTCCCTTTCCG
AGGCAATTTCAATTCTTTCAAGGCCTAACCACTTTCCCTTTTCCGTTTTGAAGGAACTCGGGAGTTTTCCCGAGGGTTTAGGTTTTCCTGTAAA
GCTGTGTGCTGGGAAAGGCCATTAGGAAAAGCCTGGTACACAGTGTCTCAAAGGACCCGGCCACTGACACACACACACACACACACACACAC
ACACACACACACACACACACAAGGATTTTTTTCCCCCAAAGCTTTGATCATATAAGTAAACTTCATGCTCCTCATTTTAGATCTGCGTCTAAGT
TCACTGTAGCTAATTTGAATCTGCCTCTTTTTTTTCGTGTCTTGCGTCGGAAAACCTTTTGTAAGGTGTCCCGCCTTGGGGCTCTGGCAGCATTA
GATCGTGCCCTTAGGAAGGGGGTAAATTAACTCCAATCTACCTGTGAGTGTTTCTGCTGTCCTCAGACCCGGGAAAGCACCGGCTATTAGCCAG
GTGCCAAATGCCCTCTTAGTGGCTCAGTTTTCGTCAAGGTCAATCTTAAGGTTTTCCCTGGGAGAACTTGCAAGTGTATCAAACTTTCTCAGTC
TCTGTCCATAGTGAAAGCCAAGGTTAGAAAAAATATTTAAGCACCCAAAGGGAAGTCCTTTTCCTGTGGGTTCCCCCACACACACTGCCACCAA
CCCCCCGCCCCCACGCCACCCTTAAAGCAACACAGTGGAATTAATCTGCAACTCCCCAGGCCCTTGTGAAGTCCATTAATGGTGATGCATTAAT
TTTGTGCTCCTAGGAATTCCATATGCCCAGGTTCCATTAAAGCAAGTATTGACTAAAACCCTCTCTGTTACTGAAAAAAAAGTCCAGCGTACTT
GCCTGCCCTGAAATGCCGAACAGTGGGCATTTTATTTGCTTGCTGGATCTTTTTACTTTTGTACGCCGTGGCTGGTAAGTCATATTCTAGTCAT
TTGAGGCAAAAATGTAAACATTTGAAATAAGTCACTTCGTAAGTTCAGGATGACTTAATGGTCCCTTTTGGAATTCTGACCCGAGTATCTCAGC
CTTACTTGCCTGTGGGGTGGCTTCACGGCGTTTCTGGTCCACTCATTTTATAATGCTACGAGCAAACGTACAGGAGGGACATTTTTACTCCTGA
TCTGACCTTGTTCCTGGGGCCCCAGTCCCAAATTTCAGAAAAGAATCAGAGGGTTCGACAGGGAGTAAGAGAGGGAATTGGAGTCAGACCTCTG
ATACATACTGGCTGTGTGCCTGTTTTTCCCTCTGTAGAAGGGGTTTCCAGATGCCCACCTTCCAAAGGGGAAGATAGACCAGGTGGGCGCCATT
GCTCTGAGGCTAGCTGCCTGACTCCAGCTCCCGAACTGTCTTGGCTCTGATAACAAACCTTCGTCACAGGGATTGCAAGACCATGCATGGAGAC
TTCCATGTGAGGGTGCTTCACATAGCCCTGCACATAGCACCCTGTAACATTTAAAGCACAAACCAGGAACACAGGCAAGTCAGTCTCCTTCATC
CCCAACCTTGTATTTACCAAAGGAATCACATGGAATTCTGCCGAAGTGTTCACCAAATATTTACCAATACCAAGTTATTTAAAGATGAGGGGGA
AACCTGGCAAATTGGTTCCACAGGACTCAGCACTTGGAGCCTTTTCTCTTTCAACTTGACCTCACGGTCACTTTAAATCCCGAAGCACCAGAAA
CCAAACCCAAGCCTTACCAAGGCACCACCTTGTGAAACCTGCATCGCGCCTGCCTCTTCAGAGAACAGGCAGGTGGGTCCAGATAGAGGCTTTA
TCTGTCATATGTAGCTCTGTTTCCCAGCAGAACATTGGGCATCCATGTTGCTGTCACCTACCAAAGCTCCTAGCATCTAGAAAATTCTACTGGG
TCAGCTATGAGTACCATGGGAGGGGAGTCTCTCTACTGTATAGGGTTTCGTCTTATTTGAGTGGTATATATCAAAGTGTGGCTTATCAACTAAG
TAAGAGAAATAGCCTATCCACTAAGTAATAGGAATACAATAGATGTGAATGAGATATTTGCAAACAAAGCAACCTGAAAACCGACTGCTAATGT
TTTACAGGTATTGGGCAAGATCCTTAGTGATCTTAAGGAAAATAATGATTGTTCTCTTAAAGATAATTTTGGTTTTGTTAGACTTGCTTGTTTT
ATATTTTGTGCATGAGTGTTTTGCCTGCTTGTATGTTTGTGTACCACGTGCATGCCTGGTGCCCTGGAGGCCAGAAGAGGTCCTTCCATCCCTT
CAAACTGGAATTACAGTTGGTTCTGAGCTGCCATGTCGGTGCTGGGAACCAAACTCTGGTCTTCTAGAAGAGCAACACGTGCTCTTAACTGCAG
AACTATCTCTCTGCCTGAAAGATAGGTTCCGTCTCGTCTCGTCAGATTGGTGAGAATGCAGGAGAAGTCCGCATTTAAATTAGCCACCCCTGTT
AAGCTGGACTTGGAGAGGCTTTTCCCTCCTCGTTTGCCTCCCTCCAGAAACTTTTTAAGGCACTTGGAAACAAAGGAAGCAGCCTTTATCCACA
GTTCAGAGTTTTGCTTAAATTCATTTTCTTTTCCAGGACCAAATAGTTTTTCTTCTGCATACGGCTCTCATGGCGGCAAAACCATAGGAGAGAA
CAGCGTAGCCTGCTGCTTCTGAGTCTATATTTCCTGTGTGTGTGTGTGTGTATGTGTGTGTGTGTGTGTGTGTGTGGTGTATGTATGT
ATGTATGTATGTAAGTATCTGTGTGTCTATGTATATCTGTGAGGGTGTATGGGTGAGAGACAGTGTGAGAGTGTACGTCTGTGTCTGTGTCTCT
GTATGTGTATTCATGTCTATGTGTGTCTGTGTATGTTTATGTGTGTCTGTGTGTGTCTATGTGTGTGTCTATGTATGTTTATGTGTGTCTGTGT
GTGTCTGTGTGTGCCTGTTTGTATGTGTATGAATGTGTGTTAGAGAGTGTGTCTATGTCTATGAGTGTGTCTGTGTGTGAGTGTGTCTGT
GTGTGTGTCTGTGAGTGTGTGTCTATGTGAGAGTGTGTGTTTGTGAGTGTGTATGTCTGTCTGTGTATGTGTATTTATGTCTGTGTGTGTACGT
CTGTGAGTGTGTGTCTGAGTGTGTATGTCTGTTTGTCTGTGTATGTGTATTTATGTCTGTTTGTGTATGTCTGTGTGTATCTGTGAGTGTATAT
GTCTGTTTGTGTATGTCTGTGTGTGTCTGTGAGTGTATATGTCTGTGTATGTGTATTTATGTCTGTTTGTGTATGTCTGTGTGTATCTGTGAGTGT
GTATGTCTGTCTGTGTATGCATATTTATGTCTGTTTGTGTGTTTGTCTGTGTGTGTGTGCCTGTTTGTATATGTGTGAGTATGTGTATAAATGT
GTGTGTTACAGTGTGTGTGTGTGTGTGTGTGTGTGTATCTGTGTCTCTGTGTGTGCCTGAGATTCAGTTTCTGGGAGGTGAACCGATC
CACCCTGTGCCCCGTGCCTGCCTCAAACCCTTCAGCTACTTGATGCTGAGGCTCTGGAGGCCACTGGGTAGTCCGTGCATCTGCCAACACACTG
GCTGGGGGCAGGATCAGAGAATCTTTTCTGCTCTGAGAGTGATTCAGCCATTCTCAAAATAAATAAGTAGCAGAGTGCAGAGAGGAAGAAGTGG
AAAACATTGAAATCTGAGTCTGGAGGGCGGAGTTCTTCTCAGCAGGGCTCCTCAGGGGCAGTGCCCAATGGAAAGCCCTCAGGCCCTGCCACCT
GGCTCTGTGCAATTCTCAGCTTCTGCTGGAACTTCAGTTTTGTCATCTACAAAGTTGGGAGGAGGGTGTAGTGAGGGCTAAGGCACTGATGAAC
TCAACGCTTGATTCAATGTTTCCAGGAGCAGTTGAACTTGCAAGGCATCCTCTTCCAGCCTCTAGCAGGTGACCTGCTCTGAGGAGTGTGCTCCA
AAGGGGGATGGAGAAGAGATGGCCACTGGGGGTGTGGGGGGAGGGGCTAGTGAGGAGCAAGATGGAGTAGGGCCAGAGGGAGGATCGACCCATC
CAGCCCAAGCTGCTGCAAAGGGACAGGAATAAATGCAGAGTGGAGTGGCTTAAGCAGGGGAAATCATCAAAACTATATTTCCCATGACTTTGGC
AGCCTTAGAAAAAAAAAAAGAAGAAAGGGGAAAAAAATCTGTAAACACACAAAGTGCTCAATTGTCCGAGCCTAATGGCCAACTTCCCAAAGCT
GGCCGGCCAGAGACCTTGGTGTTAATTCCTCAGCCAACTGGAAAAAAAAAGATGGTGTGAGTTCTGTTGACTTAATTGCCAGAGCGTTGCTGAG
TGAGGCTGCACCCCCCCCCCTTGCGTATGCTAGGCCTTTCCTCATTACCTGCCCTACCTATCTCCACAATCTAGCCACAAACAGCTTTGGTTGA
CCACACCACTTCCCTATTGAAAGTTAATACTGTTTGACTCATTCGGTGCTGCTTAACCCGAAGCCAAAGAAAACAAGGCAGAGAAATAGCTGGCT
TGTATGGAGTCTGGAAAGCCCTGCTCGGCCCTGCTTTCAAAGTCCTATACAGTAGCCTTACTATACCTCAGCTGCAGCTGCACAGAAAATGGAG
GAAGCAGAGGTGACCCTCTGTGTGTGTGTGTGTGTTGGCGAGGGAGGTGGGGGTGGGGGACGGAGAAGAGAACAGGAAGGGAATGGGGTGCC
CCCCCTGGGGGGCTGGAAGAGACAACAGAGCAATCTGCCCAGTTCCGGGATTCTCTTTCTGGGCTCCAAAGTGTATCCTAACAGACAGCAGTTT
CTGGGCTGAACAGATACACTAAAAAGAAAGACTCAAAAACCCATTGGAAAAAGCGATTTTCCTATAGAAGACAGCAGAGAGAGGGGAGTTGGAT
CTCACCTGACCAGCTTCCCATAGGACAGTCCCTAGGTGACCAGGGACAAGGCCCACCACTGCCAAATGTGGGAAGGACTCAGAGGCAGAAGGTT

GTCTTGGGTTGATAGGGAGGTAGCCACACTGCTCCCTACTCCTTGCCTGAGATGAGGTCACCAGGGGGGCAAATGGGGGTGAGGGGTGGGGTGT
GCTTCCAAATTTGGAATGAGTAGAACTCTCCCTTTGTAAGTGACCAGGCCGGTGCTCTGCAGGTACATGGCCGCTTGCTGATGGGTACTTGTGA
CTGGTAGACAAGATTCTGCTCACTCGGCCATTCCTGGATTGTAGCTGCCGCCCCTCCTCCTCCCCAGTCACACACCCCAGTGGCTGAGAGACAG
AGTCACCCCCAAACAACTTGAAAGTAACCTTTTCTTGAGTGTGGCACTCAGCCAGTGCTTTGCTAAAACACAACTGTGAACTCACAGGTGCTCA
GCGTCTGCCCTGTGCTGTCTCTTTGGTCCCTTTTCCTTGAGGCCAGCCTAGAGCTCCAATTGGCTCTTTTTTTCCTCTTCAGGTTTAGGGATTG
ATGGAGCCTTTTCTTTACCCCCTTTTCCTAAGCACGGAGGGAGAAAGATCGTTGTTGATGCTGCGAGCCGAGAACCCCAGAGAAGGACATCCAA
TCAATCACTCACTCGCTCGCTTTCTCACTCCTCCGTCCAGCCAGGTTTTACAGGGACATCACTCAGCCTCCTCCAAGAGGCCTCTGTTTATCTG
GACTCTGTGCAAACATACTCAGCACCACTGCCAATCACATGTAGCATGGCAGGAACAGGAGAAGGACAGCTCATTAGGAGAAGTGAGAGATGCA
GGATTGCTCAGACCCAGCGCTGAGCATGGAGATGGAGGTGGGGGCCTCTGAGTGTCTTCTCCTTCCTCCCAGGCCCGTGCAACCTAGGGCTTGC
CCTGCTGAAGGCCCGAGTCCAGGTGCATTTCAGAGACTAGAGAGCTCTCCTGCCTCTGCCTGTGTCCTGCAGTCCTCCCATGGCTGTCTTCCCT
GAAGTCTATCCGTGTCAGAGCTGCTCCGGTAGATGGATAAGAACAGTTACATCAGCTTACTTTTTAATTACACTTTACAGAGGGGGGGTCCTGA
GACCGTGCTTTCAGGAGAGTTAGATAACAGTTGAGATTACAGGCTGGCAAAGGAGCAGGTCTTGCCGTGTGAGTTCCCTGCAGTTCTCCCACAG
GCAGCCACCCCCACGGAGGACCACTGCGGTCAGGAGCACAAGATAACCAGACGGCTTCTGCTCTAAGCTACAATTACCTCCTTAGTCACCAGA
CAAAGCAGGAGGTGAGGGAGGGTGATGACCACAGAGACAAACCCCTCTACTCTCAGGACACCAGGGTCCCATGGGAGCCACCACACCTGAAGTC
TGTCACTCAAGGCCCAGAATGGAGAATGACTGATAGAGACTGCTGCTTTTTTTTTCTCCCTGAATCCTGGGGCTCAAAGAGGGAGAGAGGAGTC
CTGGGGCCTCAGGGAGCAGGAGAGGCGGGGCCTGTCAGCCTGTTGTCTGTGACTGTCAGGCTTGGTCTGGATTTGGCCTCCGCTGGCTTTACTG
TTCCGTGTGTGGATCAAGGAATAGTTTGTGTCTGATTGAGAAATGTGAATGTGTATGTGTGCATGGGTGGATCACACACAGGTACACACACACA
CAAATATATGACAAATGCATACATATATGTGTGACTTATATGTGTGTGTGATAGATATAATACATATATAGAACATGTTATATGTATATGTGAT
ATAAACACATTGTATGTACATATAACATATATATGTGCTATCGTGTATATGTGTGTAGTAGACATGTGCTACATACATGTGTGTAGTATATATA
AACACATTACATATATATTACATATATGTATGATATGATAGAAGTATGTACTGTATACCAGCATGGTGAAGATATGAGTTGATAGGAATATATA
GACATGCACATGTGTGAGTATGTGGTACGTGTGTATGTAGATGCATGCAATGCACATGGTATAAGCATGTGGCATATGCATGTGTGGCATCAGC
ATGTGTGTGAACACACACACGTGCATCAGAGAAAAGCAGAATCCACTCTGGCTGCTGACTCATGCCAGTGTGCTGTGCTTGGCTCTGCACAAGG
CTCATGCCAGTGTGCTGTGCTTGGCTCTGCACAAGGGACTTGTCTTACTTTTCCGCATGATGAAAAGAATGGTTTGGTGACAGATTTGACTCTG
ACAGGACAGTTCTTCAGGGAGCCACACTGCCCAGCCTGAGACTTTGCCTCAGCAGGTATCTTCACAGCAGTCATACTATGTCCACACAGCAGTC
ACACTGCTCACACACTTAGTTCTGGATTCCTTTGCCCCAAATGAATTAATTCTACTTTCCTCTAGTCTTGGGAAGGAAGGGTGGATGGTGCTGA
TCAAGAATATCTGTTTGCTGGGTTAAAGCTGGTTGTTTAGTCAGCATTTAGCCTTAGCCGGATGTGTGCCCGGAGCCTTAGGTACTAAGGAGAC
AGCAGGATTCATGTCTCCATAGACTCAAGGTTCAGCAGGCACAGACACACCACAGTGACACAATGGTGCTGTGGAAAAAGCCAGATGCTGAGGG
TGAAGCCAGTGGGTAGAGTTCATGCTTAGAATGCATAAAGCCTGGAGTTTAATCCCTAGCAATGTGTAAACTTGGTATAGTGTAGATACATGTC
TCTGCAGTACTCAGAAAGATCAGGAGTTCAAGGTCATCTTACATAGTGGTTTCAAGACGAGCCTGGATTACATGGCAGCCTGACACACACACAC
ACACACACACACACACACACACACACACACACACACACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGTC
AGAGCTCTAAAGACTGTCTTAATGGTTAGGTTGGGGACAAGCTCTAAAGACCAGGTATTTGCCTAAAAGAAACACTAAGGAAATCGAGCCAAGG
CATCCCATGAAGTTGTTAAGAAGCAGCAAGCTTAGAGCCATCCAGTCAGCCCCAGCCGAGGAGATGCGGGCGGTCGGGCGGCAGACGTAATTGC
CATGGGTGCCCTTGGGAGGAATCCACCTTAGTCCTTTAATTCCAGACTTGCAGATAAGGAGCCCACAGAAGAGTCTGCAGGAAGCACAGACTTA
GAACAAGGGGTGCCAGATGGGTAGTGGTGTCTCCTAGTGAGGGCCGCCTCAGCGGGGAGGAGTCAGAGGCTGCATTGACACCCTGGCCCTCAGG
GGCACTCTGAGCTCTGACCTGCTACATGTCCTAAATAGAACAATAAGCTCTGTATGAGCACCATGGTCCCTGCTGTGCTCACACTCCCTCTGAC
AGTAAGGCAGGTCCCACTTCTCCCGCAAGAATTCTGAGGAGTCTCTAACTCCATGCTACTCAACCTATGGGTTGCAATCCCGCTGGCAACCGTC
TAGCTCCAAAAATATTTACATTATGATTCATAACAGTAGTAAAAAGGTAGCAATGAAAAACAATGTTGCAGTTGGGGTTCACCACAACGTGAGG
AGCTGTATTAAAGGGCCGCAGCGTTAGGAAAGCTGAGAACCACTGTTGTCACCAAGGCCATCTAGCCACAGCAGGAGATATGACAATCAGCAGG
AAGAGCCTCTCTGCATATACCTAACAACGGTTTAAAAACAGACCAAAGGATCGCCAGTCTTCACACCGAATGGGGCCATCACAAAGTGGCCATG
AACTTAGAGTACAGCCAGTCTTCAGTAAATATGAGCCCTGCACGTGCCAATTCATTCAACAATGAACAGAAATGTTCTTCTTAGAACAAACAAA
CAAACAAACACATGTCTATTAAGTGGGAAGACTTTTCTTCTTGTTGTTCCCCAAAAGATACAATGTAAAAAAAAATCTGAGTTTCAGAAGATGG
AAAGAATTCAGGAAGACATGCGTGGGTTGTAGGTACAAATATGGGGCCGTTTAGATCAGAAGCTTGAATGCCACCGGCTTGGTAGTATACAGAA
ATCAAGCAGTCACCCACATATACTGAGGTAGGGATTGTAAGTGGTATTTTATTCTCCAGCTCTCTGCAAAGCAGAAGTCTGTAGGAGAAGGGAA
GTCATGGTGCTCATGGGAAATTCACGGGCCAGGAGGGGGAGCCCCTCCCCCCTCCTCTCACACATATACCTGGCACCAGCAATAGCGGCAGCAC
ACAGATCTTCCTAGAAACTGAAGTTATACAGGTCTTTACTCTAGACTTCCTAGCAAGAGTTTCCAAGTGCTCCGGGTATAGAGATCCCTCAGAG
GGCTGCAGACCACTGTGCCCCTCTGGCCCTCCTCACCCATGGGTCATACTGGGGACAGAAGTGGGACAAAGAGGAGTGCATGACCTGTGATCTA
AACTCAATTTGGTTGTGTCTCTGTATTTCTTCACTTAGGCAGGGAGGGGGTCACCAAAATCAAAACAACTCATTCTGGGTGCTCTGGGTGTCGG
ATGGGAGGACTGGGGCACTGAGGGTGGGTTGGGACCCGTATTCTTCCTCCATCTGGCTGCGTGAGATGGGCAAAACGTTAGAACCTCTCTGAAC
TTGGCTTGTCATCTGTCATTTTAAAAGATATGGCTGATTTCTCTGGCCCTTTTCTAGTTCTTCGGTGTAACAGCTGTGTCCTGTTTTCTTTGCA
TGATGGCACGAGAGGAAATGAAGAGACGAGATGAAACCATCTAAGTTCACATAACATCAGACAATCTGTAAAAACATACATATATAAAATGTAT
TAGGGTATATATTAGCATACATCATATAATATCATTGCATGTTTTAGGTATAGTACGTGGATTAATTTAAATGTAGTTTAATTAATTTAAATGT
TTGCTAAACTGAATTTCTCTCTCTCTCTCTCTCTTCCCCCTTTTACGATGCTAGCACTGAGACTTGGGGCCTCGTGAATGTTTGGAAGCAGTTT
CTCACTGAGCTACATGCCCAGTGCTTTGTAATATGTGAATAATATGCAATAGGAGACAGTATTTCTCAACATTTAATTAGCTGGGAGATAGCCG
GTTTGCTGGTTGGAAGGCTTGTCTTACTGCAAGACAGTTCAAGGAAGGGACAGAGCTGAGTTCAGTGCAGTTAGCCACTGACTGGGACACAAAG
AAGGGGGAGGGGTTCTCTACACTGCCCTTCCATAGACATAAAACTGCCCCAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNTATATGCCATGTGATCTATCCAAGAAAACCAGAAAAACTGCGGTCAGAAATAGGAGCTGACAGGTTGGCTAATC
AAAGGTTTCCAGGAAAATCTGGCAATTCCACCTCATTGCCTTGATAGAGAAGCAGATGCTCTATTTCAGTCATTTACAGCCGCAGACCACAGTG
GTGCCCTGGCAAAGGCAGCTGAGGTGGTAGTGAGTTGTGCATGCTATTCTGCTCTGTTTTTAACAGAAAGAAGATGGCAACTGACCTTATTATC
TACCATAAAATACAATAACGCTTAGGGGTGCTCTGATGGGCAGCCACCTCAGGGAAATAGAGAGACCTGTCTGGGATGGAGCCACTGGGCAGAG
TAGCATGAGTTTACTTTATTATATCTTTCTCTTCCCATTTTTTGTTGTTTTCTAGGCTGTGTGTTTATAATAACATTCTGAGCAGTGTTTTCTC
GAAATATGTAAAAATAATAATAGAATATCTGGGACCTCCTTTCAGCTCTGTGTGAGCTTCAGAAAGATGCACCCAGTACCTTGTGGTCACAGCT
TGAAGCCCCACTCTGGAAACCTTCACGATGGACTCGCAGTGAACTTGAAAGCCCAGGTTACCAGAATGTGTGTGTTTAGTCTATGTTACAGTCC
TCCGGTGGTTTGATCCAGTGTTGAATTCCCTGTTACCCTCCAGAGCCCAGTAATCAGTAAGAGTGAAGCAGGGATTTCGAGTGGGCACTTTCC
ATACTCCTGCATTTAAAATTCAGGGGGCAAATTGATATTTTAATAGCATACAGATCCAGGAAACTAAAGACATAAAGCATTCATTTTCCCCCAG
CCTGAGAGTTTCCATCGGAAGCTCCTATGTTCCATGCAAAATATTGCTGTTTGGCACACAAAGCCCAATGGTTTCAGAAGAGAATTAGGTGCTC
TTGATTCTAAATGCACTTGGGGCCACGCCTTGAACATGATGATGCCCTGCGTTCCCTGGGTGTCCTGGTGTTGCAACTCTCTAACACCCTGTGG
ATGTGGGGTTCAAGCTTTCTCTCAGGCAGAACCTCTCCTAAAGACTCCCAGAATGCACACGGAGAGAGCATGGAATGAAGTATTCCCTAATCCA
GAGCACTAGACCCAGCTCGGGACTTTCTAGACTCATGGGGCTTAGGAAGCAGCTCTGAGAAGCCAGGCCCAGGCATTCCTGCCAGAGCAGGCAG
TCATCAGTTAATCTCTGTAAATGACTACGATTCTGGCAGGTGTCAGCTGCTACGAAAACAGATCACATATTAGGAGTCCTTTTTTTTTTTTTTA
ACTGAGTAACGAGGGAAGAGAAATAAAAATAATATGTCACGTGTGTTGGCCACATAGGGGCTTGTCCACTTGCCACAAACAGCTTATTCCTGTT

TGAGTTCTCAGTGATCAAGTCCCCAAATTCACAGAGCCAGATACTCAGATAGCCATTCTTCAAAGGCTGGCCAGAGACACCACCATTAACTGAT
GCTCTGACTTTAGAATGATCATGCACACAAGTGAGGGGGCTCATGCGCACGCGCGCACACACAGACACACACACAGACACACACACACACAC
ACACACACACACGCATTCCCTTCCTATGGCTACACACTGTCCTTCACGGTGTTCTTCCAAAATGCCACTGGGTGCCTCAGGAATGCGAGGCT
GCGACACAGACAAAGCCTGCTGCAAGCTCTTGCTGACCCACATTCTTTCTGAGACCATACAAGCTATCCAGCGTCATGTTTCCCACCTTCCTCT
TCCTTGACTGGCATGAGAGACCACGGCAGACACTTAAAAGGGGCCGCATCACGCTTTAAATGGCTTTAGAGCTCAGATTGTTTTTCTGTGAGAA
AGCCTGAGGTTTCTCAGGTGGGATGAGGAGTGGGGACTGATTGGGTCGCAAAGAAAAGAAGAGGGAGGATCCAGAGAGGGCTGCACACCGAACT
ACATATACTAAGACTGAGCAAGGTAGAAGGCTCTAGAAAAAGAAGTTTTTGTACTTCTGCTGGTAAAAGGCTGGAGGGGGTGGCTCGGGAACTT
GGCCTCTTTTGTCCATAGAGCTTTAAATACTCCGGCTACAAGAGGCCTCTCCCATGCGCCCCGGCCGAGCCTGCGTGACTCAGGGTGTTTGTGT
TTGAGTCCAGTGTTGTGAGCTCTGAATGACAGTCCAGATTTGCCGTGGCGATACGTGGAAAGAGCGAGCGCTGCATGTGAACTACACAAATATT
ATGCTTAAGCTTTTTTTTTTTTCCTCCATTTGGAGCCAAACAGGTCTTGTCAGTGATAAAAATTGCTGCAATATAGTGGGCCCTTTTTCTGGCCT
GGAATCTGAGACCGTGTCGGCAGTGCCAAGGAGGCCCATAGCAGGAAGAAATAGCAAGCCGCGGGGATTTGAAACCATAACACAACTTCTACGA
CATAATTTTATAATTGTAGCAATCGGGAACTAGGTGGTGGGCGGGGTAGCCTTGTAACCACTCCTGTGCTGGAAGAATGGTCCAGGGTCCTCCG
TGTAGCTCTGGGCTGGGCTGGGGTAGCAGCAACAGCATTTCTATGGGCAGAAGCCAACGGCTTCCCCTGTCTTGTTGTGAGGCTGTGTACAGGA
GGATGATTGTGGCTCAGGCTGTGTAACCATTGACAGGAGAATGGCCCTGGCTCAGTCAACGGTTCTAGTCAAACAAACCTTGAGAACGAGGAGG
AAACAACAAAGTCGGCCTCTTAAAAGGAGGAATGGATCTCTACTGTGACTGTGTGGGAGGCTGGGCTCCTCTACAATCTCTAGTCTGCATAATA
CTTTGAAGGGGATGGAGAGGAAAAAAAAAAAAAAGCGGGAGGCCCAGCCCTCCTGACTGGCCCACGTGGATGCCCCTACTTGCTGTTTCCTGGT
AACAGAGACACCTACCACCCTTACAAGACAGCAAGCATCCCACCTTGCTTTTCATTCCGAGGGAAAATCAGCAGACCAGCTGGCCACGCCCTCT
GAGCTCCCAAGGGCCTGGCCTACTAGGAATATTGGAACAGACCCACGCTGCACCTTTCTGCCTACTTCCTCCTAGGGATCCGCCCAGGGAGTGG
GCTTCAGGGAAGTAAGGATGCTTCTGAGGAGCCTGTACGAAGGAGGAAGGGGCCTGGGTGTGTGAGGGCAGAGAGGGATGCCCTGTGCCTGCCT
GCGTGTAACAGGAAATCTCACTCCTCCGCTGTGGGTTTGCAGCTGCACCCAATTTCCTGTTGAAGGGACACGCTGCTACGTTCCAGGGCCCACT
CTGGCACCTCTCAGACCTGCTGCTCGGGTTTTCAGGAAGGCAGGGCATTCTTGACCCCGGGAGGGCACCTTTCTTGGCTGCCACAGTTCTGTTC
CCAGCCTGAGGCCCACAGCCAACAAGCAACGGGCTTCTTACCCGGGGCCACCATCAGCAGTTCCGCTCACTAGTGTCTGCCCACCCGAGGGGAT
GTGCGGAGAGCTGTGGGCACCGAGTCCCAGACTGAGGCAACAGCCAGGGACCAGTGGGCTGAAGGAACCTCAGCGGGCTATCAGAAGGATAGCC
CTGGTTCCCACAGGCAGCCAGCCCAAGGGCAATGTCCAACAAGCTCACCTTGGGGGTGAAGGGAGAGGGAAAGATAAGAAAAGTCCCC
TCCACAACACGTTTTCTGATCTCTTCCCTCCCTCCTTACCCTGCCTCCCTCTCCTCCTCCTCCCTTCCCTACCCGGTCCCTACACTAGGAC
ACGGCAGAAACTAGATGATCAGACCANNNN

GTGTTTGTCTCTGTCTTTCTTTGTCATATGCCTGTCTCCACCCCTAGTCACATACATATTTAAAGCCAGCGTGGGATGGGCCTGTTGATTTCCT
AGGCCATTTCCTTTGAAATGGCCATTTCATGCACACAGCGTAAAGTACTAAAAATTAACCCTTGCAGCTTGCTTATAGCACTAAGTAACTTTCC
CTTCAAAATAACTCCTGTCTGTGGCAGGCACTAAACCCGAAGAGCTGCAGGACCGGAGTTGTACACGCACAACACGCCAGAATCAGATGTTCAC
ACAATAAACAGGGCAGTGGGGAGGGGAAGGGAGAAAGAAGAAGTGGATAAGAGAAAACCCTGAAAAAAAAAGAGTGCAGACTACAGAGCCCCTG
CTACATGGTGTGTGCTTCCCTGCCCCTGTCCTGTGGTATGTGTTGCCACGCCTCTGTCACATGGTATGTGCTGCCCCGCCCCTGCCACGTGGTG
TGTGCTCCCCTCTTCTCACCCCACAGTGAGAAGACAGAAGGAGTAGTCCAAGTTTATAGAAAGAGAAGCGCTTCTAGGCAGGAACTGAGGATGC
CCTGTCATGTGCATATATATTCTTAGCTGGTGCAACACAAACTCTATGTCTAAAGAAAGTATGAATGTGCGGGCTAAAGAACTGTACCATAGAC
ATTCAGGAGAAGAGAAAGATGGGTGTCAGGGAGGAAGCGCCAGCAGGCCTTGGTGTTCTCCCTGTTTGGGCCCCTCATCTATTGAGCGTGAGGT
ACTAACATAACCTGCCACCTTAAGGATGGGCACAGGTGCCAGCACCTTGGGCCCTAAAACTGTTCAGTGTCACAACCCTGGTGTATTATGTATT
AACCTTACCCCCAAACACTTAATCAGCCCTTCAAAGAATCACTTACCACTTAAACTGACACTACCTTTGTAACCCAAAACCACAGTTTAATAGG
ACCTGGTTTCCAAAGCGGTTCATGACTGTTGCTCAAAGAGGTCTGCCCATGTTCTCAGGATCCTGTTAGTCCCTCGTGGATACCTTTTCTGATG
ACAAGGGAAAAGTCACTTACTATGGGACTTGGTCTCTATGATCAAATCGTCCTTCTGACGCTTCGAACTTCTCCCTAAGGCTAATGACTCTAAA
CCTTGTCCTCAGGGCCTTTCAGTGGTCTTTTGTGTATTTGCTGAATGGTGATGTTAAATATTCGAGGCTTCAAAAGGAACCAGTCCTTAGCTGC
TAAGGCGGGAAGAGTACAATCACAAACTGGCCCAAACTGGCTACGGCATATACTCTAAGATTTTTAGCAAGAAGTTTAACCTCTTAAAGCCTCT
GTCTTCCCATCTACAAAATGGGAATGGTAATTGTTCTTGTCGGAATGTCCTTTGAGCGGTCACTGTTATAATCCTTGTCGACAACACCAACTTG
GCTAGTTTTCCTGTGGCTGACACAACATACGGACCACAGATTTAGTGACTTAAAACAATGAGAGTTTATTCTCTCAAAATTGGAGGCTACAAGT
CCCAACATTAAGGTGACAAGAGGTGGCACTCCCATTGAAGGCCTAAGAGAAGGACTCTCTGGCCTCCTCTAACCCTTGCCAGCTCCAGGCACTC
ATTGGTCCATGGCTGCATCCTCCCCACCCCCTCTCTTCTGACAGCTCTTCTCTGTTCCATCTCTCCTTCTTCTTCTTTAAAGGTCTCATGTTAC
TGGATCTAGACCTAGGCTACTCAAGACAGCGTCAGGCCCTTCACTTAGCTGTGTGTGTGAGAGACCAGACCCTTTGTCAGTGAGATCCTCGTCA
CAATCTAATGGTCAGAATATGGCCCTGGCCTTTCTGGTGCCACCGTTCAGTGCCAGAGATTAAAACCTGTTACATTGATGTCATCGGAACATTA
GCCGGTGGATCCCGGTCAGTCCAACGAGCCCCTTCCCATCTGTCCCTCAGAGTAGACCTAGTGTCCAGATAAATGTGATGTCATGCCTGTGTGA
CCCTGTCTTGTCATCTGCACTTCAGCATCTCAGCCCTTCATTTGCCAGAGCCATGTCCTGATTCTTCCATTCCCCAGGTCAGAGAATAGAGTTT
CTTTTTTTTTTCCTGGGCAAGATCAGCTATTTCCGAGTGTTTCTAGAGCACCCATACAGATGAAGCCAAAGGGTCAATGGTGGTGGGAAAGGGG
GGCTTCCATCCCCCTACCCCAATACCTAGGGTGTAATGTCAGAACACAGGAGGCTTGGAGCCTCCAGAATCCTGTGGCCACATAGACAGCAGCG
AGCAGAGAAACAAAACTTGCCCTGATGCCCAAAGCCAGCCAGTTGGGAGGTACTCAAGAATTCGACCTCCAGATGAAGCCAGGCCAGAGGCAGG
CATGTTGTTGTTTTGTAGGACCAAGCAGCAGGCGTTAGCACAGAGTCTTGTCAACCAGATTCCCATGCCAAAAGGACCATGGTTTGCTTTGGGC
CCCGGTCATGCCAAGCCACAGATCACAGATAGCCTTTCAAGTCTGGAGGAGGGAGAGAATTTTTAACGGCAGCTGTGAAGCTTTATC
AAAGTTTACCAAAAGTTTGGCCCGAGAGAATAGTGTCAGGCTGAAAGGGCCACCTAGGCATTCTCCCAGTGCTGGGCTTTGTAAGTGCAGCCCA
AAGGCTTCATCACTCTGTCTTGTCTTGTTTCCCCCTGGCTCCAGGACACCCCATTCTAACTCTAGGGGACCATGAACTAAGGCACTTGGTGTCC
CTTATCTTCCAGACAATAGCCACCTAGTACCGAGTCTCTGCCCTGTTACCACACTTCTTGGCCCCACACAGACTCTATATTCATATTAAACAAT
TGATCGCAGAGCCGCAGAGCAGCCAATTGTTGTGGAGATTAAAGGTAGGGATCGCGGAAAGCCTGCAGACGCACTGTTTACTGACAAGCCTCCC
ATCTCTCCACAGAGTTTCCTCCCATAATCCCTTTCTGGCAGGACATTTTATGTGTCAATGCCGGGCGATTCGGTTACCCAGGCACAGTCAATAT
GACAAACTAATAAGGAGAAAAATAGAGTAGAACTCACCCTGAAAACAAACACAGATCAGTCATGTGCCTCTCTGTGCATGCCTGAGAACAGAGC
AAGAAAGAAGTGGGACAGGGACTGTGCTGTTTCCTTGTTCTGTTGATCTCTGTAACCAGGTGATGGAGGGTCTTCAGGCTGAGTCCTAGCTGAG
CCTGGCTCCTTTGAGCAGTGCTTACCACTTTAAAAGTAGCATTTTCAGAACAAACAGAACCATGTTTCCTGAGCTAGAATGAGCCTCTAAGCCA
CTGGTAGTAGAGGCTGGCCAGAAGGGACCCTTACTTCTGACTCAGGTTGAAAGGTCACAGAACCTGGGCCTCCCTCATTGCTCAGTGTCTCCCT
CGGGCTCATGCAAGGCTTAGAACCTTCCAGACATATTTGCAAGATTTGAACCATCACTGATGGTTCAAATTCTGATCTCCATGGATCATAACCT
TATCCTTTTTAGAAAGCTGGTGTCTTAGTTAGGGTTTTGCTGCTGTGAACAGACACCATGACCAAGGCAAGTCTTATAAAGAACAGCATTTAAT
TGGGGCTGGCTTACAGCTTCAGAGGTTCCATCCATTGTCATCAAGGTGGGAACATGGCAGAGTGCAGACAGGCATGGTGCAGGAGGAGCTGAGA
GTTCTACATGAAGAGTAGAACTGAGAGTGCCACCTGAATGCTGCTAGCAGAATAGTGACTTCCAGGTAGCTAGGGTGAGTGAGGGTCTTAAACC
CATGCCCACAGTGACATGCCTACTCTGACAGGGCCACACTTTCTAATAGTGCCACTCTCTGAGCCAAGCATATACAAACTATCACAGGTGGGTA
TTCATTTTAAACACAAAACTGCAGCCCTTTCCTCTAAGAGGGGATTATGTGGGTGGAATCTCTGCTGTATCAGATGGGAAGACACCTTCCATGT
CATCCAACAACTATGGGATGCCGTCTGAGGACACCAAGTCTGTCCCTGGTTCCTTCCTGTCCCATCTTAATTCTTACACAGTTTCACTTGTTGA
GTCACTGAATTTGGGGTTCCAGGATGTAGCACAGTTAAACTCATCAAGGCTTGGGCACCGTGGTGACGAGTCAGCCCTGGGAGTTTGGCAGGGG
ATGTGCTAGAACCATGCTGCTCTGGAATGAAGAGACACCACTGATAGATTAAAGTAGAACTTCCCCAGGACAGGAAGGTCTATGAACTAGTCTT
CTCGTGGGTGGGATGGTTCACCCATTAGGACTGTCTCCAGCTTCATGGCAGGTCCTCTCCCCATGAGGCGTTCCAGGACCAGATCTGAGGCTCA
GAGCTAAATCTTCACTATTTCCTCTCCACACACTTTGAAGGGCTGCTTCGGGTGGCTTTGAGAGAATATCTTCAGACAAAAAGGGGCAGAGGAC
TAATGAGACTGAGGACTGCTCGCCTTAGAGTTGCTGCTCACACAAGGGAAATGAACACGATGGCTTTATGGTGTCTCCTGGGACGACGGCGCTG
CCTCGGCCACTCTCCTTCCATTAGCACATCTCTCTGCACATATCAGATGGCAAATTACAGAACGATAGGGTTATTAAAATATCTGTAAAAGTCA
GCCCAGGCTCAAGGGCTTGACTTGGCCCTCCTGCCCGTTCGGCGGTTTATTTACATCTCCCAAGGTCAGCTCGCCAGCATCTGTATTTTGCGGT
AAACCGCCCACTCCGCAGACCAACCAGAACAGCCCACTTTTGAAGATGCGCTTCCGTTGGTTTTCCAGTAAGGCACTGGCACTCTTAAGAGTGA
GCCCAGAGCTCTTCAGACCTAATCCTACTGTCGCCCCCCACCCAATTTTAAAACTTCAGGGTAGGAGCGTGACCGTGTCTGCAGCCAGATTATC
ACCAGAGTAGTTGAGGCAAGAAAAACTATCATAATGATATTGTTGGGTTCACACATTTACCAAAGGCAATTATATAAAGCCTTCGTAGTTCATG
TTGACAGAACAGATTGCGAGTGGTCTGGTGAGGTCACAGGCAGAGGAAATACCCTCTAGAAGGTTCAGGTGGGCCACTCCTTCTTTTTCATAGT
GCCTGACACTCCCCATCCCCCCATACATCTTTCTCCAGGGGGCGGGGGGGGGGAGGTGGGGGGGATGCATATGGGTGAGCACACACACACATGT
ACTCCTGAAAGTCGGAGGACAGCCTCAGGTGTGGGAGGACGGTCTCAAATGTCAGCCTCCAATAACTGCCACATTTGCTTGAGACAGGGCCTCT
TATTAGCCTTTTGCTTTGCTCAGTGGTTAGGCTAGAAGGCCAGCCAACTCCAGAAGTCTGCCTGTCTGTATCTCCCATCTTGCTGTAATCCTTG
AGGTAACCGCCATATGCTGCCACACCCTGTCCTTGGGATGAAACTGAGGGCCTCATATTTGTGAGGAGAGAGCTTCACTGACTGAATCTCCCCC
TGCCTGGCACTGCTCTCTACAGTTTCCTAGGCCTTGCTCTCAGGCAAGTGAGTCACTGCTTGGTCCTAAACATTCTGTAATTGTGGGCACAGTA
TCTTGAAGGGATTAGAGTCACCCCTAACACCCTCAGGGAAACCAACCTCCATGCCCTAGAGCCCCCACCCCACCCTGCTGCTTCTGATTGGCAG
ACTTTTGTGGTGGTGGTGGTGGTGGTGGTGGGGGTGATACTTTTTGCTGTGTGATCAAGCTTAGAGAGGCTAAGAGCCACCATATGTTGCCAAAT
GAGAGAAGCCACTGCCCAGACATGGATCTGTCTGATTTAATATGATTTTCCATAAATCGACAAAGCAGGGGTTTGAAATTGAATTTGTGTAAAAT
TACAGATAGCCAGCTCAGGTGGAAGGGGAAGGAAGCCTTGCTATTCATGTTCCCGTGGCTTTTCCCGGTTTCCCCATTTGAGTCCTTCACGCCT
TGGGGGAGGGGAGACTCGGTGGAGGGCCTACGGAGGGTAGCTCTTGCAGTCAGACTTTCTCCCTGGCCAGTCATGGCTTCCTCTGAGGAGGACT
CCAGAACCTGGAGATGTTGGGGCGAAAGGACAAATCCTCTGTCCATCCATCCATCCATCCCTCCCATCATCCCAGCACAGAACTCAT
CTTCACACCTGGTCATCAGAGGGGCTCCAGGATAAACTTGGGGAGAGGGGGTACCTAGAAAAGCCTAATTCATTAGGACGGCCTCATGCCAATC
CAGAATGCTTTGGGGCTCAGACTCCGACTTTGTCCACTTTCTAGTTGTAGGTCCTTGAAGGAAGGAAGCACTCAGGTCCCTGTGCCACACTGTT
GCCATCTGTAAAATGGGCACGCTCATAATGCCTGACTCATGAGATGGTCTTGAAGACGAAGTCAGCATGATTATAGTATTGGGTGGTCAGCATG
CTGTGTCTTGGTATGGTTGTGTCTTGTTCACTCCTGCAGAAACCCCTCACTGAGGCTGAGATGCGATCCTGGGATGTGTAGAGCACAGCGCCCA
GCGTGTCTAAAGTTCTCGAGACTGCTCCCGCCGTCTGTGTAACCATAACTGCCATTCCTGCTACAGCTCTTGCTGCCGGCTCTCCGGCTGACAT
GAGGCCTGTCCTGCGAGGCTCACAGCCACTCTGTGACAATGGCCTTTAGAGTTTTGGTGATTTGAGTTTGGGGTCCTTGGGTAAACTCCAGCGG
GACCATCCATAGTCACTATCCACATCTTTGCCTAGCGCCTCTCCCCTGCCCCACCACCCCACCCCAGCCAACACCCTGAAGGTCCAGGC
GCCCTCCATAACTGAGCTCTCCCAGGCTGTCCTCTTGTACTGAAGTCGGTCATATGGGGAACGGCTCATTTCCCCAGCGCTGGCTTAGCCTTAC

TCAGCCTTTTCCCTGTAATGGGATTTTGGCTCTGGGAGAGGGCAGGATTTAGTTTCTTATGGTCCCTTTTCTTTTCTTCGCTTAATGTTGAATT
TTATTTTTAAAACGTTTTTTTTTAGAAGGAATAATTAAAATAATATATTTTAAAATGGGGTTGTTTTTTTTGTTTTAAATAAACAAGGCCATACAC
GCTTTCTCATCCTCTTCAGTTCACAGCAAGCACTCCCAGACTGCTAACAGCTGTAGTGAGCTAACAGGTCACTTCCTGAAACCAGCGGCCCTGA
CTGGGCAGCGTTCAGGGGGTGGTCCCTCCCCCTCTCCGTTGCTTTCTTGAATTAGACTCACCATATATGAGTGGCCTGACTCTTCTGTGTTTTT
AATGTTACCGTCTACTAAAGGGTTTCTTTGAATGAGGTCTCATCTCCCTGACTGATTTTAAGTCAATACCTCCCTCTGCCAAATCCACCACTCT
AAGCCTGCTCTCAGCTGCAGCCCAGGCTGTCAGACCCAGAAGAGGACAACAAACAGTGTGGGAGGTGACACAGCCACAGCTGTGGGAAGGACAG
CCACTCAGGGCAGGCCCTAGGCTGGGACAGGGGGGAGGTGCCGAGTGACAGTCCCCTCGACCAGTTCAGAATGGTCCTGCCAGACTTATGTCAT
TACTCCCAGAAGACTGCATGCATGAGCCGAGACCTGTATCCAGCCAGAGGTGCCCCTGTTACAGCCAAGTCTTTGCCATGAATTCAGAGTCAGG
GCCTTGAATGGGTAGATCAGAGACTGTTTTGGAATTTGTAAGATTAGCCACCACTTTCTTCCCCCCCCCCCCCCGCCCCCCTCCCAAGCTACCA
GGGAACAGGATCCTGCATAGCTGGTGGCTTCTGGCTCCCTTCCTTAACTGAGAGACAGAGGACTCCAGCATCCTGGCTCTTAAGTGATATTTAC
TTAATAGTTAACTGGGTTTCAAAAGAGAATGGGGACTTGACTCCCTTCACTAATTAGCCCTGCCGGCTGGCTTGTCATCTCCACCTTCACCACC
CACGGAGTGTGCTCTTGACAAGTCATGACCCGAACTCCCAGGGGACTTGCACTCTGGGCTTGCCTCCTCCACTGTCTGAGAAACACAAGTCTCT
AAAGAAGATAAGGCTAGAGCAATGAAGGGCATTCTGGGAAAACGTAAAGGATCCCGCCCCCCCTCCCCAGATCCCAGAGGAGCAATGGCAGCCT
GGAGGGGAAAGTGACTTGCCACAGGTGGCATACACTGTTATCCGAGTGCTTGGCTGTCTTCTCCGGTTCGGTCGCTGGACACATTCCTGGTATT
TGGAAGTAGCACAGGGAGCCTTCCTGAGGAGTCCCTTCCAAACACCATCCAGGCGAACGAGGGGCTGTTGGGACAAGATAGGGCAGACCCAGGT
GTGCCTGTGCACAGGGCTCCACCCAATTTCTCATCCTTATATTTTATACGTGTGTGTGTGTGTGTGTGTCTCAGTCTCAAATAA
CCCAAACAGGCAGGGTACTGATACTGCAGACAGTCTGCAGGCACCTGCCCAAGANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNGGAAGTCCTAGGTCAGCCAATGCTTGAATTCTTTTCCTTTCCTGTCCCCTCCTCCCTGCCCACTCCCATCCCCCCCCCAA
TTTAATAAATTTATATTTAGAAACTAAATATAGTTTCTAACCAACAGCAGCCCTGTTATGAAGAACATCTTGCAGCATAAGGAGAGAGATCTCT
TAGAAAATCAATTTCCATCTGTAGAGACGTGGGATAAGGAAGGGAATGTAACCTTTAGCCCACCACCACTCAACTCTGGAACCTGAGCCCATCC
CCGTCACAACTCATGGTTGTGTCTCTTCTCGTTCTTTCTTTCCTCTGCTGACATGAGAAAGGGAATCACTCACTGGTGAGGTACCAGACATCAC
GCTACAGTCCAGCCTGCTTCTCCCACAAGGAGAGGCAGACTACTGAGCTGGCTATGGGCAGCCCCACCTGTAAACTCTGCAAAGCCAGCCCCTT
GCCCCAAGGCTCTGACAGCAATAGATAGAGCCCAGGTTGGCTCCCCTCAGGGTTGGTGTCCCTGAAGGGGGATTGGTCAGCCATGAACTCATCC
TCACAGAATTGTATAGGGGAGGCTCAAAACAAGGGTTCTGCAAACTATCCCAGGCATTCTGTGATGTAAGAGCCCACGATATGGAGGCCATGTA
GGAACCCTTGGTGCTTCTCTTCCCCTCAACCCCCCACCATGTTGCCACCATGCCTCAGGGACTCAGAAAACTCAGCAGTCTCCCAGTGAGCTGG
CAGCTTAGGTGCCTGTGGCCATCTTTCTCAGAGCTACAAAGAGCTCCCTTACACACCAAGCTCATCTCTGAGCACTACAGGGAAGGCAAACACT
GTTAGCTCATGGGCAACTGAGGACTGAGGAGACTTGAAGTTCCTTGAACTTCACGTTCTTCTTGTAGCATAAGTCATTGTTGCTCGGCCATCTT
GCGTCAGCCATCTTGCATCAGCCATCTTGCGTCGGCCATCTTGTGTGTCTATGTGGATATCAGTGGACAGGAACAGCTTTTCAGACACGGCAGA
ATGGCCACAAAGTACAGGAATAATGACGCCTCTGACCTCAGTGTGCCTTCTGCTGCTATGACTCTTGAGTGGCAATGTAAGTGAGGATCCTGCA
GCTTCCCCTTGGCTCCTTTGCCTTCAGGTGACCATTATAAACCCCCCTAGGCCCTGTGCGTCCACCTGGTCTGATCATGTAGCCTTCAAAGGCC
ATGCCCACGGCCGAAGAAGCTATTAATGCCTTTCAAGCCAACTGAAGGCCAAAGACTTGGCGCACAGAGCTCTTTTCGCTGCCCATCAAATTCC
CTTCTCGAGCAATGCCTCCATTCCTGTGGTGTTCCAGGCTCTCCCTGGCTCCCTAGTCCATCCAAGCTCTGAAATCACTCTCAGCCAATCACAG
GAGCAGGATGGAGGCAGGGAGTCTGGGGAAGGTACCAAGTGGATGTGAGGTTAGCTTACCTGTCTTCCTCTCTGGCTAGTCCTGTTCCCTCCTC
ACCCTGTTCCCACACTCTCCCATATTTCAGCAATCCTCACATGTCCCTTCCTACAAGGACCAAACTGAGTCCTCTCCCAGTTCCTAGACAAGCC
TGACAGTCCCTCTCACTGTAACATCTCCCCATGTCTGCTCTCTGGTTATACTTGAGAGGTGGTGGGGCCAAGTGCCTTTTCCTTCACTGTCCTG
AGTGAGGCGTCATCCTGCCCAGTTAACAACCGCAGCCTGCTAACCGGAGGACTGAATCTATGTGCTCCAGCATGGCCTTCCCCACACATCTGGG
CTCTGAGACCCACAGAAGGGTCAGCAGAGTCCCAAGTACCCTTGAACACTCCTTCACTTCTCTGGGTCCTCAGGAATACAGGCCACGAGGTACA
GAAACCAGTCAGTCCCTGTAGAAGCATTTTTTCTTCTGATCTTAGGAACACAGGTCAAAGTGGGACACTGGTGGGTGTGAACCCCATTTCAAAG
TTCCAGGCAGGAAACAATGCAGTGACTGGGAGGTCCCTTTGCCTCTTGACATTATGGCCCATAATGTTGTGGCCTTGGATACCCGCCCCTCCCC
ACCATGCTGTTTCCAGACCCACACCAAATACTCCTCCCATGACACCCTGCCTTCCTTCCTCTGCAGACAGCTCAGCCTCACCTGAGGCAGACTT
CCACATATTTGAACCTGCTTTGCATGCTTAATTAGAGACCTAGGCCCTGAAATAAGCTGTCTTAGTTACCCACAACTTCCTAGGGATCCCAGCC
CCTACCACAGCACAATACTGCCTCCACCAGCCAGGTTCCTGCTTCCTGCCCTTCAGGGGTGTGTGTGTGTCTGCTGCTTCCTTCTCAGACCCAC
ATTTCTAGATTCTTTTTCAAATCCATCCTTCGAAACTCTTTATTTAGCGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTC
TCTCCCCACACACACCTTTTCACCTTAATAAAGCCTTGCCCTGGGGCCAGGGCTGGAGCTCAGCTGGGAGAGTGCTTTCCTAGGGCTGTGAACC
CTAAATTCTATCCCCAGCACTTGGCACCCACCGACATCTGTACCACCTGGATTCCAGCATTCAGGAGGTGGAGGCAGGAGGATTAGAAGTTTAT
GGTCATTCTCAGCTCTCACGTATATAAGTTCAAGGCTAGTCTGACCACAAGAAATCTTTTCTTTAAAAATAATTGATCCACTGCCAAGTCAGGG
GGCTTCAGGGCCCCGTCCCCAGCTTCTGGGGACTTTACCTAGTATGACTCCTACCACGCAGGAAAGTCAGGCTTGTCTTCCTCTCATTGTCCTT
CTCTGGTCACAGGATGGTGCTCGGACAGCCAGCCAGACGCTCTCTCTCATCCACCTGTCTCCTTACCCACCATTTGTGTGAAAGAGTGTCAGAT
TGTGGCCCCAAACAGGAAGCCCTCTGGCCCTCTGGCCCGCTAATCCCCTTTGGGAGGAACCTTCACTAGGTACTCTTAGAGGGTCTTCTGTTCA
AATCAAGGGGAAAGTGGTTTGAATGAGCTGTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTTAAAGAAGACAGGAAGTTCCTGTTTTTTAGAAA
GGCTGTTCATTTTCAAAGAACCAACTTACAGAGCCAATCGACCATAGGATTGCTGCTGGATTTTTTTCCCCCAATGTGGTACACAATACATGCG
AAAAAGAAAGCGGGGAGCCCCACCAATGAGAGATAGTCAGTAACACAAAGGGAGATATTATAATCGGCTTTTGTTGGTGCTTGCGTCTTCTTGT
TGAAAACCAGAAAGCCCCTGAGGTGCTGAAGTGCGGACAGAAGCTGATGTTATCGGCCCCCAGAAATCCTGCCTGGAGTCCAGTGGCAGGCAGG
ATCCGAAGCTCCCAAGACCACAGCAACTGGCCCTGCTCAGTACAAACGGTGCTTTCAGTCTCTGGTAAACAGCCTGTGCCCCAGGGCTCAAATC
CTTCAAAAGTTTGCCTAGGTAATTGCGTTTCATTGCTGTCTGGCCTGCGCTCGTCAGTCTAATCTGGAGGTTCAGACAGCCAGGCCAAAGCTTG
CGAGTCTGGAGGGGAACAAGCCCATGAATCTAATCCACTTGAAAGACAGACTAATACAAGTGCAGCTAACTCATTATTTTAAGTGATTTGAACA
GAAGGAGTATGGCACTCTCTATAAAAGGGTTTCAAGTCAGTGCAGTGCAGTGTTTGGCAGCTTAAAGCCATTAGAGGAACTGCAAAGGGTGACA
GTGTGACTCCCCGTCGCCGTCCTCATTTTATGAAGCCTGGTTCCTCCCTGTGACCACCCTAAAATGGTTTTTTCCTGTCCTGCCCTTGGTTTTT
GAGTTATTTGTGAATTATTATAGTAAAAGACTCCAACTTTTGTCTTTGATCCAGGCGTGGGTACGAAAGGAGACACAAATGTAAAGACAGAATT
CTGAGGGACCCCTCGGAGCTCTGAATACCCCCAGATCTGAAAATAGGAAGAGCTACCCTCTTCAAAGCCCCAACACCCTCAGCAGTTAGAGTTT
TTGAAGGTTAAGCCTTCCCATTTTGCCGGTATGATCATTAGGTAGGAGGAGGGGTGCTTTATGGAAGTAAACCTTCATCCTACCACCAACCTGT
GTGAGGAACAGAGACCGTCCCTTCATCTTGCACTCCAGCTTTCTCTGAGTTGGAGCTGGCACAGGTAGCCTCTGGGGCTGCTTCCTGCCCCATC
ATTCCATGAGTCTTTGGAACAAGACCTCAGAACTGTTGACAACAATCTGCACCATTATCTAGTTACATGTGACTCATGCCCAGAAAGCCCAGGA
GAAGCAAGTGCTGGCCTGTCCCTTCCAAGGTAGCAAAGCCAGTGGTCAACTCAGGGGCAAGCTTATTGGCCATTTACACCTGTGGCTCCCCCGG
GGCTGGATTCAGCCAGTGCCAAGTCTGCGTGTCAGACTGAGACTGTGAGAAAGCAGTTTCTGCAAACACCGATGTGGAGACGAGGTTCTCCTTA
GGCGCTGCCTAGCCATGGTTGCCCCCACCTCAGCCCCTCAGTTCATGTGTCTTCCACCCAGGCCACCGTGCTAGATTACATCTCTCGAAATCAG
AGCAGCCTCTAGAAGTCACATGCTCTGCTTCCATGTTGAAGTTGGCTGAACTACCCTATTGGTGTGACGTTCCCTGGGTCAGTCTTCCCTTGTC
ATTTTAGTTTCCCTTGACTGTGGGAGCTGAACCATTCTTTTACGGGAACTTCTTATGCACTTAACAGCTACCAGACAGCACCCCTGGTCTCTAC
CCACTCAATGTCTCTGGCTCTCCCGACTCTAATCAAGAGTAGTCCTGTTTCCTGACATTACTAAAAGTCCTCTAGAAGAGAGTTCCCTACTGGT
TTAGACCAGCCTGGGAAAGGCAGAAGTGTTTAGTCCATGCGTATAAGATGTCAATGTGCAAAACTGAGTTGATTGGGTGTCTGTCTGCAGATCA
CTTCGGCCTCTGGGTCTCTGGCACCTCCTTCCTCCACTGGCCAGTCCCACTCACTGTGTGATCAAATGTGTCGGTATGTCCCACAATCTCAACC
TGTACATAGCTTTTTTTCTTCCATCTGCGTCCAAGTCACTGAAAACCTATCGCTTCTGTATGAAAGGCTGCCTTGACCTTGTAATCAAAGGCG
TTCTCTGGAGGGAGCTCTCCCACTGCTGGGCTCCGTTCGGTATCATCTTTCTCAGGGTGACCTCATCTATTCAAGTGTGAAGGTTGTATTTGAA

ATGTCATTTACTTTCCCTAGTCAATAAATGAAGCCATGGATCTTTAGATCATCAGAGGCCTGCTTATTACCGAGAGTCTCTACGCTGTATGGGT
ATGTGTCTTTTGAGATCTGTGTTAGAGTTTAAAAGAATTCTGTCAGACTTCCGTTTGCCTCTCTGAATCAGAGCACGGGGTGGAATTCCTCTGT
GAGTGGAGGGTGCCCCCAAATGAGTCTGCCTTTATTAGTTTGTGTCCTTTGTTCAGAGCACCAGGGATTACTTTATGAAAGCACGCGTGACTCT
TATCTTCAAAGGTCTCCCCTGCATGGCAGACTCTACCTCACCAACCTGTGTTACTAATCCATTGCCATCCCAATTAGTTCAGATCAAGGTCAGT
TACTTGGGGTGTGCAAAGGGGCCGCAAATGTAAGTGAGTGAGTCCCCCTCCTGTGGTTCTCCCACGAAAATGAGAGATTACAGGCGGGGAAACA
TAGAAGCGAGAACTGTCTGGTGCCTCAGTGTTTGAGAGTGAAGTGAAGACCTCAGGGAACCCTAAACAAGCCAATGCTTGAGTAGAAATACACG
ACCCCTGCTGCGGGGAAGTTTCTTGGCCCCGTCTCCCCACCCTATTGCTGATGGCAAGCATCTGAGAAATTTAGGAGCCTCGGACACAGAGTTG
GGTCTGAGAACATTTGCTGGGTCCACGTGGAGGAGGAACCTTGTGTTTATGGCGCGTGATAAGCACCGAGCCTCCAAAAGGCACATCTATGGAA
AAGAGGCTGGAGTTTGGTAGGTCCATAGGATGGCTCATGATAATTCCTAGCCACCCATCCCACTGTCATCTTGAGGTCATCAGCAGAGGGATGG
TAAGGTATGTGAGGGTTACATCTTTCTAGGTGGACAACAAGACCTATGAGAATACACTTCTCTGATCTACCATTGTTTCTAGTACTGTGGGGAG
GCCATGGAAGATCAAATGGAAGTGCAGTGATTAATGTCCATTGCATGGACAGTCAGACAGGACAGTTCTTGTGAAAGATGTGTTAGAACAACCC
AGATAGGAACAGCCAGGAATCATGAAAGGCTGACCACCCCCCACCCCCAAGCAGGAAAACCCTAGACTTATTTATTAGATTCTTCTGATGCAGA
GAGAGACCTGTGCATAGCCTGGCTAGAGGATGGGAGAGGGAGTTCCCCGCCCCCACCCCACAGCTCTCTGAGGTGCTTCTCTTGGGCTTTGCTT
TGGGGAATTGATTCTAAGAGGACAAGTCTGGTGTGTAGGAAAGGAAAACACAGCAGTGTCCCAGGTTCAGGCCAGAGAGAACAGACATTTAAGA
CCAGACCAGAACTCTGAACCTACCCCTCCACACACACACACACACACACACACACACACACACACAACGCACGAGGAGAAGAACATGGGGGCAGAC
ACTGACTGGATCTCTCTTGCAAACATTTACCAAAGGGGGCTAGGCATTTCACCTCTGCGGAATTTTTCTATTTCCCCTGTGTCAGAATGTTCTT
CTGTGAGTTGAGAGTGTGGAATGAAGGCTCTTAAAGAAAGAACAACCCTTTGACATGACTCACACCTCAGAAGACAAAGAACAATGAATCCCTG
GCTTGCAATTCAGCTTTCAGACCCTGTGTCCTGGCAGGCACAGCGCCACCCTGCCATGAACCTGCGTTCTGCAGAGCGGGTACGGACTCCCTCT
GGAGCTGTGGTGTTCAGGGAAGAGACGCTCCCTCATGCTGCGTCTCCGCGCTGGCACTTAGCCACCGGAACCACACACGCATGGTTGTGGGAAC
CACGGTTTGCACCCTGGAACTCTGGCTGGCTGGGACAAGTCCTATTCCTGGTAGCCTTGCGGTGTCTCTGCTATGTGGAGCACCGGCAGTGAGG
ATAAAGAGTCTGTGCTGGACAAGCCCAAGCAGTCCTCACTCTGGACATCACTACCATTCCCTGAAAGGGTAGCAAGGGGAGACTCTCTTGCCTT
TTCATACTACAACTGAACTGCTAATGGTCAGGCCAAGATACTATCTCACCCTAACAGTACCTCACAGGCTGATGCAATGACCCCTCCTCACAGG
AGGGGAGTATGCCCACTTGCCTCAACAGTAAGAGGCAAACTGGTGTCTCCTTTGCAACCTCTCAGACTGGAGAGTCATGCCCTTGCTCTCTTGT
TGCCTGAGCACTGTTGGTCCGGGAATAGGGAACAGTGGAGCGGTACCCAGATACTAGAGATGCCTGGAGCCAGTACAAGCCACAGCACAACCGG
CATCATCTGTTCTGTTTTGGGGAATATTCTAGAGGATATTGCATTGGATCTTCTTTTCTGTCCCCATGAATATGAATTTCTCTTAATACTCTGC
GGAAGAATGAACGCTGTGATCTCTGCTTAATACCCTGGTCAGAGGAACACAGGGGACAGGGCCTGAGTTCTGTCCATTAAGCCACCTTAGAAAT
TCCCAAGAAGTTCTAACATTTAACAAAGTGAGTAGTACAATGCTAGACTACAAGGTTGAGCACGCACAGGCCATGGGGCTGGGGTAGAGGTGAC
CTCTGCTCTCCCACCAGGGTCCCGAGTGTAGGCTCAGTGACAGCCCTTGGCACAGAGATCTGGGAGCTGCACAGGTAGCGGTGACCCCCAAAGG
AAACAAAGCCACCTAGTGGCTTGATAGAGCCTGGATTAGGTCGGACTTCAATCTAGGCTGGGCCCTGATTGACATTGTACAGGTAATAATAGAT
CCATCATCACCACCCTCTGCAATTCCAAAGAAGAATAGCCACTCCTTTCTTGGTGCCTACCATCACCCTAAGGCATGTTAAGGACCCTCATAAA
GTCTCAGCTGTTCACTTAATGTGACCGCCCAAGGGCCAGCTCTTACTGCATCCAGTTTTCAAAAGACAGTTGGTGCTCCCCTGAAGACCCAGCA
GCAGCCCAGAGCAAGCTGGACAGAACAAGCCACCTTCTGCAGGCAGCCCGGACCAACATCTCCAACATCCCCTGACCTGAGCCACACGAATAGA
GCCTGCAGTGTGTGCTACTGTCAGTACATTCCACTCTGTAAGACACCCAGAGGCATGAGGTCCTCCCGCTCGCTCGCAGCTTCCCACAGGAGGT
GTCAACAGCTTCTGTATGAGTGACGGTCTTGTCCCTCCATACAAAGGGCTGAGCCCAAGCTCCCAAACTAAACTACCTGGGGCCTCGGACCCCT
GACACTGAATTTCTCCTCACCTTATTCAAGGGAGGAGTAAGGACGAATATGAGGCTGGAGAAGAACCACTGGGGGCTGGGGACAGGAAGTCATC
TTTACCCTCAGCCTTTCGAGACTCTATAGAGGAGAAAGCAATGGAGGAGAGGATGATTCAGCAGGCGCTCCTAGGATGGCACCTGCCACATGGT
GGCTGAGCCTGACTACAGGCCTAGAAAACATAAGTGGACGTCAGAGGTGCAGGCAGCTCGTGCAATGCGGTGAGGAGTCGGGGTGGGGCTTCTT
TAACAAAGTTCGGCGAAATAAGTTATCTGCAGGAAAGGACACTGCAGAGACCAGACGGGGCCTTTGGTGCCCTCAGAAGCACAGTTCTGTCTGG
ACGCCAAAGGCCACTCTGTCTGGAGGAGAGACGGTGCCAACAGAGAATGAGAGGTGTTATGAAAACAGCGTGTTTTCTAGAAGCGGGTGACTTA
TCCCTGAACCCTTGCACAGGGAGGACTCTGCCTAAATACAGTGCCCTTTCCAGACCTGTCTCAGACTGATCTGGCTGAGAGGAGCGGCCTCCCT
CGTGGCGAGGGCTGAGCTATTTCCCCTGGGAACTGTCTGGCAGCTCTAATGAGGAATAGCACTTTGCATTTATAGAGAGCCTTTCATCTGTGGA
TCTCAAAGCTGTACCACAAACATTAATTAACTCTCACACCTGGGAGGCAGGTGAGTCTGGTTACCCCCCAACCCCATTTTTAAAAAATGAGGAA
ACAGAGATTTGGGAGGAAAAGGATTCTGGGGCGAGCCACCGGGGTTAGGAGTGTCCCTGATGTTGGGAATAAGCGTTTCAGATTTGTAGCATCC
TGACCACAAAGTCAGGAGGCCTCCCCGGGATGAGTGAGGAATTTGGGTACCGGAACAGGAGATGAAGCCACACAATTCCTTCTTCCCTTTCTCA
GGTGGCCTGTCACCTCCTGGGTCTATAGATGTCATTTAGAATGGGTCCCTCAGACCCCGAAGGCCTTTGAAACAGCCTTACCAGGCAGGTCTCC
ATCCTGGCTCACTCTGGATGCCTCCCTTCAAAGTAACCGTTGGAACAGTGACCGCAGCCGAGACGCACATGACTAACCAAAATGTCTGCAGCCA
GTGGGAGACAAATGCTTGGCAAATCCCAGGGCTCTTTCACAACCCTCTTTTCTTCCAGGATCCAGAACTGGTGGGAACTGACTCCTGTTATCAC
TGGTTCTCACTGGTGTGCTTAGGCGATGCTAATCCAGTGCTGGCTACCTGGGGAGTGGGGGTTGGGGGAAGGAGCTCTGGGGTGACTCCCGTCT
GTTCTGACTTCTGGAGCTGTTGTGGGTTTACTGCCCACCGCAGAAGCCAAAGGAAACACTGCTCAAAACCACCAGAGGCAAGCAGCCTTTCAGT
TGGGTCACCTGCCCAACACCAGGGCTGTGAAAGCTGACATTGCAGAGTGGGGGGTGGGGGTGGGGNNNNNNNNNNNNNNNNNNNNNCCTGACTCA
CATCCTGTTGTGTTCTCTGAGGCATCCGAGAGGGCATTACACCAGCTACCCATGACTGAGCTGCACTGGGAGGGCGCCCTGAGGATGACTCTGC
CTTCTGCCTTGCAGAAAGAGGGGGAGTCTTCTAAGGAAAAACCCAGAACAGGCCCCTTGGGTTTATCCATTCTCAGAGCAGATTTTGCGCGTTA
AGAAGCAAGTGGCCCTGCATTGCATGGCCCACTGTTTATTTTCAATGGATCGAGGGTGAACGGCTTGTTGTTTTTAGAGATGCCCGCCAAATACT
CAAGGAACAGAGCCCCGACTACAGCAGAGCCCCAACGTCCTGACCCAGAAAACCCAGGCTGTGAGGTCAGGTGCCAGGGCCACCAAAGGCTCAA
GTGAACTAGGCTGATGTCCCCGCGTGTCCTTTCCTTGGACAGGGAGGGAGGGCACAAGGCTGAATCGGGATGCTTTGAGTTTTCGAAACAGGAA
CATTTATTTACTCTTCTGATTGGAGTCAGCTTCATCGACCACTTTAGATACGGCTACTTCTCTTTGCCTCGGGTGTGGGGCATTCTTTCCCCCT
CCTCATCCCATACGCAGTAGTTACTGGCGTTCTGGCTTTCCTTTCAAATATGTTTTCCGAACCAGAAATTTCCCTTCCAAAGCTGCCTCTTCTC
CAGGCCCTAAATGTTGGTGTTTTCATTTTCATTAAGTGACTGGCAGTCGACATATCTTTTCAGATCTCTTATTTGGTGGCTATGGCATCTCCAG
ATAATCTCCAATTTTTGAAGATTTCTAAGTAATAGTTCTGTTACCGGTTTTTGTTGTTGTTGTTTTGTTTTGTTTTTCGGGGGGAGGGGAGAGT
GTTGTTTGGTTTTAGTTTAAGTCCTTGTGGCCTAAGGAAATACTTTGTATGATTATGCCTTCAAACCCAAGCAGTCTTCTGTGGCCTCAAGTGT
AGTCTGCCTTAGCGAGTGATCTGTGTGCCTCAGAAGAAAGGAGCGGCCTACCGGTGTTCTGTAGGCCAAACTGATACTGTCCAGGTCAGCCGAG
TCTGAATTTCTGCTTGCATGGTCTATCGGTGACTGGAAGAGGGTGCTAAAGTCTCCTGCCGTAAGGATGGGTTTGTCTGCTTTTCCTTGTATTG
CAGTTAGTGAGACCCTTTGTTCACGGGACACCTGTGAAGGAAAATGTATATTTGGTTTTCCGTACTATCATAACGTAACTTATCTCTTATCCCT
GAAAAGCTCCATCTTCAATCGGCTTTGTAGAAAACTTGATACAGCAACTCAGGCTTTCCTTGGATTGGTGTTAGCACAGCTTCTCCACCCTTTT
ATGCTTGCCCTATCTGAATCTACATTTAAATGAGCCATTTGTATGCGTCAGGTAGTTAAGTTTTATTTGTAGCTTGTTCTGACAACCTCTGTGG
TAGATTTAGACAATTCACCTTTATAGATACAGTTGGATTATGATCTGCCATGGTCTAACTTTTATGCCTGTTGCACCTGGTTCTTAGTCCCACC
CCCGGCTTTCCTGCCTCCTCTGAATGGAATGAAACATTTTATGTGACTTCATTTTAGCTTGTTTATTGCCTATCGGGTAGGAAAATGATTTTTT
TTTTTAAATAGTTTTGTGGGAGCTAGAGAGCTGGGTCAGACATTAAAGCACTGAATGCTCATCCAGTGGACCTGGGTTTGATTCCTAGTAACCA
CTAGTGGCTAAAGGCGGTCTGTTAACTCCAATCCCAGGGAAATCCAACACACGATTAAGGTCTCCCTAGGCACTACAAGCATGAGGTACACAGA
TATGATGCAAGTAATACAACACTCATATGCATTAAACAATAAATAAATAAATAAATAAATAAATATTTTAAAATTGCTTCAATAATTGCT
GTAGAGTTTAAAAACTAAGCCCACAATCAAATAATGTTATTCCTTAATTGTTATATGTTACTTATATTTAAACTTTTGTTTACATTTTTAAATT
TAGTGTCTCTCTCTGTGTATATGTGTGTGCCTCTCCCTCTCCTCTTCCTCCCTCCCTCCCTCCCCTCTCTCTGTGTGTGTGTG
TATGTGTGTTTGTGCGTGTATGTGTCTGTTTCTCTCTCTTTGTGTGTGTGTATGTGTGCATGTGTGTATATGGTGTGTATATGTGTCTGTCTCT

CTGTGTGTACATGTCTGTCTGTCTGTCTCTCTTTTATGTATGTGTCTGCTGTCTCTCTTTGTGTATATATGTATATGATTCTGTCTCTCTCTAT
GTATATGTCTGTTTGTCTCTATGTCTGTGTATGTATGTATGTATGTATGTATGTATGTATGTATGTGTATGTGCCTGTCTCTGTGTGTGT
GCTGTCTGTCTGTCTATCTCTCTCTCTCTGTCTCTGTGTGTGTACATGTGTATGTGCCTGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTG
TGTGCTGTGCTGTACATATGGAGGTCAAAGGACAACTCACAAGAATTAGTGGTTTCCTTCCACTATGTGGGTCCTGAGGATCAAGCTCGTGTAT
TGGACAAGCGCCACTCTGCTGAGATGTATCACTTCTTTCTTATCTGTCATTATTGCCAATTATTTTCTTGATCTTTATGCTGTAACTGTCCAAC
AAATTGTGGCTGTTATCACTTCTAACAGTTAACTTTCAGATCCGTTATGAATAGAAAATGGGTTTTATTTTATTTGATTCACTTCTTCTGGGAT
GACCTCCTTTTCACCCAAGATCTAAGTTTCTGGTCCATTTCATTTTCTTTCTGTCTGAGGCCCTTTAAACATGTCTGTTGGTGATCATTGATTT
CCATTTCATCAGAAGATGTACTGCTTTTCCCTTTGCATTGGAAGAATAGTTTTGCTGGGTATAAAACTCTGGGTTGGTTTCACTTTGTTCCCTT
CAGACCTTTGGTGTGAGTTTTCTGTGATCGTCCAGTTGGGTTCAATGATTACAAAGCTATAGTTGACAAAGGCATGTAGTTCCCCCAGTGTCTT
TGTTACTTCCTCCCTTGTTGTCTTTGAGTTTCCCATGAACTCTGCTTTAGTCTATGCTTAAAGCTCTTTGGTTGGCAGTCTACCATAAGATGGG
AAACCATGAGAACTCAGTTGAGTTCCTGGGCCACAAACATGTTTCTCCTGGACAGTACTATAGCTCTCCAGACTTGTATTCTCATTATCAGTCT
ATATTCAGCCTCCAGCAACTTGTGACATCTCCATGTTGTACTTCCATGAGCTTCTGTTTCTAATCAACAGACCTTGGGTTGGTTTTACATGCTT
GCCTGCCTCCCAGGACTTGGGTGGTGCCCTGCTTTCCTGCTAGAATTCTGTGGGAGATACAGGAAAGTCACAGATTTTCTGTTCTACTTTTTTC
CTTGTTCTTAGGACAAGAATGGTAACTCCAAAACTCTTTACATTTTAGTGCTAAAAAAGGAAGAAGCAGGCCACTCTGGTATGAATTATTTGGC
AGCGTCATGGTGGACTCTAAAGATGTTTTGATGTTGGTACCTTTAAGACATTCTTTTCCTGAGTGAAATATGTCATGGTGCTTTGTACTGTCTC
CCTACCTTTCCCCTTATCTTTGACCTCCATTTCAAATGGAAGGGAATGGGGTTCAGGGATGTAAAAGGAGCCCCTCTTATCTATTATTTGTAAT
GGCCTGGTCATGTAATCTCATCAAAACCATTTGTCCTGAAAACAAAAACAACCAGCATACAGAAGGCTCAACTTTTCTGGTGCTTTTAAAAACA
GAAGCATGGATTGATTAAAACACCGAATTCCTGCTTTCTCTGTGTCACGAAATTCCAGAGTCCTTACTCATTCAGCATCTAATCCCCAGAGCCT
ACCTCTTCTCAAGATACTCAGCTCCAAGCACTCCAGTAGTACCTGAGTCCCACCCCAGTTCAAGTGTGTGTTGCCTTACCAGATAAGTCTCTTG
GCAGGACTGAATTTCCTTTAGCAATGCAATCATGGAAATCACTCAGATTAATTAACCATTTTTGATGGCCACATATTGTGACAGGTCTTTTTCC
TGTTGCTTGCTTGTTTCTTGATGTTACTCTTGCTAGTCAGAAGAATGTAAGTCTTGCCTGAAGCTAATTTATGGTGGAGGCAAGAGTCAACCCC
AAATCTGGTTGACTTACATCCTAATGCTTTCCTGCCCTGCTCCTCCCCTCTGCAGAACATAAGCATGTCACAAAAGTCACTGCTGCCCTTGCCT
CTACCTTGGAAGCAGACATTTGCAAGTCCAAATTAGTCATGTGATTTAGCAGCCAGCCTCCATTCAACCTTTACATCATCCCGTGTCTGTAAGT
CTTACAAAGTAAAGACCATAAAACCATTTGCTAGTGAATCCCTACCACTAGGGCCTGGGTGAAGCAAAACTATTTGTGGGAACATGAATGAGGG
AACAAGTAAATAATTTCCCCAGCCTATGAATATACAAGTGTTTGAATGAGTGAATGGGTGAATGAATGCATGCATGAATGAATGCATGAATGAA
TGAATGAATGAATGAATGAAGCAACTCTTAGTGTGCTGACATGTGCATGAGGAAGGAACCTTTCCAAGCATCACAAAGTTAGAAGCCTTTCCCT
GATGAGCCAAGGCAGGGGCCATGTGGCTCCTAGTCACCACTATCACTGGCCACATTTCCTGTGCCTGGCACACGGTATATGTTTAACCAACTCT
TGTTCACTTGGATGAATTGGCTTACCAGAGGCAACTCCTTCAAGACTAGTACACCTGCACTTTGCCGAATGCCTAACGGTGACTCTCTCAGCCT
GTGGCCTGTTCTGGATAGCTCCCAGTTTAATCCCTCCTTGTGGCATTTCCCAGAAGGCACACAGTTACGATTTTAAGTACCTACACCTCGCCTC
CCATCCCCTACACGACTCTTCCCTGACTCTAGCAACATATAGCAAAGATGAGTTGGACTAATTTGAACGGGGAGCCTCCCCTGTTGCCACTGGA
TGGCTTTAGAGATCATCTCTCTGCCGAGAGAGAAGTATGGAGGTTTGGTCTAGGGCAACTGGCCCTCTCAGCAAACCGATGGGCCTAGAGCTCC
TTTTTCTGATAGGCAATCAACAATATGGTTGTTATGATTCTAACTTTCCTGTGTTCCTAGCCCCACCTCCCCTCCCATCCTAACAACGATAGAA
CCTCTCCCACAAACGCAGAATGCACTGTATTTCCCTGCCTCTTGTGGTTTGTTTTTGTTTTTAATAGAGCATTAAAAAGCTGAAAACAACCCAA
ATTACAAGAAGAGGCTCACCACCACCACCTACTGGCCCACCCCTGGCAAAGGACCCAAGTAGGTTCCTGGTGCTGGCGGAAATGATGGTTGATG
GGCCGTGGCGTCAGTGACCCACTCAATACTGTGGTGGGAAGTAAGATGATGCCAAATCTATAACCTGTGTTTAAAAAAAAAAAAAAGAAGAAGG
CGCAGATTCTGAGCCTGAATCATAAAGGCCGTTCCACCGAAGCGAGGCTGTGAAATATTACGCAACGTTCGCACGGTTTAATTACGAGTTTAGA
AAGGCCTAGCCTGAGTTTTTCACTACAGTAAAACATGACAGAGCATGAACCCTGGCACCACACTTTATGCTTAGTGTGGTTTTAGACACAGGGC
TGGGGTGCTAGGCTGTCTACACAACAAGGCATGGATTACAATACCGCAATTCACACCCCGGGGGCCTTCATGACAATTACAGAACCTCCTTTGT
TTGCTTTTTAAGTGATTAAAATATTTGAATAGTATATGTCCATTTGCTAAGTGTGTATATTGAAAGCACTGGCATGTCTTGTGGAAAACATCTG
AGAGTGTGAGCTTTGGGCTCCCCGCACACACACAATGGAGCAAGATCCTTACAGTGATGTGGGATGCAGGACGGTGTTGTTTCTACACACCTCC
GGGCCTCAGGAACAGTCGGCTGTAAAACCGCACAAGGCTCCACCTGCATCGCAGCACTTGTCTGATGAGTTTAGTGTGTGCCAGCTCCCTTGTC
TGTGCCGTCCCTTCAGACAAACTCTCCACCATTGGGAGGATGTCAGGAGATCTCTTCACCGGGAGATTCTAAGTTAAAATGTTGGCCCAGGAAC
AAGCAGGTCTGTGGTCCTTACATTGTCGGGTTTGTGGTTATCGTTGTGTTCTATTTTCCCGGACATTAAAACCAAACTGAGTGAGAGAAAGGAA
CAAGGCTTATTGAGCCCCGAAGTCAAGTGCACAAGAGACATTTGCTTCAACTCCCGGCTCTGTCCCTGCTCTTTCTTGGTGACAATCTATAAAA
TACATTCTCAAAGTTTTGCCCTTCAAAAACACCACTGGCCCCAAGAGTCCATGCTACCTGGTTTGGTCTGTTGTGAAGCAGCCTCATTAGTGTG
CCTGTGTTTTGGTCGTTCACCATGTTTGCACTGTCTGTCTGTCTGTATCTCTCTCTCTCTCTCTAGTCTCTCTCTCTCTAGTCTCTCTCTCTCT
AGTCTCTCTCTCTCCCTCTCTCTCTCTCTCTCTCTGTGTACGGGGGAGAGTTATCTTTTTACTATCGCTCTCGCTATTGTTTCTATGGCATT
TGAGGAATGGCATTTGCTGAAGTAGAAAACATACACATGCCCGTGGACATTTCCTCAGGGTCCCCCACGCTCCAGACCCCCTTACATCCTTTGT
GCTTCCTGAACAAGGTGGCCATCTGAGCCGATACAATGTTTCTGGTGATGATAACTGTAATTGCTGGCCAGGATGAATGTGTTATCCTGAATGT
GTCACTTAGAGTGATCCAGTACTACCAGAGTCCATTCCCAACAGTATTAGTGTGAAAAAAAAAATGTATATATATGCTATATATATTATAGATA
GGTAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATGGAAGGAAGAGTTAGCAAATAAAACTCCCCCTAAATCCATGAACTGT
ACTTCAGTATCTTTAATGGGCCTTCATACAACAGAGTCATCAAATACTTGGGCTCTAGTGGTCTCATTAGACACAAGTGAACAAGCTGTGTAAA
CACATGTATAATCATTTAAATAATGGTTAATAGCTATCATGATGAGAACTTTTCGTCTTAAAACCCCTGCCCCACCCCATCCATGACCAACATC
CTTGTCTCCCTGCAGATGCCAGGCAGATCCAGCCATCCCCACCGTGGTCCTATGACCAGTCCTACCAGTACCTGGGATCCATCACCTCTTCCTC
TGTCCACCCAGCGACACCCATTTCACCCGGCCGTGCCAGCGGCATGACCAGCCTCTCTGCAGAACTTTCCAGTCGACTCTCAAGTAAGCCCTGT
GAAAACACACCTGCAGCGGGGCTGGAGGGGAGGATTCGGAGGACCGCGGGAGACTCGGGGAGACACAGAAAGACACAGGAAAGGCGGGACATGG
CTAATGGACCAGAAAAGGGTTCAAAGACCAAATTTCCTGCCTCTGTGCGTGTCCAGTGCCTGAGCACTGATCTTTCTTAACATGCTAAGAGATG
CCAGATGAGGAGGCAGCAATGCCTTAGTCCATCCCTTTGGGATTTGGGGTTTGCTCATATCTGGTGAGAAACGTTGGTGGCCAATGGTTACTAT
TCTGATAAGTGGAAGTGGCCTAAAGATTTTTGTACCTTTGGCCAAGAAATTAACATCCCAACTGAATTCTAGACCGAGGCTATTCTTTCCAGAA
GTGGCCAGTTTTTATGGCTCCTGCATACAGCACAGTGGGGTACATACTGGAATAGGACACAAATACGCCCCAAGATAAACATTCCCAGCTAAGA
GCTGTTCAGACTGAGGCTAGGAACCAGGTAGAAAGCTCAGGTGTCATGGTTAGCATAATTGTTGTTAATACGAGCTCATTACATATTAGTCATT
TAACCTATGAGCCCTTTGGGCTTGGCACACTCACCTTCGCTCCTGGGCAGGGAAATCAGAGGTACTGGGGGAAAAAAATTCCTTTGTTGAAGGC
AAAAGAAGAAACTTACTGTTTGGGGCTTTGAAATTGGAGCCGAAGCAAACTGTGAAATACTTCAGAGAGCTTCGTCCTTTAGAGGCCCGTGAAT
GCACTCCCATGTGTGCCGGGGGAGGGGCAGGCTTTGCTTTCGGACTCTTGAAGGCAGATTAGAATAGATGAGGGGGCAGGCAGAGGAGTTGGGG
CTGCTGCTTTAAATGTTGTGAAAGACTACATTTCCAGACAGCCACGATTGCTTAAGACTCCTCCAGCGGGTCAGCTGCTCCCTCACAATCACCC
TCAATTCACCCCGCCTTTCCCCAGCAACCATACTGACATTTGGGCTGTATCATGTTTTGTTGTGGGAACAGGGGACTGGCCTATGTGCCAAACA
ATAGATAGATGACCCTTGACCTCCAGATGTCAGTAGTAAATGGCCCTGTCTGTCCATCAGAAATATCTCCAAGGCTGGGGACCAGCTCAGTGGG
CAAAGCCCTTATCTTGCAAACATGAGGACCAGGTATTAAGGCAAAGTGCAGTGGCACAGGCTGCTAGTACCATCACTAGGACATGGAGACATGT
GAGTATCCAGACTAGTTGAATTAGAAAGCTTCAGGCTTGGGAGAGACCCTGCCTCAAAAAGCCAAGTTAGATGGCTGCTGAGGAACACACACAC
GCACACGCATGAGTCTGCACTCGAGGGTACTCATCAATGAACACTCAGAATGCTCCCACTCACCCCTTACAAACACAAACCCACAGAAAATGTT
GCTGGACATTGTCACTTGTCTCAGCTGGGGGCATTGAGAACTTACTAGCTTCAACTAGGCTTGGTGCTGGACTGAAATGCCAAAGCCAGNNNNN
NNNNNNNNNNNNNNNAGAGAGAGAGAGAGAGAGAGAGAGAGTTGCCAGGACCCAAAAGTGACCCTCTGCTGCCCAGTAGGGAAGACC
AGAGAATGACAAACAACTGGCATAGAGTGAGCCTCAACTTGGCAAAACTCCCTCTAGAAACCAAGCCCCGAGCACAGGCCTCAAAAGCCTGTAA

TGTGTTCTCATAAACCTGGGCCAGAGAGGGTAGGTAGGGTCCCTGAAAGGAAGAGGCTGTCAGGCCCACAGCTTGTCAGCCGAACTTGACCCCT
CTGTGGCTGATGTGCCTTCTAATCCCACCAGTGACAGCTTCAAGTTCTGGGCTTTCAGCCTCCCCCAGCCCGACCTGCCTAGCTGCTCAGCACA
CACACATGCGTTCTCAGCAGACGGGCCCTGTCTGTCTCTGTCCCTTGCAGACAGACAGACTCCACACCTTGTCTGAAAGGAGCTGCCACGTGAA
GGTTTATCTTTCCTCCTCATTTCTCTTCTTCCTTTATTTTACCCTCTTCCTTTTCTTTTGGTTAATTAATGTCTAGCTGCCAACCTGGGCGACA
GACAGCGCATACTAATCTGAGTCACGCAGGAGAGCCTTTTAAGGCGGTCATTATCTGCTCAGGTTGTTTAATCCTTTGGGGGCAGTGGGAGGGG
CCTGGGGTGGGACCTCTTTCATCCACATCAAGCTTTAGAGCCAAGACTCTGCGCTCTGTCAAGGTAGAGACTTAGCACCATAGAGGGAGAGACA
CTGCCAGTGAAAGTGGCTGAACCTTCTAATCCTCACACTTCCTACTTTTAAAGTCTCCCCATGAATGGGAGAGGGGGCAGTTGTCACCTGAATT
GAGTGGGTGGGGGCGGCGTGCACCGGACTAGCCAAAAGAATAGAGGAGCCGTAGTTGGGTGATGTATAAATTCTGTGTGACTGCTGATGTGTAA
GGAAAGAGGTTAGACAGGATTTAAAAATGAAAACACGGGGAGCTGGTGAGGTAGCTCAGTGGTTAGGAACCTTTGTTGCTCTTCCCAGGCCCCC
CACATTAGCCCGCTCACAGCTGCCCATAACTCCAACTCGAGGGCATCTCTCTCCTTCCTCCAGTGTCTGCAAGCACACACACACACACACACAC
ACACACACACACACACACACACACATGCGCGCGAGCACCTAACTAAAAATAAAATAGCTGTAAATGAGAACACGTATTCGAATAGAGCACTT
GAATTTGAACATATCTAAAAGGCCCATGTCTTTTTTATTACAGAGCGTATACAAAGCGAGACAGGGAGGGATGGAAGGAGAAGGGGAGGAGGGA
GAGAGAACCTGACCTCTCGTAGAAAGACGCCACACTATCTCAGATCTTCCACATACTCTGCCCCCAGCAGCTGAGACTGTAACATTACTCCTGC
GCTTATGCCCATGACAAATCACGGACTCACTCGGGATTCCGGTAACGTGGTACCATTACCACATTACCATGTAAGAACTGGGACAGACTGGCAG
AGCATGTTCAGACACGGCTCTGAAACGTGGTGACCTCTCCTTCATTTTTTTCCAGTGGATTCACCTTTTTTGTCTCAGGACAAATGAAGCAAGA
GGGATAATGGGCAGAGTCACTTGTTTGTGTCCAGTGTATTGCATCAGATGACAACAGGCCGATTGTGTGTGTGCCTAATGCTCTCCCTCCTGCC
TCGGCTTCTCCCTAGACTGTATAAATCTAACTGGAAAAAAAAAATGGAGTAGAGCTTCCTGTTAACTCTCAAGCATGTCATGGCTCTCTGTAAG
CAAAACAAGTGACACAGAGTTTGCTCATAGAGGTCCCCGGTGAGGGCGCAGAGATGAAC

MOUSE SEQUENCE - mRNA

CTCATTCATAGAGCCAGCGGGCGCGGGCAGGACGGGCGCCCCGCGGCCGGACCCAGCCAGGGCACCACGCTGCCCGGCCCCGCGGCTGGCACTT
CCATCCTGAGCTCCCCGAGACGCAAGAAAGTCACCCTTTGCGGCTCTTTCTAGATCTGCGTTGGACCTTCTTGTTTTCCTTTCCTTTCCTTTTT
TTTTTTTTTTAATTTTTATTTTTATTTTCCCTTTCTTACTTTTGAATGAACCGGCTTCTAGGCTTTGGATGTTTCAACTTCTAGGCTGTGAACT
TTTCTCCGATTGTTTCTTTTGACAACTGCGGGAGAAAGTGTTCCGGAGTTCCAGGCGAGCGGTGAAGTTGCGTGTGCGTGGCAGGGTGCGTGGG
AGTGAGCGTGTGTAACTCGAGCCTACTGGTCTACGGTGCCTCCTCCCAGGCCCGCTCCACCTGCTGCGGTTACACGGTGCTCGCTCGTGGGTAT
TTGTGCGCCCCAGCAGAAAACCAGCCACCGCCGGGCGACGTTGGAGGAAGATCATCTTGCCAGACTCTGGGCTGACTCACTCAACCAATGTAGA
CAGTGGCTGACTTCCGAAGAGTGCGAGTCTGCCTGTGTGTGTGACCCAACTGCGGCTCAACTCCCACCAAACCACAGGATCAGCCACAAACTTA
ACCAGCGTTCCCAAACCAGAGTCCTCAGCTGTGGGAAGCTCTACCCTGAGTGTCATCGAGTTTGACTTTTTTTTTTTTTAAGATTAGCTACAGAT
CTTTGTAAAGCACTGACCATTTATTTGGCCAGAATTTATTGAGTAATGACAAGTGATCCTATCCAGCCTTCCAACTACTGAAGCTGATTTTCAA
GGCTACTTAAAAAAAAAAAAACTGCAGCAAACATTAATGGATTTCTGTTGTGTTTAAATTCTCTACAGATTGTATTGTAAATATTTTATGAAGT
AGATCATATGTATATATTTATATATACGAGCACATACATTAGTAGCACAATCTTTTAAAGTTACGGCTCTTGCTTTTGAGAAACGAAGTGAGTT
TTTCATGGTAAGAGGGGCGCTCTGTATGGAAGACACTCCTAAGTTTTGTATTTTGTTGAGACTCTAAACAAAACTGACCCGCAAGAAAGAAAAA
CAAACTGACAGGCAACTAACTGGTGGAACTTCCAAATCTAGTTTTTGCTGGTCATTTTTTGGTTGTTGTTGTTGTTCTGCGCATAAATATTTTA
GGACGCGTATGGGAATTTTGCTCCGGGACCGTTTGTAATAGCCAAAGACTGAACTTCAACTCTCAAAGCGAGGCTCTGTTGGGCATTTGACTTT
GAATTCTGGTTGCCCACTTTTTAACGCACTAAGCGGCCAGTTGCTAACCCTGCTTGGGTGTGAGGCCGATCCGTGTAACTAGATCTCAGTCCGG
GACTGATGGTAATTTAGTCTCCTACCCCCACAACCCTCCGGTAGTAATAAAGGCTTCTGAACTTGTATGTTGGTCTCCCGGGAGCAGCTTGCAG
AAGATCCGAGCCCCTGTCGCCGTCTAGTAGGAGCTGTTTTCAGGGTCCTTACTCAATCGGCTTGTTGTGATGCGTATCCCCGTAGATGCCAGCA
CGAGCCGCCGCTTCACGCCGCCTTCCACCGCGCTGAGCCCCGGCAAGATGAGCGAGGCGCTGCCGCTGGGCGCCCCGGATGGCGGCCCGGCCCT
GGCCAGCAAGCTGAGGAGCGGCGACCGCAGCATGGTGGAGGTACTAGCTGACCACCCTGGCGAGCTAGTGCGCACCGACAGCCCCAACTTCCTC
TGCTCCGTGCTACCCACTCACTGGCGCTGCAACAAGACCCTGCCCATCGCTTTCAAGGTGGTGGCACTGGGGGACGTCCCGGATGGCACTCTGG
TCACCGTCATGGCAGGCAACGATGAAAACTACTCGGCAGAACTGAGAAATGCTACCGCGGCCATGAAGAACCAGGTAGCGAGATTCAACGACCT
CAGGTTTGTCGGGCGGAGCGGTAGAGGCAAGAGCTTCACTCTGACCATCACCGTCTTTACAAATCCGCCACAAGTTGCCACCTACCATAGAGCC
ATCAAAATCACAGTGGACGGCCCCCGAGAACCCCGAAATGCCAGGCAGATCCAGCCATCCCCACCGTGGTCCTATGACCAGTCCTACCAGTACC
TGGGATCCATCACCTCTTCCTCTGTCCACCCAGCGACACCCATTTCACCCGGCCGTGCCAGCGGCATGACCAGCCTCTCTGCAGAACTTTCCAG
TCGACTCTCAACGGCTCCGGACCTGACCGCCTTCGGCGACCCACGCCAGTTCCCTACTCTGCCGTCCATCTCCGACCCGCGCATGCACTACCCA
GGCGCCTTCACCTACTCGCCGCCCGTCACGTCGGGCATCGGCATCGGCATGTCAGCCATGAGCTCGGCCTCTCGCTACCACACCTACCTGCCGC
CGCCCTACCCCGGCTCATCACAGGCGCAGGCCGGGCCCTTCCAGACCGGCTCGCCCTCCTACCATCTATACTACGGCGCCTCGGCCGGTTCCTA
CCAGTTCTCCATGGTGGGCGGAGAGAGATCGCCCCCGCGCATCCTGCCGCCCTGCACCAACGCATCCACCGGCGCCGCGCTGCTCAACCCCAGC
CTCCCCAGCCAGAGCGACGTGGTGGAGACCGAGGGCAGCCATAGCAACTCGCCCACCAACATGCCCCCCGCGCGCCTGGAGGAGGCCGTGTGGC
GGCCCTACTGAGCTGAGCGCCATCGCCATCGAGGGACTGGGCCTGCCGTCCATGCACAGACCCCGCCAGGAGGGCCCTTGGAGGCCACCAGGAA
GAATCCCGGAGGGAAACTGTGAATGCTTCTGATTTAGCAATGCTGTGAATAAAAGAAAGATTTTATACCCTTGACTTCACTTTTTAACCACGTT
GTTTATTCCAAAGAGTGTGGAATGTTTTCGGTTCGGGGTGGGGAAGACGCAGCCCATCCTGTTTGGCATCTATTTCTTATTTCGGAGTTTTCTT
TTCCGCACCTTATCGATTGCAAAAATGCCTGTTTGCATCTGGGTGGTCATTTATTTTTAAGTGTGTATAGATTTGAGCTTGCTTTTTTTTCTTC
CTTTGACCAACTCAAAGAAATAAAATTCCCTTCTCTGTAAGGTTTATTTAACTTTTAGACTTTCATGTAGCTTTGGGGTTTTATTTGTGTTTGG
TTTTTGTTTTTGTTTTTATTTTTAAAGAGACAGCTACAGCTTTGGGTCATTTTTTAACTACTGTATTTCCACAAAGAAATCCCTAGATATTTAT
GTATCTTGATGTTTGAACATTTACATATGTGTTGATACTTTTTTAATTATTTAAATGTACTTATATTAAGAAAGATATCAAGTACTACATTTTT
CTTTATAATAGCCAAAGTTAAATATTATTGCGTTGAAGATGTCTGGAAAAAAAAGAGATCGCTTGGTTAACTAGAAATATTGTTTACATTAAAC
TCCCTTTATGTTATTCAAACAAGTTGGTAGGTAACGCAGCAATGTTTTTAATTGGATTGTAGACACTGAGGGTCACTCCAAGGTCAGAAGTACA
AAATTTTCTGCTAGGCTCAACAAATAGTCTCATACCTGGCTCCTTCCCTTCAAAAAGAGAGGCAAACTCTGTCCTGAAAGGGTTCAGAGAGGTG
CCAAGGATTTGCTCTGAAGAGGATTTCATTTTGGCCTGGAGATATACTTGCCCCAAGGCCTCCTCATTCTGGCATGCTTTATCACAGAGCTCAA
CCAAGTAAGCTGTTGGTCAGGGGTTTACTTACATAGTATTTACATAGACCCAAACCACTGAATGTGATTTTTAAATTGCCTTCCATTAATAGTA
CCCGTTCATTGATGAAAACCAAAACTTGAGGCTGTACCCCAAAGATCCAAATAGAAGAGTTAAGACCAGGTGTCTTTGAGGCCTAAAGGCTGAG
TTTTAAGAGAGTGTACCCCAAAAGTCTGAAGGAGCCGGTTTCCTTCTCCCAGTCTTAGTGGAATCAGTCATGGGAGGCAGATGCCACGCCCACC
TGTGCAGGATGCTCCTCAGAAGCTGCCCCTTCACCAGCATCTTCTCCCACCAGGCCGAGCCCCTGACCTTTGGGGTGCATCAGTGTGATAGATC
CTGGTCTCTGCAGTCCGCCATGGCTACGGTTCAGATGTGCATCGTGTCACTGTAAATGTAATGGTACTGTTGTTACAGTGGAGGACTTGGTCAA
AATCCAGTTGTTCTACAACGTATGAAGCCTAACCGCTGGTTCTGACATACATGTGCTCAAAATGA

MOUSE SEQUENCE - CODING

ATGCGTATCCCCGTAGATGCCAGCACGAGCCGCCGCTTCACGCCGCCTTCCACCGCGCTGAGCCCCGGCAAGATGAGCGAGGCGCTGCCGCTGG
GCGCCCCGGATGGCGGCCCGGCCCTGGCCAGCAAGCTGAGGAGCGGCGACCGCAGCATGGTGGAGGTACTAGCTGACCACCCTGGCGAGCTAGT
GCGCACCGACAGCCCCAACTTCCTCTGCTCCGTGCTACCCACTCACTGGCGCTGCAACAAGACCCTGCCCATCGCTTTCAAGGTGGTGGCACTG
GGGGACGTCCCGGATGGCACTCTGGTCACCGTCATGGCAGGCAACGATGAAAACTACTCGGCAGAACTGAGAAATGCTACCGCGGCCATGAAGA
ACCAGGTAGCGAGATTCAACGACCTCAGGTTTGTCGGGCGGAGCGGTAGAGGCAAGAGCTTCACTCTGACCATCACCGTCTTTACAAATCCGCC

ACAAGTTGCCACCTACCATAGAGCCATCAAAATCACAGTGGACGGCCCCCGAGAACCCCGAAATGCCAGGCAGATCCAGCCATCCCCACCGTGG
TCCTATGACCAGTCCTACCAGTACCTGGGATCCATCACCTCTTCCTCTGTCCACCCAGCGACACCCATTTCACCCGGCCGTGCCAGCGGCATGA
CCAGCCTCTCTGCAGAACTTTCCAGTCGACTCTCAACGGCTCCGGACCTGACCGCCTTCGGCGACCCACGCCAGTTCCCTACTCTGCCGTCCAT
CTCCGACCCGCGCATGCACTACCCAGGCGCCTTCACCTACTCGCCGCCCGTCACGTCGGGCATCGGCATCGGCATGTCAGCCATGAGCTCGGCC
TCTCGCTACCACACCTACCTGCCGCCGCCCTACCCCGGCTCATCACAGGCGCAGGCCGGGCCCTTCCAGACCGGCTCGCCCTCCTACCATCTAT
ACTACGGCGCCTCGGCCGGTTCCTACCAGTTCTCCATGGTGGGCGGAGAGAGATCGCCCCCGCGCATCCTGCCGCCCTGCACCAACGCATCCAC
CGGCGCCGCGCTGCTCAACCCCAGCCTCCCCAGCCAGAGCGACGTGGTGGAGACCGAGGGCAGCCATAGCAACTCGCCCACCAACATGCCCCCC
GCGCGCCTGGAGGAGGCCGTGTGGCGGCCCTACTGA

HUMAN SEQUENCE - GENOMIC
AATCCACTGGTGCGTTTGTGTGGGAATGAGAGTGAATCTAGAGAGATGAAGACAATTATCTGGTGGGCTGTTAGGAGGCTCAATAAAAAACACC
CCTGCTCTCCGGTGATCCACAATCAACAGTGAGATGACAAAGGAGTCAAGCAGATGGAGATAAAAATACCAGCTTGGTCACTGATAGAACTTTT
GGAGAGCATGGCTTAGGTATGTGGCTTCCTGCTACTGAGCTCCAGAAATAGGGAGACTCACTCACCAATACCCAAGCAGTGTCTCCCCAAAAGA
ATAAGGAGAGGGAAAGAGCATGCCCAGGGTACTTGTTTTCTTATTGCTGTAAAACGAGCAAATTGCCAAGCTTAGCACCTTAAACAAATTTAGC
CCACAGTTCTGCAGGTCGGAAATCTGGTGGTGCTGTACTAGATTCTCTGCTCACAGCTTCATAAGGCCAAAAATCCAGGGGTTGGATAACCTGA
GCCCTTACTTGAAGGCTTTAGGGAGAAATTCACCTCCAAGCTCATGCAGGTAGTTGGCAGAATGCAATTCCATGGGGCTGTAGCATAGTGGCCC
TCGTTTCCTTGCTGGCTGTCAATCAGGGGTCACCCTCGGCATCTAGAGACTGCTCTCTAGTTCTTGCAAGTGCCTGCTCTGTCTTCTAGCTACA
ATGCTGACTTCACTTCTGCCCCAGCCTGAGAAAACACTGTGTTTGTAATGGTCTCCTGTGATTAGATTAGGGCTACCAGGAAAATCTCTCTGTT
GCATGAGTCAAAGCCAACTGATTAGTAACCTTAATTACATATGCAAAAAAAAATCTCTTTTTTTCCATGTAACATAACCAGAGCATGACAACTC
ATCATATTCCCAGCCCCAGGGATTAGGGTGGAAAGTTTGAGGGGTTCATTTTATGCTTCTGCCTTCTACAACCAGTTTCTGCTTCCAACGCTAC
TAACTAGGTAATTCAATCTTTTATGGTGGAGGAGGAATGAGGGTGTAAAAAGAGGTCAAGAGTTTTACACTAAGGAATGTTGTTCCACATGGAA
ACCTGAAGCCAGGGAAGGGGTGGTTCCACCACTTCCTCTCACCCGCCCCACCACCCAATATATTTAAATAGCTATAACCCAAAATATATTATAA
TTCAAGTCACATAGGAGATGTGGAAATGATGATAAAGCATGTGATTGGTCTTTAAGAGGCAATTTCACCTGAGGCAGAAGGATCTGCCCCCCTC
CAAGATGAGGACAGGAAGGGTAGCTCTTAATCCTGCAGAACTGTGCTAAAGACCTTGCATTGAATTCCAGATGCCCAGGAGAACACAGCAGAAC
TATGGTGCAGGAGACTAATCTGGAAGTACTGTATACAATTAGCAGGAACCCCCTTTTTCAGAGATCTTTGTAAGAAATCTTCAGAGAGGTAATG
AGAACTTGAACCAGAATGATGTCAATAGGAATTGAAAGGTGGGGGCCGAATTGTTATCAACCAAAGAAATCAAAAAGAGATCTTGGCAACAGAC
TGGATGAGGGCAAAGATCAATCCATGGATCCAAGTCTGGAAACTGGGAGAATGATGGTGCAGTGGGGAAAACAAGAGGAAGACCTGGGTTGAAG
TGGAAACTGATGAATTTTATTTTCAGTAAAATACACATGGCAAACACTAATTTTCTCAGGTTGCTTCCATCTTACACACATGCACACATATATA
TACACAAACACCTCTCAACACTGGTCTTTCTCTCCTCCTGCTACCTCACCAGTTTCCCTCCCTCCTCCAACAAATTTCATTCTCTCCTTCCCTA
CATCCCATTCGCTTTCTACTCTCTGCTCCATTTCTGCTGCTGCCACTCAACTGAAGCTCCTTTGGCAAAGGTTACATGGCACTCTCTGTAGACA
AATCCAGTGGAATATTTTCATATTTTCAGTCCTTGTTTTCATGGCCCCTTTGTGGCCTTTGGGCCATGGTTTTCCTCCAAAGCTGGCATTTTCC
TTTATTCTTTTCTTTTCTTTTTATGAGACAGAGTCTCATCCTGTCTCCTAGGCTGGAGTGCAATGGCACAATCTTGGCTCACTGCAACCTCCGC
CTCCTGGGTTCTAGTGATTCTCCTGCCTCAGCCTCCTGAATAGCTGGGATTACAGGTGCCCACCACCATGTCTGGCTAATTTTTGTATTTTTAG
TAGAGACAGGGTTTTACCATGTTGGTCAGGCTGGTCTCGAACTCCTGACCTTAGGTGATCCACCTGCCTTGGCCTCCCAAAGTGCTGGGATTAC
AGGCGTTAGCCACCATGCCCGGCTGCATTTTCCTTTACTCTTATTACTTATTCTCCTCCTCTTTCTTTTCCTAGCTCCATCTCCTTGGTTGCTCC
CTCTTCTGCTCACCCTGGAATGTTGATAATCCCAGAACCTGAGAATGGTCTCTTCTCACTGGAAACAGTCTCTGAAACTAGCATAGAGTTTGAT
TGTACCCTAGATACAATCTGAAACTACAATAGATATTCTAAGGATGTTCAGCTCATTATTTCTACATGAAACCTCTCCCCAGAATTCCTGTTTT
CCCCACCAGCACCTCCTATTCTGTTCTGGGCATCCAAAGCTCAGAGAGACATCACGATGTCTCTCTGTAAACCCGCTGTTTCTGGTCTTCTCTA
CTACTATTAAAGGACAGATGCTGGGGAGACTCCTCCCCCTCCCTCACCTCAATCCCCTCTTCCATCTCCATTGCTTAATCCAGATCCTCATGAC
CCCTTGTCTGACAACTGCTATAGCTCCCCACTCCTCATCTCTACTCCCTCCAACTCACCGAGCTGTTGTTGACAGACTTATTTTTCTAATATAT
ATATTAATTTTGTTATTTCCCTGTTTGGCTTTGACAGATCAATTTTCCCGCATGTTGAAGTTCACATTTCCTCAGGTTGCTTGTGCTTCCAATG
ACCTATCTACGTCTATGTATTTTTGAACTGCTGCACTCCCTCCCCCACTCCCCAACCTGGTCTCAAACCTATGCCCCAACTGTACTGGAACTGA
CACACTGATGTGTTTCATAAACTCACGCCCTTATTCATGATGCTTATTCAGCCCAGAGCACCATTTCCCCACCCCACCGTCACCTCCCTAAACC
CCTCCTCTAGCTCTTTGAACCACCTAAAAATCTACCCAACCTCCAAAAGTCAAGTCAAAAATCACCTCTGCTAGGAAGGAAGTCTTTCCTGAGC
CCACCAGGGGCTGTTGGCCCCTCTTCCTCTTATATTCCCTCCCACCAGTTCCTGGGACCCTGGACATGTGTCCACCAACAGCCATGACACTTCT
TTACTCTCATCTGTTTGGTGTTTGTCATCAGTGAGCCTAGCACCTTGCCTGGGACAGAGGAAGCATTCAAGGAATGCTGAAGGCAGGTGAATCA
AATACCTTGTATCTAGGAAAGTCCTAAAGATGCCCTTTTAAACTAGTGGAGGTGGGAAAAGACTAAAACGCCATTTTATATTATTATCAATATA
AAAGCTTCTCAGCCAAATGGACCTTGGCTTTCTCCTCAAACTCTGTGGATGACAGAAATGACATTAAAATCTGACTCCTAATGATATGAGGTTT
GCATGGTGAAGAATTTCCAAGATATTTTCTGATCTAGACCCTGAGACGGGGGGGATAAAAGTGAAAGATGAGATCAGAGTTAATTTTTTAGAAC
TCTACCAAGGATAGCCACAAAAATAATCATGATCCAAAAGGAACATAGCTTACCATGCATGTGGACCTATATGTAGATATGAATATGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTTTCTATGTAGGTCAAGAGTGATGTGAATTTGGGCAAGTTACCTGAACTCTCCAA
GGGTGAGGTTCCTTATCTGTAAAATGGGGGTAGCAATGATGTTCTTGTGAGGATTAAATCAGGCAAAGTATATAAAAGCACTTCACCCATTGCC
TGGCATATAATTACATTCAATGGGGGATGTAGGGAAGAGAGAGACAGAGAGAGAGCATGCAAGCTAGCACACTGGAGGATGGGCTACCAGATTC
ATTGTTCACTGTCTTAAACACACGCAACCTCCCCTCTCTTGCAGTTTGGGTTCTGGCATCTTTAACAGTTTCATGGGCAAATCACTTCAAACCT
CCACAGGTGCTACTTCACCTGGGCAGCAGTTGCTCACCCCCTACCCCTTCCCCCTCCCCAATTTAACCACACTTGCTGTGTTCTCAAGGCTGCT
GATACACAACAAACTAAGAAAGTTTTTAATAGTTACCAATCACAGTTTTCAAAATCCACTCATTTTTGCCCTTGTTTTTGGGTTTAAAAAATCC
TGGCATTTTCCTCAGAATTGCTGAACTATTAGGTGTGTAGATGAACTTGTGTTTTCTTGCTCTCCTACTCCAATTTCTTAGACTCAGACATGGA
AAAGCTTCTCTGGGTCTCAAGACATAATTTCCAGGGTGCGTGGTTCCGCTGGGTGTGCTGTCTGGTCAGTCTTACCGTTGTGGATTCCACACCC
CCACCCCACTGCCCCAACACCTATTAAAGCTGAGCTGACGTAACTTCAGGATACATTTATTATTTCTTACCTTATCATTCACAATTAGTGCAAA
TGATTAGTTCTCTGCCTTGCTCTTTAAAAAGAAAAGTCTTCATGGAGTCATTTTATCTACTTGTGAACCACAATCTCGTTTTTTTTTGGATGCT
CCTTTGAGACTATACATATTTAATTCCTTTAATATTTCATCATAGAGCAGTCCTTCAGAACCTCTTATTTTAGTTGTTCCTTTTACTTTGGCAA
AAATATAAGACTAAAGAAGCTGCAAATCTTGTTTTCCTGCCTATTTAAACAGCATCTAGAAATCTGAAGTAATTGTCTCCTCTTATTTTAAAGG
TTTTTTTTTAAAAAAAAAAAACAGCATACTAAATATTGTGGCATGGAGTTGAAAGCTTTAGGTCTGCAGCATTTGAAATGCTCAAATCCTGTC
TTTAAAGAACAGTATTTCCTCTTTGTGACTCAGTGCTGTTATCAATATACAAGGCTGATAGAGTAATTTCAAATTCACAACATTATATGTAGAT
ATTCAAAGGAAAGAAAAAGAGCTTCATGTGACTTTGCTTAATGGGTTTACCTATAGTTGTAAATGTATACTGTAAGTGATCCATATTTGGGAAT
TATCATGTAACAATTATTTCTAATAATAATTGATATAATCTATTAGAACTTGTGAGAGGTTTCGATGTAAATAATTTACCTGCCTAGCAGAGAG
AAGGGAAGGAGAGTAAGCAGGGGAAAATGTTTCTAAAATGTCCTATCATTGGAAGTAAATGATCATAAATGTTTTTGCGTTAAGTTAGGGTTTG
GTTTTAATTTTCCCTTGAATTCTAATGTTCCTACACCTTCCAAATATATTTTAAATCTTCATTAAATAAATCACATTTTAATCACACACGGAGC
TTAAAAGAGGTGATTCTATGACAGATATTCAGTATTAGCTAGTGAAGGAGAACATTGGTTGAAGGTACCTAAAACCACGTGCATAAGGAACAGT
TTATTTCTTATTTGGTGATTTACTATTTCAAGTCATTTTTGTGTCAAAGCTATAAAAATCTCCAGTGCTAAAAAGTGTAAGAAGAAATGAGCTA
GCAAAAAAAAAAAAAGTCGGGGGAAAGTTAATTTTTAAACTTGCATTACTTTTATTTTCCTACTTTCTGTTATTTCAGAATGCATACTTGGAATG
AATCCTTCTAGAGACGTCCACGGTATGTTAAATTCCAAGTTATATTTTTAAATAAAGTACACACCTTCATAGATGTGTATATGATTTTATATCT
ATGTATCTCTATGTATAACTTGTGATATAATTTAACCAAATAATTAAGGCTGTTTCTGCTGATTCCAATATACTTAAAAGCAGTTCTCCATATT

GTAAATGTTATACCATATAAAATATTTCAATGAAAGCTTAAATGATACCCTCAGTTCTACAGCGTTTACCATAGGTGCATTCTGATGCTATTAA
ATGCCTCTATACAACTCTCTAAAAACAAAACAGAGCTTGGCTTCCCTCACAGCCCAGCTTATTACCTGTGTTATAGCAGTGGTAATGCAAGATT
TTTATGAGAGTAAAATGTTTACTAAGCATTCCTAAATTTTAAAAAGATTAATTTTAAAATGTCCTCAGCTTGCTACTTGTGAGGTACACAATGG
GTTTATGAAGTGAAAGTGAAATCATCACACATTAACCATAGCATCCCACAGAAACATTCAGATGGAGGAAGGATGTAATGGAAGAACTAAGGGC
TCTCCTCCCCCCCTCTCATAGTAATTAGATTTGAAAAGTGAAGTAATCTCAAAGCCACTTCAGAAGAAAAAAATGTTTAATTAAATTCCAATGTT
CAAAACTGGATAGTGTGTATGGCAGGTGATTTGTACATACATGTTACTCTTCATCAAAATTGTTTTCCATCCCTGTGACATCAATACAAACTGC
AGCTATTTGGTTCCAAACCATAGCAAGATACATTCTATTTTTTAAAATGTAAATGGTCATTTAAAATAGAAATAATTCTTTTAGACGTACTGCA
TTTTTACAAATGTGATTTTGGAAATATATTGCTCGCAAAGGGTAATTTTAAGAGAATTGTTGAGATTCTAATCCCATCTTTATGCATATTTTGG
GGAGGCTTTTGAAAGAGCAAAAAGGTAAAAGATTTAGTTATCTTCTGAGACCACCTATAGTTCTTTACCTAAAGTTGTAGAAGAAAAACGTCAA
TGCACTGTTACTGTTTTCCAATGAAATTATTTTTCTTCCAACTAACCAAGCAGTACTTTTTAAATCCACTGCAGAAATGTACATTTCATTCCTG
TTGTGAGCCGTTTTCAATTCTCCTCCCTCCCTCTCCCCGCAACAAAATTTGGAAAAATCTGTCACGTAGCATCCGCCCAACGTATCGCTTCGTT
GTATTTTTTTTTTTTTTAATTTTGCATTATGACAAAAGTAAATTCTAGCATTACTCCAGGGAAACACTGGGAATGAACCTGGTAATGTTTCCTT
TCCTTTCTCCCTTAGGCAAAGGAAGGGGAATTCTGTATTGTCGCTAAAATGAGCGCTCTTGGTGGAAAGGAATTCCTCACTTCGTACACGCTGT
GGCTGTCCTTGAAAGTGCAGGCTCCGTAAAATGCCCGGCCGACTAAGGGGTTCCCTTTCCCCGGAGCCCCTGCCTCTTTCCATTCATTTTAGAT
CCTCAGTAAGGAAGGGCAGAGGTTGGTCTGTTTCTTCTTTTCAAGAGGGCACCGCGCTGCGCAGTTAACAGCCTGCGCCGCTCCGGGGAAACCC
AAATGTCCCGCGATCCCATCGAGTCAAGGAGCAAAAGCTGTGATTGCTATCAGCTTTTTGTCGGGCTTCAAACTCGGGGTTTATCGGTTGAAAC
TCCTAGCTGAGCAGCTCCCACGACGCTGCCTCTGACGGCTAAACTCGGTGCATGCAAGGCTGGGACCAACTTTCCTTACTCGATAAAGGAACTT
GACTCCCTCCTGGGAGACCGCAGCCCGAGTCCGACTCGCAGCCCCCGTCGCGGGGTTTAGGGTTTTAGGCAAGCGGCCCGAGACCCAGAGGAGC
CTCCCTGGACCTTTCCGAGGGGCAAATCACCCGAGTCTGCTATTTCCCCTGGAGTCAAAAGCCTACTTTTGGAGCCGCCACACCCTCGTGCTCC
CTCCCGCATCTCGGGGGTTCCGGGGGATGCACGTGGGGGTGGCCCCAGGAGCCCTGGGTGGGATCTCGGGGAAATGCATTGGAGACCAGGCGAA
AAGGTTTCCCTTGCCCAGAACTTGCCTCTAGAGCGGGCCGCGTCCGAACCCGCAGGCAAAGGCGCTGCGGCCCCTGCGGGCGGGCGCGCG
CGATGCACTCTTCTCAGGGACAGAGTTAGAAAGTGGACGTTTGGGCGGGGGGAGGGGGGGATTTACAACTGGAATTAGGCTTAAAAAAATCATT
TTAAAAGAAAAATGTAGTAAGTTTTCTTTCCGAGACCCCAGGTCCATTAAAACAAAACTGAACTCGGGTGCTGGCAGTGCCCAGGGGGAGCGGA
GGCGGAGAGGGTTGAGGCCGCGGGCCGCCCGCCTTAGCCCCCCGGAAGCCCGGGCTCCTGAAGCACAGATCCGGCCCCGAGTCAAGC
CCCAGGAACAGGGGCTTCGGGAAGAGACCCCGACCGGGCCGCACAGCGGGGAGGCCTGGTCCGAGAGTCCCCACCTGGCCGGCTGCGACTCTAT
ATTGGAACCTCGGAAACGCGCCTTGGCCGTTCCAGCTCAAGTGGGCTCTGGGGCGGCTTCCTGTCTTTTATCCTCGAACGCTAGTTCTTCCCGG
GCGACCCGAAGGCCACGAGGCGGGCCGCACAGCCCCGCGCCGTCGGGGGCGTTCCGGGAGCTCCGGGGACTGCGCGCGGCGTCCAGGGAGGGCG
GCTGCTGCCCCCTGGCGTCCGCCAGAGCCCGCGGCGCGGTCCCGACAGCTCCGCGCAGTCCGGGCCCGCCCGGGAAAGGCCTCCACGCCAGTCAA
CCCCGGCCCCCTCCTGCGTCCGGGCCCGCGGCAACGCCCGGGGACAGTCCCTGCGCGGCAGCGGCCACAGCACCCTAGCCCTGGGGGAGGGAGG
AGCGGGCGTCAGGGGCCCCGTGAGGTCGGCGAGGGACCCCCGCGCCGGGGAGCTTAATTGAGGGGCTCCGCGGGGACCACAAAGCAGCCCGCGG
TGGAACGGGGCCGGGATCCGGGGACTGGGTTGCAGCCCCGGGGTGGATGAGAGGCCCCGGGAGGTGCAGGGCCCGGCAGGGAGGGCGTGGAGGG
ACTCATGGTGACGGGAGCAGCCTCCGCTGGGAGGGAGCCCCGCCGGGCGGGGTCGGAGTTGGCAGCGCACGCCGGACCGGGGGCGGGGCCCTCC
GAGCTCCGCGAAAATGCCCGCAGCACCGCGGGGACCGGCGCAGGGGGAAGCGGCCGCCCGCACGCGAAGCCGGGGTGGGTTCCGCACCTGGGGC
CGCTCGAGCGCACGGGGGCGGGGAGAGGAGCGGGGGCCGCTTCCGGGGAGCCGGAGGGGAGACGCGGGGCCCGGGCAGGCTGTCCGGCTGCTGC
GGGTGCCGGCGCTACAAGGCCCGGGAGCAAGCCGCGTGGCTGCTTTCAACTTTCCTTCCAGCCGCGCGTTCTTGGGGTCTTTCCTGACTAGGAA
ACTCTTCGCTGGCCGCTGACGCACGCAGCAAGTGAGACGCGCGGAGGGATCGAGCCGCGGCCCGGGCGCAGCGGTAAAAAACACCCATTACAGA
AACCGACCCAAGGGAAGACGCTGAGAGCAAACGGCACGCGCGGACGCCGTCCGGCCTCATGCAAGGAATCAGCGCCGCTTCGCCGCAGCTGCCA
GCCGGACGGTGCAGGAGCGCGGAGTGGCTCCCCGGGCCCCGCGGCCAAATCGCACCCCCGCCCTGGAAGCGGAGGCCTGGCCCTGGAGCGGCCG
CGCAGGATCTGGGGCCGTCCGCGGGCTGCAGCCCGGTTCGGGAGCCTCGTGGCGGCCACTGCGCCTGCCTGCAGCGGCTCGCGGGGCCGGGCCT
CTCCGGGTGCGGCGCGCCGGCCGGGTCCTCCTCGGGCCGGCGGGGCCTGCTTTCTTTTTCCAGGTCTCCGGACCGTGGCCACTCGCGGAGCCGC
ACAAGCCTGCGTGTGGCTGCGGAAAGGGGTCCGCACGCGGGCGGGGCCCCGGGCCAGCATGCAGGCTTGGATGCGGGGCGCGGGGGTGGCCTCC
GACTCCCCGCCCGGGCTGCGTACAGTAGCGCGGCGCGGCGGCGGGGGCGCGCGGGCCAATTCCAGGAGCCGGCGGCGGCGAGCCGCGCCCTG
GCTGATACCGGAAAGGCCTGTGATTGGCCGCCGGCCGCCCCTATGCAAACGAGCTGAGGGAATGGAATTCCTCCGGCCGGGCTTACAGTAAAAG
CACGTTCATTTCCAGGCACTCTCATTCATAGAGCCAGCGGGCGCGGGCGGGACGGGCGCCCCGCGGCCGGACCCAGCCAGGGCACCACGCTGCC
CGGCCCTGCGCCGCCAGGCACTTCTTTCCGGGGCTCCTAGGGACGCCAGAAGGAAGTCAACCTCTGCTGCTTCTCCTTGGCCTGCGTTGGACCT
TCCTTTTTTTTGTTGTTTTTTTTTGTTTTTCCCCTTTCTTCCTTTTGAATTAACTGGCTTCTTGGCTGGATGTTTTCAACTTCTTTCCTGGCTGC
GAACTTTTCCCCAATTGTTTTCCTTTTACAACAGGGGGAGAAAGTGCTCTGTGGTCCGAGGCGAGCCGTGAAGTTGCGTGTGCGTGGCAGTGTG
CGTGGCAGGATGTGCGTGCGTGTGTAACCCGAGCCGCCCGATCTGTTTCGATCTGCGCCGCGGAGCCCTCCCTCAAGGCCCGCTCCACCTGCTG
CGGTTACGCGGCGCTCGTGGGTGTTCGTGCCTCGGAGCAGCTAACCGGCGGGTGCTGGGCGACGGTGGAGGAGTATCGTCTCGCTGCTGCCCGA
GTCAGGGCTGAGTCACCCAGCTGATGTAGACAGTGGCTGCCTTCCGAAGAGTGCGTGTTTGCATGTGTGTGACTCTGCGGCTGCTCAACTCCCA
ACAAACCAGAGGACCAGCCACAAACTTAACCAACATCCCCAAACCCGAGTTCACAGATGTGGGAGAGCTGTAGAACCCTGAGTGTCATCGACTG
GGCCTTCTTATGATTGTTGTTTTAAGATTAGCTGAAGATCTCTGAAACGCTGAATTTTCTGCACTGAGCGTTTTGACAGAATTCATTGAGAGAA
CAGAGAACATGACAAGTACTTCTAGCTCAGCACTGCTCCAACTACTGAAGCTGATTTTCAAGGCTACTTAAAAAAATCTGCAGCGTACATTAAT
GGATTTCTGTTGTGTTTAAATTCTCCACAGATTGTATTGTAAATATTTTATGAAGTAGAGCATATGTATATATTTATATATACGTGCACATACA
TTAGTAGCACTACCTTTGGAAGTCTCAGCTCTTGCTTTTCGGGACTGAAGCCAGTTTTGCATGATAAAAGTGGCCTTGTTACGGAGATAATTG
TGTTCTGTTGGGACTTTAGACAAAACTCACCTGCAAAAAACTGACAGGCATTAACTACTGGAACTTCCAAATAATGTGTTTGCTGATCGTTTTA
CTCTTCGCATAAATATTTTAGGAAGTGTATGAGAATTTTGCCTTCAGGAACTTTTCTAACAGCCAAAGACAGAACTTAACCTCTGCAAGCAAGA
TTCGTGGAAGATAGTCTCCACTTTTTAATGCACTAAGCAATCGGTTGCTAGGAGCCCATCCTGGGTCAGAGGCCGATCCGCAGAACCAGAACGT
TTTCCCCTCCTGGACTGTTAGTAACTTAGTCTCCCTCCTCCCTAACCACCCCCGCCCCCCCCACCCCCCGCAGTAATAAAGGCCCCTGAACG
TGTATGTTGGTCTCCCGGGAGCTGCTTGCTGAAGATCCGCGCCCCTGTCGCCGTCTGGTAGGAGCTGTTTGCAGGGTCCTAACTCAATCGGCTT
GTTGTGATGCGTATCCCCGTAGATGCCAGCACGAGCCGCCGCTTCACGCCGCCTTCCACCGCGCTGAGCCCAGGCAAGATGAGCGAGGCGTTGC
CGCTGGGCGCCCCGGACGCCGGCGCTGCCCTGGCCGGCAAGCTGAGGAGCGGCGACCGCAGCATGGTGGAGGTGCTGGCCGACCACCCGGGCGA
GCTGGTGCGCACCGACAGCCCCAACTTCCTCTGCTCCGTGCTGCCTACGCACTGGCGCTGCAACAAGACCCTGCCCATCGCTTTCAAGTACTG
GCCCGGAGAGGGTGGTGGGAGGACAGGCGGAGGCCGGCGAGGCCGGGGGAGATCCGCGAGGGCAGCGGCCAGGCGGGCGGGGCCGGATTCTGGA
AAGGGGCCCCCGCAGCCCCGGGTCGGTCTTCCTAGCTTGGGATGTGGGGGATGCTGTGTTGCCGTGGCGACCCTCGGGAGGCACTCGTCTCAGC
TTTCTGGGGCGGCCTCCCAGGAGGGCTGAAAACATCAGGGTGTCCCCAAAGATATCCACTGGGAGCCGGTCGGGACCTCCCTGGCAGGGGCCTT
AGCTTTGATACAAAGTAGGAAAAGTTATAACCCAGCCCGGCAGAGACAGCCCGTCTGCTAACTTACTGCTGCCCCTACCGCTGGATTAACACCC
AAACCATTTTGTCTTCCTCAGATGAAAGGATCAGGAAATAAAATAGTAAGACTTTTCTGCCTTCAAGTCAGTGAAAAGAAACTAACTAGGGAAA
CTGTCAGGGATTTTTTTTCCCCTTCTCTAACCGCCCTATAGGAATTAGCATGTCCAAAGTCCACAGCGGGCGTAGTTAAGTTTGCAAAAGTTTT
CTGAAGAGTTCTCTGAGCTTTTTAGCCTGCTCCTGCCAGAAGCCGCAAGTATCGAATCCTGTTTCTTTTCCCGGAACCGTTCTGAATGCTATCA
TCAGCTCACCTAGATTAAGCCAGGGGTAGCGAAAGGTGACGAGGCTGTTTTCGGAGAGCCAGGGGTCCCAGCGGCCCGCTTTCCTGCTAGAGGA
GGGGGCGGCGCGTAGCCGGAGACTTCAGCGCGGCGGCTCCAAAGATCTCCCTTCACTTTTCACCCCTGATCATCCCCAAAGCTTTGAGCTGCCT
TTAAAAACCTTGACCTTCAACAGGGGTATGAAAACAACCCCAGGCGTTTCTAAACAATCACCCTACTACACTAGCAGCAAGCAGTAGGAATTTA

ATTTCTGCAGTGGAGATTCTGTTTTGTCTTTGGTGGGTTTGAAAAGATGCGACTAAGTAAAATCAGTGCGGGTCATTTCCTGTTCGTTTAAAGG
GCGAATCAAGGCAGGTGGTTCCAAGTGTAAAGATAAGCTACTAAAAAAAAAGTTTAAATAATTGTCCCCTTTAAAGGGAGATTAATTTAATATA
AGCTTTTTATAGTTCCAAGCCTCAGCTGGGTCTTGATCTTATTACAACGACGAATATTCACTTTTTAAAAAAGTATTGTTGCGGTTATTTTTAA
GCTTTATACAGTTTCCACACTTAGATTGTGATTTCTAAAACAAAACGAAATTTGCAGTTGGCTGTGTCTATAGATTGGCCTCTTTTTCCACTCA
CTTTTCTAAAAGCAGTTTTTTTTGTTTGTTTTGTTTTTTTAGTGGGGGTGGAAATGAGGAGAAGGAACGAAGGAACGTGGTGGCTTGCTTGACTC
TTTTTTCCCTCCCTCCGTTTACTTAGATTTGGGTTTGGGAGACCATTTTACTTTTAAATCATTCTAACCCTTTGCCTAAATGGACTCAGCGATG
ACTCTTTAGGGCACCCGCATTGAGAGGGGACCCAACAGGGTTGGGCCATGGGGTCACTATCAGATAAAGAGCAGAGGCAAGACGGGCTGATAAC
CACCAAAGGCCATTAAAACCTGGCTGCCCCAATGCACTAGGGCTCTAAGAGATTTGTGGCTTCCTTTTGGGGGGGAAATCAGGGTCTCTTCTGA
ACTCCCTCCTCTGCCAGGGAACCCACACTCAAATATATTAAAAGACTAAATGATTAATAAATAATCTTCAGGAATTGGAGCAATTCAGAGTCTC
AAGCCATTACATGAAAGTATTTATTTTCTTCTAAAAAATGAAAAATTATACATATTGCTTTTATGAGCTGTCAGAATTCTTTCTAGCAGAAACC
ATAATAACCATAGAGTTTCCTTTTTAAAATGACTTTTGGCAATTCACTTAAAAACAATTAATTTGTTTTATTGAGTGATAATCTATAGGCTACT
AAAAATCCAAATACAGAGCTCTTGAAAAAAGTTCAAGCAGATCCCCTGAGAACATTTAGGGGAAAGGAAAGGATAGCAGAGAAATCAGACCATT
TGATTATTGTCTGTCACCACCCCAATCCTCATAAAAAGAGGCTTCTTCCTGGAGGAGACCTGCTCACTGCATAACTAGAAGAGTAGACAAAATG
TTCAGTGAGACAGTAAACGTGAAGGGATAAAATGTTAGGGATAAAAGCAAGCAAAACATCAAAACCTGCCTACATCCCGGGCTCATTTAGTGTG
TGTCCCTGGCTTCACTCTATCTGCCCACCCAACCACCTCACAAGCAGCTTCAACAGAAATTATTACTTTAAAATTTGGATCTTAAATAAGCCGC
AGGCAATCTCCCTAGGAAGTTAACCAGTAAATAATTATTATATTCCCTATGGTAAAGAGAAGCAAATGTGAAACAATGATAAGGCCTGATGATA
TTGATGAAAAGATCACTGAAGGCCTTCTTAGGAATCTCCTGAAGTTCTGTAGGTAAATCCTCTACGTCAATCTTCTGAACTAAAGAGAGATTTA
AAATTATGAATTTTCTTTAAAATAGATTACAATAACCCTACTTGCTTATTTTGAGCCCCAACCTGTTCTCCCCCTACTCCTTCCCTCCCATGGA
ACACCTTTATTTTTTACAGTATGAGAGATACATGTTTTTTACTACTAAGAAAACCTTAAGTTTGCTGTGTGTTTTGCTGTACTTACAGAATTAG
CCTAAAAAGCTGTTTTGATGACTTAGGATGTATTTGGTAATACCATGGTGTTATAGCTTGTTCAGGCCCTGGTACACCAGAGTCCAAAGACGTA
AACGTGCCTTCAGCAGGGAAGTTCGGAGGTCTTGGATTCTGATGGTAATATTCTTTTCATAAAAAGGAAATAAGTAATATTTTTGTCGGCAAGA
TCACAGTCCCTAGCTATGCCTTAAATATCATCTCAGCTGAATTCTGTGTTCCACTCCACAGCCTTCTTTGCAACACTGGAAGGTTAACGGATTT
GAAGTAAATGAATTGTAACTGTAATTTCAACCTAATTAGAATTGGTTTAAAATGCCAGTTTGGACCGTGAACAGGCTAGCCAAGAACAGTATTG
GGAGGTCCATGTAATATAGAAGAGAGTTGATATTTGGCCCAACTTCCTGATACTTTAAAAACAGAGAAGTAAAACAAAATATGAGATATCTTTG
GCCAGCAAGTCCCTTCTTGCCTGTTTGGTCTGTGTTAAAATGTAAATGTTTGTGTTTCCTTACCTATTGTTTATAGCTTTTCATTCCAGTTGTT
TCTTTTTTCTGTTTGAAGTTAGATATTTTTACATTCTCTCCATATTGCCCATCAGTGACAAAACCTGTATCAAATTAGCACGCATGTTAGTTTT
GAATTAAAAAGAAACTTTTTAAACCTGGCTTAAGTATGCTTGTTAACAATTGGACGATATACAGTATTAATGAATTGCCCTGGATTTACTAGTT
CCCCTTTACCCACCCGCCTCCACCAAAAAAAAACCCTCAGAGATCAATACAAGGCCAAGTGAATGATATGTAGGTGCCCAAATATGGTTGATTC
TGCTGCATTTAAAAAAAAAGAGGAGTGGGAGTTAAACTTCTAATTTTTTTCTTCTTAAGTTCCAACATCAACAGCCTTTTCTTATTTAGCCTCC
ATGATAATTTTATTCTATGTTTGTTTCGACTTGGCGAAGGTCTCCTGAATTTGCCAAATTACCAATGAGGATAGTATTGGAAAGATGAGAGAGG
CACAGGCTTGGAGCACTGTGAGGGGAACAGCAGTAGGAGGCAGATAATTCAGAATACATTCCTGTAGTTATAAAAGAAGATTTATTTATTTTCA
CCTTTTTACAGATCCAGACCCAACAATGAGTTATTCAGTTTGAAACCCACGTAGTGGAGGCAGTCTCTGTATACCTGCTGAATGTTGAGTTACA
ATAGAGAAGCCTGGGTTACCACAGGGAGAGGAGGATGAGGAAGTAAAAATATGTGTTCAAAGAGGGCATTTCAACACTGTGAGCTAACTTTACA
ACGGGAAGTGAAAATCATGAAAAAAAGGGGAAAATTTGTTGTGAGAGACTAAAAAGAGCAAAATAAAGCAAGCCCATTTTTCGGGAATAGAAAA
AAAAAAAAAACAGTAGCAATAACCAAATAACTGATCAGGGAGATTTATTTCCGTGATATCTTTTTAAAACAAAAAGGGAATTGTCGTATCACTG
CTCTTAATTAAATGGCAACAAACACACTTATAATGGGAACTAAATAGCTAATTAGAGGGTGCTTGGGGAATAAATAGCAGAGTTTTAAAATCTC
CTATATGGAAAACATGTCCAACAATTGGAATGAAAGGATTAAAAAGAGAGAAAAGGCCCAGACCTTGTTTGGCAGTGCAAGTTGGATAAAATAG
AGGAAAATGCCTCCCTGCTTCTATGAGACTAGATTATCCTGGTGTAGTCTTGGGGTTGGAAGTATGTTCATCTCTCATAGTGAGTTAGTTCGTG
TTCTGTGCCACAAGGACTGAAGCAGTTCTAATGAATAAAAACAATAGATAGTCATCTGGAGGCCACAGGGAAAGGGTGATGGCTAAGCAGATCA
TGAAAATGGGAATCTTGAGAAACATGACTTCGATATCATACAAGTGAGTCTATGGCAGCCTTTTTTACATATAGAAAAAGAGGCCTGAAAATAT
ATACTACAAAAAATTATGTAGCAGTTATTAAGGTAAAAATTGGGAAGTAGGAGGCAGAGGAAGGAGTGATAACACTAGATTAAGGAATGCTTTA
CTGTTACCAATTCAAAAACAGCAACCAAAAATGATGATGTAATTGGAATGAGTAATATAAATGTCACTACTGACTTTACCGTAAAGAATGTCAG
AAATGATCAGAATAAATACAGCTTGGGGCATTTCGATTTGAAGTTGTATGACTGCTTTGAAAAATAGAAACAAAGGAAATACAGCCAATAGTAA
ATGTCTAGACCAAGAAAATAGTTTCTAGAAGGCCTAAATGATAGCCAAGAAATTGATGCTATTGTACAAAGTATCTTTAGGTCATGCTTTTCAG
AGTATTTTACTTTGGAATTCATTTTCTTAATTACCTGAGTATAAAAACATTTATCTACCAGTTTTCTCCAATAGCCCTGATAAGACTTCATACT
TACTCAGTTACATTAAATAAATTCCTGGTCAAGATCAGCTGGGCTAGCAGAAAACCTCAGGCATCTGTGAGGACATGAGTTTACACACGCTGAG
ACTCACAGATACAAAAATGCAACCCAATTCCACCCCTGAATTGAGGGAGTGCATAGAAGTGAATGTCCCGTCTTTCTGAGGTCTGTTGATTTT
GTAATTAGTAAACGAAGGGTGCATTTCTGATTTTTTTTTCTTGTGTGCTAGAATTCATTGCTAGTAAAACTCAAGATAATAGCGATGAGTAGGA
GGTATCAAAGATGAACTGTAGAGGGACAGTTTAAGTTACTTAAGAATCGTCAGCAAGATGAAATCTACTTTTAGCAGAAATTGGGTTTTTTTGT
GTTTTTTTGTTTTGTTTTATTTTCTAAAAGTAAAGTCTGCACCTTGTTCAGCCTGTTAGTGGAGGTCTGAGCAAGTAAAAGATGGGTTGGATTA
TAAACTTACAAACACAGGATGTTCTGTTTCTCAAACGGGAGAAATTAAGAAGAGATGCTTGTATTCAGGAGACGGCATAGCTACTCAAAATCCT
TGATATCTTGCTATGGTTAGTCTTGTTCCAACTGTGCTATGTGACCTACTATGGCTTTATGAGGTAAATTTAGTATATGTGTCACTATTTGAAA
ATTTACATATAGTTATACATAATGTATTAGGTTGGTGCAAATGTAACTGCAGTTTTTGGAGTTAAAAATTGCAAACACTGCAATTACTTTTGCA
CCAACCTAAAATATAATAAAAAAGTGTCTTCTCTTTATAACTTTTCTGTTGTTTTGCTTAAGTTATCATTGCTATTCCTCTGCAACCTAAAAAG
AAATCATTGAATATACATTTAATTTTAGAATAATCACTACACAAATGCCCTAAAAGTGTATGTATAACATCCCTGATGTCTGCATTTGTCCTTT
GACTGGTGTTTAGGTGGTGGCCCTAGGGGATGTTCCAGATGGCACTCTGGTCACTGTGATGGCTGGCAATGATGAAAACTACTCGGCTGAGCTG
AGAAATGCTACCGCAGCCATGAAGAACCAGGTTGCAAGATTTAATGACCTCAGGTTTGTCGGTCGAAGTGGAAGAGGTACGTTATCTGTCAAAA
CTATGCTTGAAACACGTTTCATGGCAACAAACCCACATTTCAAAATTCTAGTGATTTCTGTGATGGAATCCCTAGAAACTCGGTCTGTCTTAAC
ATTCTTATTGCTATGTCAAGCTCTTAAAAATATTTATTTGAAGTTTAATATTTTTAGCAGAATCTCTATATTATTGCTTTATGTTACTGAGTGG
ATTTAAGACTGATTTGGAACATGCAACGTAGGAATTGTGAATTTCAAAGAAACGCCTGAGATTTTTACTAAAATGCAAAAAATATAAAACTGAC
TTTAATGAAACTAGGATTATACAATTACAATGAGGATTCTCTCTTGGATAACAATACAAAAGCTATTTAATGGAAACTGTTGACGTATGATCTG
TGGGCTATCTGTGAAAAGTGACAGAGTTTCGAATGACCACTTCTAATAATTTTAGGGATTTCTAGTGTATGATGTTGAAACATGGTTTCAAGCA
AGCTTACCTTTTTAGAAAAAGACATGAAGAAATAATGTTAGTACCATTGATGGCAGTATGATCTTCCTGTTGTATTTCTTTTCAATGCCTTATT
TAGGAGGAGGGGTTGGGCCTGGTTAGCATTTTAGATACTAATAATATTAGAGATTGGATTATCCAAGAAATTGTTGCATTACTTCAGCTCCATG
TGTGATTTTATTTTTCCTTGCCTTTAACTCATTATCAAAGCATTAGAGCAGAAATAGGAATCTTGGCTTATTGTAATTTTTTCTGGTTTCCAAT
TATTTTCAAGTATTATGTTTTCTTTACATTGTAAGAACCAAATCATATTTTATAAATAGCAACAAGTAGTAAAAGTTTAGTTGAGGGAGGTAAG
ATAGTTTTTTAAACTCATTTTTTGTAATATAGTACCGATTAAGCTTACAAATAAGTTATTTCAAGTATAATAAAAAGACTTATGGTAAATACCT
AAATAACAGTAATAGTTCTCGTATTGAAAAAAATGGAAGCACCAATCAAACAACATTTAAAATAAGAGAAATTATTACTCTTTAAAAAGGCATT
TAAAAACAAGAAAATCTCAGTTCTCAGAGAATTTGATTAGTCAGAAAGGAGAAAGGGGTAAATGTGAGTTGATTATTTTGGTGATTATTTTTGC
TATCCTAGCTATCTGGAGCATTTTCATAATAGAATCATAGCTGGAGAAAATAAAAAATTTATATAATGTGATTGAAAATATATTCATAGTAC
TATATTAATAATAGGGTAATGCAAAGAAAATTATATCCACTTTTTGAAAGCATGAGTGATGCTATAAGATATAAAAGCATAAGTCATTAAATGG
GTTCACTTGTTGTATTAAAAGTCCCCACCTTTCAGTAAATGGAATTTGCATTATGATTCAGAGATGTGTGTCTAGAAAACATCTTAAAGGCTTC
GGATGAGTAGCTGGCAGAGTGGGTGAGAAGCCAATAAAAAACAAAGGCCCCACAGCCTGGTCCATGCCCATCGGCCTAGCTAACTCTCTTAATT

CAGTTCTTGTGGATTTCTGCTGTTAGGAATCAATAGCTAAGTATCATTGAATTGCTTTTCTAGAGAAAGTGTTATCATCATACTATGCATCTGT
GTGGGTCTTCAAGTTAGGTTTTGGTCATAAAAGTTTTAAAAACTATTTAGTGATCCGTGCCAGTGACATTTTCCCACAAGAAGTTCAGTAGTGG
CTTTCCGGCAATGCACAGTAAACCAGTGATAATAAAAAAATGAGATTTTGAAAGCAGTGTGCTTTCTTTTCTGGCATTGATGGCTGATCTTGCA
TCCCTCATTGACCATTTCTGTTTTTGAGTGGGTGACTAATAGGTGCTTGTGTTTACTTGGGTAACAGTGAACTGTTTCCCCAAGGTGTGGAGTGT
TTGCATTTGGCTGCAGGATTCGTGCCAGTATGCCCTTGAGTTTGCATAAACCCCAAAAAGTAAAATAGCTGCAACCAAGGCTGGGCTGTCTTCC
CATACTCTGGAATGAGAAAATTAATTGAAATGCCATAAACAGACAATATTTTGAACAGACTCTCCTTCCCACCAGTGATAATAAGCAATAAAAA
ATACGGAAACCCTAATGGAACATTTGACCCAAATTGTAATTACTGTGGATATGAATATTGTTGGTCTTGAGATGTATATATATATGTGTGTGTGT
ATATATATATATATATTTTTTTTTTTTTTTTAGTCAGCGCTACAAAAGTAAATGAGCTGTCTGAAGGCCCGATTTGACTCTGTCATAATTTCT
TTCCATAGTCATAAAATATAACTTGATTTTTCTCTTTCAAGTGTAAGTGTCAACACCAAAGCCTGCCAGATTTTTTTCTTTCTTTTTCCTTCTT
CTTCTTTTTTTTTTTTTTTGCAATTTGCTTCCCATTAGGAAGAGAGCAGATCATTCTGACTAATTTTAACAATTAGTCTTAATCTTCCTCACTG
AATCTTACCTTTAACAGTTTCATTACGTTTTATTAAGTGATCTTAAGACAACTGTCTCATTTTCTGTTTTTTGAAAATGTGCTTGAAAATATACC
CTTGGCATGAACACACCACGCCATGGCTCAGAAGGCCCTGGCTCTTGGCTCATCCAAACTTTCAGTGCCAATTTTGAATTCTGTCAAAAGCCAC
CAGTCTGATGGATTCTCCAAGGGGCCTAGTAAGTGGTGCAAAATGAAAGGTAGAGAAAGAAGTTCTCTTTCTGTGACCAGCTGCCAGTCCATGG
GGATTGTAAACCTCATAGAAACTGCCAGAGGTTGAACATGGAAGGGTTTTTCTCTGTTCTACAAAACGAATCTATCTGGGCGCTGGCTGCCATC
CAGGATCACAGCTCCTAACCTCGGGTTCATTCCGTAACTGGGAAAACCTGCCTGTCCGGCTTTGATGGCCTCGCTGGCTACACTGGCCCTGTAG
AAGCCTGAACCTTCTCTCTTTTCTTCCATTCCCTCCTTTTTCTCCTTGGCAGTTTAAATCTTGGTTCAGAGTGTATCTCACCCTTGGAATGTTT
CTCTCTTTGATTCAGTATCTCCATGTAAATCGACCGCTCCTTTACAAAGGAGGAAGAGATAGCAGCTCCCAGGAGATGAGGGTTAGGGAGCTCT
GGGGACCGGGCTGAACTCCAGAGGTCATGTGAGCACAGAGGTTATTGTTCAGAATAATTCACATTTTAGCCAAATGGACTGGGACTCCATGACA
CCCCCAAAAAATTGAAGTTCAGGGTCAAAAGGAATTCTCTTATGTGAAACGAATTCACTGAGCAGCTTATATCAGTTTACATCTGCAGTTGAGG
CAAGTGCTACATCACCTGCCACCTTTAGAATGACAAGAAAGTGTATCATGGCTTCAGCTGAGAGAAATTTAAGAAATTTTAGCAATTGGTATCC
GGGCACAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAAC
ATGGTGACACCGCCATCTCTACTAAAAATACAAAAAATTAGCCAGGTGTGGTGGCGGGCGCCTGTAATCCCAGCTACTCAGGAGGATGAGGCAG
GAGAATCGCTTGAACCCAGGAGGTAGAGGTTGCAGTGAGCCGAGGTTGCGCCACTGCACTCCAGTCTGGGCAACAAGAGCAAAACTCCATCTAA
AAAAAGAAAAAAGAAAAAGAAATTTTAGCAATGAAATCTGTGACTGCTTCATCCCAGTTGGAGTATTTAATCAGTCAGAGAATAACTGATCAAT
CAGGAAATACAGCTTTAGTAATTTCATTTCAGAACCAAAGAAGAAATCTCTCCAGCTGCTTTATCAGCTGCATTGTTGCTGCAGGAGGAAAGAT
GGTCTACTGCACATTTCTTTCTAGTTTTTTCTTAGAATATGATTTTTAATCTTTGGGGAACATCATAGATACTTTTGAAAATCCTTTGGAAGGC
TTTTTCCAAGGACAAAAAAAAAAATGCACGTGTTCACTTACACACAGAATTACGTATATCATTTCAGTTTCTAGGCTACCAGAACTCATTTATGG
ACCTTCTGGGGATCCACAGACCCTAGGCCAAAAATTTGTGAATTTGGAACTTTGCATTGATCATGGAGGGCCAGCTTAGCCCTATGCCGCATAT
AGTAGACACCTGAAAATGAATAAATACATGTACAAATGAGCTAGACATTTTCTTGAACCTGTGCTGTTTTGGTAACACCTGTGTTTTTGTTATC
GCCGGGGTCTGGTTTGTCTAATTAAGAAAGTAGATCTCCTTGAAACCACTGGCCAGGCCTTTGGATGGCCATCAGGTATGCCCACATATCATCA
CGGGTAAAGGGGAGGGGGCCTATTCTGTCATTGAAAGGACAGTCGCTTCCCTCGTACTGTGTCCACACCCAGCCCTGTAAGGCCAAGTGTTCTG
TGGCCTGTCAGGATGGCGTTGAGTTTCTTGGCGGAATTTGTGTTTACATTGACCTCCCTGGCAGCTTTAATCTTGCCCACTTTCAAAATAGTAT
CCTTTCCCAACACATTTATACAATGAAATTCCTTCGGTATGTTCTTGCTGTGAATATCTTCCCAGACATAATATTTATCCTGTCACAATCTGGG
TTATTGCATATTTGTGTAATGTTAGTTGCTTAAGGCATTTTCATTCTTAAATTATTCTACATTATTTGGGCTAAAGTGTGGGAGGTTGCCCTTC
AGGTGAGTGGAAGACTGTGGTCAAGAGGAAGGGAAGGTACATTTAGGGAAGGATAAACGGTACTGATATTCTAAACAAAGAGACATGGCTTGGC
TTTATGTAGCGGTTGTTACCAAGAGATGATCTGAATGACTCGCAGTATTATCGTAGGATCCCAGTCCTTCTCTATTCTATTAACAGATTCATAT
AATAGAAGAAGGAAAAATTCATCTGACCACCCCAGAGTTGTTTCACGGGTAATGTTCATGGTATAAACTGGCAGTCAGATCTCCTGGAGAGAAT
ATAAGGAAAAGACATGAGTTATATTAAAATCAACTCTCCCATTTTCCCACTTTCTTCTGTTACATACTGATCTACACTTTAAAATAATATATAT
ACTGAAATCTGTATTCAGATCTCATTGCAAGCAAATATAGATGAATAAAGACCCAGTCTCTGATATACCAAGCCTCAACCAGCCCTAACAAATG
CTGCTTTTCGACGGGCAGGTCAAAAGCTTGCCTCCATGATCTGATGTAGAATTCATCTCTAGAGACCAAGTTTCTCATTTCGGTTTCACATTTG
CCAATAAAAGGATAGCAACACTTTCCTAAAGCAAGTTGCTCCCTGCCCTGCTTAAAGCCTGGGGTGGCCCAGTCATGGCAAGGACCAGCAGGAA
AAGCTTTCTTGAAAACTGCTTGTGCTTGCAACAGGCAGTTTCGCAGTTGATCCCTTCATAGTTTTCTTGCTGATTTTGTGAAGTGTCAGGCATT
GCTGATGGCGTCACACAGCTTTTTTAAATTGAGGTTATTTGTATGAACAATATTTTATAGTTTGATGGGCAGAAGCTGTACTTCTCTCCACCCA
CCCTCAACCCCTTCCTTGCCAGCCGGCTTGTGTTTGGTGGAGGCATTTCTTTTTGGTCGGGACAGAAGACTATCAATCAGAAAGTGCCTGCAAG
AGAAATAATGGTTGAGTGATTTTTAGAGCTTCCTGTTTCAGCAACAAGCATTATAGACATAAACAGTGATCCAGCCAACGGCTGCAACCCTGCT
CTGGTTCTAATAAATCAGTTTTGTATTTTCTTTTTTTGTGCTGGTTGGCAAGGGGCAAGAGAGGGTGGAGAAGGTTGGCTAAAGAAGAACATATT
CTGTGTTTCTGGTTTTTTTGTTGTTTTTTTTTTTAAGGAAAAATTACTTGTTGACAAGGAGAGATGGTGTACTGTCTTTTTTTTTTTTTTTTTT
TTTTTTGAGACAGAGTTTCCCTCTTGTTGCCTAGGCTGGAGTGCAGTGGTGTGATCTCAGCTCACTGCAACCTCCACCTCCCAGGTTCAAGCGA
TTCTCCTACCTCGGCCTCCCAAGTAGCTGGGGATTACAGGCATCCACCACCACGCCTGGCTAATTTTGTATTTTTAGTAGAGACGAGGTTTCAC
CATGTTGACTGGGCTGGTCTTGAACTCCTGATCTCGGGTGGTCCACCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGTCGTGAGCCACCGTA
CCTGGCCGGTGTACTGTCTTAAGGCTGTTTTCTTTCTGTAGATGATTATGACACAAGTTCAGATCAGTAAAGAGATGTTTATGAATAATCATAT
ACTGTCAATATGGGGAGAGTGTATGCTTTTGAAGGCTTCATTGATTCTTAGCCAGTGGAGTGTGTGTGCGTGTGTGTGTGCGTGTGTGCAAGGG
GGAGAGAGAGAGAGAGAGAATGAGAATATCCATACTTCCATTGAGAGACTTCTTGGGCCAAATTATCTTTGAGGACTAAATTCATGCTAA
TAACATCTTCTCATCTAAAGCCCAAATAAAGCAATTAATGGAAATTAATAAGTGAGCAGTGTGGATTTAATGAGCTGCCTATGAATACTATGAC
ATGCGCTCGTTTTGTCGGCTCCCTGGCGGGGCATGGGGACAGATCGCAGCACTTCAACGTCTGTATTTATAAACATGCATTCCTGGACTTCAGG
CAGCGCGCATACTCCATCATTGGTTCTGCTGTGAGTCCTACATTCAACGGAGATGTATTTTGATCTCTGTTGAAGACAGAGCAATCGACGGCAT
TCAGTTTGCACTGCACTGATTTGGGATTCCAGTACATTGCCCAGTCCCTGTTAGTCTATATTGGGCAGCATGTCCCATTCAGGAGCTCCATTTG
ACATCACCGAACGTTCTCCAATGAAGGTGTCAGGCAGTTGAGGTCCATAGAGGAATCCCAGCAACTTCCTTTGAGAGGCTCACGGCCATTCTGC
TGCTAGACTGAAAATGCGTTTCCTCTGATTTCCTTAGTGAGGAAGCATTCATTTAGGAGCCATTTAAACTGTGTTTTTCTCAAAGAAGATGTAA
GTACATTTCCTGTTTATTTCTCAACTTAGATTAATTTGGGCTTTTACCTTGAGATTTAAGACCATCATTAAGAATGTATGGGCAGGGCCATCTG
CAGAACTACCCCACCTCCCCCATCACCTATCCCAAGGACGTGCCTGTCCAGTTAATAGGAGGGCTGGCCAGCACTCTGGGGGTGGTGTATGGCCC
TAATTGAGTCACCGTATGCAAACCAAGGTAAATCACAGGAATATGGGCAGATTGAGCATAATTGGTCATCTGTGTGCTCATCAGATCTCTGGAG
GTGGAAACACTCCAGTTTGCTCAAGGCATTGGGTTGGGGTCTTTACAGATTTTTTCCTTCATTCTATTTGAAACTATTGTATAGAGGATAGTC
AGTATTAATCATCTATCTTTCTATCTATCTATAATTAGTAAGGAGCTAGTCTAACTCACATCATAATAAGGCTTTGTCTGCCTCTTTAAATGGT
GTGTCTCTAGTACCTAGGACAAATGTCCTGCCTTCATTATTCTATCTGAAACCACTGGGCAGTTTATTATCAGTATCTTGTCTCCCTGCTTATC
AATTTTGATCATAATCTTGCTCAGTGTTTCCCAGCTGGGGTGATTTGACTCCCAGAAGACATTTGGCAATATCTGCAGACATTTTTGGTGGTCG
TGTATTGGGTTGGGGAGTGCCGGTGGCATCTAGTAAGTAGAGGCCAGGGATCTACTAAACGTCCTACCATGAACCTGACAGCCTCCCCAACAAA
GACCCAAATGTCAGTTGTGCTGAGATTGAGAAACTCATCTAGCTCCAGTCATGCGTGATCTCGCCCTGATCATGCATAGGTTGTAAAATGTTTC
CCTTGCCCCTTTTATTCTGACATTCTGCCTCCCTACAAACTTATCAAAATGTATGAAAAACTTATTTTAAATTTTATGAAAAACTTATTTTTAA
AACATTGCACAGAATAAAAAATAGAGAACATCACTGAATATTAAAAGTTTTTTTTAAAGGGAAAACAGCAGTGTTCTGTATGCATAGAATTGCA
CCATCCCCCTGGCGCCACTGACCCTGCCTGCTATCCTGGGTCAGGGATGTGCAGTGGCTGGAGGAGTGGCTGCAGGTGGGGGTGGTACACACAG
CAGGGCAGCTTCTCCGAGAAGGCTCCCCACTGTAGCCACCCCCTCATGAATGTCACACAGGTGAGGTCCACGAGGACTGCAGAAACTAGGAAGC
CCTCTGCCAGAGGCTCACTGCTTTTCCCTGAATACTTCAGCAGAGAGTCCATGGAGCCACTGATCTAGGAATGGGAATTGATGTCAGTGGACAG

TGTCCACTCATATTAAAAAAGTGATAAAGAGCCGGGCATGCTGGCTCACACCTGTAATCCCAGCACTTTAGGAGGCCAAGGCAGGAGGATCATC
TGAGGTCAGGAGTTTGAGACCAGCTTGGCCAACGTGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGCCAGGAGTGGTGGCACATACCT
GTAATCCCAGCTGCTCTGAAGGCTGAGGCAGGAAAATTGCTTGAACCAGGGAGGCGGAGGTTGCAGTGAGCCGAGATTATGCCACTGCGCTCCA
GCCTGGGTGACAGAGCAAGACTCCGTCTAAAAAAAAAAAAAAAAAGTGATAAAAGCAAGGTCTTGGTGTGTGTCACTGACAGACAACTCCCAGAC
ACCAAAATGGCTCAGTCTGCATACCCTAAATAAAAATGAAGGCACTACGTGGCAGGAGGGGAGACAGGACCAAGGTTTGTGGGTTTGCCGCCCA
CAGGATGGGCTTGCAGATGCCACCCGCAGACAGATGGCTGGGTTCCTCTGGAGCTTTATCCCACCTGCCCCAGCATGTCAGTTTTGCCATCACC
GGTTTTTACACTGAGATTCAGGGCACGATGATTTGAAAACAAAAATCCGTAGGGAGACTCCCCTAGGTGTTCCCAGTGCATCAAGGTAGAGCCT
GCTGCAGGTTGAGTTTCTGGAATAGGTCAGGCTGTGTCTGCTTTGTTTGTTTGTCCGTTTCCTTGCTTTTGTGCTGCATGGGGACCCTCACGCC
TAATTTTCCTTCTCCGTGTATACATCTGCTTCCTTTAAGCTCCCTACAGTAGAGCAACGCTCCTAGATTCGACAGAGATCACTTGTGTGTCATG
TAATCTGTGACTAGTAAGCATTAACTATCCAAATGGGAGTTCGTGGACGGTGTCTGAGCCAGGGACTGCACAGAGCTCACGAGTTGCTGTAGGT
GTGCTCTAGAGAGAAGGTCACTGGGGAAAAAGCTTGAAAACAGCTGTGGCATGCAAGGGTGTGTGTAGGAACGGAGACCCAAGCACTGTGGAAA
GGAAGATGTGCTCAGGAGCCCCGAGGAAGTGGGCTCACAGGAATTTTCCAAAATCAAGAGATCCAGCCTTTAACTAGAAAGCTCCAGGTGGTAT
CATGAGTGACATTAGATGATGCCTGATACATGGTCTGTGAATGAATGACTGTTCAGGACTGTTTGTTTTTTTGTTTTTGTTTTTTTTTGAGATG
GAGTCTCGCCCTGTCACCAGGCTGGAATGCAGTGTCGTGATCTCAGCTCACTGCAGCCTCCGCCTCCTGTGTTCAAGCAATCCTCCTGCCTCAG
CCTCCCAAGTAGCTGGGATTACAGGCTTGCACCACCACGCCTGGATAATTTTTGTATTTTTCATAGAGACGGGGTTTCATCACGCTGGCCAGGA
TGGTCTCGATCTCTTGACCTCGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGTGCTGGGCCCAGGACTGT
TTTGATGTTAGGCAGTACAGCCTAGTGGTCAGCACGTGGACTTTACTGGCTTCCCCACTGTGTTTCAACTTGGGTGTTGCTGACATTTAGGGCC
AGTTATTCTTTGCTGTGAGTGGCTTTCCTGTGCATGGTTGAACATTTAACAGCACCCCTGGCCTCTACTCAGGGGCTACTAGCACCCACCCTCC
TGGTTGTGACAACCAGAAATCTCTGAAGCCATTGCGTCATGTCCCCTGGGGGCAAATCGCCCCTGGTTGAGAACCACTGGCTTGGAGCTATCTG
TCCTTGAACAAGCTACTTGACCTGTCTAAGCCTGATTTTGCCCTTGTCTGTGGGAAGACAGAGGGACAATGAGGATTGATTACCTGAGACAAGA
CATAGGTTAGGAGTTGTTACTTTTTGCAGTGACACCAACACCATGGGGCAGACAATGGGGACTCTGTGAGTGCATAGCAAACAACAGCAAACAG
CAACAACAACCAGAGGTCTGCTTTTTTTTGTTTGTCTAAATGGGTGAGCTTCCAAGGAGGAAACACAATCCTTATCCTTATTTCAGGGCCCCATA
CGGTTCTGTGGTCGTGAAAGGGTTATATGCGGCAGGCCCTGAGATTCCTGTTAGCAATAGGAGAAACGAAATTAAATATGTACTGTAATTTGAA
GCACTGCTTTTCATGGGAAAAGAAGTTCTCCCAACTCAGCCTTTCCAACTCTTTTGTCCAAACATTAATGGCATGCAAATATTTATGATTCATA
TGTGCCCCTTTTAATTCCCAATCGTATTTTAACAGTAAACACTTCATTTTAATAATGAAGCAGAATAATCCCTTTGTCCTGTCGCTGGGTTACA
CAGGCTGGCACCTGGCAGCATCACATTCTTCCTGAGTGATCATTGCTGCCTCCACCCAAGTTGAAGGGGTTTTGTAGCAGTGCCACGGCAGCTC
GCCTTGGACTACTTGAGGACTTCCGGATGTTCCGCTGGAAGCCATTCTTAAGGTTGTGTCTCAGCATTTTCATAAACTGCAAGTGAACATCCAT
GCATATTTTTCTCTTTTGGCCACGTATAAACTCAGCACTGGTTCATCTGGCTGTCACTTGGAAGGGTTCTTACTACACTATTATCTTGCATTCT
GGCCAAATCCCTGAACTCTAGATTACACCGAACCCATTGTGTCCTATTTAATATTCCTTTGATTCGTAATGATGACATAGAAAACACACACATC
TATTAGCGATGATTCTGTGAGTCCTAGAAAAGTAGCATAATGTAATATGAGAAGAGGGCACACCTGTAGGACTCAGATGTGCCAGCCTCAGTCT
CCCCATCTGTGTTCAATAGGTTTAAGAGTGCCTTTCATCTATGACTTATATCATCTATGTTAGGATGATAAAAGCGAGATGGTGTGTATGTAAC
TATACTTAGGAAGAAGAGCTAGGGCCCCTCTTGATGATGTTCTTCCTTCTACAGCGAGAATCCCTGAGGGAGGAGGGGAGAGAGCAAGCCAGAG
GCAGCATGGGTCTTGCTGAATTTGAAAAGTTGGGAATGATGCTGTTTTTCAGGGCCCACTCCTCGATGGCAAGGAATTTATATTCCTTGGTCCT
GCTAAGGGCCTACTAAAATGAGAGTGCATGAGATAACAGCAGGCATTCCATAAGTATTCACAAGTAAAAGCCTATGTAATAATAATATAATTAC
AAACTTTTATTGGGCATTGACCCTGTGATGGAAATATAGTACCTATTCCTGTTTTATTAGAACTCTCCCTCTGCCCCACCCCCCAAGGTCATTT
ACTAAGGGCATTTCTTTCATTCATTCATTTATCAGATATACATTGTGCACCTACTGTGTGCCAGGAACTGGGCTAGCATGAGAAATACGACGGT
CAGCCAAAGAGAACCCACAGCCTTGGGGGCTAGTAAGGAACATGGCAATTAAGTAGGCCATCCCTGTTGTGAGTAGATAACACATGATAGATGG
GTGTGGCGGGAGCCAAGGCTCAGAGGTACAGAACCTGGTGAAGGTTCAGAGGGTCTCCCTGGACCACTTGTCATTCACTTGAGACCTGCAGGTG
ACAAGGAGACTAACCCGGTGGAGGCATGAAGAATCATGTCCCAGCAGAGAAAGCAGAGTGAGGAAGGAGCACCTGGCCTGTTGGGAGCTGAGAG
ATGCTCCAGTGGCGGTGGTTGGGGAGTGATGGCGGGGAGCCTTACAGAGAGATAGGGCGGGGATTGCCTTAACATCCACGTTGGGAATTTGGTC
TGATCCTAATGAAATGGAGAACCACTTATAACTAACTCCAGATACAAATTGTGGAAAGATACTTGGCTTACAGTTTAAAGAATGGAAAGGACAT
TTGGAGGGTGCGTGGGGAGCTTAGAGACCCATCCAGAGACTGAAAGCTCTCCTTTCTCCTTTCAAGCAGCGCCAGGCATGTGTATATCCAGCTT
GCAAGGACCCCATTTGGTAGATGGCACTGTACCTAGAAGTCAGCTCCCTCCTCAAGCTTGCCTCAAGCTTCCCTCTCTTCCCTCTCTACCTCCA
CACTCACCTGCCTTTCTTCCTACCTGCAGTGGCAAGTGCTGCAAGGCTGGTGAGCAGGAGCTGACGCCCCCCAAGCCTTCCTTCCCTGAAGAAT
GTCCATGCCTCAGGCCTCCCAGCTGCAGCTCTGTGTGGCCTTGGGCTGTGTGTTTGAGGCACCCGGCTAGGGGCACTATCGGAATCAGGAGGAG
GCCAGGCCCAGGAGGTCACTTTGGTCACTTGCCCTGTGTGACCCCAGCCCAAACACACAGCCTGATGGATGAGTGAAGACTGGTAAATCTGGTG
GCTGTCCTTGGGGGAAGCACAGGGCAGCAGGTGTGGCCTTGGTCTCCAGGGGGCTGCGAATTCAGGGTTTTGGGGTGTTTTGGTTAAAACTTGG
TTCCCCAGCTGAGATCCTAGGGAACTGTGGTATCAAAAGGAAAAGGAAGATTAGAAAGGGAAAATGAAATCTCAGGAAAGGAAATGCAAGATTG
CATGAGAACATCATGGTGTTTTGTGGGATAGGTGATATTCTGCCAAATAAAGAGGCCCGCCCCTCCACTCCTTTTGCAAACCTGAGCTTTTCCC
CTGCCTGCAGTTGAGCCCAGCATACCTGTGCCTTGGAAAAAGCAAGCTATGCCTTCCAAGTGAAATTCGACGTTGTAAAGGACTGGCTGTCAAA
CTGAAAGTTTGCAGAGTGATTCATTGATTTTTAGAGACAGGGTCTTACTCTGTCACCCAGGCTGGAGTGCAGTGGCGTGATCTCGGCTCACTGC
AACCTCCGCCTCCTGGGTTCAAGTGATTCTTGTGCCTCAGCCTCCCAAGTAGCTGGGACTGCAAATGTGTGCCACCATGCCCAGCTAATTTATT
TTATTTTATTTTTTATTTTTATTTTATTTTATTTTATTTTTTATATTTTTGGTAGCAATGGGGTTTCACCAAGCTGCCCAGACTGGTCTTGAAC
TCCTGAGCTCTAGTGATCCTCCCGTCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGTGCCACCATGCCTGGCCTCATTTATCAAACTTTTC
TTTATTGCCTCAGAATAGAAGATACAAAGATGAATAAAATTCTGTCCCTGTCCTCAAACAACTCATTTTCATAGAACATCTCCAGAGAAAATGC
TTTGCATGTCTTCGGTTTTCTCCAAGTAAAACAGCTATTTTTCAAACAATCCATAATTCCAAACAAATGCCATTTCCATGGAAAACTGAGTTCT
ATATTCTAAGGACCTGATTTTCAGTCTGACTTTTGAGGGTAGTCCTGGTGCCAGTAGCTTAGGCCTCAAGTCTGCATTTTGCATGTGTGATGTG
AGTGCGATTGGATCAAGCAATCTGCAAATACAGGCACTTTGCACACAAGTATATACAGTACGCCGACATCTTAATTCAATTCAGCATGGAGAAT
CAGGAAATTATGTGCAAGTTGAAGGATTTGTATCCCGTCCAGAAATCCCCAAATAAATTAATTATACAACTCCACTGTCAAAAATAGTGGCAAA
TGTTTGGGTAAGGAAATGGAAGAGGAGCATAAGCATGAATTTTGGCTGTTAGGTTGTTCCAGTGGAAAAGTGAGAAATCAAAATTAAAAATACT
TCATAAAAAATACTCCAAATGCAGACTACTCCTGGAATCCGAGGGTACGTTAATTTTTATACTTAGTTATCCGCAATTAAAATTAGACCCAAAG
CCATCTATTGTAAAAGGAGAAATCTCCCTGCAACCTTTCAGGATCTTGTGGGATTTCCTGAATTTGCAAAGAGCAGAACCTGAGCCTTCACTGA
CTCTCTTGGTTTTTAAAAGCTGCGATGTTTTTCTTTTATTTTTCCTTTCTCACTCTTTGGGCGTTTCAAGACTCTGGGCACAACTGGCTTTCCT
GCAGACAAACACAAGAGTGAAAAATGTTGCGATTGTGTTTCCTAAGGACTCTGAGCCCCCAGGGCAGACGGCTCCTTTGTGTCTGCAGCCTTCC
TTTGCGTGACAAAGGGCAAGTTTCACATCCCCTGAAACTGTCCCCAAAAGAAGAAGATGACTCATGCTTACAGACCTACACTAAGGAGAGTGAC
AGGAACAGAGTCTGCTGCAGAGCCAACTCAGGTAGACCGGGGATACCTGCAAACTAGACCTGAGGAGGCCGAGTCACAACAGGAGTCGGGGCTC
GCCCGTCAGACACGGGGTGTTATAGGAGGATTCTGCTCTGATGTGGCCTGGATGCACTTTTAAATATGTTCTTCACACCTAGGCAAGAAATGAC
CCCGAGCTGCATGTCTTTTTGCTTTGTAATCTCCTTGCCACCCTCAGCTCTTTGGGGAGCAGTGTGCACATTTGAAGCAATCCTGAGGTTTAGC
CACTTCCCAGATGTGGTGAGGAAGTGGAGAGTGCGCTGGGCCATGCGGAACTGCAGGTTCCAGCCGTGGCTTTATTTGACCACAATTGGCTGTC
AGAGTTCACCAGCCCCAGGGCCGCCAACGTCAAGACTAATCAAGCCTAGACCTGGGGCCTCCCCGCTGACTGGCCCTGGGGAGTGTGTCATGGC
AGCGAGTGTCCAGGAAGACTCACCCCTTGACCTTCTTCCCAACTAAATAAAGCAGTTAGTATTTTGCCCTGGCATTTGGATGGACACACTGGCG
TCGAGGGAGACAACACATGTTGCAGTGAGGAGCACTGGCCTGGCTTGTTTACATAGCATATCAGCCACTCACAGTTGTGCCTTACAAAGGTCGC
CAGCTGGCGGGGCAGGAGTGAACTTGAACTTGAAGTTCAAGTTGCGTTTAGGCCTGGTAGCAGCCCCATCACCTGCTGAACACACACACACACA

CACACACACACACACACACACACACACACACGCACAAAACCCCTCCTCATGTCAGACGTCAGTGCCTACTTCATCCCCAGCTCCTTCTTACGGG
ATCTGTCACAGCTCTGGTCTTTGTGGAATCACCTTTATCATGTCTTTAATGATCATTCCACTGACATTTACTGAGACCTTTCCCTGTGCTCTGC
TTGTATATTCAGCATTCCATTTAACCTGCAGAACAATGCTACGAGATGGAATGACTGTTATTAACCCCCTTTTACAGATGACAAAGCTGAGGCC
CCAGAGAGGTCAAGTAACTTGCCTGAGGTCACACAGCTAGCAAGTGGCAGAGCGAGGTTTTGAACCTAAGTAGGTTGCCTTGAGAGTCCACACT
GAATGAATCACCACTGTGTTTCCACCTTCATGGGATTTTATATGGAATTCTTCTCTCTCACTGCTTCCAAGCCTACATCAAGACAAACCTCATC
TGCCCTGTTGTTTTTTGTTCTCACCTTCTTATTCAGTATGAGTGTCGTTTGGTGCTTCTAATGGTCTTCTAATGGTCCTCCTGGAACCCAAGCC
CTGGCTGGAACTGATGCTGCTGTGGTGGTCAGGGTTCAGTGAGCAGGAGGAAGGACTTGGTGTTTACCCCTTGTTTACCCCTTTCCTTGGCTTC
CTTCCATGCAGGCCACCCTGTGACCCCGTGGTGGCCCCCTCTGGAACCAAGAGCTGCCGACTTCCAGCAGCACACACAGGATCAGTGCTGGGGC
CATCTGTGCACTGACCAAAGCCTCTGCTGGCCTCACCAGACCAAGGCCAGTGAGTGCTTCAGGGAGCCTTGGATCCTCCAGGCTGCCAACAGAA
ACACCGGCCCTCTCGGCAGCAGCCCCATCCTTCCACCCCTGCACTGGGTCCTGAAAAGCCCATTTTGGGGCCGTTGCTATTTAGCCAACCTGCC
CTCCCTTGCTCTCCTGTGATTTCTCACTATTCCGGCTGCAGCTCGCTGGGAGAAACACTTGAGAGTCTTTTGTGCTCCCACACCCATGTACTTAA
AATACCAGGCCTATAGGTCATTTCAATGAGGGAATTTGGCTCATAACACGTGTGCCCCGAGGCACAGATCCTACTTCTGCAGATGCTGGCCAAG
AAGGGCTGTGTCCCAGCCGCCATGGGGTGGGGCCACAGAGAGGGCAGGGCCACGTGGAGGGCAGAGCATGTGGCTCCTGTCAGGTGCGCCCGTT
GCTGACTGCAGCCCAGTATCAAGGCTCTGCTGGGTCTCATTGGAAGAATACAAAGGACGTGTAAGGCAGTTTCGTGCTGTGGAAAAATGTCAC
CTACACCTGTGAAGAAGTCATCACTGTGTCTGTAAGATAATAAGCAAATGTCCTTGTACCCAAAGCTGTAAACAAGAGCCCTTTGTGAGGGAGA
ACCACATGACTGGCCAAAACGCCCCACCTACTAGTGTGTGCTCGGTGGAAATGTCTTGTGACTGTGCTTAAAATGAAGGGCATGATTGGGAGGC
CAAGGTGGGCGGATCACAATGTCAGGAGTTCGAGACCAGCATGGCTGACATAGTGAAACCCCATCTCTACTAAAAATACAAAAAATTAGCTGGG
TGTGGTGGTATGCACATGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCAGAGGTTGCAGTGAGCCGAGAT
CACGCCATTGCACTCCAGCCCAGGAGACAGTGCAAGACTCCATCTCAAAAAAAAAAAAAAAAAAAAAAGATGGGCATGAAATAATGAGAATTCA
GATAATGACCATTCATTTCACAAATTATCACTTTGATTAAGTTTTACTCCTGATTATATAGGTTAGTCTGTGGTTTACCAGACGGGGTGTCATG
AGTGCTCAACTGCCAGAGGCCCAAACGCAGCTCAGTAAGAAAATGCTTTTGAGCTATAACCCAGGTTGAGTACCATTGGTACATTAGAATCACA
GAGTCAGATTTTACTTTTTGGGGCAGTGGTAGGTGTGGATAAAGTATCTCCAGTCCAGATTTCTTGTACTGGTGCTATTGGGTTTGCGGGTGGA
GATTTATGACCTCAGGGATAATAACCGGAAGAACAGTGAGTAGAAAGCTCAGGGATATGAGTTTTGCTGTATATCAAAGCTGTGTGACTTTGGG
AAAATTACTTAACCTTTCTGGGCCTTAGCTTTGCTACCTATTCATCAAGAACAATAAAATCCATCTTGTTTATTTCATGAGATTGGTGTGAGGA
CCAAATGAAATAGTATATGGGAAGGTGTTTAAAAAGTTGTAAGTTCTACACGACTTAAAAATGCCAGTATTATGAATGCAACCATTCTTTGTTG
TCATTTGGGTAGTCGTGGATAGCGTGGTGGTAGGAGAGCCACTATCGGAGCAAGACTGTTCCAGAGGGTAAAACACACGCGTGCCTGTAGAGCA
GTTGTCACTGGTAGAGCCATGATGGGAGCTCTTACTACATTGCTATTTGTACTGAGTTAAATAGTGTTCTCCAAAAAGTGTATGTCCACCTAGA
ACCTTAAAATATGGCTTAAGGTCTTTACAGGTGTAATCGAGATAAAGTCATACTGGACTTGGGTGGGCCATAAGTCCAATGACTGATGTCCTTC
TAAGAAGAGGGAGGGGACACCCAGTAGGAAGACAGTCATGTGAAGATGGAGGCAGAGGCTAGAGTGCTGCAGCTGCAAGTCAGGAAACGCCAAG
AAATGCTGGCCACCATCCGAAGCGAGAAAGAGGCAAGGATCCTCCCTAGAGCCCTCAGGGGGAGTGTGGCCCTGCTGCCACCTTGATTTGGGAC
TTCTGACTTCCAGAATTGTGAAAGTCTTAATTTCTATTGTTGTAAGCCACCCAGTTTGTGATAATTTATTACAGCAGCCCCAGGAAACAAATAC
AGTATTTTTATGAAGTCACTGAGGTGCTAGAGTTGTAGGCAACAGAAGAATCACACGTGGACCTGCCCGCCTGCACATGGCTATGGGCATCTCA
GGCCAGCTGCATTCTTGGAAGATGAAATCAGAGAGTTGAAAGGGACATTGCATGCATCCCATGAACCCCCCTCATTTTGCTGATGAGGAAACTG
AGATCTGGAGAGGTAAAATCGTTTGTATTGCATCCCCAAACTTGTAACTCTCTTGCTGAAAGAACCACCTCAGTCTCTCTCTCTCTCTCTCA
TACACCCACATGCACCCCTAGACCTACTCAGGACTGGGACAATGGCATTATCTATTGTTGTGTCCTCAAGGGACTTTTTTTTTTTAATTTTAA
ATACCCCCTCTCTCCTAAAGCCCCTTCCCACTTGCACCCTTTCCCACCTTTCTGTGAGGGCTACATGGGTATATAGAAAAGGGTCCCCACCTTC
TGGGAGACTAGGTCTACACAGCCGCAAACTGCATTCAGTATGACACCCTAAATAATCAAAGGTGAAGGATGATTTATGAGGCAGCCCAAACAGC
CATAAAGCAAAATGTAGTCATCAAGGAAGGCTGCCTGGAAAACAAGTGACTGAGTGACTGCCCGTTGCCAGATGCTGAAGGGCAGGAAGACTCG
GGTGAAGGGTGCAGCAAGGAGCCTTGGATTGGCGAAGTGGCTGGAGGAAGGAAGACCTCAGCATCTCAATGCCATGGCTCATGGGTAGAACTCG
GAGGGTGCACACTGGGAGTCAGGTATGCGGAGGAGAGGGGGTGAGTGAGAAATTACTTGGGGCAGGGTCTTATTAGTGAGAAGATCCTAAAAGC
AGGTTCTGGAGTTCAGTCTTGATGATACAGGTGATAACCTTCATGGGTTCTTGACAGAGAGGGAACAGGCTGACCATGAGGCTTGTAGGACAAT
CTGTTAGTCAGCTCTGGAACATGTGGATGTGGCTGCTCCCCGTCTGTGGCTGTCATTGCTCCCTGGATCTGTTCTTGGAAAGCCAGAGACTGCCC
AGTGAGATGGGCAGTTGCCCCCAGGACCTGCCTCCCTCTGCGGCAGCATCTTCCTCCACATCACATCACATACCCTGCTTGCTGGGCCTGGCCA
AGGCCTCTTCTACCCAGTCCTCTCCTTCAGCTAGATGCCACGGTAGGAAAGCATCCAGAGTGTCGCCTGATAACATCTGAACGATGTCCTAAAA
CTGGCAAATCCCCAAAGGCCAACAAGACTCGTCTCTAGGTTCTGGGGACAGGCCAGTTGATGGGAAAGATGGATTTGGAGGCAGAGTCTCCTGG
CATCCCTGATGCTCTGCTCCATGGAAGTCACTCCCCAGAAGCATCCTCACCTCGTTTATTGGACAGGTCAGCTGAGACTTTAGTTATAAAGGCA
CAATGGGCAGAGCAGCCTTCATCATCTAATTGTTACTTGCTATTGCTCTTTTTATTATAGACTTTAATACAGATAGAATCCACATCTTTGGGGA
GTGTTCGGTGGAGATTTCTCACGATTAGGAATCGTGGCTTGCTGTGGCCAAAGATTATATTTTCATTGAGCATTTTTCTGTGGCCTTCCTTTGT
ATTAAGACACGCATGACATTTGTTTTTCTGTGGCCTTCCTTTGTATTAAGACATGTGTGACAATTGAAAATATTTTCCTTTCATCTGTCTTTGA
TTTACTTTATGCTACATGATTAAGAGGAGAAACTATGTTGATTAAAGAACTACTGTATTGATGTAGGAAGATTGAACATCAGACTTAATCAAAT
GTTAGGGTCCTATTATAGACCCGTGAGAAACAGAGAAGAGAAATAAAGCAGACAACATACACACACACACACACACACACGCACAGACACAC
CCTGTTGAATACCGTGTGCCAGATAACTGTTTTAACAGGGTTACTCACGGTAAATCATTTAATCTCCCCTAAAACTCTCTAAGGTAGGAAAATT
TGCATGTAACCATCTTCCTGGTAAGGATACTGAGGAACATAGAGGTGTCTAGTGACTTGCCAAAGGTCAGCTGAGCCAGATTTATCTTCTGAATC
ACTTTACCAACAAGAAATGTTTTTAGATTAGTAAATCTATGCAATGAAGATTTTCTCACCTTTTATAAATATATGTAAAATGTGTAATGGAAAT
TTTGTGCATTTTTTATTACTAGTACTTATTGAATCTCAGTCTGTCAGTTACATATACTTAAGTCCATTTATGAGTCATCAATTTTATTCTGACT
GATCCCATGAGTACCTCTAATAACATCTGGCATTTTCAAATAATATTTAAAATCAGCCAGACTTCGTCTTTTAAAAATATAGACAGAATGATTC
TAATTTAGCCTGTTTTCAAACTTAGAAATTCTATCTTTCCTGATCTTCAAAGGTACAAAGTAAGAAGAGAAAGATGGATATGGTTTCTTCTACT
CTTATTTGCCCTGAATTATAAATAATTGGGAAAGATGGGAGCAGGGAAGTTGGGAACCAGAAGTGGAGAGCTGCCAATCTGACTCTATGGTTTC
CGGAAATCCTGACTTAACAGAAAATAAATTCTAATCTTTCTTGATCTTGTATTGTTTATTGATGATTACATTAAAGCCATATAACTATGTGAAG
TGTTACACTTAGGCAACTATCATAGGTGTGTATTCCAGAATTGAAGCAAAGCCAAAATTCCGGGAGTGTTGTCAAAACTGGTAACTTGTGCTGA
AGGGCTGGACAGCATAAATTAATGATTGGTTATTCAACAGATATGTTCAGGCCACCAACCTCATTCTGTTTTGTTCTCTATCGTGTCCCCACAG
GGAAAAGCTTCACTCTGACCATCACTGTCTTCACAAACCCACCGCAAGTCGCCACCTACCACAGAGCCATCAAAATCACAGTGGATGGGCCCCG
AGAACCTCGAAGTAAGTGCATCCACTTGGGGCTGGTACACCCTCCAGGCTGGTACACCCTCCAGGCTGGTATACTCAGGGACCATGTCTCAGAT
TCCTTGGGTTCAACCTTTCCCCCAGGGGGATGTCAGGCCCCCGTAAAGCCAAAAAGTTGCATTGTCAATACTCTCGCTACTCAAAGCTTGTTTC
TGTGCACTGAGCTCTTTTTGAAGCATCCTTTTAGAGGGCAAAAGGAAATTAGGCTGACTGAATCATATGTTAGAACCATTCAGGGCAGCATGAA
ACTAAGGACTGCTTCCTCAATATACAGTAAAGTTCAACAGGATCAGAAACAAATAGTAAATGGAAGATTGGCCAGGCACAGAGGCAGCCCAAAG
AGGTCTGAGGGTCAGAGTGGACCACAAGGGAGTAATTACCGTCTATGCTGGCCTTTTATTAATTCATGAGGGCCAGAGATGAAAACTATGAAAA
TGACCCTTTTCTTTCTATGGCACAGATCAAAATCTTATTACAGGCATTTTTAAGATAGAGAGTGGGAGGGTAGAAGAATGTCTGGGGAAAACCA
GTAAATATAGAAAGATAGTACCAAAAAATAACTCCTGTGAGGGAAGCTTTTAAAAAAATGAGTGAGGTTGTTTAGTCTGCAGAAAAGATGTCTT
CACAGTGACTTAATGACTATCTTTGAGTAAACACCAGAGTAACGCTCTTTTCCAGAACCACACCCTTCCCCAGGATCTGAGGCTGGGTTACAGT
TCCAGGTCTGTGGAACTGCCCAGCACCCCCGCCCAGCATCCAGATGTCTCCAAACCGTATCAGGTCCCTGGTGGAAAATTAATATACTCTCTTC
TTGGAGTGAGGGATATTGAAAAACAGGGCTTCCTACTGTCCCCAAAAGCCAAGATGCAGGGAGGTCAGGTTGTAAAATGAAGTGGTTAAGAATT
TGGGCTTTATGGGCAAGCCAGTGGAATTCTTAAGCCTTCAGTGAGCTACAGAGCCTTGCTGAACCTCACTTTCCTCTTCTGTAAAATGGGGATA

ATAATGAGAGCTTCTTTATAAGATCAAGCCAAATGATGCTGTGTGCCTGATGCAGAGAATGAAGGCAGGAAATGTTAGTGATCCCCAGTAGGGC
ATCCCTGCTTTCATCCCTGGCTACTGCTCCAGTCCCCTCTAGATGACCTTCCCTGCATGGTGGTTTCTAGGTGGGGTTTTAAGGTAGTTCTCTG
CAGGCTATCCTGTGATCACGGCAGCTTTTATGGCAGCCTTCCCTGTGGTCCTGGCCACAACCTCATGGCATCTGGGTCACCTTCTGGAACCATT
CCCCAAGCTGCATCAACTTTCCCAAAGTCCTTGAGTGGATGGAGCTCTGCAAATAATCACCATGCCCACCAGGGGCAGGCCACCAGGATATGGT
GTTCCTCGTCTGCTTTTTCCCTTCCTTCCATTGCTGTGCTCGGTGACTCCCTCCAGATCTGACTGCATTTTTCCCCAGAGGGCCCTCTCAGCT
TTTTCTGATCGAGACTTTCTGGCCATGCCTAGACTTGGGAGACTGTGGGACTTGATAACAGACCCTGATTCTTCTTTATGAGTGAAAAGCAGGC
CATAGACACAGACAGGACCACACAGGTCTAAGGAATGACTGTGAGCTCTTCTTAGGTTTCCAGAGTAGGAATGTCAACCTGGACATTCCTACGT
TAATGTAACCCTGCATTAAACAGAACATAAACACCAAAGCAAGTTTGTTCTCCACAGAGGACCAAAGAGGAAGCAGGCTTGAATTATGGCAAGG
GGCCTGGCTGGGAGGGAGGCAGTTGTTAGGTATAAGAAAATCGACTTTGAGGGTGACTAAACTTAGAGAAATGCTCCTTCAGGAGGCTGTAGAA
CCACTGTATTTAGAACTAGAAGCAACAGCCGTCTCTGGGACAGTTGAAATGCCGACCAGCCTGAAGAAGCCGAAGCCAGGTGACCCTGGGTATA
CCCTCTACTTCTCTTATTTCCTCATGCATAAAGAAGGCTGGGTTTTGCCTCACTGCCAGCATTTCCTGTAACATTCAAAGAAATAACAAAGTTA
TTGAGCTTCAGAAAACAAATGGTGGCGACTCTGACTTTTAAGAATTGGCAGTCAGAGGGGAAAAAAGATGTCTATGCGATTGTAACGGTCTGGC
TGTATATACAGTTTACTCTGCCCCTGCTGTTTTACAACTTAAGAAAACAGTTGTTATATGGAGAAGCACCCTCTGAGCAGACAGAAGGGATTTG
CGCCAAAGAAGCATCCATTTTTACACAGTCTTCCCTGCCAAATGGAATTTGGGGCCTGGGGAAAAACTAAATGCGTGGAATAAGTATAAGTATG
ATATATAGAGGTGCAATAGCCCCAGGTAGAAAGTCTCACATTTTACAAGGGACTTCTAGAAAAAAGCCAAGTGCATGCAGACTCCCAGGTTGAC
TTGGGTAATGCTGACTTTTCTATTTGCCCTGTGAAGCAAGAGGGGCCATCACTGCTAATTTTAGTATGCTGGTTTCTTATGGTTTGAACGTCTT
CATTCAGGGTGGGAACTTTCTATAGTAAGCTTTGCTCACAGTTGCTTTCCAGTGTAACATAAAGAGAGGACACTGCATGTAAATCAGGATGCCC
AGATGTTGCCAGATCTCTGGATGAATAAGACCTCCCGAGTCCCCTCCATGATTATGGTGCAATGAATTCTGGGAAATCCTGGCAAAATGGCCCT
GGCATTGCCAAGGTCAAATTGAATCATTTTGGAAAATTCTCTAGTTTCATAAAATCAAAGACAATGAGAGCTAGGAGGGGCCTGAGAAGAGCCT
TTAGGATCATCACCCCATAGGTAAGGGAAAATAGCCCCAGAAAAATGAAACGGTTTGCCTAGCTTTAAAAGAGATAGTTGATGATGAAGCGTTA
ACAGAATGAGGAGTTCCTGATGTCTACTTCTGTGCTGTCCTTCATTTATCTACCTGTCCATTCATCTGTTCATCTCTCTATCCATACCATACTG
TCTGTACATCATCTATTTCTTTCTTATAGACTCTTTGACCTGGCCTCGGTATCCTCACATTTAAAATGAGGAGTTGGCTTATATGATTGGCTGG
CATATTTGGCTCATCTCGAAGACTGTCTATTATAGAAGGGCAAATGGTAGTGCCTCATTGCAGGTGTGGAGCCTTTGACTTGAGGTATGCGTGC
AAGCTTAACTAAATAAAGCAGTTATCTGGCATTTGGAGGGACAAACTGCCATTCAACCTGCCATTCCGCTGACTAAGTTAAGGACTGAGAATGA
GAAGCTGTGCCACAGCTCGTCTGTTTTCATGCCGACGGGTAAACTTGATGCATCCCTCCCCTCTTCCAGGGTTTTCAGTGGTGAAGCTGTAGC
CAAAAGTATACGCCAAAGGGAATTTAAAGTGTTTTTCGTTTCAGATGGTTTCTTGCTCTTTTACAGTAATGGACCTGCCCCTTAGAAAATCAAA
ACTTGTTTTTCTCATATTCCATAGGATTTTAAGAAATATCTTAGAGTAATATAGAAATTATTAATTGTTGAAAAATTAACTTTATCATGGAGCA
AGAGCACCATCAAAAGGTATCCTCTGCCTGGAATGGGTTCTTACCAGCACCAAGGTGGGCTCTGTTTTCGGTTAGCACGTAGAGCACTTAGTAG
CTTGTTGATATACTGAGAGTGTCTCCTCCTTAAGCACAAAAGATAGAGCGAAAGGATTTTTCAAGAAAAGGATATTTGAGAGTTTTTTGTTTGT
TTGTTTGTTTGTTTTTGAGACAGAGTCTCACTCTGTTGCCCAGGCTGGGGTGCAGTGGCACAATCTCGGCTCACTGCAACCTCTGCCCCACTCC
CAGGTTCAAGCGATTCTCCCGCCTCAGCCTCTGGAGGAGCTGGGACTACAGATGCCCACAACCACTCCCAGCTAATTTTTGTATTTTTAGTAGA
GACGGGGTTTCACCATGTTGGCCAGCCTGGTCTCGAACTCCTGACCTCAAGTGATCTGCCCACCTTGGCTTCCCAAAGTGCTGGGATTGCAGGC
ATGAGCTACTACGAATGGCTGAGAGTTGTTTTTTTAATGTATGTTTTATATTTCTAGGATCTAATGAAAAACTCCAGCTCTCAGCTCACAAATC
TGTAATTTAGGTGTCTCTATGCTAATATTGAGATCCCAAAGCATCTTCTCTACAGAGATTTCATTAAATAATTTCAATGCAGGAATTGGTTCAA
TGCCATGGAGGAAGATATTTTGCCAAGGAGAGGTTGAGGAGAGTGAGCAGTGGGGACCCTAACTGACCCGTCTTGGGGGGCTGGTCCTGGTGGT
ATGGATTGGGCAGCCTTTACCTGTCTGGTCAGGTGTTTGTTACGTCTGGAACATTGAGAAACTAAATTAAAAATCAAAAAGGTTAATTAACGTA
TTGGCCATTTCTGAGATAACTTCTGTCTGTCCCCAGGTTAAAGGAGTCTTTCACGTGACTGTGTTCTGCTTGAGCTCTTGATTTTTTTGTTTGT
TTGTTTAATTAAATATAGTTATTTCTATTTTAAAAGTGAAAGAGCTGGCTGTAATTTTGGAAAGGTGTAACCCAGCAGATGCCGGGAAGTACAA
ACCTGGAGGGAAGGACAGGCCTCTGCAGCTGCCCCCCTCCTCACAGGCAAGGATGACCATGTCTAGAGCTCACGGGATTCCTTTTGGGTGGAGG
CAGCGTTGCCTCTGCTCTCTGGGCAGCCCGTCCTTGAGGACCAGGCTGTTAACGTAGAGTCTTGTGATGTGGTCTGTTTAAGGGTGGGGCTTCT
AGCATCCATACATCAGGTGACATCTGGGATACTGGCTTAGAGGGCAGCTAGGGAGTAAGGTAAAATGTGCAGCTTTCTTTTTTCTTTTTTTTTT
TCTTTTTTTTTTGAGGTGAAATCTCACTCTGTTGCCCATGCTGGAGTGCAGTGGTGCGATCTTGGCTCACTGCAACCTCCGCCTTCCAGGTTCT
AGCGAGTCTCCTGCCTCAGCCTCCTGAGTAGTTGGGATTATAGGCATCCACCACCATGCCCGGCTAATTTTTTAATTTTTTTCATAGAGATGGT
AAGGTGGAGCCATTACTTACAAACTGTAGAGTGCTTCCTGAGGCACTAGCTTTCTTTCTGTCTGATTTTTGTTTTTAGAGGGAGTTATAGTTAA
AATAGGTTGATCAAAGGGCCTAATCTTCACTCAGCTACTTTTTAAAGTACTTGGTTGAGATCATGTCATATGAGTATAATTCTTCTATGACTTT
GAGTGTGTATAGCAAACCTATTATATATGTGAACATGAGAAATAGGATCTTTATATATGGAGAATGTGCTTCAAGTGAAGAAGAGAAATGCATG
AAAAGTACCTATGGGCCAGGCGCAGTGGCTCCCGCCTGTAATCCCAGCACTTTGGGAGGCCAATGCGGGCGGCTCACTTGAGGTCAGGAGTTGG
AGACCAGCCTGGCCAACACAGGAAAACCCCATCTCTACCAGAAAATACAAAAATCGGCCTGGTGTGGTGGTACACGCCTGTAGTCCCAGCTCCT
CAGGAGGCTGAGGCAGGAGAATCGGTTGAACCCAGGAGGCGGAAGTTGCAGTGAGCCGAGATGGTGCCACTGTACTCCAGCCTGGGTGACAGAG
TGAGACCTTGTCTCAAAAAAAAAAAAAAATGAAGGAAGGAAGGGAAGGAAGGGAAGGAACCAACCTGTAAACTGGTGGTGATAATGGACCTAAA
AATAATTGCTCTTAGGATTGAGTAACACCTAGTTCACATTGTTATTTTCTCTTAATCATAAAAATACTCGATAATAGCAATAGCTAACATTAAA
TAGTGTTATTTGCCCAACACTGTTCACAGTGCTTCACGCATATTAATTTATATAATCTTCAAAAGAACAGGCAGGGAAATTGAAGAAAAAATAA
ATCGTATACCTTGCCCAAAGTCACGCAACTAGTAAGCCAGCATGTAAACTAAGGCGTCCAGATGCTGGCACGCACCGATGCCAGGGTCTGTTTT
TAAGAACTGCACTGGCCGCTTTTTGAGCTTCATGGTAATGTAATTCCTGTATTTTTTATTGGGAGAGTTTATCAGTAAAGTTCTGGGTCACATA
CAGTTTTCTTCAAGAAAGCAGAGCCCTGTTGCTTTGGCATTCATCATTTTTTTTGTACTGACAGGAGGGAATCAGTGTTTTCCCCGGCAGGGCT
GCAGGAAGTACCCTCCCCTCCCACACCTCCCCAGAGTTCATAATACACAGCCATGGCCATGCTGGTCACAGGTGCCAGCAGTTGGTTCTGCTTC
TGTCACCAGGGTCCACTTGGGGACCTGGCATGAAGGGGGACCTGACCCCGGGGTGTTGTACAACATAGACCTCTTCTTCCGGTGTTGGCCTTCA
CGAAAGATGGGTAAAGTGGAGTGACCTGCAGAGTAGTGGTCCAAGTCTGGGTCCCCCTTTAACAAAGGGTTTCGTGGAGGGCCCGTGTGCACAG
CACGTAGCCGCCGGGGGGATGAAAAGATGTGTCACTCTTTGCTCTTGAATGATTATGAAAATGTCAGATGGTTTTATGGATCTGTGATCTCAGG
ATTGTAATTACCAATCCACAATCGCATTGCTCACTGGGAATTGCTTCAAGCGTATTTTCCAGGTAGTGAATGATGAGCTACTTAATTCCTCTTC
CCTTGAATTCATCAGATTTGGACTTGGACTTTAGTTCTTTCTAGATGCAATCCTGATCCACACAGGAATTAGAAAGTAATTCTTCCTCCCCTCC
CACCTAAAGCAGGAGCAAGGCAGAGGCTCAAAGAGGAGGAAAATGCTGTCGTGACTCACATCCCCTCCTCCCCACTTTGAAAGGCATTTCAGGC
CAAGCTGAAAGTTCTGGGGGAACTTCCCCCTGGTACTTTAATTCCTTCTGTGTTAAGCTCCTCAACTACCTGATGACTTGGCAAAGGCAGTTT
TTAAAGCATTAATAATAATCGTGCCTAAATGTTTCCAGCGAATTTTAGAATGTCTTTCTGTTGAATATTTTTAGTAGTATCAAACCAGTCCAAG
AAGAAGAATTTTACATGCATACAGACTTCCTTGACCCTAGAGTGGAGGTTAAGGTCTGAAAGGGCCCCTGGGGTGAATGGGAACCTAAGAGGAC
CGTGAAGGGAATGGGCTTCTGTCCCAGAAGCGGCAGTAACCCACCTGGTGCAGCTCTGAGTGAGCTGGCGTGGCCTGTGTATTCTTGGTAACTT
TTCCTGTCTTATACAGAAACCACTGAGGTTTTTTGTGTGTGGTTGTTTTGTTTTGTTTTGTTTTTGTTTTTGAGACAGAGTCTTGC
TCTTTCGCCCAGGCTGGAGTGCAGTGGCGCCATCTCAGCTCACTGCAACCTCCACCTCCTGGGTTCAAGCAATTTTCCTGCCTCAGCCTCCCGA
GTAGCTGGGACTACAGGTGTGTGCCACCACGCCCGGCTAATTTTTTGTATTTTTAGTAGAGATGGGGTTTCACTGTGTTAGCCAGGATGGTCTC
CATCTCCTGACCTCAGCTGATCCACCCGCCTTGGCCTCCCAAAGTGCTGGGATTAAAGGCATGAGCCACTGTGCTTGGCCACCACTGAGATTTT
CTAAGATGGCATTTGTATTGCTATAGAAAGAAAACAAAATAAGAGTTCCTTCCAGGTAATGTGAAAACCCAAAGAGATGATCTAGGCACCTTCT
CAATCCAATGTGGGAGCAGAGAAGAGGGAAGAAACTTACACCATTACATTGAATTTCTCTTTCCGTCTGGACCCTCGCAAAACCATATCACTAA
TTTGAATGCCACACCAGTGAGGTCAGGATCTAAACTAATATATTGCAGTCCTTGTTAGAATTCATTGTATGACATGCCATAAGAAAAAAAAAC

SAGRES DISCOVERY 02-18

CCTGTCTGCATTTAGGCTTCTGTTTCTTAAGCTTCAAACATGTAAAAAGTTTTCTGGATCCTGAATTTAGGGACCTGGGTTTTCACACTGGTGC
CACCAGGCCAGTGGGTGTGAACTTGAGCAATTATCTTAAATACTTTCGTCTTCATTTTCCTCTCCTGTTGAACCAGGCAATGGGACGAGATAAT
CTCTAAATTAGTTCTCATGCAAAAAGGGTAACAAAATATGGTCAGCAAAATAAAGCCGTAAGTTCGTTCCCGTAAACTGGCCCCTTAGAGGCCG
AGGCCTCCAGGCCTTCCCTGGGCAGTGCCATCCTAAATCACATCAGGCAAATCCACATGCACTCAGGTGGTACATGAGATAGACGTCGTTTTTT
TGCTGTAAAGTTTTTAAAGGGCTTTCTAATTTGTTCTGAAATTCTCTGGCTGTAAGTGGCTGCCCTGCCTTCTCTGCCACCAACATGTAATCAA
GACTAGGGGTTGAGGTCTCCATTTTGGCACTTGCTAACACTATGAGAGCCGATTCCTGGGGGAGCAGCTGGTCTGACTGAGCCTCTCCAAAACG
GGGACAGTTGGTAGTACCACCGTCACATCACTGGAAGGCTGAATGCAGCAGCCTCTGTGGCTTAGAACCATGCCTGGCACACAATACATACTCA
AAAGAGGACAGGTATAATTCAGATTTAGTCTTGAAATCCTTCTGGAAATGAGAAAACTTTAACCAAAAAAGATCTGTGGCTCCTAAATTTAAAA
ATTCATGAAGTTGCCATAATGGTACACTTTTTTTTTTACATTTAATTAAACATTTATAAATTTTGATTTATTTTTCTGGATTTCGTTTTGTGTT
GAGACCCAGTAAAATTTCTTTTCTAGTATAGCATGGGCCCTGGAAACACTCTGGGCACTGTTCCTAAGTCACTAACGGGTGAAATGGCCTTGCC
CCCAAATGTTGCACTTTGTGAAAAAGTCAGAAAGAAAAGTCACGTGTGGGTGACATCAAACATCAGTGCTTAAGATCTAACACATGGGTCCTGT
TCAGTAGAGGCATGACACAGCTGCAGAAGTCTCCACACTGTCCTAGAAACGTGACGTGTAATGTAGCAGGTGTCTTGGGGTCGGAATTCTTGTA
CTAGGCAAATGCAGTGTGTCTCCCAAGCGTGCCTGGGATCTCTCCCCGCAGCCAAGCTTTGCAAGCACATAAACATGGCCGGCCACCCACTGAG
TTTCCTAAATCAGTGACCAGCACTGGAGACCCTTCCATGTGTGCAAGGCAGCTCCGCCTGCTGCCTGTGTCCTTTGGGGGTCTGATGGGGCAGC
CCCAGTCTGAGATGGTCAGGCCTTGTCATTGGGTGCACGTCTCCCATGGGGATGGATGGACCCACAGCTTTCAGATGGATTGCGGTTGGCAGTC
ACAGCATCCCAGCACATTAAAATACATCAACTCCTGTGCTTTCAGGTAGATTTAGAATTTTTCTCATACCCTAGCCACTTTCCATTTTTCATTT
TGAAAAATTTCTCCTTGAGTTTTCTCAAAGGCTTCAGTTTTTTTTGTTGTTGTTGTTTTTTCCTGTAAGCCATGTAACTAGGAAAGGCATTAGT
AAGAATTTGATACACTGGGTCTCATGGAACTCCACTACTACCACCAAAATAATAATAGTAATAATAATAATTCCAGTTTAGCTTAAAT
AAGTAAAAGCTACCCCCTTACACCATATCTGCATTTAAATTCATTTGAGCTGATAGGCAATTTCTGTGTTCTCCTGTTCATCGCATATTCTTTT
CCTTTAAAGGCAACTTTTAGAGAAGGTTTGCTTTTTTTTTGCTATCAAAGTATTAATTATGAAAAGTTGGCAATACAGAAAGGGTAAATTAGGTA
TAATCTATTACCGTACATTATGGCTATATTATCAGACATATCACAAGCCAGTGACATTTAGTTGGATGTGAAATTCCTTTTTTATAGTATGATT
GACACATGGTATATTTTCATCAACTTCTATGTGTAAATTATGCCGTGTCACTGGTAAAATTTGCTGTCATGAATAGCCAAATATTCTGGATTCA
CATTCATAGGTGAAAGCCAAGCTAATATATATATATATATAATATATATTATATATATACTATATATTATAATATATAGTATATATATAATATATA
TACTATATAATATATTATATATAGTATAATATATTATATATACTATGTATATAGTATATATAATATATTATATATACTATATATAATATATATA
GTATATATAATATATATATAATATATATTTATATATAATATATTATATATATATATATATGTACCCAAAGCAAAG
TTCTTTTCTGTTTGCCTTTTCAAAAAGTAACACAATGGAATCAATCTGCCAACTCTCAAGACCCCTAGAAAGTTATTTAAAGGCAGTACATTGG
TTTGGTACTTTCATGATATACATATACTTAGTTTCCATTAAAGCAATTATTGACAAAAACCCAGACTGCTATTGAAATCTTTCAGTGTACTTCC
ATATACTGAAATGTCGAACATTTGATACTTGTTTGATTTTGTATTTGTTTTTGTTCACCATGGCTTAAAAGTCATATTCTGATTATTTAAAATA
AAGAGTAAACATTTGAAATAAGTTCCTAGATACTACATAGATTTATGGCCCTTTGAATATTTTCCTGGTACCACCTTATTTTCACTTACCTTTG
AAGTGGTTGTATGATATTTCCAGTTCATTCATTTGAAAGAGCTAGGAGAAATATGCGGAGCCACGTCCCACGCGCCTCTCGGACACTACTCGCC
AGGCATAGCCCAGTGTTTCAAAAGTGAACCAGGGGGCTGGGCGCGGTAGCTCACGCCTGTAATCCCAGCACTTTGGAAGCCCGAGGTGGGCCGA
TTACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCCGGGCATGGTGGCAGG
CGCCTATAATCCCAGCTACTCGGGATGCTGAGGCAGGAGAATCACTTGAACTCGAGAGGCAGAGGTTGCTGTGAGCCGAGATTGCTCCACTGCA
CTCCAGCCTGGGTGACAGAGTGAGACTCTGTCTCAAAAAATAAAGTGAACCAGGGTGCTCAGGTAGCCTCGGTGAGCGAGAAAGGAGTTTGGAG
CTTCAAGTCTAAAACTGCGTTTCACAGTTTTCCCATCTGTAGAATGGACTGCATGATACCTCTCTTGCTAGGGGATGTGAGGATTAAAAGAGAT
AGCCTGAAAGGCGAGCTGGAGCAGTGGCTGATGGCGAAGCTCCAGAGCTGGCTTCCTGATTCAGCCTGGCCTCCCCTTCGGGATCAGATTAACC
TCCCCACCCTCAGCCTCCTTGGGTATAAAACCAGGAGTATGATATCCCTCTGTTGGGGATTATTGTGCCGGATTGAATAAAATAATTCATGTTAG
GGCATAGCACCGTGCTGGGCACAGAAGTGTTCCTTAAATATTAGCTGCTATTATTAAAGCACATGCTCTAGACGGGTAGGCCCCTTGACCATGT
CCCAAAGACCTTATGAGAGGAAACAAATGGAATTCTGTTCAAGTGGGGGCCAAATATTTACCATTGCCAAGTACTTAAAAAAAAAGAAGAAAAA
AAAAAGCTTGGCAGATTTGGCCCTCACAATACAGTACAATAAGGGCTTTTTCTCTTTTCCTTCCATACTACCTATTATTAATTCCAATTACTGC
ATCACTGAACTGGCTTCAACAAATGTATTCCTCATTGAAACATAACCCTGTCAACCATGTTGCCCTACTTCCTTGAGGGAGAGGTGATCTTTTT
CCAATTAAAGGTTTTATCAAAATGCAGTTCTGCTTCTTAACATGAAGCACCTATGCTGTTGTGTGACCTGCAAAGCTCTGAGCATCTAGAAGCT
TCCCCTGGGTCATCTATAAGATGGGAATAATACTATGAGTTCTGCCTACTGCACAGGGTTCTTGAGGACACATTGAGATAATATATATCAATGT
GCTTTTTAAGTAGTCTGTCAATTAGATAATATAAATATAATTAGATAATTAAAAAATAGAAAATCTATTATTGTTTTGCATGTACTATATTAAA
ATCTTAGGGATTTTAAATAAAATTAATTGATTTATTGAAAGTAGATATTATCTCGTCGTGTCTTTCAGGATTGGTGAGAAGAAATTAAAGAGAA
AAAATTTAAACATTTAAATCAGACCCCACTGTGAATCCATACTTTTAGAAATTTTACCTTTTTCCATTCACATATCTTAATGTTTTCTCTACCT
ACAACTAGATACCCTTTTTAAATGTTGGAAACAAAAGAAGTAACCTTGGCAAATAGTTGAGAACTGAGTTTTATATGAATATACTTTTCTCTTG
CAAGACCAAATACAGTTTTTCTTCTAAAACTCTGTTATTCCATTTTCTTTCAATGAAATGCTCACAGAACCAGAAGGCTTGGGAAGAGGCTCAG
AGCACCTAAGAGTTGCTGAGTCCGTATTCCTTTTTTTCCCCCTGTGGCTTTTTATATATGCTGCTCGCCTGAGATTTCTGGATTTGATTTCAGGGA
GGTGAAATGTTACACCCCTGAGTCTCAGTGCCAGTTTCCCAGGACGAGTCAAAAACTGCAGCTGCTTGGAGGTGAGAATCTTCCAAGGCTCCAG
AGGCCAGCTCGCTGTCCTGTTCATTTGCTGACATGCTGCCGGGAGCAGCTTCAGAGAAACCCGTTCTATTCTTCGGGTGATTCAGCCAGTCTCA
AAATAAATAGGTAGCTGAGTGCAGGGAGAAAGAACTGGAAACCACTGAAATTTGAGTCTTGAGGGCTGGTCTGTTCTCGGGAGCTGCTCTGTTG
AACTCTAAAAGGAATCTTGAGCCCTGGGCGAGGGAGTGGCCTGACCTGGTGGAAAGACTGCGGGCCTGCCCGTGGAGTCTATGTCTGGCCCTGC
TAGCTCAGTCAATCTCAGCAGCTCATGTCTCCTCTTAGACCCTCAGATTCCTCATCTACAGAAGGAGAAAGAAGAGGAGATTGAATGATTTTTA
AGGTCTTTATCAGCTTCTAAAAGTTTGATTTGATGGTTGTAGGAGCAATTGTTCTTTCAAAGCACCATCTTCTAACCTCAGGAAGGAAAGCCCA
GGGGCCCCTGGGATGTCCTGCCAAACTGGGAAGACAAAGATTGTGACTGAGAAGGTGGGGGCAGGGCAGGAGAAGGGGGAAGAAGGGAGAATGG
ATCAACCCCAGGCCGGGGAAAGAGATGAATGAAGGTCCACGCCAGAGTGACATGCTCTAAGTAGGGGAAATCTTCCTAACTAGAGTTCCCATGA
CTTTGGCAACATTTGAAAAAAAAAAAAAAAAAAAAAAGACATCCTTAAACCCACAAAGTACTCAATTGTCCAAGCCCCATTATGGCCAACTTCCC
AAAGCTGGCTGGTCAGAGACCTTGGTGTTAATTCCTCAGCCAACTAAAAAAAGATGGTGTAAGTTCTGTTGACTTAATTGTTGGAGTGTTTCTG
AGTGGGGCCGCCTCCCTCCTCTGCCTCCTCACAGTATTATGGGCTATTCTGCATTACCTGCCCTACCTATCTTCATAATCTAGCCGCAAACAGC
TTTGGTTGACCACACCACTTCCCTATTGAAAGTTAATACTGTTTGACTCATTCTGTGTTACTAACCTGAAGCCAAAGAAAACAAGGCAGAGAAT
AACTGGCTTGTGTGGAGTTTGGAAAGCTCTTGGAGGCCCTGCTTTCAAAATCCTATACAGTAGCTTTACTATATCTCTCCGCTGCAGCTGCTGA
GAAAATGAAGGAAGCAGAAGTGGTTAAAAAAAAAAGTTGGGGGTGGGGAAGAGACTGGGAAGGGAGTGGGGCGGGGTCCCCCTCCGGCTGGGAA
AAGACAGGGTAATCTGCGGCAGTTTATGAGGGCTGTCTCCCTGAGCTGAGGTCTTGCTTTCACACACCAGAGTGTTCACACAGAAGAGGGACTG
TTGAAGGAGTTAAAAGGAGAGGAAAGTTCAAAACAGTTGTTGAAAAGGCAGCTCTCCTATTGCCTGCGTAACACAGAGGAGCTGGGAGGCTGGT
CTCACCAGGCCAGGCAGCCATAGGCAGAGACTCAAGGTAGACAGGCCAGGGGGAAGTTGTGTACCTTTCGAATCGGGAAAGGATTGAGGAGGGG
GAATGTTGCCGGACAGAAGGCTGTCCTGGGCGTCCATCCTTGCCCTCCATCCCTGTCTCCATCCCTGGCAAGGATGGAACCTTCCCTTCCTTCA
TTTCCTAACTGGCTCAAATGTGGTCACCAAGGTGAATAGGAGGCACTAGTGTCTTGGAATAAACAGAACTTTCCCTCCCAATGTTACCTGGCAG
ACAGTGGGACCAGCATCTTCATCACCATGCTGTGCTCTGTGGGAGTCTAGGCAAACAGCCACTTGCCCATTCAGGTAACTTTAGAAGAGGTCTC
CCTCCTCACAGATGCCCTTCTCAGCAGGTGGCTGCTTCTGGCACGTGGACAACAGTGCATAGAAGTGAGCCTGATGCCTGAATGAGGCTGTCAT
GACACAAACAACCGGAAGCCTTATTTGTGAGGGAGGGTCAACGTTCTGTTCAAAACAACTTGCTGCGGTTGGCTTTTGTACTAGTGAGTACTCA
GGAGCTGTGAGTGGCCAGGGTACCCTGTCCTTCTGTACCAGCCAGGACCTGCTCAGCCATCTGTCCAAGGGCTTTGCAAGGCCAGCCTAGAACC
TCAGTTGGCGTCTGTGACAGGAGAGAGCGTCAGAGTCAGATGCTGTTCCCCTGCTGTTGGGAAAGTCCCCGAGGCCCAGGGGGCAGGGCTTTTA

GAAATAGGAGGGAATTTCCTTCCCTCTTTTTAGAAGTACAGAGGAGGAGAGATCATCCTCCACACTGCTGGATGAGCATTCCAGAATAAATCTA
GTCCAGGAAAGGGGCTCACTCATTCATTCATTCACTCACTCATTCATTTATTTGTCCAGCATTTATGGAGGCATCACCCAACCTTGGAAG
GGCCCTGCCTTTACCTCGGTCCTGTCCAAACATGCTCAGTGTCTCTGCCCATTATGTATGAGATCTGCTGCTGCTGCGGGAGGGGAACTGAGATTCC
TGCAGGGAGGTTAGGAGGCCAGTGTGGAGAGCCTCAGTGCTGGTAACATGCTCACGCAAGCAGTGTGTGTGCGCCTCCTGGATCTTCTTCTCCT
GGCCCCCAGGTCTTGCCTGTCTACCCCAGGACTAGCCCTGCTGATGCCTGAACTCCAAAGCCATGTCAGAAGCTCCAGGCAGCGTTCTGTGAGT
CAGTGCTCATATCTCCATAGTGCGCCACCCGCCACCAATACTTTCTTTCTCTTCTGCAAGTCGCCTTCTCTTTAGAGTCTGTCCCTGGGCAGGA
GCTACTCTGATCAACAAATCCATGTCACTGGTGGTTACCACTCTCTGGTTACTTTTCAGTTACGCTGTAACTGGGGGTTTCCTTGAGATAAGAC
CTTAACCTAGGGAGGGTTGCTAATATTTGGGATTATAGGCTGGTAGAAGAAGAAAAACCTTGAATTTGGGAGCTGTCTGCACCCTTCTTAAGAA
ACTGCCTCCACTTCCCCCACAGAGGGCTACCTCTGGTCAAGAGCAAAAGCCAGCAGGTGGCTTCTCTGCCCTGAGCTCAAGTTACCTCCTTAGT
CACCAGACAGAAATGGACAGTGAGCCCTGGCGACCGGGGATGGCAGATTTAGATTTTGAGTGCTCTGCTTTTAGGAGAGGCCCGAGTCTCATGT
GAGTGGGCGAAAAACTCCACTGCTCGTGGCAATGAGCCCTGGACTCAGGGAGCAGAGTTTTGTTTGGGTTTTTGTCCCGTGAGTCTTGGGCGCA
TGGTGCAGGGGGGCTGGGGAGGGGCAGGCCTGTGTGCGTCTCTGGCTTGAAGTTGTATTGGTTGTTGATCTTGCCTTGGCGTTGGCCAGCCTTT
CCTGTCCATTGACTGTTGCTTGCTACACTTGTCTTGGCCCATGTCCTGAGGGCGATCACAGAACGGTGTGTGTGTGTGAGTGGATGTATGGATG
TGTGATGGATGTATATGTATGTATGTGTATATGTGTGTATGTCAGTATGTGTGTATGTTTGTATATATGTGTCCCCATGTCTGTATATCTGCCT
GTGTGTATATGCATGTGTGTCCCTGTGTGATATATGTATATGTGTGTGTGCGTCTGTATATATGTGTCTGTCCTGGTTTGTGTCTGTATGTGTA
TGTGTGTCTGTGCATGTCTTAATATATGTGTCTGTGTGACGTATGTACATGTGTCTGTGTGTATTTATATGTGTGTATCCCCATGTGTGTTTTA
TATCTGTGTGTGTGTCCAGGTGTCTGTGTATGTGTGTGTCTGTATGTGTTTACATGCATGCCTGTGTTTGTGTGTATATGTCCATGTGTGTCTG
TATGTGTGTTTATACATGTGTGTCCATGTGTATCTATATTTTGTTTTGTTTTGTTTTTTGAGACAGAGTCTCGCTCTGTCGCTCAGGCTGGAGT
GCACTGGCATGATCTTGGCTCATTGCAACTTCTGCCTCCTGGGTTCTAGCAATTCTTCTGCCTCAGCCACTTACTTGTAACTGGGACTACAGGC
ACGTGCCACCATGCCCGGCTACTTTTTGCATTTTTTAGTAGAGATGGGGTTTCACCATACTGGCTAGGCTGCTCTCGAACTCCTGACCTCATGA
TCTGTCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCGCCCAGCTGCATCTGTATGTTTTTATGTGTATGGCTGTGTCC
GTGTGTATGTTTGTCCATGCATGTCTGTATGTGTGTATGTGTGTGCATGTGTGCCATCTGTGTTTTTGTATGTCTCTCTGTGTGTGCGTGTGAG
AGGGTACTCACTACAAAGAAACAGGAGAAGCTGGTGGACTTTGCTTATGTCAGAGTGCCACTCTCAACTCAGCAAAAGAGCCTTTGACCTATTC
TTTTTGATTTTTCACTATGAAAATAAATGAGTTTTCCTGATTGATTTAATTTTTTTTTTTTTTTTTTTTTGGAGAGGTCTCCCTCTGTCACC
CAGTCTGGAGTGCAGTGGAGCGATCTTGGCTTACTACAGCCTCTACCTCCTGGGTTCAAGAGATTCTCCTGCCTCAGTCTCCCAAGTAGCTGGG
ACTACAGGTGCGCGCCACCATGCTTGGCTAATTTTTTTATATTTTTAGTGGAGATGGGGTTTCACAATGTTGGCCAGGCTGGTCTTGAACTCCT
GACCTCAAGTGACCCGCCTGTGTCGGCCTCCCAGAGTGCTGGGATGAGCCATCAGGCCCGGACTGATTCAACTTCTAATGAGACAATTCTCATG
AAACTGCTCAGTTATGATATTGTATTTTTTCTCAACAAGAAGTTTTTCTGTAGTTACATTTCAGCTGAAAACTTTAATTACAACTTCCTTCACC
TGAAATGATTTCTGCTTTCCCACAACCTAGTGGAGGGTGATTGGACAGCACCAATCATGAAGGACCTGAGTACTCATTCATTCATTCAGCCAAC
ATTAGTGAGCCTCCTAGGCTCCAGTTGGTTTTATAGGTGCTGGAGACATGGCTGTGCAGAAAAAATACAAAATCCCTGTCTTTGTAGACTTTAC
AGTCCCATGGGTGCAGACAGACCCTGGATAACATTAACATGTGCTATGGAGAAAACCTAAGCCAAAGGGCTGGACTGGCTGGATGTGGGATA
GTCTGCAACTTAAAAGGGGATCTCCAGGAACTCCTCAGGGAGAAGATGACATTTCAGCAAATACTTGAAGGGTGGGAGGGATCAGGTCCACAGG
GATCTCAGGGAAGAGCTTCCTGAGCAGAGGAAACAGTAAGTGCAAAGGCCCCAGGGCAGTGACACAGGGGCAAGAGCAAGGTGGCCACTGCTGC
CGGAGCAAAGAGGGAGCTCAACCTATCTGCCTTCTAGTTTCAAGTAGGAGGCATTTGCCTTAGAAAACAGGCTTAAGAAAATGCCACCTGACC
TCAGGTGACATGACCTGTACTTCATGTCACCTGAGAGGCCACTGTAGGACCATGGTTCGGGAAGGCCCAGAGTAGGAAAGCCCCATACACAGGT
GGACCCAGTGAGTGCTTGCTTTCCTGTTACCACCCACAAGAGTACAAAAGCTCTTTCCGACCAAAGGCTCTGCTATTCCTGCTGGTGATTCTCT
GGGGCTAAAGCATCACCCCTCTAGAAATCGCTGAGTGGGTAAAAGGGATTCCTAGGAAGTGGAGGTATCCTAGGGGACTTGCCAGGATTCATCC
ACCTCTAAGAGGCTTAGGGGCATGAGCTAGAGGAACAGGGGCCTGCACAGGGAGTGTGGGCGGGGTGGGTGACAGGTACTCACCTAAGACTTAT
GTGCCTACTGCCACTGATGGAAAAGGTGGGCATTCAGGGCAGATGTCTCATTGTTTTCCAACCCAGACAAGAAGCTGGGAAATGAGAGCCTGGA
TGAGTGTTCCGCAGAGTGGCTTTCTTCCCAGGTGCAGCCTCTGACAACTTCCTAGCAAATTTTAAGGTGTGTTTAATGTCCCACTCCCTCTGGA
CTCAGCCTTGGGATGGTAGAGGGGGAGGGGTGAAAGCAGAATGGAATGTCCCAGTCAGTAGGGTAGCACGAAAGGCTCTGTGAAGGCTTAAGGG
AGAGAGGAGGGCACCTTTGAATACTGAAGTCCAAGGTCACTCATAACTAACTGTCCAAAGGGTCACTGATGAAACAGCTGGAGGCAGAGGGAGA
GTGAATTCTTAGGACACCTCGTGCAAAGCTGCTGACCCCCAGCACACAGAAAGATAGAGCAGGCCAGGTGGGATCGCAGGCTGGGCGACCTGGT
GGGGATCAAGACAGAGCTCTGAGACCAACCTGACAGCTAGACTTGGCAGTGGCTCCCGCAGCCAGGTGTCTGCCTGAAAAAAGACAAAAGGGAA
AACTTTGAAAGTCGTAACCTCATTAGAAGTTGTTCAAGAAAGACCGTGCTTAGAACCAGTTGAGTAGATAATGGCAGCAGATGTAATTGTTGTG
GATGCTTTTAGAGTCCCTTGGAGTAATCCTTCTTAGTCTCTTAATTCCAGGCTTCCAGATACGGAGCCTCAGTGATGAAGAGACTTGTTCTTGT
CCACAGCAAAGGTTGGTAGAAAAGCAGATTTAGAATGGAGAATTCTTAACGCCTACTCTAGCATTCACGTTTCCCTGGGACCATGTTGTTTCTC
TAGAGGGGAGGAGGATTGTGGCATCTGCATTAACACCCGGTCCTGTGGGCACTCAGAGAACTTAACTGCTGCATTTGTGGAACGGAATAAAGGT
TCCATGTAACCCTTCCCTGCCATTCCCCAAAGTCTTTCTATAGATGGCACAGCAGAAATTACTTCCTACTTGAGAATCTGGGGTTCACCTTAGC
AATCAGACTGATTATCATGACAGTGACTCTGACAGAATGTGCCCAGTTATTGTAGGAGACAGAGACGGTCACACACCGGCCTATCTGCAGGGCA
GAGTTTGGGCATTTTCAGCTGCTCTGTGTGTATTGAAGAGTTAAAAAAATGAAAAGACGGCCAAATAGTTATCACCAAAAGGAGGCCGTCAGTC
ATTGCTCATGAACACAGTCTAAACACAGTTCAGGCATATTTAGTTCGCGTGTTTCTCCCCAGCACACAGCAAATCAGAAGCAGGCAGGAGAAGG
GAAGTAGTAATGCACATTGGAAGCTTGAGTATCAGGAGGAGCTCTCCCTCTCATGCAGATATTCCCAGCGTGCTCCCTGTATCGGCAGCCTCAG
CATCACCTGGGACCTTATTAGAACTCCAAATTCTCAGGCCCTTCACCCTAGACCAACCTACCAAACTAGAATGCCCAGGTAATTCCATTGCCCA
CTCAAGCAGGTGAAACACAGCCTCACAGCCTGCAGGTCACAGTGTGGCTGGGGCTGTCTTCTGATTCTACACACACACTGGGAGCAGAAGTGAG
ATGGTTGAGGCAGAATGCAAAAGTTCAAGTGCTTTCGTGTCTCTGAGATCTAAAACTATGAAGCATTGTGCACTTCTCCACCCTGTTCGCTTTG
AGTTCACAGAAATGTGTATTTCTAGGTGCACTGAGTGTACATCCCGAGTGTGTGTGTCGGTGGGTGTTGAATTTCTAGGCACACTGAGTGTACA
TCCCGAGTGTGTGTGTCGGTGAGTGTTGAATTTCTAGGTGCACTGAGTGTACATATCTGAGTGTGTGTGTCCGTGGGTGTTGAATTTCTAGGTG
CACTGAGTGTACATTCCGAGTGTGTGTGTCGGTGGGTGTTGAGAGTGTGTGTTTTCAGACCTGCCCTCTTCCTGTAACTGGCCGTGTGAGAT
TGGGCAAATGACATAACCTCTCTGAACCTCACTTCCCACACATTAGTTAAAAACCAAGGCTGATTTCTGTGGCCATTCTCCAGTTCTGAAGTAC
TCCAACCTTGTGGTGTTGTCTTAGCTTAACGATATGAGAAGAAATTGGGGTGGGGGAAAGTGAGGCTACCCATAGTTACGTAGCACTGGACAAT
ATATAAGCATGCATATATAATATGAATTAGAATGTATACTGACATACTATATACCATTATATAGTTTATATTATATAATATATACAT
GTGGTATGGTAAATAATATTGAAGAATATTTCCCAACATTAAATTAGCCAGCATATGGTTAGGTTTGCAATTAGGGAGATTTATTTTACCATCT
GCAAGGGGCTTCAGGAAGAGTCACATTCAGTACTGTCACTTTGAAATCCTAATGACCCTGCAACCTAAAGGTTAGACTGTGATACCAGGAAAAG
TAAGCTGTTCTCTACACACATTGATTTCTTTTCCATTGTCATAAAACAGTAGCAAATCAAAGGAAGAAAACCCCATATTTTTATATCCAGATTC
ATGTAGTGAGTATCCAATTGACTGGCCAACATCTTCTGAAATACAGATATCCTTTTAAAATTGACTATATAAAATTCTTATATGCTTTTAGAAG
AACCACAATTTTATACATGTATATACAGAGAGAAATATATCTTTTTGGTATTATGCTTTTGCATAGATTTGGCTCAACGGCTCATCATGACAGT
CTTCTGAGTATATACCTTCCTCATTTTTCTGCTAAGAATCTATCAAGAAAACTAGTAAACCCATATCGGAAACATAGACTAATATGTTGTTGAC
TGCCAGAAAATTCTTTATTCTATCTAACCAAAATTTTCCAAGAAACGGTGGCAATTTAACCTTATCTGGTTTCTTTAATGGAAGATCATATATT
ACATTTATGTTACTTACAGCCACAGATCACAATGGTGTCTTGAAAAAGGCAGCTCGGTTATCAACGAGATATGCATACCTGCTCAGTTTATTTT
GTATGGCAGAAAAGTGAAAGCTGGTCTCACTATCCGTCACAAAATATCATAACATTTAAGGATGGCCTAATGAGCAGCCAACCCCGAAAACAAT
AGGAATGCCTTTGGAATGAAGTAAAATTTTGCAAACGGCATTGACTTATTTTTATTATATACAATTTTTTCCCCTTTTTTGGATTTTTATGACT
CTGCATACATAATAAAATTCCAAGCAAGTACTTTCATTTTTTTCAAAAATGAGAAAATGGTACTAGAAGAATTTAGGACCTTTTTTCAACTCTGC

SAGRES DISCOVERY 02-18

TTAAGATTAAGATGTCCCAGGGTGAAATCTTGATGTGCCCACTACTTTAAAGCACCGCCCTGTAAACATTCACAGTTGATTCCAAACATGCTGA
AGAAGCCAAGCTGCCAGCATGCAGGTGTTCAGAGCTGCATCCTGGTTCTACCCAAGGGCTTGACCCAGGGTCGAATTCCCTGTTGCCCTCTAAA
GCCCGGTACTCAGTGAGAAAGAAGAAAAGTGAATTGGATAGTAGACATTTTCCATACTCCTCTATTTAACATTCGGGGGGCAAATGAGCCTTTT
AACTGAACACAGATACAGGAAACTGAAGACATAAAGTATTCATTTTCCCCAGCTTGAAAGTTTATATCGGAAGTTCCTATATTTCATGCAAAAT
ATTGCTATTTGGCACATGAGGTCTGATGGTTTCAGAAAGTAAGAATTAGATGTTCCTTCGATCTAGCTTGTAAGTGCATCCAAACCACACCCTG
AATATGATAATGCTTCTCATTTCCCCTGTGCCTTGGTGTCACAGCTCTCCAGCACCATTGTGAGCCTGAGGGTCAAGACCCCTACCAAGGCAAT
AACGTTCCTACTGACTCCCAGGAACACACGTGGGGAGAGTGGAATGGGCTCTTCCCCAATCCTCCAGCATTAAACTCAGCCCTGAGACTCCCAG
GGCTTAGAAAACAGCTTAGAGTGAAGAATTGTTTTCTCTGAGAGTTATGCCTGAACACTTCTGCTAAAGCAGACAGTCATCAGTTAATCTCTAT
AAATGACTACAATTTTGGCAGGTATCAGCTGGTATAGAAATTGCTCACAAGTTAAAGCTCTCATTTCTAAGTATATAGTAATGAGGGGGACTAA
TTAAAATAAAAAACAAAGAAACAAACAAACAAAAAATACCTCACGTTGTGCCTGACCACAGGACTGGCTTACCTGGAATGATGATTCCTGTTGG
GTGTCTCCGTGGCACAGGTCCCCACGCTTGCTGGCTAAGAGAGACACAACTGCCAAGAGCTGTTTTTCCAAGCTGTGGCTGTAGACTCTACCAC
GTCAAGTGCTGTGTATTCAGAATGACCTCGCTCACATCACTCTCCTGGGTCACCCACTGTCCTTGACACAGTGTTCTTCAAAAATGCCACTAAG
TGCCTGAGGAATGTGAAGTTTTGAAATGAGCACAAAACCTGCCGGCAGCCTTTGCCGACTGGCATTATTTCTGAGGCAGATAGAGCTCTCCACA
ATCATTGTTCCTGCCTTCTTCTTTACCCCAACTCGTAATGCCAGGCATTAGACTGTGGTAGGAGGTTAAAGGGCTGAGTTATTATGTTTTGAAT
GGTTGTTCCATTGGAATTGTTTGTTTTTCTGCAAGAAAACTGCAGATTTTTCAGTTTGATCATCAGGAAGCCAAGGATCTATGGCAGAGATAAG
AGGAGGGAGGAGCTAAGGAAGGCTTCATCCAGAGGCACTGAGTCACACCATGGCTGACCAACACAGAGCGCTCTAGAAAAAAGACATTTTCATA
CTTCTGAGGGAAAGGGATGATGGGGGTTGCTGCAAGACCTGGCCCCATGGCCTTTCATCCACAAAGCCGGTGCTTAAAATACGCAGCCAAGAAC
AGGCCTCCCACATGCATGCTGAGCCTGCGTGACTCAGGCTGTTTGCGTTCAAGTCTCCTGTTGTGGGCTGGAGCGCTGAATCAGAGTCCAGATT
TGCCTTGGTGACACATGACAAGAGGGGCCATTGCATTTGAACTACATAAATATTATGCTTAAGTGTTTTTCCTCATTTTGGAGCCAAACAGGTC
TCGTTAATGATAAAATCACTGCAATATAGTGGGCCCTTTTTTTCTGGTCTGGAATTTGAGACAATGTCAACTGTGCCAAGGGGCCTGGCAGCAG
GAAGAAATGGCCAGCCATGGAGATTTGCAGCCATCATGCAAGTTATACCATTTAATTTTATAATTGTAGCCATTGGGAGCTGGACTACAGTGCA
CTTCTCGTGGTCTGCTCTTACCCCAGGCTGCGGGAGTGGAATCAAGGGGGCCTCTTTCTAGTCTAGGATTGGGTCAGGGCATGTGAAATAGCAC
TTTATGGGGGCAGCGGGCAGGCTGTTTCTCAGTCTGGCTTTGGGGACATTTGGCAATAGGGAACAGAGGTTGTGCAATCGATCAAGGACTCTTT
ATTGGAACCATAAGGCTGAGGAAGCAGCAGGAGGCCATTGTCTTTAAAAGAGAAATGAATGGCCCAGGCCTCCTGTGGCTACCTCCCTACCTTG
GAGCCTCAGCTTTGCACGACAGGACTGGCTCTGGTTTAAGGACATTTTGAGAAAACCGTAGGCCCCAGTCCCCCATGAGTGGCCTCTGCTTGCT
GCTTCCTGGTGACGGTTGTTTTGGTGAAGAGCATGATGAGGACACTTGCTATCTATATAGACACTGAGGGGCCCACCATCCCACCCTATATAGA
CACTGAGGGGCCCATCATCCCATCCCACCAGTCCTGAGCCCCCTGGGGAAGCTCACCAGATAGGCTGTAGCTACCTCTGGGCTCCAGTGGGCCT
ATTCTGCTGGGAATATTGGACAAGACACAGGCGAGGCCTTCCTGTCAACTCCTCCTTAGGGGTACATGGGGGAGTCGGCTTCAGGGAAGAAGGA
ATGCTTGTGAAAAGCCTGTGAGGAGAGGGAGAGGGAGAGGGGCTGAGGGGCTGAGGATGCCCTGCGTGTACCTGGAAATGGGACCTCCCCAGAG
GCTGTGGGTTTGCAGCCACGCCTCATTTCCTCTTGGAAGGGGCCCTACCACTAAGCTGCGGGGCCCACTTTGCCGCCTCTAAAACGTGCCAGTG
GCTGGGTTTGCAGTAAGGAACAGCCGTTCTGATGCCCCTGGGAGGCCACCTTTCCTGGCTGCCACAGCATAGCCCCTGGCATGTGGCCATGTGC
CAACAATTAATGCGCCTCTTTCCCTCCCGGCATCACCACCACCGCCAAGTTCTGTATCTCAGTGAGTTGTGCCCATTGGAAGTGGGTGTAGAGG
GTTGGGGAGGGTGCCAAGGCCCAGACTGGGGGAGCACTCTGTGGCCGAGGCGGTGAAAGGGGCCCATTCTGCTGAGAGGACAGTGGCCCCAAA
TTCAGCTGGCATATCTCTAGCGAGTCTATGTTGGGGTGAGGGGAGAGAGAGGGGAAAGACAAGAAAAGCCCCAGTTTTAGGAAATCCACAATAC
TTTTTCTGATCTCTTCCCTCCCTCCTTCCCTCCCCCCATCCCCTCCCCTCCCTGCTCCCCACAATAGGACATCGGCAGAAACTAGATGATCAGA
CCAAGCCCGGGAGCTTGTCCTTTTCCGAGCGGCTCAGTGAACTGGAGCAGCTGCGGCGCACAGCCATGAGGGTCAGCCCACACCACCCAGCCCC
CACGCCCAACCCTCGTGCCTCCCTGAACCACTCCACTGCCTTTAACCCTCAGCCTCAGAGTCAGATGCAGGGTAAGTACCAGATGGAGCCCACT
GCCCGCCTCTCCTGCACCTGGGCCACCACCCACAACTGGCCCCCATGTGCACACACCTTCCCAGACCAACTGGGGTTTCCCCTTGATGCTCAGA
GAAAGGCCTCGAACCAACAGCACCACCTGGGAGCTGTTGGAAATGCAGAGTCTTGGGCCCCACCCACCCCAGACCCACCGAGTCAGATCTGCAT
TGTAACCAGATCCCCACAAGGAAAAGCACTGCTACAGAGGATACGAGGAGCTCTGGGTATGGATATCCATATTGGATAGATAGCTCTCTTGAAT
TTTTTAAGAGTTAGCTTTGGCTATGCTATTTTTTTACCTACCCATTAGGCTTGAAGACACACACGCAGACACACACACACACACGTCAAGCA
AAGTGAAGATGGGATGTTTCAAGTTCTCGCTATTGCCAGATTATTTGTGGGTTTTGTATCTAGTGTTTTTTTATTATTAAGAAATAGTTGAAAT
GTATGGATGTCATCACATCAAGGGTGTTATTTGCAAATCAATAGAGAATGCAGGTCCCCCCAGCCCATGGGCCTAGCTGGCAATTACTAAAGCG
CTGTAAGATGCAATAATTGCCTAAGGCCCACTGTGCCAAATTAGATAATACAAGAAGTTCATTTACACTGTAGACCAGTGACGTCAATGACTGT
TTGCTCTGTGATACCGTTTCAAAAATCCAAAATGCAGACTTTTCTCTGTGCCATGCAGGATGCAGCTGTGTGTGATATGGTTTACAGTAATATT
TCTTTCTCAAAGTAGCAGGCTTGTTAAGGAAAAGATAAGCAACACATCTGGGGAAAAGGGCAGGTGGCCAGCAATCGATGTGGTAGCTCTTTGC
CCCTCTCGGACAGCAGGAATTAGCTTCCCCAGGCATTTTCTGTATGTGAGTTGTATTGTGGGATGTACAAATATCATCTGTTCCTTTGGGTTTC
CAGGCCAGTAGCTCTCTATTTTGGGTTCAAACATGGGTTCTCAGGCCGGGCGCGGTGGCTCACACGTGTAATCCCAGCACTTTGGGAGGCCAAG
GCGGGCGGATCACGAGGTCAGGAGATGGAGACCATCCTGGCTAACATGGTGAAACCCCAACTCTACTAAAAATACAAAAAATTAGGCAGGCATG
GTGGCGGGTGCCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATGGTGTGAACCCGGGAGGTTGGAGGTTGCAGTAAGCCGAGATTGC
ACCACTGCACTCCAGCCTGGGCAACAGAGCGAGACTCCATCTCAAAAAACAAACAAACAAACAAACAAAAACATGGGTTCTCAAAAGGCATGCC
CACTGTCTCCCATGGAGCTTGACAGCCCATGCCATTAGCTCTCACTGTTAGGTTTCTGGGGAAGGTTCTTCTACTTGATTGGAAAATTTCCAAA
TAAATCTTTCCAGAAGATACTATGCACACAGCTAAGTGGCCTGTCTGTGGAGTAACCCTTTTGTAAACAAACAGAAACCTAAAGCTTGATGTTT
TGGGGGGCTGCCTGTCATCTATAGGTTCATTTAGGTGTATTTAGGAAGAGGATCCATGAAACCACTGGTTTCCTGTTACATAATAATCATTAAT
AATGATTTAAAATGTGTACATTGATTTTTTTTAAATTCCAAAATACAAGCGTATATGGTAAATTAAGTCAAATGGTATGTTCAGTGAGCGAGAT
GGGCTTGGGGCAAAACAATACTTTGCTTCCAAAGAGGATACAACTCTCAAGGAGATTCTTTCATCTTGCCTTTAAGGTCATTTAAACTAATTCA
CATAATCTTCAGAAAACTAATTCACATCATCTATTCATGTGTAAAATCAAAAGGAAGACTGTTTTCTTAGTCTCTCGTTGCCTAACTGGCCATT
TATACTACTAGGTTGATTAAGGGATTTGCCTTTTTCTGCTGATATGGGAACAAAAAGTCTTAAGCATTTTTAAAGGCAATGGAAAATTCAGCCA
CATGGGGGAAAATTGATATTGTCACCATTGAGTTGCTCTGTTTCTTGGTGAAGAGTGAATCTAATCTGATTTCCTTCTTCATCAGATATGCCTC
TTTAACAACAAAAACAAAAAAATGGGGGGAAGTTGCACATTGAGTTCTCATCCTCTGAAGCTCCTGGGCAAAAGCATTATTGTGGACCGTGTGA
TGGGCATTCGTCAGCTCTTTGGAGACCTATATGCTTAGTAGAGTATCAGGTTTAACACTAAGCATCGCCCCTTTTTTGTTCCTCTTGAAAACTT
TTACTTCTGCAACATTTAAGAAATCATAACTCGCTTTTAGAGTTCCTACGGGCTTGGTTGCTACTCTAAAGAATGTGTGAACTATATTGCTGGT
GTTCTTTCTTTCCAAAATATGAATTTGATATTCAGTACTTCACTTGTAAAATTTTAGGAACAACTTTTAAAAAATAAGTATCCAGAATATTTTC
ATGTGAAACAACTTTTCCTTTTCCTTTTGTTCTTTCTTTCCTATAAGAAAACGCTGTTTTACGCTAATCATGTTTTGAGTAGACCCTTGGGCTT
TTTCTCTTGAAATTGGAAAGTTAACAGGTATAATATGCAAGTCTTGTTCAGCCAAGACCTTCAGTTTGTTCTTGACAGTAGGAAAATGCTTATT
TTCCAGGCTCAGCCCTGAAATTTCTATGTTATATTTACGAAGATACTTTAAGAAATACAGCATGTGTTTCTGGCTTTCTTTGAAATGGCAGTGG
TAGTTTTCAGAAAAATATCCAATTTGTCAGAGTAGTTCCACAGTGGTGCTGTCCAGATGCATGAATGTTTTTCAGCTTTACAGAAATGTCAGTA
ACCGGGGGTTTGGCGAGCTTGCCCGGATTTATAGAAAGGCTCAGGAACCCTACCTTGCTAGGACTTTGTCAGAAGGGTTATGCCAGCTCCTCTG
ACTCTGTCAGCAAGAAAATACTGATATAGAATAGCACCAATACTTACCTAGAATCACATGTGCTGGAGGGTCACTCAAAATAGACATCTCAAAT
TATCTGAAGCACGGTACAGATTGAGAGGGGGCAAGTTGTCATGCCACTAAACCACTGTTTATTTGTTGGGGTCTTAACTATTAAAGGGCTGAGG
TTTATTTCAACTTCCTATTTTACCAGGTCTTAAACTGGTAAAGCCATTTTGTCATGAAATAGAATAGAAAGCCATTTTGTCATGAGTAGACCCT
TGGGCTACACGTTTCTCCCAGTCAGGACACCATCATTAACTTCTACGATCGAGTCTTAGAATTCTTTTTTAATTTATTTCAAAAGATAGAACAG
GGCAGATTCTAGAGCTAGTGGTACCGATGCCTGTTCAGTCACAACTCCCACCTAGAGATGGGTTTGGGCAACCCGAGTGAGTGATTTTAAAATT

TCACCCCTGATTGACCAAATATGATGTATCACATTTAAGGTGTCGTAATTTCCTCCTTTCTGGGAATATGAGGATGGAGTAATAGATGCTGGTA
CAGAAAACTGAAACCTAGATAAACTAGGAAGCCCATTTTGTTGTTCTTCTGCATGCTGGTTGTCATAAGCATGTAGGAAGAAGATTTAACTCTT
TAACTGGACCAGTTGTGAGCTATTTTGACGTGGGTCAGACATTTGTACATATTATTCCATTCCCTCAACAATCCTGTGGTATCATTTATAGACA
GAGAAATCGAAATTCAGAGGTTAAAAATTGCCCAGTATCTCAAAGATTGTAAGTGATGAACTTGGACGCAAACCCAGACCTTCCTTGCTACAAA
GCCAGTGCAAGTGGGATGGCCGTTCCCTGGGCGTGCACTCTTGGGTCAAGGATCGATTTACTACAGGGCTGACCAGTGTCGAGAAGAATCCCAA
TCACCAAAGGAGGGATGGAAAAAGTGTTGGGCTATCCACTCACTTGGCATTCTTGTATTGAACATGTTCTATTATAATTAGATGTTGATAATAA
GAAGAATTTTGGGGCCAGGCTGTGTGGTGGGCACCTTAATAAACTGTCTCCTTTGGTACATGTGCATTTGTTTATAAAGTTTGGGAGAAAAGAA
AACTCAGAATAATGAATCTCTAAATAAGAGTGAAAGAGGGGGTATATGAGCAGGGAGAAGGCTTACCAGCCACTCTGTTTACTTTATTGGGGCC
ATTGCCTTCCTACTTTTGAAGTTCATTGGGACCAAGTGCTTATCATCCAAACCCAGTCAACATCTAATCCACTTTTATGAGTATGCGTGCCTCA
CTTTGAGTGTTCCATATGGCCAAGAGGGGTCCCTGACCTCTCAAATCATCTCTTGATTTTTAGTATTCCAAGTAACTTCTGTCTTGCTAATTAT
TTTCCCCCAAAATTAAAGTTACTTAGGAAGGACTATATTCTGGTGCTGCTGTCTGCAAAACTCTGAGATACTGAAATGACCCTGTTTCTCAGTT
GTATAGAGTTATTTAAGTCCGTCTGATTCTCTCTTTATCATCTGGATAGACAAAAGGAAGAAAACCTTTCCACCTTCCTGTAGGAGAAGGAGAT
AAATCCTCTTTCCAGCCTTGGAGGTAAAATATCCAACTGCATTGCATTGCTTTCCTTTCTCTCTCCCTCTCCTTCCCTCTCTTCCTTACTCTTC
TAGCAATTTGAAGTTTGAAAACAAAGGGAGTAGGGACTATTTGATTACCTTGAAAGTGGAGGCTACAATCAAACACCAGAAATCCTCATATGTG
AATCTATAAATGGTCATTTAATGGTTACACAAAGTAACATATTCAGAATGTGAGAAATTAATTTATATAATAGGCTATAAACATGACAGGTGAA
TGATTTCATTTAAAAATAGCTTTTAACAAGGTGTAGTAGGGTATGAGAGCCTTTCCAGGTCTATAGCATTATAATCTTACCCCGACAACAAGCC
TGAATCAGGTGTTCACAGGAATAAATAAAAATAATTAAAGGAAAGAAGGGAGAGAGAGAAGAAATGAAAACCAGTGGGATGACTGCAGAGAT
TCACTGCAGGGCTTGATCTTAGTGATGAAATATTTCTTCTGTAGACTGCATATGTTCTGAACTTTCCCCTTATGCTTGTAAATATGTAGGCCAG
CACACCCATGCACTAAAAGGTTTCATTTGGAAGATTAATAGTTTCAGCAAAGTTGTAGTTGGAGCATGTATTTGATATTGATGGCTACATATCA
GAAGGCTTGAGCTGGGAATCTAATAGCCAAGAAAGATAGCAGATCATAGTGGCTAAGAAAGAATGAGGGCTCAACAGGCAGACTACCTTAGTTT
CTACCACATTCACTATAGGACTTTTGGCAAGTTACTTAACCTTTTAAAGCCTTAGTTTTCTTATCTGCAAAAGACGAGTAATAATTATACTAGC
AGATCCTAGGACCACTGTGAAACATAAAGCAGTGGACATTAGAGCCAGCCCATGGTTAACACTCAAAAACTGTTAGCTGTTATGATCAACATCA
ATAATATCAAGTTGTCGTAGTCTTATATATTATAGACTGGGTAATATATAAAGAAAAGTTTATTCGGCTCATGGCTATGGAGGCTGGGAAGTCC
AAGAGCAAGGTGCCATCATCTGCTGAGAGTCATCCCATGGCAGATAGGTGGAAGGGCAGAGAGCATCTGTCAGAGAGCTCACTTTTATGACAAA
GCCACCTCCATGATAACTAACTTACTCCCTCAATGGTAGCATGAATTCATTTGTGAGGATGGAGCCCTTATGACTCAATCACCTCCCAAAGGCC
CCACCTCTCAACATTGCCATGATGGCAACCAGGTTTCCAACATATGAACTTTTGAGAAGACACATTCAAACCATAGCATTCCACCTCTGACCTC
CCCAAATTCATGTGATTCTCATTTTAAAAATACATTTATTCCATCCCAGTGGTCCCCAAAGTCTTAACTCTTTCCAGCATTAACTCAAAAGTCG
AAAGTCCAAAGTCTTGTCTAAACCAGATATGGGTGAGATGCAAGGAAACATTTAAAGCAAATTCCATTAGCTTTGTGAAATCAAAAACAAGTCT
ACTATAATACTTCCAAAATATAATGGTGGGACAGACACAAGGTAGAAATTCCTACTCCAAAAGAGAAAAACAGGCAAGAAAATAGGGGTAACTG
GTCCCATATAAGTTCAAAATCCAACAGGGTAAACAATATTAAGTCTTAAAACTGGAGAATAATCTCCTTTGACTCCATGTTCTGCCTTCTGGAT
ACAATGGGGCTAAGACTAGGCCCCCAAGGCCTTGGGCAGCCCTGCCCCTACAGTTTGCTGGGCTCAGCCCAAACTTCACCTCTCTCACGTTGA
AGTCTTGTGTCTGCAGCATTACCAGGCTAGAGTTGCACACTGGTGGCTCTGCAGTTCTGGGTTCTCAGGGATAGCCCCAATTCTGTGTCTCCAT
TAGGCACAGCCTTAGTGGGGACTCTTTGTGGCAGCTTCAACCTCACATTTCTGTTCAACATTGCCCTGCTAGGTACTGTCTGCAGTGGTATTCC
CCTGTGGTAGGTCTTGGCCTGAGCTTCTAGGCAGTCTGTGGCATCCTTCGTAATCTAGGTGGAGGAAGCCATGCTTCCACAGCATGTATTCTGC
ATGCCTACGGAATTAGCACCACATAGAGACCATCAAGGCATACTGCTTGTGCCCTTCAGAATGGCAGCCTAGCTATACCTAGGCCCACTGAAGC
CACAGCTGGGGTGGCCAAGGTGTGCTGCACCAGGATGCAGGAAGCAGAGACTAGAGGCAGCCCTGGGCAGTGAGCCCATGAAGGGTGCCCCAGG
CCTGTCCCCTAAAATCATTCTACCCTCCTAGAGCTCTGGGCCTATGATGGGAGGAGCAACTTGAAGATCTCTGAAATGCTTTTCGGGGTCTTTC
TCCCATTGTTTTGATGAACAGAATCTGGCTTCCTCGCATTCATACTAATCTCTTTGGCAAATGGTTGCTTGGCCACACCCTTAGTACTCTCTTC
CAAATACACTTTCACTCTTTACATGGCCAGGCTGCGAATTTTCCAAATCTTTCCACTCTGCTTCTCTTTTAATTGCAAATTTCATCTTTAAGTC
ATTCTTTTGCTATCACATCTCACTATATGTAGTTAAAAGTAGCCACACAGCAGCCTCAATGCTTTGCTGCTTAAGTATTTCTTCCACAAATATC
CTAGTTCATCCCTCTTAAGTTCTGCATTCCATTAAGTCCTAGGACACAGACACAATTTCACCCAGCTCTTTGCAACCTTATATTTTATAAATAT
GGCCTTTACTCCAGTTTCCAATACCTTGTTCCTCATTTCTATCTGCAGCCTCATCAGAATGGCCTTTACCAGCATTCTACCAGCACTCTGGTCA
CATACACTTAAGTAATCACTTAAGTAATCTCTACGAAGATTTAGACTTCCCCTAGTTCTAAGGTCTTCTTTCAGAGCCCTCACCAGAATTGCCC
CTAATGGCAGAACCGTTCTTGGCAATGCAGGCTTTTTTCTAGCCTGCTCCTCCAAACTTGTTCAGCCTTCACGGTTATACAGTTCCAAAGCCAC
TTACACACTTTCAGGTATTTGTTGTAGTAACAACCCCACATCTTGGTACCAACTTTCTGTCTTAGTTCTTTTGTTAAATGCCTGAGACTGGGTA
ATTTATAAAGAAAATAAATTTAATTCACAGCTGGGCACAGTGGCTCATGCCTGTAATCCCACCACTTTGGGAGGCCAAGGCAGGCAGATCACTT
GAGGTCGGGAGTTCGAGAGCAGGCTGGCCAACATGGTGAAACCCCCATCTCTACTAAAAATACAAAAAAAAAAAAATTAGCTGGGCATGGTGGCA
CACACCTGAGTCCTAGTTACCCGGGAGGCTGAGGCAGGAGAATCGCTTGAGCCGGGGAGGTGGAGGTTGCAGTGAGCTGAGATCATGTTACTGC
ACTCCAGCCTGGGTGACAGAGTGAGATTCTGTCTCAAAAAAAAAAAAAAAAAAAAAGAAAGAAAGAAACAAAAGAAATTTATTTCATATGGTT
CTGGAGGCAGGGAAGTCCAAGAGCATGGTGCTGGCATCTGGTGGGGTCCTTGCTGCATTAACCCAAGGCAGAAAGCAAGGGGCACAAGAAAGCA
TGTGCAAGAGAGCTTGCTTTTATAACAAAGGCACTTCACCAATAACCCACTCACATGATTATGGCATTAATCCATTTATGAGGGCAGAATCCTC
ATGACCCGTTTGCTCCCTGCAAAGGCCTCATCAACACCACCACAGTGGGATCTAAGTTTCCAACATGTGAACTTTTGAGGGACATAATCAAACC
ACAGCACAAGTATATTAGTTTCCTGTGGCTGTTTTAACAAATAACCACAAACTTGGTGGCTTAAAACAACAGAAATGTATTCTCTCTTAGTTCT
GGAGGCCAGAAGTCCAAAATCAAAGTGTTGGCAAGACCATACATTCTCTGAAGCCTCTAGGGGAGGATACTTCCTTATCTCTTCCAGCCACTGG
TGGCATTCCTTGGCTTGTGACTGTATCAGACTGTATCATTCCAACTTCTTCTTCCCTCTTTATATGGCCTCCTTTGTGTCATCTCTTTTGTCTA
AGGATACATGTTACTATATTTAGACCCACCCAGGTAATTCATGATGAACTCAAAATCCTTCACTTAATTATAGCTTCAAAGGCCCTTTTCCAAA
TAAGGTCACATTCACAGTTCTGGGGGTGAGGAAATGGTTCTGGAGCCACCGTTCAAACTGCTGTATCTTTGTACAAAAGACAGGGGACATCAGA
CCATTGACCAGGCACAGCAGGTGAGTCCAGAGATAACTCTCCCAAGTCCATCCCCCAGAACAAACATGGTAGACAGGTAAATGTGAACTGAACA
TCTCATGCACAAATGCCCCAATCGTGTTACTATAACCTCAGTCCATCATTTGTTTGAACGCAACATCATAGTATTTTAATTTCCCAGCCAGAAA
AATGTATGATTTTTTTTAGATGAGATCAGATATTTCCTTAATATTTTCTAGAGCACCTATACCGATGGAATCAGAGGTCCTGACAGTGATAGAG
AAAGAGCTCTCTTCCCTGTGTCCCGGGAGCAGTGCCAGATGGGGAAACAGGAGGCCCAGGTGCCTCTTGTCCTAGCCTCCAAAAGCTCATGACA
GCTTAGATGGTAGGAACAGAAAAATGGGAACAAAAGATGACATGATGACCAAAGCCAGACAGTTGGGATGGACTCAAGAATTTGACCTCCCAAA
GCCAGGCATGTCACTGTTGTTTTGAAGCAAGCTGCCTTTTAAAAAAGTGACTTGATTGCCAGGCATTGTTGACTACACACCCATTTCTAAAGGA
TGGTGATTTACAAATCGCCTGAAGATAGTCTTTCAAATTTGGACATTTAAAAAAGAAACTTTTACTGTAGTCATGAAGTAGTATCAAAGTTTAC
CACAAGTTTGTATTGAGAGAAGAACAAACAATATATGCTAATATGAAAAACAGCTCTACTTAGAAAGCTACTGCTTGGGTTTTCTTATTAGGCA
TAGTTCTCCAGACTGAGTTGGTTTTACTCATCTACATGATTTTTCCTTGCCTTATGGAACGAAATTCAGGCCCACTCGAATTCAGTTATTTTA
GGGCTCTTTAAAATCCAGTATTTGTGATTTAAATGATGCGGAGGGACTTTCATTACCTGTGTCTTTGCTTATTTCTCTCTGGCCCTCAGAACAC
CCCACCCTGACCTTTAGGGGAAATTGACAGAGGCAGAGGGTTTCACCTGCCTCAATTGTCACCAGCCCTGTTACATTCTTCCTTCCAAGCCTTA
GCCTCACAGGGACCTTCTCATTATTGAACAATTGCCTTCAAAGCAGTAGAATAGCCCAATTGTTATGGAGATTAAAGATACCGATTGCAAAACT
CCTGTAAATAAAATCTTCACTGACAAACCCAGTTTCTTTTCATAGGCTTTTCTTCTGTAATCTCTTTCTGGCAGAACATCTCATGTTTTGATGT
TAGAGATTCAGTTACCAACCACAGTAAATAAAGCAAAATAATAATAGAAAAATAGTATAGAACTCACCCTAAAAACAAACATTGGCCAACCATG
TTTATTTTTTGTCTCTCTTTGCACTCCTGAGAATTGATAGGGGAAGAATGTACCACCTCTAATTCAGGTGATTTCTGATTAGCAAGCTATGGAA
AGTCTTCAGGTTGAGTTTTAGCCAGTTCACGCTCCCCTAAATGGCATGGAATAGACTATTTTCTGTTTTAAGAAAAAATAGAACAATGGCACTA

SAGRES DISCOVERY 02-18

AATGCTTGACTGAATGTTTGACTAAATGTTGACTGAATCATGGATAGGAAAGATTGGGCAGAAAAGACAGCCACTGCCTCCAGACACAGGATGC
CACAATCCTGGGCACCATCATTATTCCATACAACCTTAGGGTCATTTTTAGGGTTTAGAACTTTCTCAATAGGGTTTCAAGATTTTGAAAAGTG
TCTTCCAATTCTGATCTCCGTAGATCCTGTTATGGGAATTAACCTTTTTGGAAGGGGATTCTTGTTCTTAAAGATGAAATTCCCTACTTTCTTT
CCTGGAGGGAATCAGTATGGGCAGAGGGAAGAGGAGATGGCGATTCTGACCTGTGTGTCTCATGTCACCTAACACCTATGGGGTGGCATGAAAC
TTGAGCTTTAAAACACACCAGGGGCCAGGCACAGTGGCTCATGCTGGTAATCCCAGCACTTTGGGAGACCGAGGTGGGTGGATCACCTGAGGTC
AGGAGTTCGAGACCAGCCTGCCAACATGGCAAAACCCCGTCTCTACTAAAAATACAAAAATCAGCTGGGTGTGGTGGCGGGCACCTGTAATCCC
AGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGCAGAGGTTGCAGTGAGCCGAGATCAGGCCATTGTACTCTAGCCTGGGT
GACAAGAGTGAAACTCCATCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACCCACCAGGAATGGAAATGGTGCTTAATTCCTCTACCGTCTT
GGTTCTTCCACACAATCTGAACTGGGTCACTGAATCTTAGCCTCCGTAAGTCAACATCATCAGTTCCGTTTAATAAGACTTGGGCCACTATAAT
GTCCAGCTCAATCCTCCTGGAAGTATGGAGGACACTGCAGGATCCTTCAGTTGATGTCATAAAAGCAAAGCATCCCTAGGGAAGATCTGTGAGT
CAAGCCTCAAGGCCCTCGCTGAGTCAGCGCTAACTTGAGTATCAGGAGCTCACCCGTCTGGGACGGTTAAGTCTCCCAGCCCTGTAAATTGCCA
GTTCCTGCTATGGATGATGTCCTCTTTACCTTACGGCTTTATGTGTTCAACCTGAGTCATTCTAAAGCCAGATCCAAGACCCAGAGAGCTTATG
CTGTGCCAGTTCCTCTTTATATCACTGGAAGGACTACATATGTCCAGTTGCTTTGGGATTTTTTTAAAGAACATCTCAAGATAAAAAGGGAGGA
AGAAATAATGTGACTAGGGATTGCACTTCCTGGAGTTGCAGGTCACATGAGGGACACGAACATGGTGGTTTGATTAAGTCTCGCGGGATTATAA
CACTGTTGTGGCCACTCTCACTCCATTAGTGCATCTCTCCGCACATATCAGATAGCAAATTATATAATGATAAAGTTATTAAAATATCTGTAAA
AGTCAGCACAAGCTCAAGGGCTCGACTTGGCCTTTCTGCCCACTAAGTGGTTTATTTAGCTCTCTCATCTCAAGGCCGGTTAATCTTCATCTAT
ACTTTGTTGTAAATCACCCGCTATGTGGAACAGCCATAACTGCCTGAGTTTTAAGATGCGCTTCTGTTGGTCGTCCAACAAGGCTGGTATCTTA
AAGATGAATGCAGAAGCTTTTGAAGCATGAGACTCACCCACTTCCCCGTTTTAAAATGATAGCCTTTGTTTGTGATTGTGTCTATACCTGGGTT
ATCACAGAGCAGTTATGACAGCAAGATTATGACAAGGACATTGCCTGGTTCACATGTTTACTGAAGGGAGTAATAAAATAATGATAGCTCGTAT
TTATAGAACAGACCAATGTTGCTGGTTCATTGAATCCCCACCACCAGTCACCTGTAGGTGCATGACATGGTTAGGGGGAAGCATTGCCCGGAAG
GTCCTGCCTGTGGTGTCTGGTTTGTTTTCACGTGACCCAGCACTGTTTCCTTTACCACCAAGTCCCAGTCCCTCATCTATCATGTAAGTGATTA
ACCAGGTTGTCTTCAACACTAACATTCTGTCATTCTGGATACTGCAGTTCCCGTGAATTAATGGTCACCCCTAACTAACATTCTCAGGAAAACC
AGTAGGGTTGCCCCAGAGCCCCTCACTCTGCTGCTTATTTGGAAGGAGCCTTTATAGTTCTGCTGTGTGAGAGGCTCTGAGCCACCATATGTTC
CTAAATGAGAGAAGCCGTTGCCCAGACATGGATCTGTTTAATTTAATATGATTTACCACAAATTACGAAGCATGACTTCAAAATTGAATTTGTG
CAAAATTACTGATGGCCAATTCAGTGGAAGGGAAGGGAAATCTTGTTATTCCTATTCCAGAATCTCTTCCTGATTTCCTCATTTGATTCTTTCA
CGCCTTGGGGTAGGGGAGGGGAATGCATTCGCGGCTCTATAAAGAATTGTCCTTATTTTCGAACTTTCTCCCTGGTCACACATGGCTCCCTCAG
AGGAAGACACAGCACCCTGGAGATGTTAAGGCAGAAGTCAGTTCTTCTGTCCATCCCTCTCCCCAGCCAGGATAGAGCTATCTTTTCCATCTCA
TCCTCAGAAGAGACTCAGAAGAAAGATGACAGCCCTCAGAATGCACGTTATGAGGAAGGCAGAATGTGGGTCTGTAATTCCTCCGTGTCCCTTC
TCCCCCTCTGCAAACCGTCGTAACAATAATAGTTCCTAACACATGGGACAATTGTGAGGATTAAATGAGTTAGCCTGCAGAAATCACTTGATGC
ACAGCACATGGGAAGCATTGTGTGTATTTATTAATCCTTCACAAAGTCTTTGAGATATATTTTTATCAAATATTTAGCATGGATCCCGGTACAC
TTTCAATACTTAATAAATGGTCAATGTTATTCTTTTTCACTATTATTGCTATTTATGTGCTCTTATTGGCGGCATTGTTGTATCACCAGTTAGT
TGTACCCATCGGTCCTCTCCAAGTCACACAGCTACTCTGCGATAATTCCCCCGGGTGTCTCCTTATTCCTCGGGAGCCCCAGAGTGGATAAAGGT
ATTGGTGGTTTTAGTGGTATTTTCATTTGAGTTTTGTTTCCTTGGATAAACCCAAACAGGAGACCTTCCCATAACCACTGTTCCACAAGACCAA
ATGGTAAACTGTTAAAGTTGAAAGGACCTTAAACTTCTTTGCTCAAAGCCCTATATTTTACTCATGAGACACTCGAGGCCCAGGGAGTTTCAGT
GATTTTCCGAACTAGAGGCAGACCTAACATCCAGGTTTTCTGGCTCCTGGCCCAGTGCTCTTCCCATTGGCTGGTTCGGGTCTGCCTCAGAGGT
AGCCTCAGAACAGTCTCTAGGGTTGGTGTGGATCATTCACTTGGGCACTGAACCATGCTGTACGTCACACTGCCTTTTTCTGGAAATACACCAT
CTCAGGGAGATGCTAGGTCCCATGGTTGGGTTCAGTATCATGTGCTGCTTCTGAGTCTCCATTTTTAAAAGGTTGAATTCGTGCTAAGGAGGAG
TGATGCTTTTTTTTTTTTTGAGACGGTGTTTCACTCTTGTCACCCAGGCTCACTGCAACCTCTACCTCCCGGGTTCAGGGGATTCTCCTGCCTCA
GCCTCCCGAGTAGCCGGGATTACAGAGTCGGGATTACAGAGTCTGCCACCACCCCCAGCTAATATATATATTTGTATTTTTAGTACAGATGGGG
TTTCAGCATGTTGGCCAGGCTCGTCTCGAACTCCTGACCACAGGTGATCCGCCCGCCTCGGCCTCCCAAAGTGCTGAGATTACAGGCATGAGCC
ACCATGCCTGGCTGGAGGAGGGATTCTTAAAGCATGCAAGGAAGGGAAGTCCTCCTCAAAGCCACACCTACCCTCCTCAGCCCCACTCAGCAAG
GAAGGGAAATCCTCCTCAAAGCCACGCCCATTCTACTCAGCCCCACCCAGCAAGGAAGGGATATCCTCCTCAAAGCCATGCCCACCCTCCGCAG
CCCCAGCCGGCACCCCAGCCCTGCTCCCTGTTGGGGACAACCAGCTACAGGAGACCGACAGGTCACTTCCTGAGCACAAAGCCCACGTGGGTAG
CAGGCAAGGGTGAACCCTGACCTGTCCCATTACTTGCATGAATTGGATGCATTCAACAAATGTGAATGGTCAGCCTCTTTGGTGTTTTTAATGA
AGCAGCTACAAAAGGATTTCTTTTAACCAAGTTTCACCGTCCTGTGTGATTTTGAGTAAATACCATCCTGTGCCGATTCCTCCCACAAGCCCGG
CCCTTTAAGCCTGCTTGGGGGCTGTGGCTTGGGCTGGCGGGCCAGAAGCAGGATGGCAAACAGGTGTGCGAGTGTGACAGGGCAGAGGCTGGAG
CCACAGCTGTGGGAATACGAGGCTTTGGCAGGCCGAGGCCAGGAGGGGCGGGAGGCTGGTGCTGACTGATGGTCCTGTCATCCCGGTTCAGGAT
GCCACTGCCAAACTTCATGCCAATTGCTCCCAACAGAGTACACGGCTATGAGAGGGAGAGAGCTGGGACCAGATGAAGGCATCCCTGTGACGGC
CACGTCCTTGTCCATGAATTCAGGGTCAGGGTGACGAATGGCAGGGCCAAAAGCTACCCTGGAATGTCACAGGAATTTGCAGAGACCAAATGCC
CTTCTTTCAGAGGCACCAGAGTGGGGGCTCCCGCATTGACGGGTGGCTTCTGGGCCCCCTCCCTTCACTAAGACTTGGTGACTTGGTAATCCTC
CCTCCTCAATGAAACTTATCTAAGAATTGATTAGGAAGAGGGACTGGAGCATGGCAGTAACTAGCAGTGCAGACCTGTCATCTCCATCTTCCCC
TCCCATAGCGTGTGGCTCTTGCCATGTCATGACCACACTCCCGGGGGCTCGAGCTCTGGGCTTGCCTCAGCAGTCTGAGAACCACAAGTTTCTA
AAGAACAGGTATGAGGAGGAGAGACTTTTCTTGCTCAAAGACATGGATCCACTCAGAAACAGCATTCAATGGTGCTGTGAGTTTCCTCCCAAGT
GTAATGACCTCCTCTGACTTGGGCACTTCTTACAGTGACTTTGAACTTCTGAGCATTAGAGATGAGTGAATCGCAGAAAACTAGACCCCTTGTT
AGATGGATGAGCCCAGAGAGGTTAAGAGACTTGCCCAGGGTCACACAGATACCACCCATATCAGAGCGCTCAGCTTTCCTTTCCCCTCCTCCCC
AGCTTGGACACATTCCTAGGATTTGGATGTAGCAATGTGAACCGTCCTGAGCAGTCCCTTCAAAACAGCACTTAGGCGAAAGAGGGGCTGTTGG
AACAAGACAGGACAAACACCCGTGTGCCTCTGCACGCTGCTCCACCCAGTTTCTCATCTTTATATTACAGAAAAAGAGTCTCAAATAACCCAAA
CAGGCAGGGTATGATCTGCAGACAGTCTGCAGGCATCTGCCCAAGAAGCTGCCGGTCGGCTGGTCCATCCTCCTCTGATTTATGTTGTGTGTGT
TAAGCCTTAAATTGTTGAGTCTCTGGCTGGCTGCAGTGGTATTACTGGAGGGCTGGTGCATGTTTTCGGCTCACAGAGCTGGCTCCGGTACTGG
AGGTGTTGGCCCCGAATCAAGTCCAATCTCACACCTGTCTGAGACAATGAGGGCCTTGTTAGACACATCTCCAGTCGAGGAGGTGCAGGCTGCT
TATTTTTCACATTCAGAACCAGAAGGAGGGGGGTCTGGGACAAGGGGGATGGGAGAAGCCAAGGGGAGACGGGAAATGCTGGGGTCAGCTGCCT
CTCGGGCCCTTTCCCTCTCCTTCTCCCTCCTCCCTTCCCCCGCTCTTATTTAATAAACTTCTCCTTACTTTTGGAAATTAAAAAACAAACAAAC
AATACTAACAGTTGCCCTCTTATGAAGGATAATTTCCTACTGCAGAACAAGGAGCTCGTGGCCTGTTGTAGGATAAATTCCCAGTCATCATGGG
AGTGGAGCAGCCCAGGGGAGGAGTGGGGTGAATAGGCAGGGGCGCAGCCCCCACCCCACCCCAGCACTGAAACTTGAGCTCTTTGCACACTGAG
GGCGCCTGTCAGTGAGAGGTTTTCTCTTCTGGTTTTCCCTCCACTGCTGACATTTCAGTGACAGCCGCAGAAAGTAGAGGGGACTTTGTCCCCA
GCTCCATATTATTCATTGATGAAACCGCAAACTGTTCTGTCCTGGTTCAGCCTTCCTGTCCCCTGTGATCAGAGCAGACAGAGCAGGCCACCAG
GACTTACGTCTGCAGACACTTTGCAAATCCAGTTCTCAAGAGGCCCTGACATGAGGCGGCCCCGGGCAGGAGTCCTTCTGGGTACAGGCTGGCA
CCCCTCAAGGGTGATGATCGCTCTGAAGGATCATTACTTAGTCAAAGCCACCCTGAAATGACTTTCTATTGCAGGACCACACGACGTGGAGGCC
CATAGTGTAGGAGTCAGGAAAAGAGCTTCCCAGAGTTATCAAAAACCACTCTTTACTGCGAGAGCCAACAGTAAGGAGCCTGTGTAGAAGAGCT
AAGAAAATCTCACACATGTAGTGGCCATGTCTTGGGGGCTTGAGTAACTCGACAAATCTCCCAGCTCTGTTTGTGATCAGGTAGGCTCTTACCT
GAGCCGGGAGGCATTTAGGTGCCAGCAGTCACTCAAACAAGGAATGGGCAGCCCTATCCTTCTCATCCATACACAACTTATTTAAGCACTAAGC
CCCATTGCTGACTCCTAATTTGGCCTCAGCGACACAACAGGGAAAATCCATATGCTGTTTATTTCATTTGAGACTGAGGACTTACCAGAGATGA
GGTTGCGCCAGTCTGTTTCTTGTAGTATAAATCATTTGTAGCTCAGCCACCCTTGTATCTCTGTATGTACATCAGTTGACAATCCCAGAGAAAC

AAAAGGACAACTTTTCAGAGGCAGCAGAGTGACAGACGGTGAATAGCAATGAGCATAGGCAACCTGGACTTCTGGCTACACTCCAGCCTGAGTT
TGAATCCCCTCTATGTGACCTTGAGTGACGTGTGAAGACCCAATGTGCTCACTGTTGATACTTTGGCCTTCAGAGAGTCCAGGGACTGCACTGC
ATAGGTTCCCTTAGCCCTGCACTCCTGGTAGAACCTGTCTGAATATGTCACCTTTGGAGGAAAGTGGCCGAAGAAGCAGGTGTTGCTATTTCAG
GTCAGCTGATGCCAGGGAGGCCTGATACCTATGGAGACCATGGAACCACCAGTTTCCTGTCTCCTTCTCTAGCCATGCCTCCCTGCCTTGTTCT
GGGCCACAAGGTGCTCCATTCTTCCGAAGCTCATTCTTGCTCTGAAATGACCAAAAAGTCAAGCCAACGAACAGGAGGGAGGCTGGACACTGAG
GTGGGTGAATGCTGCAGATCTTCCTGCTTGATCTCTGAACACCCATGACCAGTCCTGCCCACAAGCTTTGGTCCATGCTGGATGCCTACCCAGA
AAGTTCCTTCCTCTCCTCCCCACCACATCCCCGAATCCTGCCATTCTTCAGGGCACCTCACCTGCCCCATCTCCTCCAGAACATCTTTGTCCTC
ACTGAGGCCCAGACTGACTCCCTTCCCGACTCCTGACTGATCTGTTGGTCTCTGTCACTTTGGCATTTCCCCACACATTGCCTTCTGCTGTTAC
CAGATAGGCTGCATGTTTGAGTGACGCTTCACCAACTGTCATGGCTATGATTTTCCACCATCTGTGCTGTAAGACAGTAAAAACTCAACCACCA
CCACCGAGATGCCATCCAGGCAGGCAACCCTGAGCGTGCCCCCACCCGCTACACACTCTTCTCCCCAGAGCACATCAGGGTTCTGAGATCAACA
AGTTGGAAGGAGACTTCCAGGTGGGCAGGAACGCTCTCTCCTTCCCAGGACCCCCACGAACCTAGCCCAGAGCTGCAGAGAAAGGGGTGCATGA
GTCGTTGAGGAAGGATTTTTCCTTGCTCCTGGGACAGCAAGTCAAAACTGTTTGTTTTAGGTTTTAAGTTAATTTCAGAATATCCTGCCCTAAA
CAATTTCTTTCCTTACATAGCACCAACTCTCTGCTGGGGCCCTTTGGCTGTTTCCTTTCTCCATTCTTTCCTTCTCCTTTCCCAGATCCCAGCT
GGGAACCTGGGGGGAGAGCCTGGCTGGCACCACCTGCCCTTTCTTGGGCCATTTCCCTTCTTGTTTGTGATGAGGAGGAGCCTAGGAAGTCTCC
ATGCTTCTTGGCTTTCTGGCCCTCATCACTTTCACAGCCTTCTGCTAACTAAGCTAGTGAGCCCCCCTGCCCTTTCCCATTCCCTCTCTGAGGC
CAAACTCTCTCATCCCAGCTTCTTTCTTTTCATCTTCCTTCCTCTAAAGACTGCTCAGCCTCATCGGAGGCTGCCTTCTGAATCCTGACCCTGC
TTTCCACATTTTGTAAGACATCTCGGCCCCAGAGTAAGAGTGCATGATTTACCTACCACTTCCTTGGATCCCAACCCCTACTCACTGCTAGCTC
CTGGCAGTGGCGTTCTTCCTCCTTCCTTGGTGTGCAGATGTGCCCCTGTGTGGCCTCCTTCTCTAAAAGCATTCTAGATTGTTCTTGGTTCCAG
CACTTCTGAAACCCATCCTTCCAAGTTTACTCTTTTTCTTGCTATCCCTCGTATTTTCCCACTCCTCATGGAAGCTTCTTTCCCACACCCACCC
TGTGCCCTATGGCGGGGGCTTCAGGACCCCCAACCCCAGCCCTGGAGCGTTTCAGTGCTGCCATCCTGCTGGCTTCACTTGGTGCTTCCTCCAC
AGCAACTACAAAAGCCAAGGAACCTTCCCCAGTCCCTCCCCTCCCCAGCATTCTCCTAGCAGAATTACATTTTAATTTTCAGCTGAATGGATGA
AGAACCATTCCAACACCTCTGTGTCACCCACAGTTGTCTAAAACACACAAACAAAAAAAAGTCTGGGTCAGCAGAGGGGAGACCATGGTCACTC
TCCTTGTCAACCTTCCCTTTGCCCATTCTTTGTTTTCTCTTCCCTCCACCTCTGTTCCTCTGAAACCTCTTTTGTTCAAATCAAGGGGAAGGTA
ATTCAGAGGTGCTGTTGAGACTGGTTTGCTTTTTAATTTTTTTTTTCAAAGAAGACGGGAAGTTCCTGTTTTTTGGAAAGGTTGTTCATTTCCA
AAGAAGTTACACAGCCAGTCAGCTATAGGATGATTCCTGGCTGCATTTTTTCGGGGTAGTACACAATACAAAAAAATAAGTCAATGAGAGAGAG
AGAGTCAGTCAGTGAACACAAAGGGAGATGTTATAATAGGCTTTTGTTGGTACTTGCATTTTCTTGTTGAAAAACAGAGCAAAGACCCCGAGGT
GCTGAGGTGTGGACAGAAGCCTGATGTTATCAGGCCCCCAGAAATCCTGCCTGCAGTCCAGTGGCAGGCAGGATCCAGAACTGGAAAAGACGGA
GGCAACTGGTCCTGCTCAGCACAAACGGTGCTTTTAGTCTTTCGTAAACAGCCTGTGCCCCAGGGCTCAAATCCTTCAAAAGTTTGCCTGGGTA
ATTGCATTTCATTGCTGTCTGGCATGTGCTCATCAGTCTAATCTGGAGGTTCAGACAGCCAGGCCAAAGCTTGCGAGACTGGAGGAGAGCGAGC
CTGTGAATTTAATCCACTTGAAAGACAGAATAATACAAGTGCATCTAACTCATTATTTTAAGTGATGCTAGTCGAAAAGGGGATGGTGCTTTCC
ATAAAAGCATTTAAAATCAGCACGCTGCAGTTGCAGCCACTTGGCAGTTTAAGGCCATTAGAAGAAAAGGCGCACACAGGTGACAGTGTGATCC
CTGTCGCCGTCTGCTTGTCCCTGAAAGCCTTCCTCCTCCCCACGACCACCTCAAAACACAGAAGGCAAAAGGAATGGTAACTTCCATCCCTAAT
TTTGACTTTGGGTTATTTGTACATTTACAGCAACAGACACCAACTTTTATTTGAGATTTGGGGTCATTTTGGCATCGTTTCAGGGTGGAGAGAA
GACATAAATGAAGTTAGGACTTCCCAGTCCATCTCACCAAGCTCAGGATCTCACAGAGCTATAAGCAGGCAAAGGTGTTCCCCACCAGAACCAT
CTGGACAATGTGCTTTCCAGTGACTTCTTTTTTTTTTGAGGTTTAGCTAGGTCTTTTTGTTCTGTCAGTACATGGTAACTAGATTGATGGGAGGG
TTATAGTTTCTAACTATCATGTAGTTAAAGCAGTAGTCTACAAAGAGCCAGAAGGTCTGTCCCTGCTCTGTTGCTATCTGCTGTGGAGAATAGG
GGGAGTCCCTTCACCATTCCGCACTGCAGCTTTCTCTGAGATGGGGCTGGCATGGTTGTCTCTGCTGTCTCGGAGGTTGCTTTCTGCTCTATCA
TTCCATAAGACATTAGAATGAAACCTTAAGTAATGTTGACGGTGATTTGCGTCATTATCTAGTTACATGTGACTCATGCCCAGGAAGCCCAGGA
GAGGCAAGTGCTAGCCTGTACCCTCCCAGATGGCAAAGCCGACGGTCAGCTCAGGAGCAGTCTTGTTGGTAGTTCACACCTGCAGCTCACCCAG
GGCTCAACATGCCAGCTCTAAGTCTGGGTGCCAGGCCATGAGACTGAGAGAGCAGTCGCCTTAAACCTTACATGGGGATGGAGTTTCCCCCTGG
GTGCATCATGACTGCAGCCACCCAGGATTCTCACAAGGGCTCCAGAAAGTGCTCACCACACACCTCATCTCCTCATACCCCTCAGTTCATTTGT
ACTGTGCCCAGGGGACAATGCTGTGTTAGCTTTCCCCGATCCTGAAGAGCACCTCTAGAAGTCACATCTTCCGTCTTGTCATCATGGTAGCTGA
AACCATTGTGGCAGTGTGTGCTTTCCCTGAGCAAGGTTTTCTTTGACACTTTAGGGCACGCTTGATCTTGTGGGCAGGATCATTCTCTGTTGTA
GGGGCCATCCTGTGCATTGTAGGATGTTGAGCAGCATTCCTGGCCTCCACGTACTAGATGACAGTAGCACTCCCCCTTCCTCAGTTGTGGCAAC
CAAAAATGTCTCCAGACATTGCCAGAAATCCCCTGGAGGAGAAATCACCCGTTTGATGATCGCTATTTAAGAGTAATTGGGAAATTCACAAGGA
TCTTCTAGTCAATATACACAGGATCTCAATGCCTGAAAAAAATGTGAGTTACTTAGCTATCTAAACTTGGTAGTAAGTCAATTTTGACCCTTCA
GTTCTGTAGGTCCTAGCATTCCTGTCTTCCATAGGTCATCCCTCTTGTTGAGCAAGAGTTTCATAGTTGTCTGCTATCTCAACCTCTACATTTA
ATTTTTTTAAAAAAAATTACTCCATTTTAGCCCAAGTATATGGCTTCTATGAGAAAGCCTTCCTTGGCCTTGTAAATCAAAGCAGTTCTCTGGA
GGGAGGTTTCCCACTGCTGGGCTGAGTATCATCTTTCTCAGGGTGACCTCATCTATTGAAGTATGAAGGTTGTATTTGAAATGCCATTTACTTT
CTCTAAGTCAATAAACGAAGCTGTGGATCTGTAGATCATCAGAGGTCTGCTTATTACCAAGCGGTTTTGTGTGTGTCATTTTTTAAATCGAGAT
CTGTGTTGGAGTTTAAAAGAATTCTGGCAGATTTCCATTTGCCTTTCTGAATCAGAGTTTGGGGTGAGCGAGTGTAGATTGCCCCTAGATGAAT
CTGACTTTATTAGTTTGTGTCCTTTGTTCAGAGCACCAGGGATGAGCTTATGAAAGCACAAATGGCTCTTATCTTCAAGTGTTTCCTTTATGCT
GCAAATTCCACCTCACCAACCTGTGTTATTAACCCACTGCAATCCCAATTAGTTCACATCAAGGTCAACTCTTTGGGGTGTGCAAAATGGCTGC
AAACTTAAGTGAACAAATTCCCCTTGTGTAGCTCTCACATGAAGGTGGGGGAGAAGACTGCAGCAGGGGAACTTAGAAGAAAGAGGGAGTTTTC
TGATACCATAGAAGAAAGTGATAGTGATTCCCCTTGGCTCACAAGCCAAAGAAATCCAATTATTCCAAATAATTCAAAACTTGCATAGGAACTT
GTCACCAAATGAGGGAACATTTTAGCCTCTTATTCACTCTGTTGCTTGGTGGCAAATATTTAAGAAATTTCAAAAAATAGAGAGGTGCAAGAGA
GCTATTTCTCAGGGGCATGGAGGTTTCTTGGGGGCATTTCTCGGGGGTATAGAGGGCTGTTTCTTGGAGGCTATTTCTGTGCATGGAGAAGCCT
TGAGTTTCAGAGGTATAATAAACACTACTCCTCCAGAAATATGTCTGTGAAAAATAAGCTGGAGCGGGTGGGTCTGCAGGACACTGTGTTTAGG
AATGAAGGCTGCCTGTCCTGCCATCTCTCAGGAGCTCCCATCAGAACAGACAGTAAAGACAGGAATGGCATGTCTCCAGTTGTGGGGCAAGGCC
CCTCCTAGTGTGAAGAAAATATACTTCCTGGATCTATCATTATCTCTAGCATATCAGAGGGGGGAATAAAAACAACTGGGGTGGCAAGGCCCTG
CTGAAAGAGAAACTCATTGTTCTGCACATTCAGAGACTTCCTAGTTGTAAAGCCGTTCAGAGCTCTTGGAGGTGAAGGGGCAGCCAGGGAATCA
CATAGAGTGAAAGACCTGTGTGCAGCGGCCAGGTCAGAGGGCGTGTAGAAGACGACATGAAGCATTCCCACAGGGCAGTTCCCTGAGGTTCTGT
CCTCCAGCTCTTGCTGCAAGGAATTCTAGAAGCCTTGGCCTGATGTGTGGGAAAGGAAAACAAGGTGAAGAGGATGCAGGTAGGAAAAGAAGAG
CTGTGACAAGGTAGTCAGATGGGAGGACTGCATGAGAAAAACAGAGGAAGAGAGCACAGAAGCAGCCCTTTGATTTCACTCGCGTTTATTGAAG
GGGACGAGGCACTTCCACTTGGGGAATTCTACTTCCCTTTGTCAGGATATCCTTCAAATTGGGAGCATGGAATGGAAGCTCTTAAAGAAAGAAC
GGTTGCCATTCATTGTGGGTCACACTTCACAAGACAAAGAGCAGTGAATCCTCGATTTGTAAAATGCAGCTTTCAGAATCTGTGTTGTGGCTGG
CACGGTGCAACACTGCTGTGAGGCCCTGACGCAGCTGTGTTCTGCAGGGTGGCTATGGTGCTCCTTGTGAAGGAGGAGGCTGCTGCTCTGCAGG
AGGAAGGGCTTATGTTGCATCCTAGCGGTGCATGCTACCCCGCTGGAATAGTGCACCTTGGAACTCTGGCTGCCTAAGGAAGGTCTCATTTCTG
GTGGCTTTGTGAGACCAAGCCTCTCCCTCTTCTGTTACCTGGAGCAACAACCAGCTAAGCCAACAGTACTCTCCAGACACTGTTATCCTTTCCT
GGAAGGGCAGGGGAGAGAAGACTGTTTCCTGCCTTCAAGGTGCCAGCTACTGCATTGACAATATCGGGCAGAGGGGCACATTTCACCCTCCCAG
GAATCTAAGGGACAGATGCAATAACATCTCCTTATGGGGGGAAACTGAGTCTCCAAGGCATTAAGTTACTTGCTTCAGCACACTGTGAGTGAGG
GGCCAAGCTAGGGTCTCTGTCCTTACCTCTCAGACTGCAGAACTATGCCCTTATTGTATCCTTACTGAAGCCCTTTTGGCTTTTAGAGAGACAG
CTCTGGGATGAGGTTCCCAAATCCTGAAAATGTTTGGGGCCAGAACAAACAAAAGCATCTTTATGTTAAGCCATATTTCATGTTTATTGTTTTG

AATTCTCCTTTTCCCCCATTCATATGAGTTTTTCTTCTGATTTTATTAGAATGCCATGCCTCAGAGTTTGCTGCTTAAAACCAGAATCCCTGGC
ATAAAATCCAATAAGCCTGCCTTAGGGCCCATGTCATATGGAAGCAGAAGACAACAGAGACTGCTTGCTGGGCTTCAAGCCACTCTAGAATTTT
TCAAACAGTTCTAACATTTTACAACATCAAAAAAGTGCCAAAGTAAAAACTAAGGCTGCAGCTAGGAGAATGCCCACTGAGAAACCCGTGGTTG
GGTTTGTGTAGAGAGGAAGGCTTTTGAGATCACTGCTCCATGCCCCCTCGGCCTCTCCCACCAGAGGTCTGGCTCAGGGACAGCACTTGGGCAC
AGAGAGCTGGGGCAGTGGCAGAGATGGATGGGGTAGTCACCAGAGGAAGCCCAGGCTGCAAACTGGCATGACACACACCTGTGTGGAACAGATC
TCCATCTGAGCTGGGCTCAAAAGCATCGTATTCTCCAATATCGACAACTCATAGGTTAGGGGGTTCATCATTTTGTAGCCTCTGCAGTCCCAGA
CGTAAAGTCACTTCTTTTTTTTTCTTGCGTGCTGACACCCTAAGGCATTACATGGACCCTGGCAAATCTCAGCCATGTTACTTAACATGATCTG
CCCCAGCGACAGCTCTTAACTGTATCTGTTTAGCCAGAGATATCACAGGTGCCTCTCTAGGAAATCCCACCGGCCCCTCATCAGCACAGTGGAG
ATTGGCTGTAAAGCACGGCCTTCCATGCCCAGCCTGGACTGCAGGTTGGAGATGACAGTCTCCCAACCCAGGCCTTCCAAGCATAGACTATCAA
GCGTGCACAATCCTCTTGATATCAGGTGCCACCTCAATGGAGTGTTCTTCAGAAAATTCTGTTTCTTTAGCTGTGTGCAGTCCTGGGAGATGCT
GTGCCTCTTCTGCTTGAAGCTTCCCAGCTCCCACTTGAGGTGTCAGTGATTTGTTTTACTGGAGTGAGTATCCTCATTCTCCACCAAGGGTCCA
GTCTCAGGATGGAGGCTGCTTGAGATATCCCAGCCCTCAACACAATATTTCTGGCTCATGTTTTTCAAGGAACTAAGCGGGGCAAAGGTGCCAG
AGGAGTAGAAGGGAGCAGAAAGTTGTCTTTACCCTCCTGGAGAAGAAGGACATGGAGGAGTGGAAGGAAATAAATAGGGTGGCCATAGAAGAAT
CTAAACATCCATGATGTGCTGGTGTTGCAGGAATGTACCCAACCTGTCTGTAGAGCTCCTTCAGGCCTGGAAAGTTGTATACGGGGGGCAGAGG
TGCAGAAAGTGCACAGTGCAGAAGATCCTTATGGAAAAGATGTCTGCAACAAATGTTTATTTAACAAAGTACAGAGAAAGAATCTGTCTGCAAG
GGAGGAGGCAGCAGAAACCAGAAGGTGCCTTCTGTTCCCTCTGAACTATGGTCCCTCCAGCTGTGTGCACTGAAGGCCACTCTCCCTCTGCCTC
AGGGACACGATGCCAACTGAGAATGAGACATGTTCTAAAAACACCCATCTTTTCTGGAAGCTAGTGACCTATCCTTGAACCCTCCCTCCAAAAG
CACTCTGCCTAAATACGTAGCCCTTTCCCAGACGTGTCTCAGACTCATCTGGCTGAGGGTAGCAGCCTCGTGGTGCAGGGTGAACTGTTTCCCC
TGGGAACCGTCTGACAGTGCTAATGAGGAATTGCATTTTGCGTTTATAGAGCACCTTTCATCTGTGGATCTCAAAGCTGCCCCACAAACATTAA
TTAACTCTCACACCTGTGAGGCAAGTGAGCCTGGTTACCCCCATTTTTAGAGGTGAGGAAACAGAGGTTTGAAAAGAAAAGGACTCCAGGGTGA
ACCAGCAGGGTTGGGGGCGGCCTGATGTGAGGAACCAGCATTCTTGATTCACAGGGCCCTGACCACAAAGCCACAAAGCTTCCCCGGCGAGGTG
ATGAATACGGGTCCCGGAAGCAGGGAGTGGTGGAGAGGCGGACACAGGGCTCCCTTCTTCCTTCCCGCAGGCAGCCTGCCACCTCCCAGGCTGG
CAGGTCGGCAGTGAGGATGGGATCCCTCAAAACCTGAGGCCTTTAAAACAGCATACCCAGGCAGGGTTCTGCCCCGGCTTGGTCTGTCTGCTTC
TCTTCAAAGTAATTGCTGGAACAACGAATGCATCTGAGCTACACATGACTAACCAAGATGTCTGCAGCCGGCCAGAGACGAACGGTTGGCAAAT
CCTGGAGCTGTTTCACAACCTCCCTTTTTTCCAGGATCCAGAGCTGGTGCTGACTGACTCATGTTATCATGGGATTTCAATGATATAGCAACAG
TGTGCTGAGCCGGTGTCTGCTACCTGGGGGTACCTGTAGTAGGAATAGGTGACTGCTCTTCTTACTTGTGCTGTGCCGGAGCTTTGCTCCCTGC
TGCAGAGGCCAGAGGAAACACTGCTTCTCAAAGACAGTGGAACTTTCAGGGAAATGTCCCTTTCAGAGCAGAGTCACCCACCCCCAGGGACTCT
GAAAGGCCCCTGACATCACACACCTCTGACAGATGTGATGCTGGGAAGCATCTGGGGTCACCCCCTTTGTCTGCAAGGGGAGCCTAGGCCTTTC
TTCCCAGGGGTCCCAGACAGTGAGATGCAAACCACCACTGGGGCTCGCCCTAACACATCACCCTGGAAACTGACTCACATCTCTGAGTCCTGAG
TCACATCCTGTTGTGTGTTCTGAGGTCTCCAAGAGGGCATTACACCAGCTCCCCATGACTGAGGTGAATCTGGAGGGAACCCTGGGAACGTCCC
TACCTTCCTCCAGGATGAAGGAGGGAAAAAATTCCTCCAGGGAAATAACCAGGGCTGCCCCTAGGGTTTATATGTTCCACCAAGCTGATTTGCCT
TTTTCAAAAATAGATGGTAGAACCCTGTGGTCTATGTGACTTTTATTTTTAAATAGCTCTGAGAGATGACTGAAAGACCTGGCGTTTTAAAGAT
GTCAGCCACACAATCAAGGAAGGGGCTTTCTAACTATAACCTTCTCCAAGCCCAGGATGAAGGGTGCCACCGCTCAAGGGGTGCTGTTGGAAAC
CCAGCTTCTGAGGGTGGGTGTTTAAAAGACCCTAGAGTGGACAGTCAGAGGAGGGCCGGGAGGGGTCTCTATCCATCTTCTCCCAGCGCCTGTG
GGGAGCACGAGGACAAAGAGGGATGTTTTGAACTTTCAAAGAACAAGATATTTTGTTCTATTGATTTTGTCTATTATTTTCCTGTACTTAATT
TCACTGGTTCCTAGTCTAATTTTTATTATTTCTTCTCTTCTGCTTGCTTGAGGTCTGTATTGCTATTTTCTCCAGTCTCCTGAGGTGGAAGCTT
CAGTGACTGATTCTGGATCTTTCTTTTCTAATATATGTATTCAATGCTATAAATTTCCCTCTAAGTACTGTTCTATCTGCATCCAAAAATTGTA
ATAAGTTGTATTTTCATTTAGTTCAAACATTTTTTAATTTCTCTTGAGACTTTTTATTTGACTCATGTCTAATGTAGAAGTATGTTGTTTAAT
CTCCAAATATTTGGAGATTTTCCAGTTATCTATTATTGGCTTTTTAATTTAAATCCATGTGGTCTGAGAAAATACTTTGTATGCTTTCTATACT
TTTAAGGATCTTAAAGTGTGTTTTGTGGCCCAGAATATGGCTTATCTTGGTGAATCTTCCATGTGAGCTGAAGAATGTGTATTCTGCTGTTGTT
AGAGTATTCCATAAATGTTAATTAGATCAAGTTGACTGGTAGTGCCGTTTAGGTCAACTGTGTCTTAATTTTCTGCCTGCTTGATGTATCAATT
ACTGAAAGAGGGTTGTTGAAGTCTCCAATTGTAATAGCGTATTTACCTATTTCTCCGTGTAGTTCTATCAGTTTTTGCCTCATGTTTTTTGACA
CTCAGTTTTTAGGTGGACATATATTAAAGATGCTGTCTTCTTAGAGAATTCACCCACATTATCATCATGTAATTCCCTTCTTTATCCCTGAAAA
TTGTCCTTCCTCTGAAGTCAGCTTTGTATAAAATTAACATCGCTGCTCTGGCTTTCTTTCAATCAGTGTTAGCATGGTGTACCTTTTTCCATCC
CTTTACTTGTAATCTGTATAAATATTTTTATTTAAAATAGGTCCCTTGTAGACAATATGTAGTTGGGTCTTGTCTTTAATCCACACTGCCAATC
TCTGTCTTTAAATTGGTGCATTTAGAGTATTCATATTTAACCTAAGTATTAATATAACTGCAGTAGTATCAATCATATTTATAACTTTTATATT
TGTTGCACCTGATTCTTCCCCCCACACCTCTTTTTCTACCTTTTATAGGTTTAACTGAACATTTTATATGATTCCATTTTATCTCCTCTGTTAG
CATATTAATCATTCTTTTTAAAAATGTTTTTAGTTACTGCCCTAAAGTTTGAAAAGTACATGTATAACTAATCTACATCTAGCATCAAATAACT
ACCACTTCTTCCTTCCTGTTTATATCATTACTGCCTTTTATTTCATTTATCCACATGCTATAATCACTCAATACTTTGTTACTATTATTGTAAA
CAGTTATCTTTCAGATCAGTTAAGAAAAATAAAACTTAATTTTACCTTAATATAGTACTTTTCTAATGCTCTTCCTTTTTTATGCAGTTCTTTT
TGACATTTCTCATAGGGCAGGTCAGCTGGCAATGAATTATTCCAGTTTTGTTTGTCAGAAAATATCCTTATTTCTTTGAATTTGAAGGATAATT
TTGCTGAATGCAGAATAATAGTTTGGTAGCTTTTTTTGTTGCAACACTTCATGTATTCTCCTTTCTTTGTGTTTGCATGGTTTCTGAAGAGAAAG
ATAATGTAATTCTTATCCTTTTTCCTCTATGGATAAGGTGTTGGCTTTTCCCCCTCTCTAGCTTCTTTCAAGATTTTCTCTTCTCTTTGGTTTT
TTGCAGTTTAAATATGATATGCCTGGGTGTAGATTTGGTATTTATTATGCTTGGTGTTCTCTGAGCTTTCTGGATCTGTGGTTTGGTATCTGTC
ATTAATTTTGGAAAATTCATAGCCATTAATACTTCAAGTATTTCTTCCACTGTTTTCTTTTTCTTCTCCATCTGGTATTCCAATTACACATTAC
ATCTTTTGAAACTTTCTCACAGTTCTTGGATGTTCTTTCTTTTTCCTCTTTATCTTTTTGTTTGGTAAGTTTCTGTATCTTCAAGTTCATTGGT
TCTTTGCTTTGTCATGTTCTGTCTACTAAGTAAGCCATTCCTCATTTCTGTTAGGGTGCTTTTGGTTTTTAGAATTTGCTTTTGAGTGTTAAGA
GTTTCAGGCTGGGCACGGTGGCTCATGCCTGTAATCCCAGCACTTTGGAAGGCCGAAGTGGGTGGATCACCTGGGGTCAGGAGTTCGAGACCAA
CCTAGCCAACATGGTGAAACCCTGTCTCTACCAAAAATTACAAAAAAAAAGAAAAAATAGCTGGGCGTGGTGGCAGGTGCCTGTAATCCCAGCT
ACTCGGGAGGCTGAGGAGGAGAATCACTTGAACCCAGGAGGCGGAGGTTGCAGTAAGCCAAGATTGCGCCACTGCACTCCAGTGTGGGCGACAG
AGCGAGACACTGTCTCAAAAAAAAAAAAAAAAAAAGTTTCCATCTCCCTGCCTACATCATCCATCTCTTCTTGCACCTTGTCTTCTTTTTCCACT
AGAGCCATTAACATGTTAATCATTGTTAAATTCCCTGTCTTGTAATTCCAAAATCTGTGTCACATCTGGGTCTGGTTCTGATGCTTGCTTTATC
TCTTCAGACTGTGTTTTTTCTTGCCTTTCTTGTAATTTTTTATTGAAAGTTTAACATGATTTATCAGGCAATAGGAACTTAGTAGGCCTTTAG
CGTGAGTTATTATTCTCATGTACCCAAGAGTTGGGCTGTATTTAATGTTTTCAGAAGGTACCAGAGACTTCAAATTCCTCTAGCGTCCTTGTTT
TTGTCTCCCATGTCATCTGTGAGCTTCTCTATGAACTCCTCCTTAGTCAGTATGTTGAAGCTCTTTCAGCCATAACCCACTGTTATAATAATAT
ATTGGATCCTGTGAGAATCTGGTGGAGTTCCTGAATGAAAAACCCACAACAGTGCACTTCCTCCTGAAACTGTAGCCCCTAGGAGTGTCTTATT
CGCACACTAGTCTGTACTGAGCCTCTAGCAATCTGTCAAAATCACCATTAAGTGTTCTCATCAGTTTATGAATTCAGAAATTCTGCTCCCAGCA
AGCAGACCTCACTATGATTCTCTATATTTGCCTGCTTCTCAAAATTTGGGGTTGCAGTTTGCCCTGCAACTTCAGCTTTCCATTGGACTTAAGA
AAAGTCATGGATTTTCAGTTTGTTCAGCATTTTTTCTTATAAAAACAAGAGTGATGACTCTCAAGCTCTTTAAATTTTGGAACTGAAACTAGAA
GCAACAGGACATTCTGACATGAATTATTTAAAAGGGTCATTGTTGACTCTAGAGACATTTTAATATTGCTGCATCAAAAGATAAAAGCATTCTC
CTTTCTTCTTGTGTGATATATGCCGTGTACACCTCTGAGCTCACCACTAACCTCAACTCTACCTTATCCCTAACTTCCCATTTCAAATGGAAGG
GAATGGGGATCAAGGAGTAGAAGGCCTGTTTTACCCATTATTGATGATTAAAAAGCTGAAAATAACCCATCACAAAATGGCCTCAGTAAAGTGG
CTGCATCAGACATCATTTAGCCTGGAAAACCAGTATGCATAAAGGCTCAAATTTAAATTTTTGAATCCAGTGTTTTTTATTTATTATTATTTTT

TTTTTTCTGAGACGGAGTCTGGCTCTGTCACCTAGGCTGGAGTGCAGTGGCACGATCTTGGCTCACTGCAAGCTCCACCTCCTGGGTTCATGCC
ATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGCCCGCCACCATGCCCGGCTAATTTTTTGTATTTTTAGTAGAGACAGGGTTTC
ACCGTGTTAGCGAGGATGGTCTCGATCTCCTAACCTCATGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGTATGAGCCACTGCG
CCCGGCCCTGAATCCAGTATTTTTTAATAGAAACATGAGTTGGTTGAGATACTGAGTTCCTGCCTTCTCCATCCTAATCCCAAATTTCCAATCT
TTGGAAATTTGCCCCTTTACCATTTAATCTCCTGAGCCCAGCTCCTCTCCAGCCTGAAGAGTGTGTCTGTCAAGACTGTAGCTGTGAACAAAAC
ACTATTACTTGAGCCTTATCCTGGAGCAAATGTGTGTGGTCTCACCAATGAACATCAGATAAGTCCCTTGGCATGGATTTCTTTTCCTTTTTAG
TAATACAATCATAAAGGTTATTCAGACTTATTGAGCATTTACTATGGCCAGAAATTGTGATACTTGCTTTCCATATAGTTTATCTCACTTACTC
CTATTACCCTTTGAAGTCAGAATTCTAACTATGAATCAGAGAAAATAAGTGACCTGCCTAAGGTCATCCAGTTGGTTTATGGTGAAGGCAGGAT
GCAAACTGAAATTTGTCTGTGATTTGAGTTCGGTGCTTTCCCTAGTCTCCTCCTCTCAGAGGCAGAACATAAGCATGTAATAGATACCACTAGG
GTTCTTGTTTCTACCTTGGGAACAGCTGTTTGCAAGTCCAAATTAGGCAGCTAATCTAGCAGTTAGCCCAGATACAGCCCTTGGGCACCCTAGT
AGCTGTAACTTCCAGAAGGCAGGAACCTTCCATTCACTAGTGAGTCCCCAAAACAGTGGCCCAAGTGAAGCAAAAATGTTTGTTGGAAATATGA
GTGAATGAAAAAGTAATTTCATGAACACATGAATGAATAAATGAATGAAGCAACACCCAGTATGATGATTAATGCCACAGGAAGATGCCTTTCC
AAGCATCACAAGATCCTGGGATCTTCACTGACTGTAAGTGCCTGTGGGGCAGGGACCATGTTGGTCTTATTCATCACTCTCCTGCCAGGTAAAT
TAGCACATTCCTGGCACACTGTAAATGTTCAATAAGCTTTTGTTCTTTTAGATGGATTGACTTATCAGAGGCAACTCTTTCAAGAACAAGTAGC
CCTGTGCTCTGGAGAATGATTTACAGTGGTTCTCTTCCTCAGCCTGGGGCCTTTTCTGGATAACTCCCATCGTACTCTCCTCTACTTCCTCTTC
CTAGAATACACAAATTTATTATTACAGGCACCACTCTTCACCCCACATCTGATTC

HUMAN SEQUENCE - mRNA
GCGGGCGCGGGCGGGACGGGCGCCCCGCGGCCGGACCCAGCCAGGGCACCACGCTGCCCGGCCCTGCGCCGCCAGGCACTTCTTTCCGGGGCTC
CTAGGGACGCCAGAAGGAAGTCAACCTCTGCTGCTTCTCCTTGGCCTGCGTTGGACCTTCCTTTTTTTGTTGTTTTTTTTTGTTTTCCCCTTT
CTTCCTTTTGAATTAACTGGCTTCTTGGCTGGATGTTTTCAACTTCTTTCCTGGCTGCGAACTTTTCCCCAATTGTTTTCCTTTTACAACAGGG
GGAGAAAGTGCTCTGTGGTCCGAGGCGAGCCGTGAAGTTGCGTGTGCGTGGCAGTGTGCGTGGCAGGATGTGCGTGCGTGTGTAACCCGAGCCG
CCCGATCTGTTTCGATCTGCGCCGCGGAGCCCTCCCTCAAGGCCCGCTCCACCTGCTGCGGTTACGCGGCGCTCGTGGGTGTTCGTGCCTCGGA
GCAGCTAACCGGCGGGTGCTGGGCGACGGTGGAGGAGTATCGTCTCGCTGCTGCCCGAGTCAGGGCTGAGTCACCCAGCTGATGTAGACAGTGG
CTGCCTTCCGAAGAGTGCGTGTTTGCATGTGTGTGACTCTGCGGCTGCTCAACTCCCAACAAACCAGAGGACCAGCCACAAACTTAACCAACAT
CCCCAAACCCGAGTTCACAGATGTGGGAGAGCGTGTAGAACCCTGAGTGTCATCGACTGGGCCTTCTTATGATTGTTGTTTTAAGATTAGCTGAA
GATCTCTGAAACGCTGAATTTTCTGCACTGAGCGTTTTGACAGAATTCATTGAGAGAACAGAGAACATGACAAGTACTTCTAGCTCAGCACTGC
TCCAACTACTGAAGCTGATTTTCAAGGCTACTTAAAAAAATCTGCAGCGTACATTAATGGATTTCTGTTGTGTTTAAATTCTCCACAGATTGTA
TTGTAAATATTTTATGAAGTAGAGCATATGTATATATTTATATATACGTGCACATACATTAGTAGCACTACCTTTGGAAGTCTCAGCTCTTGCT
TTTCGGGACTGAAGCCAGTTTTGCATGATAAAAGTGGCCTTGTTACGGGAGATAATTGTGTTCTGTTGGGACTTTAGACAAAACTCACCTGCAA
AAAACTGACAGGCATTAACTACTGGAACTTCCAAATAATGTGTTTGCTGATCGTTTTACTCTTCGCATAAATATTTTAGGAAGTGTATGAGAAT
TTTGCCTTCAGGAACTTTTCTAACAGCCAAAGACAGAACTTAACCTCTGCAAGCAAGATTCGTGGAAGATAGTCTCCACTTTTTAATGCACTAA
GCAATCGGTTGCTAGGAGCCCATCCTGGGTCAGAGGCCGATCCGCAGAACCAGAACGTTTTCCCCTCCTGGACTGTTAGTAACTTAGTCTCCCT
CCTCCCCTAACCACCCCCGCCCCCCCCCACCCCCCGCAGTAATAAAGGCCCCTGAACGTGTATGTTGGTCTCCCGGGAGCTGCTTGCTGAAGAT
CCGCGCCCCTGTCGCCGTCTGGTAGGAGCTGTTTGCAGGGTCCTAACTCAATCGGCTTGTTGTGATGCGTATCCCCGTAGATGCCAGCACGAGC
CGCCGCTTCACGCCGCCTTCCACCGCGCTGAGCCCAGGCAAGATGAGCGAGGCGTTGCCGCTGGGCGCCCCGGACGCCGGCGCTGCCCTGGCCG
GCAAGCTGAGGAGCGGCGACCGCAGCATGGTGGAGGTGCTGGCCGACCACCCGGGCGAGCTGGTGCGCACCGACAGCCCCAACTTCCTCTGCTC
CGTGCTGCCTACGCACTGGCGCTGCAACAAGACCCTGCCCATCGCTTTCAAGGTGGTGGCCCTAGGGGATGTTCCAGATGGCACTCTGGTCACT
GTGATGGCTGGCAATGATGAAAACTACTCGGCTGAGCTGAGAAATGCTACCGCAGCCATGAAGAACCAGGTTGCAAGATTTAATGACCTCAGGT
TTGTCGGTCGAAGTGGAAGAGGGAAAAGCTTCACTCTGACCATCACTGTCTTCACAAACCCACCGCAAGTCGCCACCTACCACAGAGCCATCAA
AATCACAGTGGATGGGCCCCGAGAACCTCGAAGACATCGGCAGAAACTAGATGATCAGACCAAGCCCGGGAGCTTGTCCTTTTCCGAGCGGCTC
AGTGAACTGGAGCAGCTGCGGCGCACAGCCATGAGGGTCAGCCCACACCACCCAGCCCCCACGCCCAACCCTCGTGCCTCCCTGAACCACTCCA
CTGCCTTTAACCCTCAGCCTCAGAGTCAGATGCAGGATACAAGGCAGATCCAACCATCCCCACCGTGGTCCTACGATCAGTCCTACCAATACCT
GGGATCCATTGCCTCTCCTTCTGTGCACCCAGCAACGCCCATTTCACCTGGACGTGCCAGCGGCATGACAACCCTCTCTGCAGAACTTTCCAGT
CGACTCTCAACGGCACCCGACCTGACAGCGTTCAGCGACCCGCGCCAGTTCCCCGCGCTGCCCTCCATCTCCGACCCCCGCATGCACTATCCAG
GCGCCTTCACCTACTCCCCGACGCCGGTCACCTCGGGCATCGGCATCGGCATGTCGGCCATGGGCTCGGCCACGCGCTACCACACCTACCTGCC
GCCGCCCTACCCCGGTTCGTCGCAAGCGCAGGGAGGCCCGTTCCAAGCCAGCTCGCCCTCCTACCACCTGTACTACGGCGCCTCGGCCGGCTCC
TACCAGTTCTCCATGGTGGGCGGGGAGCGCTCGCCGCCGCGCATCCTGCCGCCCTGCACCAACGCCTCCACCGGCTCCGCGCTGCTCAACCCCA
GCCTCCCGAACCAGAGCGACGTGGTGGAGGCCGAGGGCAGACACAGAAACTCCCCCACCAACATGGGGGGGGCCTCCTGTTCGCGACAAGCCCG
CCGGGATCCCGGGCCCTGGGCCCGGACACCGTCCTGGGGCCGAGGGCGCCCGACGGACAGGATCTCGCTGTAGGTCAGGCCCGCGCAGCCTCCT
GCGCCCAGAAGCCCACGCCGCCGCCGTCTGCTGGCGCCCCGGCCCTCGCGGAGGTGTCCGAGGCGACGCACCTCGAGGGTGTCCGCCGGCCCCA
GCACCCAGGGGACGCGCTGGAAAGCAAACAGGAAGATTCCCGGAGGGAAACTGTGAATGCTTCTGATTTAGCAATGCTGTGAATAAAAAGAAAG
ATTTTATACCCTTGAGAAAAAAAAAAAAA

HUMAN SEQUENCE - CODING
ATGCGTATCCCCGTAGATGCCAGCACGAGCCGCCGCTTCACGCCGCCTTCCACCGCGCTGAGCCCAGGCAAGATGAGCGAGGCGTTGCCGCTGG
GCGCCCCGGACGCCGGCGCTGCCCTGGCCGGCAAGCTGAGGAGCGGCGACCGCAGCATGGTGGAGGTGCTGGCCGACCACCCGGGCGAGCTGGT
GCGCACCGACAGCCCCAACTTCCTCTGCTCCGTGCTGCCTACGCACTGGCGCTGCAACAAGACCCTGCCCATCGCTTTCAAGGTGGTGGCCCTA
GGGGATGTTCCAGATGGCACTCTGGTCACTGTGATGGCTGGCAATGATGAAAACTACTCGGCTGAGCTGAGAAATGCTACCGCAGCCATGAAGA
ACCAGGTTGCAAGATTTAATGACCTCAGGTTTGTCGGTCGAAGTGGAAGAGGGAAAAGCTTCACTCTGACCATCACTGTCTTCACAAACCCACC
GCAAGTCGCCACCTACCACAGAGCCATCAAAATCACAGTGGATGGGCCCCGAGAACCTCGAAGACATCGGCAGAAACTAGATGATCAGACCAAG
CCCGGGAGCTTGTCCTTTTCCGAGCGGCTCAGTGAACTGGAGCAGCTGCGGCGCACAGCCATGAGGGTCAGCCCACACCACCCAGCCCCCACGC
CCAACCCTCGTGCCTCCCTGAACCACTCCACTGCCTTTAACCCTCAGCCTCAGAGTCAGATGCAGGATACAAGGCAGATCCAACCATCCCCACC
GTGGTCCTACGATCAGTCCTACCAATACCTGGGATCCATTGCCTCTCCTTCTGTGCACCCAGCAACGCCCATTTCACCTGGACGTGCCAGCGGC
ATGACAACCCTCTCTGCAGAACTTTCCAGTCGACTCTCAACGGCACCCGACCTGACAGCGTTCAGCGACCCGCGCCAGTTCCCCGCGCTGCCCT
CCATCTCCGACCCCCGCATGCACTATCCAGGCGCCTTCACCTACTCCCCGACGCCGGTCACCTCGGGCATCGGCATCGGCATGTCGGCCATGGG
CTCGGCCACGCGCTACCACACCTACCTGCCGCCGCCCTACCCCGGTTCGTCGCAAGCGCAGGGAGGCCCGTTCCAAGCCAGCTCGCCCTCCTAC
CACCTGTACTACGGCGCCTCGGCCGGCTCCTACCAGTTCTCCATGGTGGGCGGGGAGCGCTCGCCGCCGCGCATCCTGCCGCCCTGCACCAACG
CCTCCACCGGCTCCGCGCTGCTCAACCCCAGCCTCCCGAACCAGAGCGACGTGGTGGAGGCCGAGGGCAGACACAGAAACTCCCCCACCAACAT
GGGGGGGGCCTCCTGTTCGCGACAAGCCCGCCGGGATCCCGGGCCCTGGGCCCGGACACCGTCCTGGGGCCGAGGGCGCCCGACGGACAGGATC
TCGCTGTAG

TABLE 19

MOUSE NOMENCLATURE
ICSGNM Il2ra
Celera mCG9569

HUMAN NOMENCLATURE
HGNC IL2RA
Celera hCG23482

MOUSE SEQUENCE - GENOMIC

TAATGATTAATAATAATAATAATAATAATAATAATAAGAAGAAGAAGAAGAAGAAGAAGAATGAGAGACCTTGGAACACTCAGCCCCTTGT
TGTGCATGGAACCCAGTAGAAGAAGTGGGAAGAATGTGAGAGCCAGAGGGGATGGAGGCCATCAAAAAAACACAATCTTCTAAATCAACATGAG
CAAAGCACCTATGAAGAGTGAAGCAGGACTGGAGAGATGGCTCAGTGGTTAAAAGCACTGACTGTTCTTGCAAAGGTCCTGAGTTCAAGTCTCA
GCAACCACATGGTGGCTCACAACCATCTGTAACAAGATATGATGCCTTTCTCGTGTGTCTAAAGACAACTACTTACACATAATCAATCAATCAA
TCAATCAATCAATCTTTGGGCTGGAGCAAGAGGGGCCGGAGTGAGCAGAGGTCCTGAGTTCGGTTCCCGGCAACCACATGAAGGCTCACAACTG
TCTGTACAGCTACAGTGTACTCACATACACAAAATAAATAAATAAATCTTTAGAAAAGAGAGTGAAGCAACATGCACAGGGCCTGCATGGGTCT
ACACCAGGTCCTTTGCATGTATATTATGGCTTCCAGTTTAGGGTTTTTAAAGGATTCCAAAATGTGTGAACAAGGTGGACTTGATTCTTGTACC
TTCTCTTGGGCTCTTTTCCTTCTGTCTGTTTTGTCTAAATCCAATGTGTTAGTTTTTTGTATAGTTAAGGTTATAGTTAGAGTAGCATACCATA
GCATGTCCTTCAGAAGCCTATTTGTTTTCTAATGAGAGACAGAAAAGGAGTAGATCTGGGAGGGAAGGGATAGGAAGGGGACTGGGAGGAGTAG
AGGGAGGGAAACCATAATCAGGGTATATTATATGATGGAAAAATCTATTTTCAATAAAAGGAAATAACTTTAAAGAAAGATAATTAGGGAGTAA
ATATGATCAGGTGAATATATGAATGTCTGAAAATGTCATAATGAAATACATGACTGTACACTAACTTTTTAAAAAAAGGAGTGATCTTGGGACT
ACAGACTCTTCAAAGATAACCAAAAAAAAAAAAAAAAAAAAAGAGAGAGGAGGCTGTTGAGCGGAATAGTGATTGAACAGGAAGTGTAGGGGAAAA
AGTGGGGAAGCCATGTTGAAGAGGGTAGTCTAAGGCAGATTTCTTTGGGAAGATTTGCCTGGAATTAATAGATGAGACTGGAGGAGGGTGTGAGG
GCTGGCTCAGTAGCTAGGCACTTGCTTAGCATGTGCCAGGCCCTGCTTTAAATACCAGCACCGGAAAAAAAAAAACATAAAGGATTGCAGAATGT
TTGAGTCAATGATGTCAGTCGGAAAGCTATAGTTANNNNNNNNNNNNNNNNNNCTATAGTTACATAGACGTCTAGACAAAAGGTGACACAGA
CATGACTTCACCTTCCTCCCCAAACCCCACAGACTAGTGCTTCAGAACCTCACAATCTTTGCTTCCAGCAGTCCCTAGAGGTCACCAGTGCTGG
ATCGAGAGATTGAGCGATATACTATTGTCCACCCTTGAGCTAGAACCACATCAGAGGAGGTCAGGGAGCCTTTCCTGATACCTACGTGCCAAAG
ACACAATAGAAAGTGGGATCATGGATTGGGGGGTGCATCAGCCAATGCAGTACCTGCAGTAAAAGCATGAAGACCTAGCTTTGGTGCCCAACCC
AACATTAGTGGTGCCCTATAATCTTATTACTAAGAAGACAGACAGGATCTGATAGCCAAGTAGTTGAGTAAAACTTGGCAAGTCCCAGGCTCAG
TGAGGGACCGTGTCTCAATCTCTGATGAAGAGTGATTGAGGAAGAACCTCCAACAACAACTTCCTCTGGTCCCCAGACACCTGCAAACACCAGC
ACTCATGTGGGTGCGCGCGTGCGCACACACACACACACATGCACAGGTATGCACACACACATACACTCATAGCCACACATACATACATATACAT
ACAAACACACACATACACAAATGCAGACACACACAAAAACAGTCATGTATACATACAAACACACATACACACATACAGGCATGTGTGTGCACAC
ACATGTACATTCATACACACATAAACACACATGCACATGTGCACACACAGCCACACATGCATATACACAGTCATGTGGGCACACACACACACAC
ATACACACACACACACACACACACACACACACACACAAGGAATCTGTCTACAAGCTAGCATAAGCTGCAAATGATAGCAAAGCTGCTGTTTGGTTT
TCAGTGTAGGGACTGAGTTTGTGAATCTGACAAGCTGTTAGTCTCCCAGTACTTTATTAGGGGAGTAACTCACCAGTCAGATGGGCCCCTCTGG
AGCTCAGCATTTGCACAGAGGACAGCTCCTTTGCGCATAGTGGATTCTGGTTTTCCACAGGACCCTGTCTAGTAAAACCTAGTGGAAATTACAA
GCTGAGAAATTCAGCCTTGTGCCACAATAACAGGATGCACCTGTAGATTTCACAGAATTAGCTGCTGTCTTCTCTTAACGCCAATTTGAGAGAA
AGAAGCCTGTTTGTCTGCTGCCAAACAGGGCAGAATCTCAAGTATTCCCATATATCTGCAAATGATGGAAGTTATCAACCACAGTGACACTGTC
TTTCTAGCGGTCACTTGACAAAGACAGGGACTTGCTTGCCTCTCTTTTCCACCATGCTACCCCCTTGTTGGCTCCTTTGGGACTTACCCATTTG
GAATGTGATATAGTTAATAGGGACCTGTCTGGCCCTGCCTCCCCATCTCCATTTGAGAGCAGGAATCCTTTTCAATTCATTTTTGATTACACAG
TCTGGCACAGGGCCCACTTTCTAGATCCTTAACTAGTATTTTATGGAATTGAATTCTAGAAAAGTACATGAACTGTGTAAAGGTGACATCATGA
GCACTTAAATAGACATCCAAACCTATGTCCACGCAATAAAGACTCCGTGCCCCATAGGCTGACAACCACCTCTAACTAACCCAGAAATGCAGTA
AATATATAAATGATGAGTTCCCTGAGCTACTAGCCATCCTCCAAGAAAACAAAGGCCCCTTTCCTCCTCAGCTCTCTCCTTTTCGACTTTCCCT
TCCTCACCTCCATTTTCTTCCCCTCTCTTTGCACCTACCCTTTCCAGTCCTCTCTCCTACCCCTCCTCTCTCTATTCTTCCTTCCTTTCTTCTC
TCCCCTTTCTCTCCCCTTCTCTTCTTTCCACTCTTCTTTCTTCCTTCTCTTCTCTGGTTTTCTTCTCCTCTCTGCTTTTCCTCGCTCTCCCTCC
ACACCATGCCCCTCTCCTCCTCTCTCTTTTCCTCTTCTAATTCTGAGACCACAAATGAGCACATGGCTCTTCAGAGAGGGAAGTGAAAAGACAG
AGTGAGGGAGCTTTTATGTGGTGTCACTCGGGTAGGACAGGCAAGTCTGATAGTGCCAAGGATCCAGTGAGCAACAGCTTCCCTTTTTAAGGGC
TGGTTTCTTTTTCTCCTTGAGTAGATTATGGGCACAGACAAGGCCTTGACTTCTCTACTTCAGAGCCCAGTGTAAGAGCTTGTGTAGTTGCAGG
TGCTCAGTCAACATGAGCTCATGGCCTGCTTAACAGAAATGAAACACTTTGACCTGAGTTTCAGTTCTTCCTCTCTGTAGACTTCTCTGTAGAC
TTCTCTGTAGACTTCTCAAGACATTGATAGACAATGAATAGACAGGGGTAAAGGGGAGAAGAGAAGAGAGGGGCGAGAGAGAGACAGAGACAGA
GAGACAGAGACACTGAGAGAGACAGAGACAGAGAGACACACACAGAGAGAGATCGTGATACTCTGAACTGCACACCTCCCTCTTATGCCTGGTA
CACAAAGAAAGCCGGGCTCAGAATTCTAACACACCCTCAAACCCGATTCAACTCCAGAATGTATAAGAAAAAGTAATTTCATTTAAAAAGAACA
TCTTTGAGGTGTTGAAAAAAAAGAGTTACTGCCACAAAAGGAACTATAAACAATTACTGTCAAATGATTTTTAGGATTATTTATTTATTTAATT
GAGACAGGATTTCTTGGTGTAGCCTTGGCTGCCCTGAAACTCATTCTGTAGACCAGGCTAGCACTGAACTCAGAGATCCACCTGCCTCTGCCCC
TGGTATTACAGGCATGCGTCACCACCAACACCCCCCCCCCCCATTTTTAAGGATTTCTTTCCCTTTTTTCTTTTTAAAGATTTATTTATTGTTA
TATGTAAGTACACTGTAGCTGTCTCCAGACATGCCAGAAGAGGGAGTCAGATCTCATGACAGGTGGTTGTGAGCCACCATGTGGTTTATGGGAT
TTGAACTCAGGACCTTTGGAAGAGCAGTCAGTGCTCTTACCTGCTGAGCCATTTTGCCAGCCCCCTTTTTAGGATTTCTTTTACTCTCTTGATT
GTGCCCCCAAAATTGCCCCAGTCTTTCTATTCCATCTTGATACCACATTTCTTTTTCTTTTTCTCTTATTAACTCACTTTCTATGAGTATTTAT
GTGTGTGGAGTGCACACATGTGTACATGGTTGCACATGTGTGTGTATCTGAGCTCCTTGGTGTGTGCACACATACACATGCATATTTGACGTCG
GGGTGTCTTCCTTGGTCACATTCTACTTCATCTTTTTGAGGCAAGTCTTTTGCTGAACCCAGAGTTCCACTGATACAGAGTCTAGCTAGCCTGC
TCATTCTGGGGATCCCTTTCCCATCCGCCAAGTGTTGCCGTCAAAAGCAGCCACTGTGCTGCGCTTTCCCATTGGTTTTGGAGGTTTGTAGTCC
AGTCTTCACACCTGTGTGGCCAGTGCTTTATCCACTGAGCCATCTCCCAGTCCTTCAGCATCTTTTCTAGAGCAGCAATTTTCTCTCTCTTTGC
ATCTCTAGTTGCTGAAGCCTTACCTGCCAGGTCAAACATGTCAGAGAGGCAAAGAGACAGAGAAGTTCTGGGAATCAGGGCTTCACACTTGCTA
ACCCAATACACTGTCTTTGAACTATGCCCCATCCTGAACTATGTCTTAACAACTGAAAGTAATGGTAAAATAATCCAACTGATACCTGTCTTAA
AAGATAAATATTTATTTTTACTTACTTATTTATTATTCTATGATCATTGGTGTTTTGCCTGTAAGTATGTCTGTGTGAGTGTGCCAGAACTCCT
GGAACTGAAAGTATAGATATTTGTGAGCTGCTATGTAGGTGCTGGAGATTGAACCTTGGTCCTTTGGAAGAGCAGCTAGTACTTTTCATCACTA
AGTCATTTCTCCAGACCAATTATCTTTGTTTTTTCTATGTATGAGTCTTTTGCTGTGTGTATGTATACAAATGCATCGTGTGTGTGTGTGTGTG
TATGTGTGTGTATGTGTGTGTGTGTATGTGTGTGTGTGTATGTGTGTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

NNNN

TGTAATCAAATCCTTATCCCTCTAGAGTCAGAAGACAGAAGGTATGGAAACATGTTAAGGTGGTACGCATGTCTAGTTATCCCTTCTGGTAAAG
GCTACTGCCCACACTAGAAGTTCCGGTCTTCAGCTCCGTTATGCTTCCCAGTGCCCCGTCAGTTTCTTCACAGTGTTAGAGCTATTGTGACTTT
GTTCATCATCCAAAATAGACCTTGGAGACATGTGGTTTTGCTAAGCACTGGGAATACTTAATAAAGCAAACATTACATTTGTCCCTAAGGGTCT
AAGATAGCCTGATATGGAACTTATGCCTGTGCTTGATTTAGCTTGGAACATTGAAAAAACAGTAATTTATTTCATCCACTTACATGTCATCTGG
CCATGCTCTGAAAGAACAGCTTCCGAATGCTCAACACCTCCATCACTGGGTCCCTCCCAAAGGCAGGGATTTTTGTGTTCATGTATGCATATGT
GTATTTTTGTGGCTATGTGTGTAGATGAATGTGTGTGGAGGCCAAAGGTCAACTTAGGTATTAATCCTCAGGTGCCATTCACATGAGTTGGTTT
TCTTATTATTTGGGTTTTTTATTATTGTTGTCTAGAGATGGAGTTTCTTGCTGGTCTGGGACTACATGGTTAGGCTAAGCTGGTTGGTCAAGAA
TCTGCCTACTTCTGCTTTCTTAGGGCTGATACTAAAGGTATGCACTGCTGTAATATATACATACATACACACACACACATATATATACATTATA
TATACATATACAATATATATAGATTAAATGTATCAGTGTTTTGCCTGCATGTTTATATGCACACCACATGCCTGCCTGGTGCCCTCAGAGGTCA
AAAGAGGGCATTGGCTCACCTTGGACTGGAACTATAGAGAGTTTTCAACTCCCATGTGGGTGGTGGGAAGCAAACCTGGGTCCTCTGCCAAAGC
AGGTGCTCTTAACCTCTGAGCTATCTTTCCAGCTGCATAATGATTTATGTGAGCACCAGGGATCAGAACAGAGGTCCTCATATTTATGAGGTAA
GCACTTTATCTACTGAGCCATCTCCCCAGCCCTGAACATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTC
TCAAAAACTTTGAGAATTCTAGATATTTTTGTGTAATTTCTTATGGAAACCATTCCTGTGGTAGCACTGAGTGCCATGAGGATAGGCTGCACCC
TGACATGTTCATGTCAACTCTGCTTTCCTTACTGTCCAATGATGGCCGGGCATTTTACAGATAGAGGTTGAATTCTCTTAAGAAATAGTGTGCC
ACCAGTGGTCAGTGAGAAATAGAGCTAGGAGGCAAATGAAATTTTAAAGATGTATAGTATAGAACAAGGCACCTAATGATGTTAGAAAAACCAA
AGGCAAGACCTAGCAAGTCACAGCTTTCAGCAAACTTCTCTCTGCAACAGGAGAAGGTTGTTGCAAAGATCTTGAAATCCCCTTACAATTCCAT
CATTATACATCAAGAATTCTGGGGGGAAAAAGACCTACTCTCTCCTCTCCTCTATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTGTC
TCACAAACACACACACACACACACACACACTCACTCACAAGTCTTTTTTATCCTGGGGTACTTTTGGAAACAAGAAAAGTTCCCAACCAAAGAT
ATGCCCACTACCATGTGGATTGAAAGGTCACCGGGTATCAGCAGACCCAAGCCTGAGAGCTGGGTTCCAGGTTATTTCCCCACTCTCCAGAGTG
CAACGCTCTGCACTGCAGCATGACTACTAATTCTGTACTGCTCGAGTTGTGGGTGTAGGGTAAAAACACCACTGTGTTTCGGTGAAGTCTTCTC
CCGTTTGATGGCTTGCTATGGGGATTTCTTCCTTCAAACTGTTGTTCATGTCTCGAAAAAGGAGTGGGAATTTATCTCTTTCTTCTCTTTGTTTT
GAGCCATTCCCTCTGGGGGAGGGAGGGAAGGGAGAGTCTTTATTCAATGCATTACTTCAAAAAGTTATAGATCCCAGACCTGAGATGCCTCTGT
GGTTAAGAGTGCATACTACTTTTGCAGTTTGGTTCCTAGTACCCATGCTGGGAGACTTACCCTGCCTATTTGAATCCAATGACCTCTTCTGTCC
TGCATGTATGGATAGACACATACATAAATAAGACCTTGCTGTCCTGGAAATCAACCTGTAGATTAGAACAGCCACCACCTCAGAGCTCCACCTG
TCTCTGTCTTCTGAGTGCTGGGCATGCACCACTTCTGCCCAGTGATCCCAGGCCTCTTGATGACTTGATTACATCTTCTGTATGCCTTTATTCT
GATTCTCAGAAGTGATATCTCTTTATCCATGCAGCCAGCCATTCATGCATTAGGATTATAGAGGTGGATAAAGGTACAGTCCTTGTTCTCCAAC
ATGAAGACTAAACATCTGCTGATTGATTCTGATTAGGAAGACTGCTAAGGGAAAACTTGCATCTGCCAATGAGTCAACATTCTGTTCCCTTTCC
AACCCTCTGCCACATTTTCAAGGACATCACCCATTTGCAGGGAAAACTACAACTAAGTGATCTCTGAAGATGTTGGGTGTTTTCTACTCTAATG
TTGCTCACATCTTTTTTGGCTAGTTGATTTTATGGTCATTCTAGATTTTGCCTTTATCAACAAGACAACGCAGGTCTCACCGGGAGCTGTCTGT
GGAATCATGTTTCCCAACCCCAGCTTCAGTTACAACATGCATCTGGAATGGCTGAGACTTCTTCAGACCAGTGAAGTCAGACTCTCAGGGGAGA
AGAACCAGACGTACCAATGACATTATTTTTATGTCCCCCCAAACAATGAAGATGCAGTGAGGAATGAGATCCGTCTAATATTGTAGAGAAGTAA
TATAATGGAATAATCCTACAGCCGGGCATGGTGTACATCGCTGTGACCCTTGCTTGCACTTGGGTGATTGGTGCAGGAAGATTTTGAGTTTGAG
GCCAGCACAGAGCTCCACAGTGAAACTATTTTAAAAAGAACGAACAAGAAGAGAAGGAAGAGGGGAAGGGAGAAAGGGAGGGAAGGGAAGAAGA
GAAACGCAAATGGTTTTTCATGCTGGTTAATTTCATTGCTTCATTTTTATTCTTTGAAAATAGAGGAGAACTTCTCAAACTTTACAAGACTCCT
GGGGATTTTGTTATAAAGCATTCTGTTCGGAGAGGGATTCGGTAGCTTGAAATTCTGTTCAAACAGGCTCCAACACGAGATGTGTTGTTGTCAGT
GCATGGGCCCAGTTCTGAGCAGCAGGCTATCATGTAACAACAACAACAACAAAAAAATGCACACTATGTAACCACACAGAGGTTTCAACTAAAA
TGGGAGACAACTTCAGAGAAGATTAAATATTGATCAAAGGTTGCACAGTCTATATAACACAGCCTATAAATATTATAAGTGGTCAGAATAAAGA
GAGCAGCCTACTGCCTGGGTAATTAAAGATGATGCTTTGAGAAGGGCTTTTGGAGAACCTAGCTCTGAATGATGCTTAAGAATAACAGAGCATT
AGCCGGGCAATGGTGGTGTACACCTTTAATCCCAGTACTTAGGAGGCAGAGGCAGGCTGATTTCTGAGTTCGAGGCCAGCCTGGTTTACAGAGT
AAGTTCCAGGACAGTCAGGGCTACACAGAGAAGCCCTGTCTCAAGACAACAAAACAACAACAACAAAACAAAACAAAACAAAACAACAGAAAAT
GTTAGAAGACAGTATTGTGTGATGATTCTGCCAAAGCTGTACACATGGGCCATTATCCGTTTGCAGAGATGTGTGTCTGAACAAAATGATTTTC
AAGTGCACAGTGTTTCTCTGATAAAAATTAATACTTTCCCCACATAAAAAAAAAAGCTGAACATGGTGGCACATGTTTGTAATCGCATTGCTGG
GAAAACAGAGATGGGTAGATCGCTGGGGCTTACTGGTCTACCAGCCAAATCAGTGAGCTCTAGGTTGTTGGGAAACCATATCCCAAAAGAAAAG
ATAGATGGTATACACACTACACACACACACATATAGTAGTAGTAGTAGTAGTAGTAGTAGTAATAATAATAATAATAATAATAATAATAATAAT
AATAATGATAATGATAATGATAATAATAATAATGATTTTGCTCAGGCATAAGACTTTGCATGTTCCCCATCCTACTTAAATCCTCCAGTGCCCA
TAGGCATTAGTTATCTCTAGTAGATTTCTTTGACATGATGAATTACTGAGTAGCCTTGCCAGTACCACATGACACCCTGGATATAGTCAAAGAA
TTTTTTAGTTTTCTTCTACCTCTACATCTGTGTTTTTAACTATGATGCAGTCCTGTTAACCTCATACCACAAGGTCAGAATCCCATGGCTTCTA
ACACGACAGCCTCCTTTTACCCTGCCAGTTCACTAGGCTTCAACCAGCAACTCTCAAGGTAGCACCAGACATCCTACATGCAGGAGGCTGAGGC
TCACATGACTGGACTACCAACAGTAAACGGTTTCACCCAAAAGAAGCACTGTTTTTAAATTTTTATTTATTTATTTATTTATTTATTTATTTAT
TGGTTTAAATTTTTTCTTTTCTTATATGTATGGGTGTATGGATATTTGACCTGCATGTATATATGTGTACTCTGGGCATGCTTGGTGCCAAGGA
GGCCAGAATAAGGTATTGGATCCCCTGAAACTGGAATTATGGAAAGTTGTGAGCCACTATGTGGGTCCTGGGACTTGAACTCAGGTCCTCTGCA
AGAGCAGCAAGTGTTCTTAAGTTGTGAGGCTTCTCTCCAGTTCCAGAAGAAACATTTCAAACAGTGATGATGATAGCGAGAGCTTATGCTCACT
GTCTACATGCCATCTCTTAGTATTGTGTTAAATCAGTGTCTCTTGGTTCAGTTTTCAAAATAAGGTAGTTGTGTTGGGCATTGTGGTCTATGCC
TTTATGTTCAACACTTGGGAAACAAAGGCAGCAGCTCTCTACACAGTGCCAGTCTCCTCTACACAGAGCAGTGTTCTCAACCTAACACTGCAGC
CCTCTAATGCAGTTCCTCACACTGTGGTGACTCCCCAACCATAAAATTATTTTTGTTGCTACCTCATAGCTGTAATTTTGCTACTTTTATGAAT
TTTAATTTAAATATCTTTTTTTTCCCAATTGTCTTAGCAACCCACAGGTTGAGAATTGCTGACACAGAGAGTTCCAAGCCAGTTAGGGCCACATA
GTGAGCTCTGGAAATAAAACAACATAAAAAGCAGTTCTTATTATCTTCCCTTTGCAGTTGACCAATGGAGTCTTTGGTCAGTTAAATCAGTAGC
TGGTGTAACACAACTAGGAAGTCTCTAGAATCTGAGTTTACAGAATCTCTACCCACCATCCTGAGCCATGACCACCTTACACAGCAGCTCCACA
GTCTACCTGAATGGCCACCTGTTGAATCTCTTGTCTTTACTTTTGTGCATGTGTGTGTGTGTGTATACATATGCATGTATATACACATGTGTGT
GGAGGTCAGAGCTTCATTCACACGACATCTTCTTTATCCCTTGACCTTATCTTTTGAGACACTCTCTCACTGAACCTGGAGCTCACCAATTC
AGCTAGACCACCTGCTCAAAAGCTGCAGTGGTCTTGTCTTCCCCAGCCCTCTGCTGGGGCTACAAACATACATCATGGTGCTGGGATTTCTACC
TGGAGGGTAGGGAATCCAAGCCTGAGTCCTCTTGCTCTCCCAGACAGTTACACCTCAGCATAGCCTCAGCCTCTTTTTTTCCCCCTGAATGTAT
GTAGCTCAGGGTGGCTTAGAAATTCATGAAGTGATTAAGGCTAATCTCAAACTCCTGATCACTCCACCTTACTTACACGTCTGGAGTTCACTCT
GGTAGGACCTCCTCAGGACCCTGCTAGTCTTAGATCCTGTATTCTCTGAATCCTTCTGTTACCTTCAAAGAGCAGCCTGGGGTGTTTTCCTTGC
ATCTGATAGCATTTCAAAGAAGTCACAGCAGCAGAGTCTGGGCTAGCAACCGGCAAAACAGAGGAAATTCTGAGCACCTTTGGCCATGAGTCAC
CACACCTTCTGAGCACCTTTGGCCATGAGTCACCACACCTTGTTCAGGAATTGCCATCTCTGCCCACAGAATCGCCCACTGTTTTCTGTGTGGG
ACCAAAATAGATACCTCCTTCATAAACTTTGTGTGTGTGTGTGTGTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTC
TCTCTTGGTAATAAAAAACAAAAGACAAAGATGGGTATGTGCTTCCAAGGGCAGACTAAGAAGCCACTTACAGGTGAGTGTGACAGGTGAGAGG
AACCGTGGCAAGGAACACCCTACCCTGGTGGCAGAGCTTCTCGATATTTGTATGTCTGCTGCTTTGCTTCTCAGTTCATTCATGATCTATTGAG
CAACTTCACGCAAGGTTAGAGAGGCAGAGATGAATAAGACCCAACTCTTGGCCTCCAGGAGCTTCTTGCTTATGCGGAGAGAATACCCAAGCTA
AGGGCTGAGATTTAAGTAAGAGCACAGAGCTGGTGGACACACACTCCACTGCCCACTCCTCCTGCAAGACCGACACACCATAAGCTAGGAACTG
CTTCCCATTATATGTACATGCAGAAGAGAGAAGGGCTCACGCTGTTTTGTCAGTGTGAGTGACTAGAATTAGAATCCAGCACTTTCCATTTTGA
GTTTAGAACAATCTGCAGAGGTTTTGTGCTTGTTTGGCTCAGCAATACCTTTCAGGGACATCTCAGGTAGGACGTACTGGGAGTCCTTCAGTAA

CAGACTGTTTCCACAGGCTCAGGAGTCTCTGAGGCACCATCTATAGGCCAACTCTCACATGTCTGAGTACATTTGAAGATCTCCCAGGTCCTCA
ACATCTATGACCTCTTCAAGGAAGAAAGGAAAAGGGGGAGGGAGGGCAGGAGGGAAGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNCTAAGGATTGAGCCCAGGGTTCAATTCACACTAAACAAAACACTTTACCTCTGAGCTGGGTCCCC
AGTTCTTACTATACTGTATAAAGCCGAAAAGAAAAGCAGTGCTTTAAAGATGTATTAATAAACTATAAGAATAATACATAATAAATTGATATGT
AAAAAACCACAATGTATATATGTAAATGAGAGCAGCCCTAAAACCAAACAGGCCTGTGTCCCCAGGGAAAAGGTCACTTTATCATGTTGTGGGG
AACGGCAAAAGAAATGTTTCTAAAAGTTTCTTTTGAAGTCCCCGACATCTATGCTGACGTCAGCCTCTTCCTGCCCAGCGCTCTGAAAGTTCC
AGGGAGTTTTGGGGCCAGTGACTTGACACAGGGTTGTATGTTTGACACTTGCTGACTGTGGGCAGGTTGTGGTGGCTTTCCCTGCCTGCCAAGC
CCCACTCAGCTGAGCATCAGCATGGTATGTGCTTCCTGTCCCCGTGCTAGTGACACCTCTCTGTTCAGACCTTGATTTAGAACAAAAAAGAACC
TTTGTGAAGAGAAAACTCCTTATTTAAAGGAAAGTAAACCGAACTTTTGAGAGTCTTTTTAGAATAAAAGGGCGAGTCCTCAGGAGTCCCGCTG
GTACCCCTGAGGGGAGGTGAGCCTTGAGGGCTCGCTGCTAGGTTTCCCTGTCTGGTCCCAGACATCACTTTCCCTTTCTAACTGTCTCCTCAGA
GGCCGCTTCTGGAGGTAATTTTTAGCTGCCAATGCTGAGGAACTATTGGCCAGAGCATGCCACCCTGCTTCTTAGAGAATACAACTGCCACCAT
TGAAAACCTAGGCTGTCTAACCAGTGAGCTCAGGGCGTCCGCCTGTCTCCACCTCCCTTTTCCTCCTGTGCTGGGATTTGCATGTGCACAGCCA
TATAGAGTTTATAGAGTGCTGGGGATGTGAACTCAGGTTCTCATGCTTCTGTGGCAAACCCACGAAACCATCTCCCATCCTTAGTTTTATATAT
TTCACTATACATTCATATTATAATATACATTATATATTATATAATATATATTATATAAAACATATGTAATATATATTATAATATATAATACCAT
GGTATTGGCAGTGCTTAGAATAGGTGCCCCAGATTTTCGTAACTTTTTCTTTGTTTTCTGTTTCTCTTCTAATCTTTTTTTTTTAAGTTGGTTA
TTTTATTTTTTTACATTTCAAATGTTATTCCCCTTCCTGGTTTCCTCTCCGCAGCCCCCACAATCCCATCCCCCTCCTCCCTGCTTCTAGGAGG
GTGGCTACCCCACCCACCCACCCACTCCCACCTCACTGCCCTGGTATTCCCCTTCACTGGGCATCAAGCCTTTACTGGACCAAAGGCCTCCCCT
CCCATTGATGCCAGATAAGGCCATCCTCTGCTACATATGCAGCTGGAGTCATGGGTCCCTCCATGTATGCTCTTTGGTTGATGGTTTAGTCCCT
AAGAACTTTGGGAGGTCTGGTTGGTTGATCTTGTTGTTTTTCCTATGGAGTTGCAAACCCCTTCAGCTCCTACAGTCCTTGCCCTAACTTTTCC
CCTGGGGCCCCTGGGCTCAGTCCAATGGTTGGCTGCAACTTAAACAGCTGTCCCACACCATGGTTACTTCTCCAGTCTTTAATTGCATTTGTTT
AACAATTTATTTTAACAATTTATTTTCTTATGTAATATATGTGTGTGTGTATACATCTATATATATATGAGAGAAGAGGGCATCAGAAAACA
GAGGGTATCTGATCCCTTTACAGGTTGTGAGCCACCATGTGGTCGATGGGAATTGATTTCAGGACCTCTCTGGAAGAGCAGCCAGGGCTCTTAA
CAGTTGGGCCGTCTCTCCAGCTTGTATTTGTTTGTTTACTTATGTATTCATTTACTTATAGACAGGGTCCAGCTATGTATCCTGAACTGACTTG
CAGTGTAGCTAGGCTGGCCTCAAACTCATGGTAATCACCTCTGTCAGCCTTCTGAGTTCTGGGACTACACATGCAGGGGAAATCCCACAGATAT
CCATTTGAAACAAGCCCTCACGATTACAACTTGCTTCTCAGAAGGCTCTGTCTTTTTTCAGAAGACTGTGGGCGGGATTTACCAATTTAGCAGT
GCTCCGCTAAAAATATGGCCCCCTCCCAAGAAATCCGTTTCTAAGATTTGAGGGGAAAACTGTCTTTAGTTTTCAGAGAAAGAGGAGGAATATT
TCTTCCCAGACTTTTCTCTCTCTCTCTTTCTTTTTTAATCTGATAACACTTTAATTTAAATCAAGTTGACATTCTGTGGTAAGTTTGTGGTTAA
CTCTTTCAAGTGCTGAAGCTTGTTTTCTGAGGTGACTGGAGAGTTAGAAAAAGACAGGCAGCCCAACCACTCTGTACTCTGTAAGCATTACAGGCT
CCTGGATGTGACAATCTAGAGGCCGCTCTGTGAGACAGAGGGCAGTTCTCAGCTCCTTGCCTGGGTTTCTCTTTCTAAGAGCAAATTCCTAGTT
TCTGTAGACCTACTGTTTGTTGTTTGTGTAACTACTGCCAAGAAGGCACAGGGTTTTCTCCAAAATGGTCTTACTAGTGAGTCACACATTCCTG
CCTTATGGAAACCCAGGCTTTGACGAAGCCTGAGAGAACTGGGCCTCAGAAACGTGTGTCAGATGACAACAGGACTCACAGACACAAAAGGCTA
ACCACCGTTCTGCAAATATTGTTATTTCAGTGTTTCCCCTTTAATTTTAAGAAACTTTTCTTTAATAATGACACACACACACACACACACAC
ACACACACACACATTTTTGACAGGGTCTCACTGTGAAGCCCTGGTTGTCATGGAACTATCCTGGAACTCATTATAGAGACCAGGCTGGGCTAGA
ACTCAGAGATCCACCTGCCTCTGCCTCCCGAGTGCTGTGATTAATGGAATGTGCCACCATGTCTGGCTTTCATGAGTATTCTTTCAATCATCTT
TGGATTCATTTCCTGCTATTGGCATGGCCATATAATTTTCCACCTTTAAACAGAGTCATATCAAGAGATTTCCACTAGTGAACCATCCATCAC
TGCTGAGATAAATTCTAATTGATCAGAATATTAGTTTTTGTCATACCTGGCTAGAACCAAGTACAAATATTGTAATCGATATTCTGTTGTCTGT
TTTTATAAGTGAGATGGTCTTACGGCCATTTTCTCTGCAGTTCATCCCAAGTTTAATAGGAAGACTAACATAACTCTGTAAAAGGAATTAGAAT
CATTGAAGTGTCTGTGCTGGTCTGAATGAGAATAGCTGCCATAGGCTCATAGATTTGAATATTTAGTCCCCAGTGAGTGGAATTTCCAGTTTGG
GAAGGATTAAGAGGGGTGACCTTTATTCAGGGTTTTGAAAGACTCATGTGATATTCCAGGGTTGTTTTCTCTCTCTCTCTCTCTCTCTCTCT
CTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTTTCTCTCTCTCTCATGGCTGTGGACAGAGATCTGAGCTGTAAGCTGTTCCTTTACT
CTACCATCATGGATTCAAACTCCCTGAAACCATATGCCAAATTAAATGTTTTCTTTGTAAGTCCTGGTACCCTATCTCAGCAATGGAAAAGTTA
ACTAAGATGCCCTCTGAAACAGTTTGTATTAAGCATCTGCTACCTATTTCATATATTTGTTCACAAGTTGATTTTTTCAAATGATTGGTTTATT
AGGTATAATTCTCCTCTTTCTTCAGCTTCTTTCTCTCTTTCTAAGACAAAATGTCGCCATGTACCTCAGGCTGGGCTTGAACTCACAATCCTGC
TCATTTTTGAGTTTTTGGTGGATCAGTAGTTACACCTCCCTTTTCTTCAAACTGATGCTCTGTTGTTCTTGCTCCTTCTAGTCCTGACTATTTT
CAGAATCTACTTAAATGAATAGTTTTTAATTTGGAGGACATTCTCTGCTGGTTTTTTTTTTTTCATCTTGGTCAATCTTTCATTTACAGTTTTG
ATCTCCTTTCTTTAACATTATTCCATGGTTTTTTAACTTCCTCCAGTAAATATTAAATGGGATAATGCCTGTTCTTTGAACACGTATTTTCCTT
TGAGGTTGTAGACATCCCTGGAGAGGCTGTGCTGGCTCAGTACTGCAGGGTTTGTGGTTATCATTTTTGTTGCTATTCGGTGCAGAATATTTTA
CAGAATGAGTTCTGAGTTTCCCTTTGATCCATGGATTTGTTTGGAAGTTTGAGGTTTCTTTTTTAAAATGTGTGAAGTTTTATTGTTGTTTGTG
GTTTCGCTCTCTGTTTTTAACTTTTAATTTCATTGCGCCATGATTAGAAAATGAATCTGTGTGATGCTTATTCTTTGACACTTGTGGAAACCAC
CTCTGGTGCCTAGTAGGAGCTCAGTTCTCTTTACCACTGTCCCATGCGTGATAAAGAGAGTGTACATTGCCTATGTATTGGTCACACAACTACA
TAAATATGCACAAATCAAGCTTACTGACAACTAACAGACCTTCTTATAGAGTAACCTTTTCTTATTAGTGGTCCTTGCAACATCAGTTTGTTTT
GTAGTGAGTTCTGGGCTTAATTCTAGTTGGGTTACTTTTTGTGGTTTCCCTTGGCTTCCTGAGCTGTATTTGGTAGCATCTGATTGGCTGACCT
GCTTTTACTATAGGATTCCCATGAGTGTGGTCTCTTTGATAGTTCAGGAGTTGTGTTCTAGACACTGCAGTATGTGAAATGTATTATCTTTGGT
TATTGCCGTAGAGTCTGTGTTATGTAACTTGGAAGAGTGTAGGGTGATTTACAGCAGTGCCTCCCTTGTGTGGAGACAGCACAGTGTGTTACCT
CTTTCTGTTGTTACATCCAGTGTTGAGTCTTCAGCCTTGATCCTAACCCCACTCACTCCCCTGCATCTTGGGTCTTTTGTCTCCTTCATTATTC
ATGTTGAGATTTTGTCTAAGTTTGAGGAGGACTAAGTAATGAATGGAATATGGTATAAGTTCTCTCATCTGGGATGGAAGTATATCTTACCTCC
TACCTTGTGTGTTCACAGTGTTGGGCTTGATCTCCAGAATCAACAGGAATGTCAATGGTTCAGAAGCAAATATGTTCTACAACATTTATTTGCG
TTTATACAATAAAACCCTACTCAAGTAACATCTACAACACCAATGACCGTAAGAAAGTGAGGAGCTAAAATCAAACACACAGAAGAGATATATA
ATAATGAAAGTTACTTATGCTTATAATATTTCTAATTATACTTATAATAATTATAAGTATACTTATACTTAATTATACTTATGTTAATTCTACT
TTCATTATTTAATTATTTAATTATTTAATTATTTAACTCTACTCTCTCTATAAAGGCCCGAGTTAGATTATTAATAAATACAACTAGATAAAGG
AGTGAGAAAAGACTAATGATGGGACACAAGGCAAACTTAACAGGCAAAGTTAAGCAAGCTGAAGCTTCCCTCTTGCGTAGGTGATGAAGATGCC
TCTTTCCCCAGCTTCTGTTTTCAGAGTTCACTGTGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATGTGTTATGGCATGTGT
TTATGTTTGTACATGTAGTGTGTATTTATGTGGTGTGTGTGTGCGTGCATGTGTGTGTGATATATGTGGTATGTGTGGTGTATGTGGT
GTATGTGATGTGTGTGGTGTGTGTGTGTGTCTGTGTGTTGGGGGTGGGCCTTGTCTTCTAGTCAAACAGGTCAAACCAAACAGGACAGCACC
TGTTTGGTGCTGTTTGGTGCCGACAGAGACTCGGTTCCAGATGCCTTGACAAAGTCACTGCAAGGCTATATTCACACCCCTGAGCTACCCTAGC
AAATCCCAGGACTCTGTGAGGTAGGAGTCACAAGGATGCTATTCTTGGTATGTTTTTGTGATGCAGCAGGAGGGGTTGCTTTGAGCAGGCCCATGG
TGAGGCATCCCCCACCTCTGGTATCAGCCGTAGGACAGCTCTAGTATAAAATGGAGTTTATTTGGGACATGGGAGTAGAGGCAGAGGAAGGAAG
GGGACAGAGAAGAACAGAAAGAGAGAAGAGAGGAGGAGAGAGAAAAAGGGAAGAGGCCTTCCAGGAACATGCTGAGGGAGTGGGAGAGAGAGAG
AGAGAGGGAGAGAGAGAGAGAGAACAGGGAGAGAGAGGAGGAGAAAGGAGGAAGAGGGAGGGAGAAGGGGGAGGAGGAGGAGGAACAGGAAG
GAGAGAGAGGCCAAACAATCCTTTTTATAGCAAGTCAGGCTAGTACCTGGCTGTTGCTAGGTAACTGTCGGGCAGAGCCTAGAAGAAAGGCTAA
CAATTCTCACTGGCCATTCTTGTCCCTGTGCCTGCAGGAGTGAAAAATGCCCATGTCGTTGGCTAATCCTCCAACTGTCTCAGAACCTCAGAGC
AGGAGACCATGACCAAGCCAAAGCATTTAGTGCTGAGGTGCAAGTGAGGGGTCATCACTGACTGACTCATTGCCTCCTCCAAATCCCCGACAGC

TGCCCTTCCCCTGCTTATTAATAAGCGGCATGTAGCTAGGCATAATGCTGGAGAAGGAGCTGAGAGGTTGACGTCTTGATCTGCAGGCAGCAGA
AAGAGATGTGTGTCACACTGGTCATAGTTTGGGCATATGTGACCTCAAAGCCAACCTTCAAAATAACACACTTCCTCCAGCAAGGCCACACCTC
CTAATAGTTCCACTCCCTATGGGTCTTTGGGGGGCCAATTACATTCAAACTACCATAGTGCCTTGGTCAGGGTTTGTATTCCCACACAAAATAT
CATGACCAAGAGGCAAATTGGGGAAGAAAGAGTTTATTCAGCTTGCACTTCCATACTGTTCTTCATCTCCAAGGAAAGTCAGGACTGGAACTCA
AGCAGGTCAGAAAGCAGGAGCTGATGCAGAGGCCATGGAGGGATGTTACTTACTGGCTTGCTTCCCCTGGCTTGCTCAGCCTGCTCTCTTATAG
AACCAAGACTACCAGCCCAGAGATGGCACCACCCACAATGGGCCCACCCACCCTTGATCACTAATTGAGAAAATGCTTTACAGCTGGATCTCAT
GGAGGCATTTCCTCAAGGGAGGCTCCTTTCTCTGTGATAACTCCAGTTTGTGTCAAGTTGGCACAAAAAACCAGCCACTACACACAGCTACCCT
TAATATCCAGATAGTTTCTCACTAGTGTGACTCCTGTGTGCTTGCCTCCTGTGTGACAATTAAAAAGGACCATCACGCTAACCTACTATATGCA
AGGGAGTGCAGTAAAGAAACAGCTAACATGATTTCTCCCATGGTGTGGTTAAAGTTTTTACTGTAGAGATGAGAAAAAGCAGAGAGGAAAAGAA
GCAGACTGATCATGGCCAGGACAAGGGAAGCAGGAGAGAATAGTAGTGCTCGGGAGGGACCAAGAGATAGACGACAGAGCCTAGTAAGAGAGGG
TAAGTGAATAGAGAGAAAGAGCAGGAATAGTGGAGAATAGTGGGTTATAAGGAGGCTGCATAGGCAGGGAGAGGGAACAGCCTGGGGACTGTCA
CGGTGGCTTTGAAACATATAACATTGTTGAAATAATTAAGTAATAAGTTAATCCCAGCACCGGTTACTTCCCACCTCAATGGTTTATGTTCCCG
AACAAAAGATATACACACAGTCTTTATATTTTAATATGCCTTAAACAGCACAATAGCTGGGTCACTGCCAAACCTCCATGAGGTTAATCCTGAA
TTATTACTTACTAATTCTGTGTTCTATCTTGGCTGCTCTAGACCAAGTTGGGCAGCCCCCTAGGCCATGCTCTCAGTTTCTTCACAAGATGGCT
ATGCCTCTCTGTTCTCCATTCTTCCCCCATCTCTCCTCTCCTCCACACTCCCCCTACGTGGTGGATCATCTCTTTCTCCCTCCTCAGGGTCCCA
AGCCTGGTAATCTTTAAATCCTGCTTCTGTCTGTCCTCTTCAGCCATTGGTCATTGGCATCTTAATTTACCAATCAGAATCAACTATATGTAAC
TTTATATATCAGTAAACAACAAAACAAAACAAAGCAAGATTGGGAAGTAATCTAAGCAGCCATTAAGACTTGTGGAGGATTTGTAGATAATAAA
GCAACAAGAGATTATTTCAAGGGGGGGTGCTCATCTTCCCGCCCTTTCCAGCAAGAGACCCTCCTTGTAGTCTACTGAACACAGCAATGCATTT
GTGATGATTAATCTCCTTGTTGACTTGAGGAGGGTTAGAGTCACCATGAAAGCAAATCTCAGGCATATCTGTGAGGGACTTTTCAGATTAGGTT
AGTAAGTATGAAGACTGACCCTAAAGTGTGTGGTGTCATTTCCAGTAGCTGTAGTCCTAGTTGGCATTAAAAGGAGAAAGCTAGCATCCATGAA
AGGATGGATCTCTAGCATCCATCTCTCTCTGATTCCTGATTATGGATGCGGCATGGTCAGTGGCTTCAAACTCCTGCTGCTGGGACTTCCCCCC
ATGATGGACTGCACCTGAGCCAAGATAAATTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCCTTCCTTCC
CTTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTCC
TTCGCTTTTGTTGGGTATTCTGTTACAGCAAAGAAGAAGTTGGTAGGCTGTGTTTCACAACGCCTATGCTAGGATGGCTTGTTTTGTTTGATCT
GAACACCCGTCAAGCCAGGGTAAACTTGAACCTGGCTATGAGGCAGGGGCCAGGATTCTCCCCAATGGGCACCAATGTCAAAAGCCCAGAAGCA
CAAATCCATATGGCGAAAGGCAATGTCTTAGAGAGTTTGGGATGCTGTTCTCATCATATCGCTGATTGACGGTTCAAGGAAGCTGCCACATGCT
GTTTGATTGGCATTTGGATGCTTAACATAAAGCAATAACAAAGTCAACCTTACTTGCCAAGAACTTAGCATATGTTAGACAAAAACTTCCTGGG
TCAAAAGAGAGCAAAGAGAGGGTTCCTATCCGGTGGTTAATCACAAAGCAGAAGGGCACATTGGGTTTCACTTCCGGTTGGTTTGTTCAGATGG
TATTATGGAGGCAGTTGATAGGGTAGAGAGAAGTGGTACAGAGAGAAATGGTGAGATGCTGTTGCCACAGAGGTGGACAGTTGCTGAGTTGTAT
GGGAGTCTTGAACGTTAGTGGAGAGGGAGTATGAATGCCAGAGTATTGTGGCTCTTGGGAACTGAGCGGACATCAAGAATCAGAAACATGTGGA
ATTGGCTCAGATGGTGACAGTCACTAAGAGAAGCAGGTCAGAAAGGGAACAGGGTGGTTTGTATGCTTATTTCTAGCTTTTTGTTTCAAGAGCA
TTGGAGATTCACACTCTGTCCTCATTCTCTTTGTTCTGTATTACACAGTGAGTTTTCTATTTAAAATAATTTCACGAAGGTAAAAGGGAATTTT
TAAAAAAAGGATAAACATAAAGGCAGCCATTAGACTCCTGGCTTTCAGTTCCCCCCACTATGAAAATGCGGTTTGGGTAGCCTGACCTCTTGGG
ACCTCAGTCTCTAACTGTATGAAGCCAGTTGAGAATATCTTCCCTTTGTGGCTGCACAGAGCATTGGAGGTAATATACACAAAGTGGAGTTCAG
AAATTAGGTCTGTTATTACATATCTTAAAAATCCAAGCAGAGGGACCTGGGTGCTCTAACTTCACAGATAATGATCTGAACTGAACCACAACAT
CAATAAACACTGCCTGGTACCCAGATGGCTTAGACAGATGAGACATCTCCCTGAAAGTGACAGCTGTCAGATGGGGAGTGGGGGCAACCTGTCT
CCTGGAGGTTACATCTCTCTGACATGGAAGGAAGATTTCTGAACTTGGAGAACTCAGGGTTTTCCACAATTCACAGAAAGGGCGCAGAAAGATC
AGTTTCTTTTTTATGAGTCTATCACTCTCAGAGCATTTGATCATGTTAAACAATATTCATCATGTTCTACTGAATCGTCTTTCACATACCCAAA
CACACACACACACACACACACACACACACACACACTTTCTGTAAGGCCCAACCATTGATTTGGTCTGGAGACAACCCTGACCTTGG
CTTTCTTATCTGATCTGATGAGGAAGAGGATGGCTCTCAGGCAAAAGCCAGACTGTTCATCAGGTGACTCACACTCTTTTTTCTTTTTTCTTTT
TTCTTTTTTTTTTTCGAGACAGGGTTTCTCTGTGTAGCCCTGGCTGTCCTGGAACTCACTTTGTAGACCAGGCTGGCCTCGAACTCAGAAATCCG
ACTGCCTCTCTGCCTCCCGAGTGCTGGGATTAAAGGCGTGGGCCACCACGCCCGGCGACTCACACTCTTGTTACACTCATGAGTCCCTTATATAGT
TCAGTCAATACCTGTCCCGCAGACACCATGCTTGGTGAGTGTTTTCTAACCTCCCTTCTCACTCCCAGTATATGGAAAAGCAGGAGGCAGCAGG
GAGAAGAAGCCCTTACTCAGCGTTGGCTGAGCTACAGACAAAACATTTCCTTAACGACTCCTTTCTCAAACTCTGTCCACTTTCTTAGGGAGCC
CTCCTTTGGAGTCATTTACCTAGGGCACAGGAGTCCCTATCGTTCTCATCTTAAATATCATAGATAAACCAACGCTACTGTCTCCCAGCCTACC
TTTCCTCGGGCTACCGACTAGATCCCGAGTAAAAATACAAAGCACTCTGAAGGCACGTTCCAAAGCACGAAGGGTCTGCTCAGTGTGCGCTGGA
AGACAAGAGTAGCTGGGCAGGGAGTACAGACAGAAAGTAGGGTGCAGCAGCCAGAAGTTCCCCCTCAACCTTAACTATCTGCTGTGTGACAGTC
GACAGAAAGCATCAGCACCGCTAGAGGGCTCACTTCTCCAGCCCAGTCTGTCTCTTCAGGAGGTTTGAATGCCTGCCACTGGGAGCTCTCTGGT
CGTCCTCCATTTAGGGGGCGCTGTCTTATTGATAAAAGAACCACTTGCCTCCCGAGAACGCTTCAACTGTCAATATTGCTGTTTAATTCAAGGG
GCACAGAAGAATTCAAGGCACAATTAATTCTAGTTTCATTTTGTTTCTAAAAATAAAACTGTTAAAAAAAATCAAGGGGAAGCTTTTCTATCTG
AGGAGTGGAGGCGAAGCCATAAAACCATGTAAGGAGGATGGCAGTTAGGGTAAGAAGTACGGAGCCATGTCTGTGCTCCTTGATCTTGTTACTA
CATATAGAGGTCTCTTCCTGGGAGCAGAAGGGTTTGGCGAGAAAAGCACAAATGACCTCATCCCACAGCAAGGCTCTACCCCTAAAGGTTCTGC
GATCATCCCAAACAGCGCCCCATGCTGGGGACCAAGTGTTCAAACATAGGTGCCTATGGACTGACATCCACATTCAAACCACAACAAGCACCTT
TCCCTACCTGCCCTGTGCTGCAGCCCACAGGGAGGAGGCTTTGTAATTCCCAGAGTATTCGCTGAAGGAGTCACAAGTTCCCAGAACGTCTTGT
ATTCCATTTTTCCTGGAGACACTAGATCCCCAGATAATTGCTGCATTATGGTCTTATTTCAGGGAGAGTGACTGGGGAGAGATTTGGCAAGCAT
GGGACTACCCCTCATACAAGATGGGCAACATACTCCATCCTGGAAGAGTTTGGCGTTAACTTTCCCAGTGTAGGTCTCTGGTCTGAACCCTTGT
ATTGGGTTGATTAACAACTGCTGGCCGCTTCTTTGGCCCTGTGCCTACATGAAAGGCAAAACCACATCCAAGTACCTCGGAGTCTGAGATAGGA
GTCTCCCAGGAGCCCCATATCCCAAGAATTAAGGTGGAAAAAGGCTGGGAGGTGAATTTGGGAGAAGTGGTTTGGGAGTATTCAGGAGGTAAAA
GTAGAGAGGGAAGACGCCAGTCACCTGAAGTCATTTTAGACAATAAATTAGGATTCCTTTTTTAAGTTGTGTACATGGAATTCTCCTTCATGAC
CTCCCAGAGAAGCTTGTAAACAAATTATTTTTACTCATTTTTGGCTGTTGCGCTGATGTTTCTTTTATGACACCAGAGCAACAAGAGCTAAGAA
TATCCCCAATTTACTCTTAAGGGATTAAAAAGAATAAAATCTCTAGGGCTGCCTTTCCCATGGGCTCTTCTGCCTTGGAGTCTTTGAATAAGTT
TTGGAACACATTTGGCAAGGCCTTTCAGGGAGAGAGAATCATAAGCAATTCTGAGAAAGGTTCTTTTAGAAATGGAAAATCTGTGAGAGTACAA
AATTCTACAACTGTCTCCGTGACCCCACATGACCTCCTTGGACTCTAGTTCCGGATGACTGTGGAAATTTCCATGGCAAAGCCTTGTCT
AGAAAAACATCACCGAACTCTGAGGAATGCTTAGGGGTGCAATGTCATCCCAAAGAAAACTTATCTGACCTTTCTTAAAGTTATGCATGTGAAA
GGTTTCTTAGCTTGTGGTTTGGTACCAGATTCCAAATATGATCAAGATGAATCCCTGACTATTTGCACTGACGAGTAGTTACTCAAGAATTGCT
AAATTAATTGGTTTTGTTTCAGTGAAATTAGCTATAGAGGAGTTATTCTTAAAAGGTTTTATTTATTATTTTAATGTATTTAATGTGCGTATCT
GTGCCTGTGTGAGTGCATGCACACTTGTGTGCATAGAAGCACATGCCTGAGTGTTATTAATGTCCATAAGATATTCCGGTGTGCCATTCTGCCT
ATTCCTTTGAGGCAGAGTCTCTCCCTGAACCTGAGGCTCAGACTCTCTCAGCTAGTCTGGAAGCTAGACTATTCGAGCTGTCTTGCTGTTCCTG
TCTGCACTTCCCCTCCGGGCTAGTGTTCCAGGCTTTGCAGGAAGCCCCCATCTTCTGCAGGGGCCCTGGAATCCAAAATCTGGTCCTTGTGAT
TGTGGGGCCAAGAGCAACAGCGGATCTGTCTTTCCAGACCCCAAACATGCAGGCTTTATTTTACTAATCACTATTGTGGGGGTGGTCATTGGGG
TGTGTGTGTGTGTGATGTAAGAAAGACCTTATAGGGAAGCTATATGAATAGGTCTGATGCAACTTGATGAGTTTTGACAACTGTGCGCAAGAAT
ATGAAGAACACTCGGTTGTTTTTTTTTTTTTTGCTGTCTCCTTCGAGTTGACGCTGCCTACTACAAGAAACCACTGGCCTAATTTCTCTCTGTTT
AAGTTCTCTACCCCCTCTCCCTCTCTCTCCCTCTCTCCCTCTGCCCCCCCATTTACATCTAAGTGAATCATGTAAGTGAAGTCATGTAAGTAAG

TATGACTAGCTTCTTTAGTTTGTTTTTTTTTTGGAGATTTCTCTATGTTGTGTGGCAGGAATTCGTTCTTTTGAATGCTTTGGTGCATTTTTGAA
TTTATACTCTATTCTCACAATGATAGGTACATATGTTACTGGGTTGGTTTTGTTGCTTTAGAGATAAGGTCTGGAGTAGCCCAGGCTGGTATCA
AACTCATAACTCTCCTGCTCCAGCTTCCGGAGATCTGGGATTATAAGTATTTCCCACCATGTCCCAACTTGGGTTCGTTATTAATTAGAAGTCT
GTGTCAAATTCTCTCTTGGTGCACATTATTTCACTACTCTGAGACAAATACTTCAGGGTGGAATTGCTAGACAGGTGTATATTTAACAGTATCT
GAAATATATTCTTTAAATTATTTTAGATTTATGATGTGCTCATGAGTATTTTGCCCACATAAATATATATGCACCATACTCATGCCGGGTATTT
GCAGAGGACAGAAGACAGCATCAGGTCCCCCTGGAAATGGAGTTACAGAGAGTCTTGAACCACAGTGTGAGTTCTAGAAACCAAATCTTCATCC
TCTACAAGAATGCCAGCTCTTAATTCCTGAGCCATCTCTCCTGTTCCATTTTAAATACCTTAAACCATTGGTTCAAAACCTTCCTGATGCTGCG
ACCCTTTAATACAGTTTCTCATACTACGGTGAGCCCCCACCCATAAAATTAGTTCGTTGCTACTTCATAACCATAATTTTGCTACTGTTATGAA
TCGGTATGTAACTATTTTTGGAGCTAGAGGTTTGCCAAATGGGTCACAACCCACAGGTTGAGAACTGCTACCATAAACAGTTTGCCCAAGTAAT
TTTATCTTGTGCTCTCAACACTATATAAAATAATTCCAGCAGCTCAGATTCCCCTTCACATTTGGTGCAGATTTCTGTCTATTTTTTTTTTTTT
TCTATTTCACCCATCCTAACGGGCAAATTCATGGTGGTTTTTCAATTTGTGGGTTTTTTTTTCCCTTGAAAAAGTTATTTATTATTTGTGTGAAG
TGCATAAGCACACACGTGTGGAGGTCAGGGAGCAACTTTCAGGAGTGGGTTTTCTCCTTCATCCATGGGTTCTGTTCAGTTAACTTGGGCCATC
GGGTGTGGGGGTCAAGCACACCTAGCTTGCCTCTCTCTCTCTCCCCATCTCCCTCTCTCCCTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

ACAAAGTACCTTCAGAGTGAAATTCTACTTATTTGTACTTATTCCTTCTACAGTTTGCATTTTATACTGTAGAGGAACTTGAGTGAACACTCCT
ATAGCATCTCTGACACAAATATTTATCTCTTCAGTTTTATACAATGGGTTTCATTGTGACTTTTCCATAGATGCATATAATGTATTTTGATCAT
ATTCACACACACACACACATACACACACATACACACATATCATCCTCTGTGCTCCCACTGATCCCGAGGAGGTAGAGTACGTACCAATCCTTTA
AATTGAGAGAAGAAGCATGTGAGCAAGCTACTGCACAATCAAACTCATGTCTCACCAACATTCTCCTTGCCTTTGCAGAACTGTGTCTGTATGA
CCCACCCGAGGTCCCCAATGCCACATTCAAAGCCCTCTCCTACAAGAACGGCACCATCCTAAACTGTGAATGCAAGAGAGGTTTCCGAAGACTA
AAGGAATTGGTCTATATGCGTTGCTTAGGAAACTCCTGGAGCAGCAACTGCCAGTGCACCAGCAACTGTAAGTGTGACCCTTTTGTAACCTGGA
TGGGAAAGGATCTAGAGATAAAAGGTGACAGACTCCAGCTCCCATTAATTTGGGTCAACAGATAAAAAATGTGGATAAATCTATGAATAACAGA
TTTTAAAGGCTTCTGTAATATCCACTCACCTAACGTTATTTAATGACGTCTACTTGGTCTAAGAGCTAGGCTTACTAAGTTCTTGACTAAGCCT
GAGTCAATCTGATAGATGCACGACTTTGCTGTTGGCTTCCCCTCTTCATTGAGTTCAGACTGCTCCTTCACACAGCCTGTATCCAGACTCAGTT
TCTTCTCTATTTTGGGGTGTGCATGTATTTTTTCATTGCATATATCTATTATATATAGCACTGTGTTACATAAGAATATTTATCATGCAGGTATA
AACTGTAGAATGAGCACTTTCTGCCCTGACCTGAAACAGCCACTCTCTTCTATATTCCCCCTCCCCTCTGTTACTAACTTTTAGATTCCTTAGA
CAGTTTTCTTTATACTTTTGGGTTATATAGACATACTTATGTTTAGTTACATAGAGAAAGTCTAGGAACTGCAAATGAAAGAAAACATATTTCT
CTTTCTGAAGCTGGCTTAATTTGCTTAATATTGTTATCTCTAGGTGCATTCATTTTCTTCTTTATGGCTGAAGAAAATTCCATCCTAGCTGCTG
AGCTGAGGGTAATGGCACATGTCTTTAAACTCAGCACTCAGCAGCCAGAGGCAGGTGGATCTCTGTGAGTTTGAAGCCAGTCTGGTCTATATAG
TCAGCTCTAGGCAAATCAGGACCAAATAATGGGATCCTGACTCATGTGTGTGTGTGTGTGTGTGTGTGTGTTTATGTATACATATATTAAAG
AAAAATCCATATATTCCACATTTGCTTTAATCATTCCTCTACTGTTAGACACCTAGGTGGGTCCCATAACTGATCTGTTGTTCCAGTCTCCTTT
ATTTTTGACCATGAGGATGGAATGGGTCAGTGAGCCAACCTATGGGTGGAGGGCAGAGTTTAAAGATGACTGCTCTATTGAAGGGCTTGGCTTC
CTCATTTTCCAACCATGTCCCTTCATCCAAAGCTGGATTTCTATTGTCCTCTCACTGAGGTGCTTGCCTGTAACCTCTCTGCCAGTTTTTCACA
AGGGCCAGAGTTTTCTGATCATTGCCTTAAGAGCACATTTCTCCAACTTGAACTGCTTTGAACCAGGAGAGGGGAGTGGAGGAGTTAAATAAAC
GTTGTGGAGTTAGATTACTCCTACCTGTCATGTGCCACACTGGTGGCACTAGTGACAAGGAACAAAGCCACTTATGTTTGATCCACATGCACAC
AAGGATTTTCTAGGAGAGAATCTTGCATTTTTTTCTAGGAATGTGTTGTATCCAATGCCAATATGTATATGAGTATGGAGAGGTCAGTGCTAGT
CTAGGTGTGCTGGCCCTATCCAAGATGCCCTACTGAGCCCTGCCTGGCTGGGGTGCCTGGGCACAGATGACGTGCTGCTCAGGGGAGGCAGAAG
GAAAGGCAGAATGATGGTACACAGCTCATCTTTTCTCTGAAGGGCAAACGGCAGAGTCTGGGATAGATGCCATGTTTCCCAGTCACCTGTGTAT
ACCTGGGTGCCACAGGTGGATCACTGTGAGTCAGGAATGTGGGTCCCCCAGTCCACACTTCCCCCTTAGGGTGCCCATATGCCAGGCAGGAAGG
GGAAGGCAGAGCCCAAGTGAAACCCGGTTTGATTCAGAGTGAGTGCTGGGACAATGGAGTGGCTGGAAGAGAGAAGGCCTTCTTTAGAGATTCA
GGTGTGGCTCTTTAAGACCAGGGAGATGATCTTTGTCTCTTCATACTGGTTTATTTGATGGTGGGTGTGACTACATACACTTTAGTCAGGGTGA
ACCAGGGATTAAATCCCTTTTGCCGGAAGGAAGGAATACCCAGGAAGAGCAGCTCATTGGCTGATGGCTAAGGGATACCTCATTAGCAAGGAGA
AGAATTCCAGGTGCGTATGCTATGTGACTCAGTGGCCATGGTTCTCAGTGGAGTGTCATGGTTACATATTCCAGAGCAGGTAGAGGCAAGCAGG
GAATGGCTTCACTCCTGCCATTCTCAATTCTGAGATTCCCGGGATTTAAGCTCATTCAAGCTTGCCATTTCTCATGCCTGTCTGGTAACAAGGT
CCCTCATGCCCTACACAGGAGCGGTCTTTTGCTTATCTTTGCACACCCAGCACAGATATGTCTCTGGGCACCAGAGAGGTGTCCCAGGGTAAAT
GACCGCATAGACAGCTCTTTCTATTCTGAACATTTGGGAACTTACTTGCCTCATTTCTCCCATATTCTCCAGCCCATGACAAATCGAGAAAGCA
AGTTACAGCTCAACTTGAACACCAGAAAGAGCAACAAACCACAACAGACATGCAGAAGCCAACACAGTCTATGCACCAAGAGAACCTTACAGGT
AAGACGTGCATCTCAGCAACCATCCTCTAGCCGGCTCCTGGGAACTGAGAGAGATTAGTCCTGTTCTCAACAGGCAGGTGCAACCCATTCTCCT
CCTCCTCTCAGATTTCCATGCAGATGACAGCATTGCTGATTGTTGGCAGGCTCGCTGCTTGGGAGCATAAGAATTCAACTCCTATAGACTCAAT
TCAACTCAAAACCATGTGCTGGGAATATCTGCCATCTAAGCACCACCCACAGAGGAAACACATCGAATAGACAAGGGCCTCTGCCCTTACAAAT
TGCTCCTATTTTCTCTTAAGCACATGCCAATGGACTTCAAGCAAAACCATTGATAAAAATTTGCCTTTTACAGCACAGAGTTCTAAAATGGTAA
CCCCACACACTTATTCACTACTTAATGTGGTGTGGATGTGTGGGCTCTGTGTCTACATACAGTTTCCCAGATGGAATGATAATACTTAAATTAA
GCCATAATGTCAAGAAGAAAGAGGCTTACTAGTGTTAGAGCCGGGGTTTCAGAGATCAGTGAGCCTTAAGAAGACCCTAATAGTCTTATGATAA
AGTTATAACCTTACAAAGAACATTATTACATCATGTATAGTCCATCTGAACCCACAGCTGAGTGAACCAGCGAATAGGAAGATGTTCCTTGATT
ACCAAAGAAACTAAGACACAGAGCCTTGAAACGGCCCAGCTACAGTCACATCACAGAGGGAAAGCAAAACCTCTAGTCCCCCTTTCTTCTGAGA
CCTTATTTTTAGCTACTTAAGAACTAGTCACAGCATCCAGTATTGGGGTGGGGGGATAAAGTCCAATCTAGAAGCATTATTGCAATGTGATGCT
TTCATTTCCCTTTCTTTCCCAGCTCTGTCCTGGAATAGTGTTTTTCAAATACATTTAATGTTTTCTCTGCTCTCCTGGTATCTGGTGCCAACCT
CGACAGTTACTGAAAGGTCTCTGTTGGTGGGGTGTCAATATTTGTTCTTACTCAAAAGACAATCAGATGAACTTGGCATGGTTGTACATGTCTG
TAATCAAGCATCTGGGAGCAGAGGCAGGAAGATGAGAAGTTCAAAGCTGTCCTGAATTGTATGATAACCTCTTCAGCCCCAAATAATGAGGGAC
GGAGAGAGAGGGGAAAAGGAAGGGAGGGNNN

AAAAGGTGCTCATGAGTTTTTCTGGTTTCTTTGGCTACTGCCGTCTGTCACATTTCATGACTTCCTCTGTGGTTCCCTTGGGATGCTGTTTGCT
TCTCAAAACTTCCCTCCAGAGAGTCACCCCCATGGCCAGGGCATACCAATACTTCCTAGCAAGACCCTGGGTTTCTGAGTTAGGGTTACTATTG
CTGTGATAAAACACCATGATCAAAAGCAACTTGGGGAGGAGGAGGCTTATTTGACTTTCATCTCCACATCATCATTTATGATAGAAGGAAGTCA
GGAAACGGCAGGAACCTGGAGGCAGGAATTGATATCATGGCCATGGAGTCATGCTGCTTATTGGCTTGCTCCTCATGGTTTGCTCAGCCTTGCT
TTCTTATAGAACCCAGGACCACCAGTCCAGAGGTGTCCCCACCAACAATGGGCTGACCCTTCCCACATCGATCACTTATTAAGAAAATCCCCTG
CAGGCTTGCCTACAGCTCAATGTTATGGTAGCATTCTCAATTGAAGTTCTTTCTTCTTCAACGACTGATCACAAAGGAACTGTCAAAGCTCTAT
TCGTCTCCATTTGGTAGTGGTGGTGTTCTCTC

ACTGGCTGGCTCACATTAGTTACGTTTTTAGGAATTTCATGGGTTTTGTTTTGTTTCGTTTCTTTTCTTTGTTTGTTTGTTTGTTTGTTT
GTTTGTTTGTTTGTTTGTTTTGAGACAGGGTTTCTTTGTGTAGCCCTGGCTGTCCTGGAACTCACTTTGTAGACCAGGCTGGCCTCGAACTCAG
AAATCCACCTCCCTCTGCCTCCCGAGTGCTGGAATTAAAGGCGTGCACCACCATGCCCGGCCTCATTTTTTGTTTTAAATGTTCGCCCTGGGAA
TTTAATCCAAGGCCTTGAGCATGCTAGACACATGTTCTATTCAGCTATGATCCAGCCCTTTGAACTGTTTTGTTAATACTTTTCTCTCTTTTTC
TGTTTCGTAATGTTGATTTTTGGGTGGGATTGGAGCACGAGCATCCGGAAGTTAGAGGACAAGTTTTGAGAGTTGGTTTTCTCCTTCATTCACT
AGGATTGGTGCCAAACTCCCTTACTCCCTGAGACATCTTTCTCCCCCAGTCGGATTGTTAGGTTTTGTGTGTTTGATTTGGTTTAGAGCAGTAG
TCCTTAGCCTTCCTAATTCTGTGACCCTTTAATATAGTTCTGTATGTTTAATGGCTAATCTTACTCCAACTCAGCAGTTATTAGTCCACAGGAC
TAAATGAGGAAAAATCCACAACTGCCAAGTGTCAGACATTGCACCGCAGGCCACAGACATGCACAACCCAGCCCTGCTCGTAGGAACTAGTAGA
CTGGAAGAAAAAAAAAAACTTGAAATATTTTTGTGGTGCTGAGGATACAGGTCAATAGTAGAATGTTTTCTCAGCCCTGGGTTCAATCCTTAGTA
TAGAAGAAAAAGAAGAAAGGGAGATATGGGTGGAAGGAAATACGGAGGGAGGAAGGGAATGAGGGAGGGAGGGAGGGACATTTGTTGAAA
GTCTAAGATGGAGATATGTAAGCAGAAGGACATTTAATCTACATGGGAATCAAAAGACAGCTGACTGAGCTGGTATACTCTGAAGTGTCAGATA
AAACGAGCCAGGAAACATCTCCTGGAAGAGGAAGCTGGGGCACCTATGGAATTGTGAATCTGTGTGGTGATGTCTGAGAGAAGGTTGAGTTGTA
GGACATAAAATGAATGGGCACCATGGCCACAATGATACCACACTGCCCAGACAGTCAGAAATACTGTCATGGAAGATGAGGCCGCATTGAGGAG
CTGGGCCAAGATGCTGATGGTGGTGGCACCTCAGATCACCTCACCTAGGAGAGAAACCGTTATCTTGGCCTTCTGGGTGATCTGCTGCGTAGAG
GCTTACCGTGGGCAATGTGTTGACAATATGATTGCATTATGGTGGAATAAATCCACATAGAAGTTGGTGACTGTGCTTTTGTGGGTCTGTGGAT
CTGAGTGAATGGAGGAAACAAACCAAGGGGTATAGAAAAGAATTGAGCAAATTAGTATGACTGGTAAGCTGGATAAAAAGATGGAGTATGGAAG
AAGGATGAGTCAGAGAGAGGGCCGTGGGTTTCTCAGACAGGGAGCCTCTGTAGCCACTACATCCTACAGTGAAATGCAAATTGGGGGTCTCAAGC
AATGCATCCCTTAGAGGTTAGCCACAAGCATAGCCCAGTAGGACATCTTGCTCAGACCCACTCAGCTCTATAACCGGCCTAGAGTTAGTTGTGT
TGTGAGATGACCTTCTGTTTGTTTGTTTGTTTGTTTGTTTCTCAAAACACTGGGTTGAATTGCCAGTGCACAGAGCAGAGACTGAGTGCACAGC
CAGTGTTGGGCCCCTGGGTGGTTGCTGGAGCTTGAGGCTGTTTTTCGTCAGGTGGGAGGGTAACAAGATTCTGAAGTAGAACTCCAAGTTAGAC
TCTCAGCTAGGGGGCTCAAGGGGACTGTTCAGATGGAATGGGTTTGGGTGGAGACCATGTTGTTCTCAGTATACAATGGCATGCATGGCTGTGA
CAGGGTTATTCTTCTTCCAGGAGGAAGAGCAGAAGAACCATCTAGCAAGCTAGAAAAGTCAGAGCCCAGGCAAGCGGATGGGAATCACAAAGCT
CAAGCCAAATCTGAGACGCCAAGCATTCACCTAACGGCTGTTTCCTTCTGATCCCTGGGTTTCTAGAACATTCTGAAGTCACAGGACATAACAG
CAACTCTATCACTAAACTGGACTTTGCCATTGAAGAATAGGATCTAACCACTTCAGCACAGCAGTTCTAAAGCTTTAATGGGAGAGAGGGCCCA
ACAGTGCTCTGTGTGTTTTGTTTTTGTGTATATCTGTTGATGGGAGCTGAGATGGTGTGGTCACTTTTCATGTAACATATAGTATAGAAAAAGT
AGCTTTAGGTTGACTTCATTGTTACAACCCAGTTTGGAAAGCCCAAGTAAAACTCAGCACTAATGTAAATAATTCCTCCTCCTCCTCCTCTCTC
TTTTCATCCTCCGCTCCATCTTCCTCTTCTTCCTCCTCCTTTTCCACCTCCTCTGTCCCTACCCACCCCCACCCATCCACTTTCCTTCTTCCTT
TCTGCTCTCACAAGCTCATCCTAGCTACACGTGCATGGCTGGCTCCTTTTTCAACCTCTGTTTGCCTAACTGGCTCTTCTGATTTCATCACTTA
CTGATCAGCCTTTAAAACTCTGAGCTGGCAAAGATGACTCTATCTATGTTCTTGGCTCAGTCCCAGAAGGAAACCCCCTTTTCATGAAGCTTCA
GTTTTGACATCCTGAAGAACAGAAACTGTGGCAGAACAATCTTCAGATAACATCAAAACAAAGTGGAGAAGCCACGGGAACTGTGGAGCTCTGG
TATTCAGAAGCCTGTGTCTAGGGTCTGCGCCAGGAGCAGAAGGCTGAAGGAAGTCCCAGGACGTGGACTTAGATGCTTTCCCAGCAGCCCACTC
TAAGCGCTGGTTTCTTTGGGACAGCTGTCAATTGTACGCTCAATTTAGCCTGCACTAATCTGATGCTTACAGGTGAACACTCAAGGCACAGGTA
TGGACTTGGTACATACCGTGAAAACACTGGAAAGAAAAGAATACTTTCAAGTTTACAGAAGGAAGGAAGGAAAAAGGAAGCAGAGGTGGTGATT
ATACAAAAGATTAGCTGTAGACTGGATATCCCAGGCATCCTCGGATAATGCCCCCGCCCCAGCACCCTGATCCAGGTCACCAAAGCCTTGTGAG
ATCAGACTGCAGAGCCAGTCTGTCTCTGAGTCAGTAAATGTAGAATTTGGATTTCTCACAAGTTCCTGGCGGTGTCTTTTTTTTTTTAATATT
TTTTATTAGGTATTTTCCTCATTTACATTTCCAATGCTATCCCAAAAGTCCCCCATACCCTCCCCCACACTCCCCTACCCACCCACTCCCACTT
TTTGGCCCTGGTGTTCCCCTGTACTGGGGCATATAAAGTTTGCAAGTCCTGGTGGTGTCTTTATGCTGATCTCTAGCCCACACTTTGTGAGGCA
CTGGGCTATCCCAGTGTGCTCTCCTCTTCCACAGATACCAAAAGCACCTGGGTTTGATGCTCAGACTTCTGAGCACGTTCTTGTTCAATCTCTT
GCGTAAGATTTCCTCTCAGATGAGTTGAGTCAGATTCTCATGTTTAACAGTGTTTTAGGGGATTCACAGAAGCCCAAACTATCAGTTTTCATTT
CTGAAAAGGCTGGAAAATTTTATGAAAAACTTTCAAAGGTCAGACAGAGCCATTTTGAGTCTTTTATGTGACCAAGTATGAACCAGATCTTTCC
TATCTATGGTCTCCCCTTTCCAAAATATATCTTTTGTGGGGACACGGCAAGGAGGAAAGTTAAATAGAATCTCAAGCTACTAATTTTAGAAAAG
AAAAAAATATTAAACTCTTACTAAAGAGCTGTGGGTAGTGGTACACACCTGTAAGCCCAGCTCTCAGGAGACTGAGGCAGGAGGATTGCAGTGA
GTCAGAGATCAGCTTCACCTACAAGCAAAACCCTGCCTTACCCCTCAACCTTTCCATAAAAACAGTCTTACTTGTGTAAAATTAATTTTTAATA
CATATTTGTGCACGATGTGTGTGCCTGGTGCCCAGGGAAGCCAAAAAAATATGTTCAATGTCCCTGGAATAGGTGGTTATGAGCTGCCATGGAG
GTGATGGGATTTAAACCCCTGTTCTCTGAAAAAGCAGCTAGTTCTCTTAACCACTGAGCCATCTCTACAGCCCCATTAAATTGAATTTTATTGT
CATTACTCAATATGGGAGATGGGGTAATGATAACAATTTTTTTTTTATAATACTAAGATGTTTAGCTATTTTACTCTCCTTCACAAGTGTAGAG
TAGAATTTTCTAGAAGCTACATGCATGATATTATCGCTCTGGTGTTAACACATAATGGATTTATCTTGTTAATAAAAGAATTAGTAAATAATAT
TTTAAATTTTTTCTTTGTTTTAGTTTTAAGATGATTAATATCTATAGATACTAGTGTACATTAAGAAAGCCTTTGGGATCCTCAATCATTTTGC
ATGGTTTTAGTAATTTTTTAATAACATAAAGAAGGTCTGACAGATTATGCTAAAGAGCTATTGTGGTATGGATTAGAAATGGCCCCCACAGGCT
CCTGTGTTCAAACATCAGCTAGCAGTGCTGCTTTGGGTTTTGGAACCTTTAAGAGGTGGGGCCTTGCTTAAGGAGATAGGTCACTGGAGGTGAA
CCAGACTTGCTTCCAGTCTCCCTCTCTGCTGTCCCAGGAAGCCATCATATGAGGAGTTTCACAACATACTTCTGCTGCCACAGAGTCCCTCCAG
TAAGGCACGTACTGGCCACTGTGTAGTGTACCCTCTAAAACTGAGCTAGAGCTCCCCTCTCCTCCCTACACTATCTCTGTTGATGCTTTGTCAC
GGTGATGAAGAACATAAGTAAGGCAAAGACAAGACATAGTTTGGAGACTCACGTGAGCATCTCAGCCAGACTCAGGCACAGCTGCGATGTGGGA
ATTATCAAGCATGAGATGCAAAGCAATGGAAAATGAATCGTTATGACAGAAGCCTACATCTAGTCTTCCCTTCTTCCCATTAGTAATAATAGCC
CGTGTTTTAGAAGAACACATCTTTTTGGTGTTCTAGGTAGCTTATATTGCAAATGTGGCACAATCTAAGAGAAATCTGGGATGAGGGAACCTCA
GTGAAAGATTCTCCTTGATCAGATTGTCCCACTGATGATTGATATGGGAAGGCCCAACCCACTGTGAAAGGCACCACCCATTGGCAGGATGACT
GGGGTTATAGAAGCAAACAGGCTGAGCATGAGCCAGTGAGCAAGCCAGTAAGCAGTGGCTTCTCTTTGGAAGAAGCATGGCTTTCTTCCGTGGC
TTCTGTTTGATCTCTCTCAATGATAGATTGTGACCTAGAAGTATAAGCTAAAATAAACCATTTCTTACCCATAGTTGCATCGGTTGTGGTGTTT
ATTTCACAGCTACAGAAAAGTGAAACAGAACATCTTTCTCCCAAGCTAATGGTGTTTGCCAGCCTCCTTCAGCTACCTGTGGGCATGTGGTTAA
GCTCTGAACACAGAGGTGTGAGTAGAAGCAGTGTGTGACGTCTGGGCTGTGCCTTGAAGAGAACATAAGTGGCATTTTCTCTCTTAGCTCTTCA
AACCAGCAGGCACATGGCCTTGTCTTGGGAGCTAGAAATCCCAATGGCAAGAACCCCATTTTAAGTTTGACAAGGAGACAAAGTTGAAGAAGTC
TAGACATTTGTCTGATGCCAGGGAGGCATTGCAACATGGCTGATTGCATTGGACTGAACTTTGGTAAAAAAACAAACCAGTTGAGGCCATGACT
TTTACCTTGTGAGGACAAAATTAACGATCACTAACACCGGTACTGTTACCAGCTATATACAAACCCTCTTCCCATAACAAATTTTTCTTACGG
TAATACTGGCATCAAAATATTTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAACGAACAATTACTTGTTTTGTGTTGAATGACTCTG
CCTGAGAGTTCCCCTCCAGCAGGCAAGTTCCTGAGATGAAATGCATGAGTTCTTATGGAGACATCACCATCTCTCGGGGCTTCTGGGTAAGTCA
TGAATCGAAAATAGAAAGCTTCTGGGGTCCCTAAAGCCCTTCCTCTTATTTCCATTCCACTCCTCAAGCGTGAAGGATAAAATACATTCCCTGT
TCTGCTGTAATATTAAGGATTTGGATTATTTTAGTCTGGTTCCTTGGCCATATATCAAAACCTTATAGTAAGGGGCCAGTGAGATGGCCAGTGG
ACAAAGGTACCTGCGGCCAAGCCTGATGACTGAATTCAATCTCTAGAACCCAGATGTTTAGAGACCTGGTGCCATTAACTCCACATGTGCACCA
TAGTACAGGCTTTTTTCCCATCACACATGCACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACAGTT
TAGCTACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACAA
CCTCCCTCTGCTAGCAAATGCTCCCTTCTGGTATTCCTGAGACTCCTGAACCTTCCCCTGTCACCCCAGGCCCAATGTAGAAGTGGCCAGTGGC
TACTCACCTGAATTCTTACATGGCTGGTTGGCTTTCTCTCCTGCAGTGCTTCCGTTCTATCCTTCTCCCCTGAGTGTTCGCCATTCTCTGTCTT
CATTTCTCCCAGTTCCTAGCCTGCGCAAATCTAAAGGTCCCACCTTAGTCTACCTGTCCAGCCATTAGCTTTTGGCTCTTTATTGATTGAACAA

AAACCAATTGGGGACAAGGACCTTCAGCGTTAGGACATGCAGATTCCCAATTTGGGGGGCCAGATTAATTCAAAGCATTGGAACCAATCCCCAA
CACTTATATATTAGAGGCAGAACTTGGGGATACAGTCTCCTTGAAGCTAAATTGTTCTTTGGATAAACAACACTACTGGTGACATAGAAGAGAT
AAAAACCCTACAAACTTGGTGTTTTTGTTATTGAGACAGCGTCTCACTGTGCAGCCCAAGCTGGCCTTGAGTTTACAGTCCTATTTCAGCTCTC
TGGTATTTCAGGTATGCATCAACTTACCAAGCTATAAACTTGGCTTTCTTGAGCCTTGAACTTCCTATGTATTGACAAATACCCTTGAACTTCT
GGTCCTCCTGTCTCTACCTCCTGAGTGCTGGGATCACAGACACATACCACCATGCTCCATTTACACAATGCCGGAGATAGATCACAGGGCCTAG
TGCAGATTAAGCAAGTACTCTGGCAAACCAGACCAAAAAAAAAAAAACCAAAAACCAAAAACCAAAACCAAACCAAACCAAA
ACAAAACAAAACCTGAGACAGACACCAGTATATTAGGATACTCTTGAATCCTCCCTTTTTCGTCCCCTCCAAAATTGCAACTAGAGTTGTAAGT
TCTGCCCCCCATGCAAACAAACAGTCCAGATAAACTGAACTCTAGTGGTAAATGTCAATGAGGGGGACCTCTGATCCACATATGTCAAGATGGA
GGTTTGGAAACACTACATGCAGAAACTCCATAGCTGAAGTCACAGGATGGCGGGGTGACACTCTGTATTCCAGCTAACAAGCTAGGGAACTCGA
CTGTGTGCACGTCCCTTGTAACCACCTACACATGAACTGGGAAACCTAAGATCCCTGGATGTTAATCTGCTGGGTTGAAAAACATTCCACCTCC
TGTGTGACCAGAGAAGTGGGGGAGCAGGAAACAACAGAACTGGTTTCCTTCCTACCCACTCACAGCCTCTCTGTGATGGCAAAGGGAAAGATAC
AGAGTACTTAAGGCCAAAGCTTGAGACTTCTTGAAGCTTTGTGAGTTGTGGAGGAGAGACAGTTCTAATCCCAGAGTCCTTGTTAAGCTGAGGT
ACCTGAGAATTTAGAATGGTCTAGCTGTGTTTTGAGACCAACCACTATGAATACAAGCCCGGCAGACTGGACTTGGAAAAACAAGGGAAAATTA
GAGACGTCCTCTGAATTTTCCTTTAATAAATATGGCTCAAACAAGATCCAAGTGTTCCTACCTGCCCAACTTGTAAGGCATGGTTAGCTGAGGA
CACAAACAGGCATACCTCTCAGGGGAAAGAGCTCAGGGACCCTGCCACAGGCCTGCAGCAAAGTGAGTCTCCAGATGGGCACTGTCCTGGGAAT
TGAATGGACACCCACAGACATGCAGGCTGCTACCTGCTACACTCCCTCTCCATTATACAACATCTTTGACCCCAAGGTCAAAATTTAAACCAAA
TTCGAATTGAGTTAATAATTAATCTAGGAAATTCCTGCAGTGGATAAAGGAAATAAACTTGGGATGAAAAATATTCAAGCGAGGACACTGAGGG
CTTAGAATCAGATATTAACCACTATGACTATAAACTATTGTTCTTACCCTAGGTTTGGAGGCCAATCTGTTCCCTTGTCTTAGGAAAAATACAT
AATATTTTGCTCCACAAAGGACACGTTTGGGAGTCATGGCCATTTCCTTTCCTCTCCAACAATTTCCATCCCTGAAGATGTCTTGTGTGTATGT
GTGTGAATGTGTGTGTATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCATCAAACACTCAACAGGAAGCAACTTAAGGGAAAAAGGTTTG
TCTGGAATTGCTGTTCTAGGGAATGTGGCTCATCTTGGCAGAGAAAGTATGACAAGAGATGTAGAAGAAGCAGGTCACATCTAAAATCTAGAAA
CAGAGGGATAGTGATGGTCAGTTTGCCCATGAAACGGTACCAGACATTTCAGATGGTTCTTCCCTATTCGCAAGCATCTTAATAGACCCACACA
GAGGTGCGTTTCCATGGTGATTCTAAATTCAATCAAGTTGAAAATCGTCATTAACAATTACAAATTCAAAGAAATCCTAAAAGACACGTTATGG
AATACAAGGCGAACCCATTATGCTATCTCAAAGCAGGTACGAATGTCCATCCGTCGTTGGTGGTCCACAAGGGGAAATACTCTTCACCACACTC
GTATTTTTAACTGAAAAATACGATCGATGCATGCGTATCCATTCCTGTGCTGGCTGGTTTTGTGTCAACTTGACACAGCTGGAGTTATCACAGA
GAAAGGAGCTTTAGTTGAGGAAATGCCTCCACGAGATCCAACTGTAAGGCATTTTCTCAATTAGTGAGCAAGGGTTTGGAAAGGCCCCTTGTGG
GTGGTGCCATCTCTGGGCTGGCAGTCTTGGTTCTACAAGAGAGCAGGCTGAGCAAGCCAGGAGAAGCAAGCCAGTAAGTAACATCCCTCCATGG
CCTCTGCATCAGCTCCTGCTTCCTGACCTGCTTGAGTTCCAGTCCTGACTTCCTTGGTGATGAACAGCAGTATGGAAATGTAAGCTGAATAAAC
CCTTTCCTCCCTAACTTGCTTCTTGGTCATGATGTTTTGTCCAGGAATAGAAACCCTGACTAAGACAATTCCCCAAGCTGAAACTTAAAAGAGA
CAGCACCTGCTTCACCAACTACTCTTTGCTTTCCTTGCCTGGTAAGTTTAAAGATACGTTGTTTTTTTCTATCAGTGTTTCAGGGTGTAAAGACC
AATTAGAATATACTCAGTCAATTTTTCATACAATGTAGCTCAAATACAAAACACATTTGTATGGTTACAAACCATGAATGAGCTGTCATAGTTA
CTGAAGCTCACCTGGCTGGTTGTGATGGATATCCAGACTTCCGGACCCACATGGAAATTACAGCTGTGCTAGCTGTCTTAGTGTTAGAAGATGC
TACTACGTAGGCTGAGGGAGAATTCTTTATAACAGTCTTACTCAGTTATGAGTCCTGTATGTTATACTACTGACCTGGCAGGCAAGATATGCTC
ACTGGTTCAAGAGCTTCATGATTGATGAGCAACTACTTTCTGATTCAATTTGAGGCCTGTTCCATTCAACTCATGTCTGGTACAGTAACCTTGA
TCAAAAGTCAGAGTCCAGGCAGGCCATAGGTACCACTAGAGAAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

MOUSE SEQUENCE - CODING

ATGTGCCAGGAAGATGGAGCCACGTTGCTGATGTTGGGGTTTCTCTCATTAACCATAGTACCCAGTTGTCGGGCAGAACTGTGTCTGTATGACC
CACCCGAGGTCCCCAATGCCACATTCAAAGCCCTCTCCTACAAGAACGGCACCATCCTAAACTGTGAATGCAAGAGAGGTTTCCGAAGACTAAA
GGAATTGGTCTATATGCGTTGCTTAGGAAACTCCTGGAGCAGCAACTGCCAGTGCACCAGCAACTCCCATGACAAATCGAGAAAGCAAGTTACA
GCTCAACTTGAACACCAGAAAGAGCAACAAACCACAACAGACATGCAGAAGCCAACACAGTCTATGCACCAAGAGAACCTTACAGGTCACTGCA
GGGAGCCACCTCCTTGGAAACATGAAGATTCCAAGAGAATCTATCATTTCGTGGAAGGACAGAGTGTTCACTACGAGTGTATTCCGGGATACAA
GGCTCTACAGAGAGGTCCTGCTATTAGCATCTGCAAGATGAAGTGTGGGAAAACGGGGTGGACTCAGCCCCAGCTCACATGTGTAGATGAAAGA
GAACACCACCGATTTCTGGCTAGTGAGGAATCTCAAGGAAGCAGAAATTCTTCTCCCGAGAGTGAGACTTCCTGCCCCATAACCACCACAGACT
TCCCACAACCCACAGAAACAACTGCAATGACGGAGACATTTGTGCTCACAATGGAGTATAAGGTAGCAGTGGCCAGCTGCCTCTTCCTGCTCAT
CAGCATCCTCCTCCTGAGCGGGCTCACCTGGCAACACAGATGGAGGAAGAGCAGAAGAACCATCTAG

HUMAN SEQUENCE - GENOMIC

CTGTGCCTAGGCTGGAGTGCAGTGGCACAATCGGTAGCTCACTGCAGCCTCAACCTTCCAGGCTCAAGGATCCTGCCACCTCAGCCTGCTGAGT
AGCCGGGACTACTGGCACGCACCAACACACCCAGCTAATTTTTAATTTTTTTCTAGAGAATCTGGTCTCACTATGTTGCCTAGGCTGGTCTCAA
ATTCCTGGTCCCAAGCAATCCTCCTGCCTTAGCTTCCCAAAGTGCTGGGATTACAGGTGTGAGCCCCCACACCCAGCCCACTTCCGCTCTTAGG
GAGAGGCGAGTGCATTTCAGAGAGCACTCGATGCTCCCAAAAGAAGAAGTTGACAGAGCCCACGTCCCCTCAGCCCTTCACACAGCCTCCCCTT
GTCTTCCTCTCCTACTCAGCACTGTGGCTGCACTAGGACCCCTCATGATGACCAAGATCCTCATAAAGAGGACAAGAAGTTCATCCAGTACCAG
TCAGGCCAATATCCCAAAATTAGCATAACTGGCAGAAATGCAGAGGCATCAACAACTCCTCTTGACAACAGGGTTGGTAGAAGAATCAAGGGCC
TAATTTTGATGCCTGGCACAGGTTATGGGAGCAGCAGAGTACATGCTGCCCAGCGGCTTCCAGAAGCTCCTGGTCCACCCCGTCAAGAAGCCGG
AGGTCCTGCTGAGGTGCAACACATCTCAGTGTGCTGAGACTGCCCTCAATGTTGCCCCCAAGAACTGCAAAGCCATCCTGGAAACAGTGGCCCA
GCTGCCCATTGGAGTCACCAATCCCAGTGCCAAGCTGTGCAGCAAAGAAAAGGATTAGACTGCTCATGTGCACGTTTTATTTGTTTTTAAATTA
AAAAACAAAAAAAAGAAAGAAGGAGGAAGTGGAGGAAGAGGAAGGAGGAGGGAGGAGGAGGAATTTACATCAGCAGGCCGATCACATACTA
GTCCTTGAATTCATGGTTGAATGTACTGACCATTCTCCCTACGGACACTTGAAGGTTTCCATCAAACCCTTCATAACATATTGCATAATTGTGG
ACTCTAGACTTGGGCCACAACTGAGTGATTTTTTTTTTCTCAAACCCAATTCCACAAAGTAAAAGCCTGATGAAATACAGTGAAGGCTGATGCC
TTATTAACTGTGTTTCCCAAATCCAGAGCTCTAAAAAGGTTCTGCATACAGTCATTCATTCAATGCTTAACGACTGAGCATTAATTCCATGCTA
AGTACTGAACTCAGCACTAGGAATAAGAAGGCGACCTAGAGGCATATCCTCTCTCTAAAGATGCATAGAGCCTCATTGGAATGATCAGCCGTGT
CTCCAGAGAGCTACAAGGCAGTTTTCAATTGGTAAATGCCCTGAGAGTGATGGGCTTGTGGCATGTGTAAGGGTTAGACAGACCTGGGACCTAG
ACATGACACCACTCCTGACGAATTATGTGAGTGTGGGTGTTTCACAACCACAATGAGATGCAATGCCTGCACTTGTAACATGGAAATAGTGATG
GCATGCCGGCCCCGCCAGATTGCTGTGAGAAGTCAGCGGCAGAGACATGCAACATTCTCAGCACAGTGCTTGCCATGTAGTAAGGGCCTAGTCA
GTGCTAGTGATTCCTTTCAATATTCCTAAGATGCAGATAAGGGAACAGCCCAGAGGAGGGGGAGCACTTCCAGAGGGAGGGATGCGGTGAGACT
TCCTTCAGCAGGGTAGCACTGGAGCTGGGTGTTAAGGAGTGAGTGAGCTTTGGGCTTATGGATTTAACAGAGGAAACCAAGAAAAGAGGAGGCG
GTGTTGCAGGAACAGTGAGCAGTTGATGATTTTTATTTTGTTCTCTGGTCTGCTTGGGAACATTTTTGTGGCAAAGACAGCATGAAGGATAGCG
AAGAATTAATACTGAAGAGATAGGCCAGGGCAGGTTATGAAGGATTTTGAATACCGGGCTAAGAAATGTGGGCTTAATTTCAAAGACATTATGG
ACACTCCTAAAATGTTACGTTGTAGATAAGGGAAAAGTATTCTTCCAGAAGATTAAATTGGGGCTGGGCACGGTGGCTCACGCCTGTGATCCCA
GCACTTTGGGAGGCGAAGTGGGCAGATCACCTGAGGTCAGGAGTTTGAGATCAGCCTGGCCAACGTGGTGAAGCCCCATCTCTACTGAAAAAAA
AAATTAGCCGGGCATGGTGGTGGGTGCCTGTAATCTCAGCTACTTGGGAGGCTGAAGCAGGAGAATCACATGAACCTGGGAGGCAGAGGTTGCA
GTGAGCCAAGATTGCACCACTGCATTCCAGTGGGCGACAGAGCAAGACTCAGTCAAAAAAAAAAAAAGATTAAACTGGAAGCAATGGGTAAGAA
TGGTGGAGTGGAGAGACACATTTGAGTGAGGGAAGCCAGCTGAAAAGCTGTACAGACGTCTAGACAAAATGTGACACAAGCATGCCTTCACCTC
CCTGCAAAGACCACAGACCACTGAGCTCCAAAGGGGGTTTGGAATCCTTGTCCTGGGCCGCCATTGGTAACTCATCAGTGCTGGCTTGAGAGAT
AAACTCTATTATCCATCCCTGAACTAAAATCATGACAGAAGTGGCCAGGGAGCTTTGCTGCTATCCCCCCAGGAAACACGTCCTCCACTCAAAT
GGAAAGAGGACCCTCTGACAACATCTGTGGGACCCAACAGCACTGGTCACCACAAGCCACAAAATGTTAACAAAGTCAGTTTTCAATTGTTAGG
GACGGAGGACTCAGTTCATGATTCATACAAACCAACTGTTCTCTCCCAGTGTTTTCTGGGTGGCACAACCCACAAGTCAACAGTGGCTTGGGAA
CTAGACATTTGAGTAGAGTTGGGTTATTTGATTCATAGTGGATTTTGGTTTTCCACGGGACCCCTGTGCCCTTGTCTAGTAGAATCTGGTGGAA
ATTACAAACTGCAGAAATTCAACTCAGTGCCGCAATAACAGGATGCACCTGTAGATTTCGTAGAATTAGCAGCAGCATTCTTTCAATACCAGTT
TGAGAGAAATAACCCTGTTTGCATAGTGCCAACTGGGGCAGAATCTGAAGTGTCTTGCCTGCCTCTCGGCCATGGGAGGCACCGATCTCAGCAA
CATCTATCCAACCGCCATCCACTTAACAAGCAAAGATGGAAGGCCCTCGTGCTCCAGGCTATCCTGCAATGGTTCATTTGCTTTTGATGGGATT
ATCACTTTGACAGATGTGCTTGCAATTAACTGGGGGCTTTCTGCTTCCAATCCAAATTCCCACAGGTGGATCACTGGCTCTTGGGGAGCAAAAA
CCCTTCTTTGTTTGTTTTTGCTTCTCCCAGAGCCTGGGCAGAGCTCCCCATTCCTGGATCCTACGTTGATATGCACTGAATTGAATTATACTAA
AGGGTGCACCCAAGAGTGCATGAGCTAAGTAAAATGTAATTTGTGGGACCTCATGTGGACATTTCAGGTCCATGTGTACAAGATAAAGGAGAGA
AAATCCTGGGGGACACCACAGGCCTGGGAAAATGACCTCCTACTAAGCCTAACAAGAACATCCAGTACATAAACAGCAGGCTCTCTGCAACCGC
TTCGGTCCTTCCACTGCCACGCTCCCAGAAAGCAAAGGGTTATCTCCTGTTCGGATTTTGGCTCTGAGACCACAGCTCAGCACATCACTCCTCT
AGAGAAAAGAAAGTCTAAGATGAGAGAGTGAGGCTGCTTTCATGTGGTGCCAGCGTATAGTGCAGGGCAGGCCTGATTGCTGAACGGATCCCTG
CAGACGTGAGCGGTCACTTCCCCTTTTGAGGGCCCATTTCTTTTCCTCTTTGAGGAGACTGTGAGCGTCCTCAGTGCAGGGCTATGTTTTAGCT
TCTTGGCTCTCCTCACAGGTTCTAGCATAATTCTTTGATTAATTGCAGTCAACGTTTATTGATGGATTATGTGACAGAGGTGAAATTCTTTGAT
CTGGGTTTCAGCTTTTCCTTTCCCCCACTCCCTCCTTTTTCTTTTTTTTTTTTTTTTTTTTTAGAGGCGAGGTCTTGCTCTGTGGCCCTGGCTG
GAGTGCAGTGGTGCAATCATAGCTCATTGCAGCCTTGACCTCCTGGGGTCAAGCGAACCTCAACGTCTTGGCCTCCTGAGTAGCTGGGACTATA
GGCATGCGCCACCACGCTCAGCTTCACCTTTTCCTTTCCTTGTGCTCCCCTGGCAGATATGCTGGTAAACAATGAACCAGTCAAGAGGACAGCA
ACAGGAGGAAAATGGGAGAAACCCCATTATTCGTGGACTAAACAGGCTTCCCACTAGTCCTGGCTCACAGAGGAAGTCATGCTCCATGTTTCAA
ATGTCCTCAAAGCTCGTTCAACTCCAAAATGCATGAAGACAAAATGGGAATTTTACTCAAGATTTTTGTGGGCTGTTGGGGAGAAGAGTTAACA
TTGCAAAGCATATTGCAAACTCTTATCTTCAAATGATTTTAAAATTTTCTTCCAAGCTCTTTATTATTTCTCCAGAGCTGCCCTGCTCTTCCCA
CTCTGGGTCCTTTCTCTGCCACTCTCCTCAGCATGACTTCTCCCTAATCGGCCAGCATTTCTTTTATTCTATAGAGCAAGTTTTCTTGCCCTGG
GCACCTCTCATTTGCATGTTATACCACCACACCAAGTGAGCCTCAGAGCACCAGTGTTTTAATCCCTGAAAACAGTCCTTACGGGATTCAGCAC
AGAGGTCCTCTTGGCAGCCTGTAGTCTCCAGAGTGACACGTCCTCAACAGTCAAAGTGAGCAAGCTATGGTGCCCATCACCAAGTGGGGCTCAC
CATTTCCCTCTGCGTTCACTTCTCTCCTACCTTCTTCCTTATCCCATCCTTCCTCCTTCCTTTTTTTTTCTGCATTCAATTATTCATGGTTATT
CATTTCATACGGGCATCTGTGCCACTTGGTTCTACAGGCATTTTTTTTTTTGAGACAGACTTTTGCCCTTGTCCCCAGGCTGGCGTGCAGCG
GTGTGATCTTGGCTCACTGCAATCTCCACCTCCTAGGTTCAAGCAAGTCTCCTGCCTTAGCCTCCCAAGTAGCTGGAATTACAGGCATGTGCCA
CCAAGCCCGGCAAATTTTTGTATTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTCAAACTCCTGACCTCAGGTGATCTGCCT
GCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCATCGTGCTCGGCCGGTTCTATGGGCATTGTGGAAGTGACCGTTAACAAGCCCCA
AGGGTAAGTAAAGGAAAATGAAAGGTGATTGATTCCTCACCACCTCTCCCCTTTTTTCCTCTACTCTTTGCCCCTGCTCCCCAATCTAGACTCT
AATAAACAGAAATGATTTTTGTTGCAAGCTGAAAACTCGTTCTTGTGGTTGGGGCTAGGGGGGTGGCAAGTCAAGCTTTAGAGTTGTCTGGATA
ATAAATGCTGTCTTCAAGGACTGTCCAACATTGTAGGAACAAGAGAACAACCCAAGTGAACAACTAACTCCTGTTCACAAATGCTACTGCCTCT
CTGCCATCCCCTAACCTCAGCCTCACACACTTGAATTTCGCCAATCCATTTGATGAGCTCAAATCAGTGAATTTTCTCCTCGCCAAAGCTCACA
AATTCTGTTCCCCGCTTCTTGCCCCACATCCAGGCATTACCAACTGCATTTTCCCTTTGCCTGATATTCTGGCATCAAGCCTCCTTGCCATTCC

AATTTATTTCACCTTCCTCCAGTCCTTATGATTTCCTTCCTGAAGAGTATTTCAGCATCTCTATGCCTCAATCTTCCCTGCACACCACACCAGC
TCGGCCTCATCATCACATCACTTGGCTATGTCCCGCCTGGGTTAGACAGCTTCAGTGGCTGAAGTCCATAGATCTTATTCTGTTTTTCGAGGTC
CACCTGACTCTGAATCCAGCTGATATTTCTGCCCTTAGCTTCTACCCCTCTCTACTTCTGGTTAACTATGGACCACACTCTGCTTCCTCAGGAA
CCACCTACCAAGGCCGTATCCATCCTTCAAGGACAATACGTGGGCCTTTCCTGATCACATCAGCTCAACAACTTTTCCCTCCTACATTTCAATT
GCTCTTCTTACCATAATCATTAGTATTCACCCCACTGTACGTCTAGAAAGAAAGTGGTCTTAAACCTAAGGGAAGGCAGTCTAGGTCAGAAATT
TGTTGTCCGCTGTTCTGAGCAGTTTCTTCTAGGAAGTACCAAACATTTCTGATAATAGAATTGAGCAATTTCCTGATGAAGTGAGACTCAGCTT
GCACTGTTGACCGGCTGTCCCTGGATGAACCTAGTTACTTTTAACCAAATGTTCCTTTCTTGAACTTGTTCCTTTCTTGAACTTAATCTACCAA
TGTTATCTAGATAACTTTCCTCAAAAAAAAAAAAAAAAAAAAAAACCCTCTACTAGGAAAGAAATCTTTGAACCGGACTTATTGGAAATTACCT
CCTTGCAGCAGGTTTGAAACAAAACTTTGAATTTGCCTCACAAAGAATTTGTCTGAAACTGCTTTAGTATATGCTAGTTATATTTGTATGCACA
TGTGGCTTCATACATAGTGGTTGGACACCCATATGTGTTATGCACTTTGTTAGGTGACGTAAGTTCACAGATAAACTGGACATAGGGCTATCCT
CTAGAGGCCCACAGTTTGACACCTTAACCTGAGATCCTTGGACCTTTGAAGTTCAGAGTGCCCACAACCGCTGGGTGTGGTGGCTCACACTTGT
AATCCCAGTACTCTGCAGGGCTGAGGTGGGAGGATCGCTTGAGTCCAGGAGTCTGAGACCAGCCTGGGCAACATGACAAAACCCCATCTCTACA
AAAATTACAAAAAAAATTAGCCAGGCCTGGTGGTGCATGCCTGTGGTCCCAGTTACTTGAGAGGCTGAAGTGGGAGGATCACTTGAGTCAAGGA
GGTAGAGGCTGCAGTGAGTTGAGATGGCAACACTGCACTCCAGAAACCCCATCTCAAACAAAACAGAGCAAAACAAAACAAACTGCCCATAATG
CTCCTGAAACTTCCTACGGATTTATCCAGAGTATGTGCTGATGTGCATTTTTTCCAAGGAGGGAAACCAAAGGTTCTATCAAATTAAGAAAAGA
GTTTTTACCATTGTGGAAGACAGTATGGCGATTCCTCAAGCATCTAAAATCAGAAATACCATTTGACCCAGCAATCCTATTACTGGGTATATAC
CCAAAGGAATAGAAATCATTCTACTATAAAGTCACATGCACCCGTATGTTTATTGCAGCACTATTTACAATAGCAAAATGGAACCAACTGAAAT
GCCCATCAATGAGACTAGATAAAGAAAATGTGATACATATACACCATGGAATACTATGCAGCCATGAAAAGGAATGAGATCATGTCCTTGGCAG
GGACATGGATGAAGCTGGAAGCCATTATCCTCAGCAAACTAACACAGGAACAGAAAACCAAATGCCGCATGTTCTCACTCATAAGTGGGAGTTG
AACAATGACAGCACATAGACATAGGGAGGGGAACATCACACGCCAGGGCCTGCTGCAGGGTGGGGGGTGGGGTGTGAGGGGAGGGAACTTAGAA
GACAGGTGAGTAGGTGCAGCAGACCACCATGGCGCACTTATACCTATGTAACCAACCTGCACGTTCTACACATGTATCCTGGAACTTAAATTAA
AAACAAAAAAGAGTTTTTAATCCAAAAAAGATTAACAGCAACTAGAAGAAAGAAAGAGATATAAACAGTGAATTGCAATGCAGCACGGCAGGTG
TTATGATGGAGTAGAAAGGACTGGAAAAGGCCTCCTGGAGGAAGGGACACTCAAGTGTCTTTCCATTTCACCTGTAAACTCATTAAGGGCAAAA
GCTTTGCTACAGCTTCAGTATGAGATCCTGGGCAATCCGTGACAAAATGGGTCTGCTTTTGCACCCCCAACTTCTTCTCACATCCCTGCATCGT
GCCATGCAGCATCAACTGGAAACCTCAGCATCAGCAAACGACGACAGAGCGTTCATCCGTAAGGTGAACCAGAAAAGCCAGTTCAATGACTTGT
TTAACCATGGTCCATCTCAGAACCAAGAGTTGGGCCTCTTATTTACCAGAAAAATTGTGGGGGCTTTGTGATATGGCTTTAAAAAAATCTTGTA
ATTGCCAGGCGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGAATCGCCTAAGGTCAGGAGTTCGAGACCAGCCTG
ACCAACATGGTGAAACTCCGTCTCTACTAAAAATACAAAAACTAGCTGGATGTGGTGACGCGTGCCTGTAATCCTAGCTACTCAGGAGGCTGAC
GCAGGAGAATCACTTGAACCTGGGAGGCAGAGGTTGCAGTGAGCCAAGATTGTGCCATTGCGCTCCAAAAAAAAAAAAAAAAATACATTAACATA
AATTTAAATATTTTATAATGACAATCCACATTAACTACTTAAAGCATAAGCTATTTTCCAGGAGAGGCAGCAAGTGCATTCTACTCCCATGCCC
AAGAAGAAAGGAGCGTGACTTTGGTGGGAGTACTAGGAGTTTCTACTGGAGCACTTGCCCGCAGAGTGAGAAACGTTCCTAGAGAGGAAGTTAT
ACCTGCTGTGGAATTTAAGAGAATCTTGTCATATTTTGACAAGTTTTTTGAGATGGAAGTCTCACTCTGTCGCCCAGGCTGGAGTGCAGTGGCG
CAATCTCAGCTCACTGCAGCCTGCACCTCCTCGGTTCCAGCTATTCTCTTGTCTCAGCCTCCTGAGTAACTGGGATTACAGGCGCCCGCCACTA
CGCCTGGCTAATTTTTGTATTTTTAGTAGAAATGGGGTTTTACCATGTTGGCCAGACTGGTCTCAAACTCCCGACCTCAGGTGATCTGCCTGCC
TCAGCCTCCCAAAGTGCTGGAATTACAGGCGTGTGCCACTGCGCCTGGCTAATTTTTTTTTTTTTTTTTTTTAGTAGAGACGGTGGTTTCACC
ATGTCATCCAGGCTGGTCTCAAACTCCTGACCTCAGGTGATCCACCCACCTTGGTCTACCAAAGTGCTCGGATTACAGGCATGAGCCACCAGGC
CCAGTCAACGTGATGTGTTTTGGAACCCTGAATTCCTTGGCTTGCCCGGAGGGTTTTCTTTTTGTTAATATCTTTGCTTGCTTTCTAGTATTTA
AAAAATTGTGTTTTGCTCTAACTATGCAATGGCTTTAAGTCTTAGACAAATTTCCAGGGAGCAAAACACACTCAACCATTTCATAATAATCAGA
AGAGAGCTCTGATCAATAAATAAGCAAGACTGAATTTTACAAAATAATCCAAAGTTTAAAACCAAAGCCCACTTTTTGCATGATCCTTTAAGAG
AAAGAAATCTGGAAGCAAAACACCTTATAAAATGACAATGCACTTTCAGGAGCCCAGGGCACTGTGGTGAAATGATGATGGCTAGTACAGGTTA
TAAGCCTTGGGGAATTATTTATGAATTCTCAGGATCCTTCAGTTCGCCGCATCCTTCTCCATTATTTGAATATTGGAGGCTGCCTGACCAGAAT
CTTGTCAGGACTTTGCTCCTTCATCCCAGGTGGTCCCGGCTGACTCCTGAGGACGTTACAGCCCTGAGGGGAGGACTCAGCTTATGAAGTGCTG
GGTGAGACCACTGCCAAGAAGTGCTTGCTCACCCTACCTTCAACGGCAGGGGAATCTCCCTCTCCTTTTATGGGCGTAGCTGAAGAAAGGATTC
ATAAATGAAGTTCAATCCTTCTCATCAACCCCAGCCCACACCTCCAGCAATTGAACTTGAAAAAAAAAACCTGGTTTGAAAAATTACCGCAAAC
TATATTGTCATCAAAAAAAAAAAAAAAAAAAAAACACTTCCTATATTTGAGATGAGAGAAGAGAGTGCTAGGCAGTTTCCTGGCTGAACACGCCA
GCCCAATACTTAAAGAGAGCAACTCCTGACTCCGATAGAGACTGGATGGACCCACAAGGGTGACAGCCCAGGCGGACCGATCTTCCCATCCCAC
ATCCTCCGGCGCGATGCCAAAAAGAGGCTGACGGCAACTGGGCCTTCTGCAGAGAAAGACCTCCGCTTCACTGCCCCGGCTGGTCCCAAGGGTC
AGGAAGATGGATTCATACCTGCTGATGTGGGGACTGCTCACGTTCATCATGGTGCCTGGCTGCCAGGCAGGTAAGGGCCTGTGGGTGCCCCCGG
AATTCCGGGAAGGCTGATGGGCATCCCTCTTCCCAGCCACAGAACCAGAGGGAGTCCCCAGGTAGATGGTTCCAAGAAGGGAGTTGAATCTTGG
GTTCCACCTCTTGCCTGTGACCCACGGGGACCCCAGTTTATGCCTCACTGTTCCTTGGTCTGTCAAGAGAGCCTGAAATAGCATTAGGTTCTCC
TGTCCTTCTCAGTCCTTGACAATTAATTCTGGGAAGAATAGTGTGGCATGATATTTGGGATATTTGGATGTTAACAGGGTCCCGATGAGCAGGT
TTCTCAAGAAATTATCTTTTATTCTTCAATGAATTTCCTTTTATTCTCTGCACTCCCACCCCCAACTAAGAAGCTATCAGGAAGCTCTTTAAG
TTCAGGTTAATTTGCTGGAGACATGAGTACTCATATATCAAACACTGGGAGAATTTAAGATCTCAGAAAAGTTTAGCTTCAAGGATGTATACAC
TGCTTTTACGTCTTAGGAAATAACACCTAGGAATTTCCTTACAAGTGCAACTTTACAGAAATTTTTAAAAATATGCATACTCACTTTTAGAACA
TTACTACTTCTCATAATCCTATGTATATACATGATATGTATATGTATACGTGTTTATATATGCAAATTTTAAATTTCATTCCTTGTTTCAAATG
GATTTTCTCGAAGATTTTTTTTTTTTTGACACTGTCTCTGTCAGCCAGACTGGAGTGCAGTGGCGCGATATTGGCTTACTGCAACCTTCGCCTCC
CAGGCTTAGCGATCCTCCCACCTCAGCCTCCTGAGTAGCTGGGACTACAGGCATACGCCACCACACCTGGTTAATTTATTTTTTTGTAGAGATG
GGGTTTTTGCCATGTTGCCCAAGCTGGTCTTGAACTCCTGGGCTCAAGTGATCCACTCACCCTGGCCTCCCATACTGCTGGTACTACAGGCATG
AACCACCGTGCCTGGCCAATATTTTTTTTTAAAGAAATAAAAAACCACCAACTTCTACCTCAAACCACTCTTCCTAATTGAGTGTGAATTTTCT
AATAATGTCTTCCCTTTGCTTACTCAGGAAGACAGATAAGAAAGTTTATAGTGTTTTTTGAAAGTCTATAATGGCAACAAGTAGAATGCTAACT
GGCTGTAGAAAGAATTTATTAAGAAATGAAACATAATGATGCATTTCAGGAGTCTGCTTGCTTGTTTAGGGGAAGTGCCCAGTCATGCTGGGCT
GTGTACTGGCCCAGATGTAGGAGTGTCTTTAAAGAGGGCATTTTATTTACTTATTACATTTTTATTTATTTTTTTTTTACTTTTTGAGACAGAG
TCTCACTCTGTTGCCCAGGCTGGAGTGCAGTGGCGTGATCTCAGTCCACTGCAACCTCCACCTCATGGGCTCAAGTAATTCTCGTGCCTCAGAC
TCCTGAGTAGCTAGGTTTACAGGTGCGTGCACCACCACGACCAGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATATTGGTCAGGC
TGGTCTCAAACTCCTGACCTTGTGGTCCACCAGCCATGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCATCGCGCCTGACCTATGTGTTT
TATTTTAATAGGTTTTGGAGGACAGGTGGTGTTTGGTTACATGAATAAGTTCTTTAGTGGTGATTTGTAAGATTTTGGTGCACCCATCACCTGA
GCATGTATGCTGTACCCAATGCGTTGTAAGATTTTGGTGCACCCATCACCTGAGCATGTATGCTGTACCCAGTGCGTAGTCTCTTTTCCCTCAC
CCACCTCGCACCCTTTCCCCTGAGTCCTCAGAGTCCATCGTGCCGTTCTTATAAAGAGGGCATACTTTTAGGAAGGTTTTTCAATGTGATTTCT
ACATCCACAGGGTCTTTGCTAACTCAGTCTAAGCCAAGAACAGGAAAATCTTGACAATTAATCATGCTCTGCCTCTGGAAGACACATTTCAAGT
AAACTCGTGTTATTTCTAGCTATTGGTGACTTATCCAAGGGTCTGAGTGGTCTTGGAGGGAGCAGGGGAACTAGAGTCCCATAAGGACTCCTTC
ACGCCATTCTCAACATCTATCCATACCCCATCTGCCCCTCAACACTATAGGAAATACAAAAATGAGGGAGATATAGTCCTGACACTTAAGCAAC
TTATAACCTGGTGAGGAGGAGAAAAACATAGATATAAATATAGTAATACCAGTCAGAGTGTGGTAAGATCTACGGAGCGTTGGGCTATCAGAGA
AGGCTTCATGAGGATGACATGTAAAGGGAGCCCCAAGGGACCAGTAAATTTCCATCAATGAGATTCCAGGGAGAGAGACCCCAATGAGCCAAAA

CACAGGAGTGCCTTAGGGAGCAGCAGGTGGTCCAATGTGCTCCTGCCCTGGACAGGGAGGGTGGGGATATGGGGAATTCAAACTGGAAAGTTAG
GATGAGGTAAAATGAATCATCTAAGGCATTAGGCATTTTTAGTCTGTATATTGCTGGGCCCTGGGATGTGGTCAGAAAGAGAATTCTCCTAGTG
ATAACTTCTTAACTTCACCTAGTAGGCAATAAAGAACTACAAGAAAATTTAAAACTACCATTTATAAAGTAACTTCTATGTGCCAGATATGTGT
CCTATTGTAATCTTCATAGCCACTTTGCAGTATGGATATCATGAACCCCTAGATGAAGCAAGAACCCAAAACTCAGACTCGCACAGGCAGTGAG
AGTGCCAGGGTTTGAACCTGGTCTCCCTGGATTGTTCTGTTTCTGTTCATTGCAAACAGGGTCAGCGCTTTATGGAGATGATACTGGCATAGAG
TGGAGAGAGATCAGGTGCACAGAGACAGGTCATGAGGCTCTTAAAATAGTCCAATCACAAGGCAAATGAGGACCCAGTGGCCAAAGACAATGAC
AGGGGTCAAGTTTCTGGAATCAACAGGAATTTCTAGGCATCACTCCAGGGTAAGAAACCATCTCATCACAGACTTTTTCTCCAAGAGGAACCTA
GTCTTGAAACAAATCAGACTTTTTATTCCTCAGGGTAAGAGTTCTCTAATGAAATCAGACTGTCAACAGATGCAATTTCTAGCTGATTCATAAG
GGCAGATTTTCATTCTGAAAATTTCCAAAGCCACCATTTAACATGGCAAGGGTTTATGAGGACATATTAGTCAACTTGAGTGTTTTTAGTCTCT
ATATTACTGGGCTCTGGGATGTGGTCAGAAAGAGAATTCTCCTGGTATTACCAATATGGCACGTTATTGAAGGCACCTTTCTCAGAACTGTGGA
AATTCTGAGAGCTTGTATGTCCCTTGATCATCTTTCTTTCATTCTAGGAATTCTGTGATCAAATCTTTATCCTCTAGACTCAAAAATAATTCTT
TAAAAAAACAGTGTGGAAACCCATTGAGATAATGTGTTTGTGTAATTATCCATTCTTGTAAAGACAACTGCCCACAATGGAATTTCCCATCTTC
ACCTTTGTCAGTCAAACACAAAATGTTTAACCCTTCACATTTAATCTTTCAACTTCTTGAGATCCCAAAGTATTATTGCTACTGTTACTTCATT
CATCTTCAAGACATGTCTTGAGGCTGTAAGGGCTTTCCTAAACATTGGGAGCTCTTCATAAGACAGTTGCTACTTTCCTTAAAACAGCATGCCT
TAAATAGGCAGTTTGATAAATCACCTGTGCATATACTTCATTTTAGATGTGAGAATTGAAAAAGAAAAAAATTGACTTCACAATTCTGCACCAA
AAGAATGAGTTTCACGAATGCGTCAGTTAGAGGTGCTAATATAGAACGGTTGCTGAGCTCTAAAACTCCACTACTCCACCCCACTCCCCTGATA
GAGAAGTATTCCCAGACTGGTTTTTGCCTAAAGCCTTGGGTATTCTGAATACCTCTTTGTGATTTTTTTTTCTCTTCCTTTTTGAGACAGGGTC
TCACTCTGTCACTCAGGCTGGAGTGCAGTGGCGAGATATTGGCTCACTGCAACCTCTGCCTCCCGGGTTCAAGTGATTCTCCTGCCTCAGCCTC
CCCAAGTAGCTGGGATTACAGGCACCTGCCACCACGCCTGGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTCACCAAGTTGGCCAGGCTGG
TCTCGAACTCCTGACCTCAGGTGATCTGCCCACCTTGGCCTCCCAAAGCACTGGGATTACAGGCATGAGCCACCGCACCCAGTCCTCTTTGTGA
CTTTTTTGTTGGAGTCATTCTTCTGCGAGCTATGGATATCATCAAGGCAGGCAGTCCCTCAACGTGGCAGCTGTTCCCACCCTTCCCTGCTCCT
CTTCTTGCCCAAGGATGAGCAGAAACTTTACAGAAAAAGAGAGAATTCCCTCAGGAAATGAGGCATGTTGCTTGAGGTCACAGGGAATAGAATT
AGCAGGAAAATAAACCTTGCAGGAAGCAGAAAGTGGGCCAAAGCACTGAGGAGAGGACACGGGGAGGGCGTGAGTTTTTGACAGATTTCTCTCT
GTAAAATGAGGAGGTCACCCAGGGATCTTGAAACTCCCTTCCAGTTCCTTCACTCTATGTCAAGGATTCCAGAAAGGAAATAAAATAAGCTCTG
CTTAAAAGGCATTTTCAAGCTGGGGAACTTTGGGATGAAAAAGTTTCCCAAATGAAGACATACTGGCACGGTCAGGGTTGAGCGACTTTTGTGT
ATCAATGCACCCAAGCCTGATGTCTCATTGTGGGTTATTTCCAGCTCTGAAGAAGTACTGCCTGGCAGCCAGCATGACCCACTGCTTCTGTAAT
TGCTGCAGTTGCAGGTGTCAACGCAAAAACTCCACTCACTCAATTCTCAAAATCTATCCAATATCTCTCATGCCCCTTTTCAATACTATAGGAA
ATGTAAAAATGAGCGACATAGTCCTGATCCTTAAGAGAGTCATAAGTTGGTGAGGAGGAGAAAGGCATAGATATAGTCATGGTAACACAAGTCA
TATGTGGTAAGATCTACTGAGCATGGGGCTATCAGAGAAAGCTTCATGAGGGTGACATGGAAAGGGAGCCCTGAGGGACTGGTAAATTTCCATC
AGTGACATTCCAGGGAGAGAGGCCCCAAGACACAGGGGCAGCAGGTGGTCCACTGTGCTCCTGCCCTGGACAGGGAGGGCGGGGTCCTCTGCTG
TTTGTTTGCTTGTGTAGGAATTTCCCCTCAAACAATGTCCTTGTCTCCCATGGGAGAAGTTTTACATGAGTGGGAACCTGTTTCTCTTCTCTA
TCCCAGGCCATTCCCTGAGAGAAGAGAAAGGGGAATCTTTTTTTTTTTTGGACAGTTTCGCTCTGTCGCCCAGGCTAGAGCACAGTGGTGCAAT
CTCAACTCACTGCAACCTTCAGCTCCTGGGTTCAAGTGATTCTCCTGCCTCTGTCTCCTGAGTAGCTGGGATTACAGGTGTGCACCACCATGCC
TGGCTCCTTTTTTGTAATTTTAGTAGAGAGGGGGTTTTTGCTATGTTGCGTAGGCTGGTCTTGAACTCCGAGCCTCAAGCCATCCATCTGCATG
GGCCTTCCAAAGTGCTGGGATTACAGGCATGAGCCACTGTGCCCAGCTGAAAAGAGAATCTTAATTCAGTTGATTACTTCTAAAAGTTATAAGA
CCTTCTTCACTGAAAGAGTTCACATAGAAGCTGAACTTGAATCCAGCCCTCTTAAATTTCAGTTCAATATTCCCTGCACATCTGCACATCTTTA
CATGAATTCTCAGTGATATTCCTTCATCCATCCATTCATGCATGAGGATTACAGAGATGAAGAAAGTTCCAGCTCTTATCCTCTTGTGCTCACA
GTTTAACACGGGAGATGAAACTGCTGCTGAATGGCTCCCATTCTGAAGTCAGCCAACAGTGTTTGCCAATAGCCCCCACTGAATACCCCACCAT
ATTCTCAAGTAACTCACTCATTTAGGGGAAAACAATAATATAATTGTCTCTAGAAATTTTAGGTATTCTCCACTCTAAGATTACTCAGTGTTTT
GACTGATCTCAAGGCGACTCCGTGGTTTGCTTCTGTCAAAAAGAAAACACAGTTCCCACTGGGAAATGTGTGGAGAGTAATGGTTCAAAACGCC
AGCTGTACATTAGTGTATATCCAGGATGCTTTAAAAAGTGATGGCCAAGACTCATAAGATGAATTAAGCGGACTCTCTGGGGAACAGAACCGAA
CATCACAATACCTTCCCTTCCAGTTCCTTGAATACTTCCAAATCGCACTTAGGATTGAAACTCACCAAATTAGAGAGATGGAATAATGATTTCC
ATGGTTGGTCTGATTCACTAGGAACAGGTATGCTCAAGCAGTACTTCTCAACCTTTAATGCATTTGGAAATCATCCAGGGATCTTGTCACGGAG
CAAATTCTGACTCGGGAGGTCAGGGGTTACCGCCTAAGATTCTGGTGCAAACAGGTTCCACAGGAGGCCTATGTTGTGGGTGCATGAACCCCAT
TTTGAGTAACAAGGCTATCAAGTCAGAGAATAAATACGCATTGCTTTTACCCACACAGAACTTGCGACTGAAATGAGAAAATAGGCTGAGTGTG
ATAGCTCATGCCTGTAATACCTGCACTTTGGGAGGCCAAGGCAGGAGGATCCCATGAGCCCAGGAGTTCAAAACCAGCCTGGGCAACATAGTGA
GACTCTGCCTCTTAAAAAAAAATTAGAAAAAGGGAAAACCAATCTGGGAAAGATCAAATATTGATCAAACATTGCAAATAATGCCATAAATGAT
CAGAATAGGGAGAGTAACATGCTACCTGGAGAACTAGAAAAAAAATTCTCAGAGAAGGTGGCCCTGGGACCTCCTGGCTCTGAATGGTGGTTCT
GAATATCAGGAGAGGGGCTGGAGAATGGTGTTTTCTAGTGATGCTGCTGGAGTCGTGTACATGGACCGTGTTCCATGAGTAGTGAGCTGACCAA
TTAGAGAGATGAGGGGTTTGCCAGGACAACTACATAATGAGCCATATTTCAACATACATGCAGTTTTGTGTGTGTGTGCCAAGCAAATGAGTCT
CAGATTCTCGGACAAAAACGAATACTTTTGCTCAGACAGACAGCATGTGAGTGCTTCTCCCCCAGCTTCAACCCTGCAGTGTCTACAGGTGTCA
TTGGTCCCCGGTAGACGTCCTCGGTTCAATGGGTCACTGATCACTTATCACCAGCACCACATGACCCTGGATGGCAGCCAAAGAGTTCCTGGGT
CTTGTTTCCCTACCTCCACATTTTTTTCCTGACCCAGCCCGAGCCACGTGCACACCACAGGGCTGGAGTCCCAGTGCTTTTGTCCTGACAGCCC
ATTCTCCCACTCCCACACCCAACCAGTTCCCCGGGGGGTTTTTGACCAGCAGCTCCGCCTGCAGCCCTCGACCCGGATCCAGGCATCCTGCTTA
AGGAGGGGTTCAGGTGGCAGGAAACTCCAGGGCAACAAAGTGTGGGTGGCATGGGTGGGGTTGACCGGAAGGTCACTGTGCTGGGAGGAAGAGG
AACGGGTGGAGGGAAGGCAAGATACGGATCAGGAGTATTGACATCCTGTGCCAGTAGAGGGGCCTGCCCCATGGTGGAAGGTGTGGCCGGATGA
GCTCGCTGGCCCATGTCCCCCCGTTTCCCAGGCTTTTTCCTCCCACGCTGTATGCAGTGCAAGAACAAGCTGGTGCAATTGGACTAGCAGCAAT
TGAGTCCTTTTACCCAAAAGAAGAAGAAAGAGCAATGTTTCAAAAGAATAAAAAGGAAGCTGCAGCCAGGTGCAGTGGCTCATTCCTGTAATCC
CAGCACTTTGGGGGGCCAAGAGGGGAGGATCCCTGGAGCCCAGGAGTTTGAGACCAGCCTGGGCAACATAGTGAGACCCCACCTCTATTTTTTA
AAATGATAATTAATTTTAAATAAGGAAGTTTGTGAAAGCCATTGGTTTCTTTATTCTAAAGAGCGTGGAAAATAGGACAGTCTCCAACAGGCCC
TGATTTCCTTTGGTAAGAAAATGAGCAAAGCTATAGACTAGGAAACATGACTGGTTAAAGCCGGCCCATGCACCAACTCCGATACTGATAGTTA
TGTTTCCTTTCGTTCTTATTTGCTTCAAGCTTTGATCCAGAAAACATTTGAACACTAGCTAGAACCACCACAGTGAATATCCATTGCCTAAATG
CTATCTTTCAGGTATTATGTTCAGACATAGTATTACTTTGGTTAATTCTCAAAATAAAGTAGGTCATATGATTATCCCCATTTTCTGCCTGGTG
AACTGTGGTTAAATGGGCTTACAGAGATTAAATGGGTTGCCTGATGTAGCCCAACGAGGAAGGGGCTAGGATAGGAAGCAGGCGCTCTCATTCC
AGAACCTGCCTTTTTTCCTCCTGTCTAAACTGCTGCTAAAGGTCAAAGACAAAGGTGCCATGTGAGCAGGGAAGTTATTTTTGTTTTTTACAAA
GGTGAAGTAATAGGCTGTGAGTAATGCCCACTGCTCCTTCAGCCCCAGGTACATGCAGTGAGGCGGTACCCACAGAGCCGCGTGGCACTCCTCA
ACCTGCTAGAGCAGCCGGCCTCCTGCAGGATGGCTTAAGGACCACCTGGTCCTTGGGGTCTGGGTTCTCCGGGTCCTGCTGTTCCCTGCAGCCT
TCCTTCTACCCCCAGAGCAGCTTGGGGGCATCTTTAGAGAAAGCGGCAGTGTCGCACCTGCCCCAGCAGCCACAAAACAGAGGAAATTCTGAGC
ACCTCCGGGCGTGAGTCACCATACCACATTCAGGAATTGCCACCTCTGCCCACAGAATCACCCACTCTTTTCTGTTTGGGACCAAAATAGATAC
CTCCTTCAGAAGCCGCTGCTTTCTGTACTCTCAGCAATAAAAAAACAAAGGCTAGGATAGGTGTGTGCCCTCTGAGGCGTGAGGGGGGGCGCGTT
TTCTCCCCTGGGAAGGTTTTCAGAGAGAAGTTGTTGCTACAGCAGTACAGGCAGCTGATGGGTTGAGGGTACAGGAGGAAGAGGGAAAGTCAGG
GAGATTGGAGACAACCTCTTGTGTGGTAGGACTTCCGGCTATTGGTTTGTTCATTCCTTTGTTCATTCATTCAGCAAATGTTCATTGAGG
AACTGCTATGTGTCAGGCACAGGGTTTGAGACACAGAGATGAATAAGAGCCCATCCTTGACCTCTGCACAGACAATTATGACACAGGCTAAGTG

CTGAGATACAAGTTTAAAGAAGGAGTCGATGGAACACACAGATCGATGTTCATTACCCCTGCAAAACCCAGCACATCTCACATCAGGGACTGCC
TCATTCACATCATGTTAGATGTGACAGAGAGGACAGCAGAGAGCGTTGTTTTGTCATCAACTACTAAAATTATTAAAACCAAACACCACTAATT
TTGAACTTCAGGTAGACAGAGGATGTAGAGTTTTCCTTTGCTCAAGAAATTCCTTTACAGAGAAAATGGGAACATTTCAAGTGGGAGTATTTCA
ATTCCTTTAATAACAACCTGTTTTCTAGCTCCCACATTCCCCAAGTATTCTAGAAGCACCTTTCATAATGGACAGCTCTGACCAACTGCCCCAC
ACACATGCATGTGAACCGTTCTCCAATCCTAAAAGTCTGTGACTTCTCCAAGGAAAGGAGGAAGGAATCGTATTAGTCCAGTTTACATTATTAT
ATACTTTGTAGCAAAGCAGCAATGTTTCCTTAAAAAATTCTATATATATATATATATATATATATATATATATATATATATATATATAGCTGGGCA
TGATGGCTCACGTCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGCAGATCACCTGAGGTCAGGAGTTCGAGAACAGCTGACCAACATGGTG
AAACCCCGTCTCTACTAAAAATACAAAAGTTAGCCAGGTGTGGTGGCACATGCCTGTAATCCCAGCTACTCAGGGAGGCTGAGGCAGGAGAATC
CCCTGAACCTGGAGGCTGAGGTTGCAGTGAGCCGAGATTGAGCCACTGCACTCCAGCCTGGGTGACAGAGGGAAACTCCGTCTCAAAAAAAAAA
AGAAAAAAAAAAATATATATATATATATTTGTGTGTATTTTCTCCTCATGAAATGAGCTCCTTGAAGCAAATCGGCCCATCTTTTCAGAGAAAG
ATCAGTTTATTACGTCACCAAGTAAAGGGCAAAGGAATCATTTCTAAAAGTTTCGTTTGAAGTCCCCGGAGTTAAAGTTGACGTCAGCCTCTTC
CTGCCCTGGTGCCCCGAGAGTTTCCCGGGAGTTTTGGGGATGACACCCGGCTGCATGCGTGACATCTCGCTGGCTGGGGGCAGGCCTGGTGGCT
TCCCCGACAATGAAACCAGGCAGAGCCTGCAACCCAGCTGAGCACCAGTGTGGTCTCTGCTTCCGGTCCTTGTGGTAGCACCTCTGTTTACAGC
CTGATTTAGAACAAAAAGAACTTTTGTAAAGGAGAAAACTCCTTATATTAAATGGAAAGCAAAACAAACAATTACCAAAAAAAAAAAAAAGTTG
GAGGGGTGTTTCAGAATAAAAGAGCCGTCTCTCCAGACATCTGTCTGACGCCCAGGTGGCGCTGAGACCACAGGGTGAGCCTTTTGGCTGGAGA
TGTTGATCCCTGGTTTACTGCACTTCGGGCTTTCACTACCTTTCACCCACCGGACCATCAGTTTCACTTTCCCTCTCCCAGCGTCTCTCAAGCT
CTGCTTCTCTGGCCCCGTTTTCAATCTAGTGCAAGAGGACCTGTAGCCAGGGCACCCATCCTCCTCCTCCTCGTCCTGCACTGGGATCCCAGCT
CTGAGCACTCCCGGGCCAGGGAGGCCTTGCTGCGTGCTCTGCTTCTGTGATCTTACAGATTCCTCATGGCCACCATAGGAGATGGGGACTGTTA
GCACTATTCCCCCACCCCAACCACCTTTTTTTTGAGACAGAGTCTCACTCTGTTGCCCAGACTGGAGTGCAGTGGTATGATCTCGGCTCACTGC
AACCTCTGCCTCCCGGGTTCAAGAGATTCTCATGCCTCAGCCTCCCCAGTAGCTGGGATTACAGGCATGCCCCATCGCCATGCCTGACTAATTT
TTGTATTTTTAGTAGAGACAGGTTAGTAGAGACCATGTTGGCCAGGCTGGTCTCAAACTCCTGACCTCAATTGATCCACCAGTCTCAGCCTCCC
AAAGTGCTGGGATTACAGGCTTGAGCCACCACGCCCTGCCACCATTCCCATTTTACGGATGAGGAAACTGAGACCATGAGGCAGTAATTCACTC
TCCCAAGAAAGCAAGGAGCCAGTAGATCTGAGCAGAACCCATGCATTCAGGCCGACACAGGAAGCAAGCTGTCAACAGGCACTGTTCATCTCCT
GGGCTTCCTAGGCAGGCCCTGAAGCTCTGGTTTTCAGTCACCCTGTTATTCATCCCCAAGTTAATCTCCCCTGAAAGCACCTGTCGTGATGCCC
TTTCGGCTGCAAGAGCTCCAGTCATTTCCATTGCCTCAGGGGCACTTTGCTACCTCCTCTGCCTGGCACACAACATGCTCCCCAGCCAAGACTG
TTCCCTCAGCACATAGCACGCCTTGGCCAGCAGGTCTCCTCCTGTCCTTCAAAGGGAACCTCCTCATTTGTGATTTCAAAGCTGGACTCCCAGG
AACACCCTCCTCCCTTACTGGAACAATCTTCCCCATCTTGTCTGCCTACCGGAATTTTTCCCAACCAGAAAAGCGTCTTGAGAGAATGGAAAAG
TCTTATGAATTTGGAAAGTTGACAGCTTGAATTCAAATCCTAGCTTGAACTTGTGAATTTCTACTTTCCTTTACGAAAACCTTTGCATGCCATT
CTGTGCAGGCACTAGCAAGGTGGTGGGAGGGAGATGGATACAGTAGGGTGAGTGCCGTGTAAAGAAAAGGGAGCAAAGTCTGGGACTGCAGAGA
AATGCCACAAAGCACAGACAGAAGAGTCCCGGAGGCTTCCCAGAGAAAGATGACAGCCAATGGGAGACCTCCAGGGAAAGCAGGAGTTAAGAAG
GTAGAAATGCATTAGGGAAGTGTGGCATGAGCATGATGGTCAATTTCAATGTGTCCACTTGCCTGGGCTAAGGGATGCCCAGATAGCTGGCTAA
ACAGTCTCTCTGGGGGTGTCTGTGAGGGTATTTCCAGGAGACACTAGCATTTGAATTGAATAGACTGGGTAAATTTCTTGTTGGTAGACTGAGT
AAAGAAAATCACCCTCACCAGTGTGGTGGGGATCATCCAACCTTAGAGGACCAGAATAGAACAAGAAGGCAGAGGAAGGTTGCATTCTCTCTGT
TCAAGCTGGGACATCCGTCGTCTGCTCTTGGACATTTGCACTCCTGGTTCTCCAGCTTTTGGACTCTGGGACTTACAGCAGGGCCCCTCTGCTC
CTCAGGCCTTCAGTCTTAGACTGAGCCACACCACCAGCTTTCCTAGTTATCCAGCTCCAGCTGGCATATTGTGGGACTTCTCAGCCTCCATAAT
TGAGTGAGCCAACTCCCATTATAAATATTCTCTTATTTATCTACATACATCCTATTGGTTTTGTTTCTCTAGAGAAATTCTGTTTCCCTGAATA
ATACAATGACCAAGGCCCAAGACAAAACACATGGTGAGCTCCAAGAGCCACGCAGAGTCCCGCAAGGCAGGAGAGCTCAGGCACATAGTGGAAG
CAGAGATTTTGAAGTTGGGCATGAGCTGTGTCTTGGAGTCTCCCCATGTCACTGGGCTTAAACTGTGTCCTGGAAGGAACAGAACATCCCAGAG
GGGTCTCAGTCAGGGCATGGCTTGTACTTTGGAGAGACAGCATTGGGTTTATGTGAAGAATGAAGGAAGAAGAGAAAGCACTGGGTTTATGTGA
AGAATGAAGGGAAGCAGAAAGGCAAACCCATAGGGCATTGAGTAACCTCCATGGAAGTCCATGAGGGTAGGGTTTTAACCTCGGTGGGCCTCAG
CTTCTGTTCGTATAAAATGGGAATAACACAGACCCTGCTGGGTGCTGTAAGGCTACATAAGCTAGCCTGCCTAGAGTGACCAGAGCACACAGTA
GGTGCTCACTAAATGTGACTTGCTGGGCTTCTAGTCTGCATGGCCAAAGGCCCTTCCCTCGGACCTTTCCGTGTGGATGCCTCACAGGCTGCTC
AGTCTACACATCCAGAACTGTCCTCCCTCCCTGGAACCTACTCTTTCTCCTCTCTTTGCTATCTCAATGAATGGCACCCCATCCTCCCCATCGC
CCAGGAAATCTGGGCAAAATCCTCATTTCTTCCTTGCTGTCCTCCATGCACCTAATAATCCAGCCTCAATTTTTGGCAATTCCAACTTCTAAAA
TCTCTTAACGCCAGCAACCCCTCTTCTTGCTTACTTATCACCACCCACCTCAGGACTCCCATGACAGCCTTCCTGTGATGCATGACGGGCACAT
GACAAGGGCAGTTGAGGGTCAGGGGCCACGGGAGCAGGATGCAGCCAGCACATGAGGGAGGATAGGCGGGAGGACAGGCAGACACTTGTGCGTA
AGAGCACGCACTTGTCAGGCTGCCTGGGTCCAAGTCCTAGCTCCACCACTGAGGGGCTGTGTGTCTCTGGGCAAGTCACTGGGCCTCTCTGTGC
CTTAGTTCCTGCCTCTAGAGAACGGAGATGAGAAGAACACATCACCTCATAATTAATTACTGCATAAGTAATAATTTTAATTATATTGACTATT
ATACTCTATTAGTGTATGATGTCTTTTATTATATATATTTATCATATAATATACTAATTATATTAATGAGTATACTATAGTATTTTATATAACA
TACCCTAATTGCTTATTATATATCTGTATAATTATTTTATCATATAAGATAATTTCATAAGCTAAGATGGTATTTTATATATTTCATTTATTAT
ATATTTATATTTATATACTTTATTGTATTTGAATTGTGATGTCTAATAAAATAATAGATATGTTAATTATCCTTCATATTCCATAATAAGCTCCT
TCATTGGTGTCTGGGAAGCCGAGAACATTTGTGCGTGTGAGCTCTCCTGTGTGTTCGGCATGCAGTGTGTTGCGTCTCAGCTGACGTGATTGCT
GTTTTTGGTGGCCCGGAGGCACAGGGTGCATGCTACAGGCAGGAAGAGCTTTGGAGCAGGCTGACTCCTGAGCTCTCCTCTGGTGCCGTGGCTT
CTGAGGCCCCCAGGTGACAACCAGCCTTTGCCATTCTAGTGTTTCCTCTATGTTCATCCCGCGTTCTGAGTGTGGCACAGGCCACACTCCTGAC
CCCACCAGCATCAGGTGCTGTGCACATGGTATGAGGTCGGGATGGAGTGCTGTTGGCATGGGGGTTGTTCCTTGGGCTACCTGTGTCCACATGG
TCTGATTAACCCCTTCTGCACATCAGCAAGGGTTCAGCACCTCCTCAGGGTTAGGGCATGCGCAGGGCATGCAGGGATTTGAGGGTCCTTGGAC
AATGCATGTTCTCCATGCAAGCATGCAGAGACATGGAGAGGGTCTTTGTCCCTTTCAGTCCTAACATTCTGTGGCTTCATAACTACTTGTCCCA
CACCCGAGTAAAAAGCAGGATCTTCTCAGCACTGTGCTGAGGAAGTCTTTAAACCTTCCAGTAGGACATGGGATCCCTGCCTGCATCTTAAGTT
CCCATGTCCTTAGGAAACGTGGCCACCTTGGAATTCAGCTCTCCAAGAAGCCCAGTGTGAATGCCCATTGCAGGAGCATCTGAGCTCACCCCCA
CTAACCCTGAGGTATCTGTTGAAAAGAATAGAACCCACCCACTGAAACTATCAGAGATCAAATGTTGTGTGTTGACTAAGAATTTGTGTTAAGG
CAGGGATAGTTGAGCACCAATGCTTTCAAGGAACTCTGGAGAAATGCAAGCCTGTATTTCCTCTCAGCATGGCTGCAGAAGAGGGCCAGGGCAG
CAGACAGGCATTTTGACCCACTCACAGATGAATACAAAGACTAAACTCAGCAAAAGCCTTGAGGTTGCATTTATGTGTCTGAGAACAGTCCCTG
GAGCACAGGCATGGGCTTTTGGTACCACGTAACCTACAACCGTAAGCTCTCTGCTCTATGCTGTCCACTCCATCAATCCCACAGTGCCTGAAAT
GTCATTGTCTTACCCGATGTCTGGGGTAGCATCTGTGAACACACGGATTTGACACTTTTATGATGCTGTTTGTCTCTACTGAACCCTTCTTAAG
CAAAATCACAGTAGACTAGCAGATCATGGTAGTATCTGAAAGCGCCAGGACCCCAGAACCTCAATCAGTGCTCCCCACTTCCCATGGTTTTCTC
CCTGTGTTTCCACATTTGGATTGTCATTGTCTGTGAAAAGGCATGATCCCTGTCAACAACACACAGTGTATGCAATGTGTGTCTTGTGTAAAAC
GGAGTGTGAATTCTTGAGAGCAGGAAGGAAAAGGGGTACAAGAGGTTCCCCTGCGAGATGGGTGAGGAGCAGGGCAGAGTGAGCCTGGCTGCTG
GGAACCCCTGAGGAGAGCTCTGGAGAGGGTTCTGGACACGTGGGCTTGGTCAGCCTGACAATTAGGATTTGTGTTAACAGGACCGGCCCTCACC
TGACACCAACTGGACTGAGGTTCCCAGGAGAAACACTTAGCATCATGACTTTGGAGGTTGCCATCATTTTTGATGACTTTTTCTTTTTCCTTCT
TTTCTGTTTCCCTCTTGTCAAGTTTCTACCTGTAAGTTATACTTACTTATTTTGTGTTTCTTTACAGTCTCAGGGGAAATTCCGTTGAGTTGAA
AATTTCCTCAGCTCCTCGCTCCAGTTTCTCAGAAGAGTCTCTCTCCTTGCAGAAAAGACTGTGGGTGGGAGTCACCAATTTAGCATATTTCTAC
TAAAAATATGACTCCATCCCAAGAAATTGGTTTTAAAGATTTGAGGAAAAACTGCTTTTAGATTTCAGAGAAAGAAAAAGAGTGTGTTTCTACT
TCCCCCTTTTAAATCTGATAACTTTTATTTTAATCAGGTTGACATTCTGTGGTGAGCTTGTGGTTAACTCTTTCATGCCCGGAAGCCTGTTGTC

GACCGAGAAGACTCCCAGGATTAGAACATAACCAGCGCCCAACATTTCATTTGCAGAAGCATCTGAGGTCCCAAAATGTGATGGTTTAGCGGCA
GCTGCTTGTAGGGGTATTTTTGGTTTCCTGCTTCTTTTTTCCCTTCTAAGTAAAGACAAAATAACTAGATCCCTCCACCCCACCACCCCATCAT
TTCGTTGTTGTTTAACAAGTGTTGAGTAAGGCACAGTTGTTCTCCAAAAGGGTCTTACCCTGTGAGTTACTCATTTTAGGGTTACGGAAACTCT
GACTATTTGACCCAGTCAACCAGGCCTCAGAAACTGTGGGTCAGATAACAAATAACTCATGGTGCTTCTGTGCTAATTACTGCAGAGATGTGTC
CAAGTGCTCGGAGATCTCCTCCTTGAAGCCAAGGTCTCCTCCTTGAACCACACCGCCTTCTTCTCCTGTCCCGAGGGAATCAGGCAACTTTTCT
TTGATGACAGCAACTTCCTTAAATCCCCCAAGCCCTGAGACAGGCACTTTACTTCTCCCACATTTCCTTCAACATTTGTGCTTGCTGAATGAAA
CAAGGAAGGTGAATGTTTGCTTGAATGAACCAATCAATGGGTAACAGCACCAGTGCTAATGCTAATACACTCAACTACTCATTCAGAACCTACC
ATGGCCCAAGGCTTGTGCTCTGCTCTTGGGTGCTGATCCAGCAAAGAGTGGGTGGAGGGGGAGTGGGAGGTGAAGTCCCTATACCACCACTTAT
ATTTTGCACTGTCTTATTTTTTCCTCTGGTCACATGCATACATAAATTTTATATCTCTGTAATTATGCCATTTAAAAATCTTCCTACTGAGGTA
GAAGTTGGGACTCAACCCCCGAGGCAGGGCTCAGACATCGGACAAAATTGAGGACTAGCAAAAACAGGATTGGGGCAGAAGCAGCTTTCCATAA
GACATGCTCATGAGTGTGCCATGTCAGTTTACCATTGCCATGGCAACACCCAGGCGTTCCTGCTCCTTTCCATAGCAGTGACCGGATGACCCAA
AAGTTACTACCCCTTCCCTAGAAATTTCTGCAAACTGCCCCTTAAACTGCATGTAATTAAAAGCAGATATAAATATGAATGCAAAACTGCCCTG
ACCTACTACTCTCTGCCTATGTGGTCGCCCTGCTCTACAGAAGCAGTCACGGAGCTGTAGCACAGCCGGAACTATAACATTGCCACTTCAATAA
AGCTGTTTTCTTTTATTCTACCACTGGCTTGCCCCTGAATTCCTTCCTGGGCAAAGCCAAGAACCCTTGCGGGCTAAGCCCCACCTCGGGGCTC
GCTTGTCCTGCATCACTACCACCTTCTCTAGGAAGATGCTCTAGGCTTAATCATTGTGTTGAATTCAGCTGCTGAGGACTGAGAGGTGATTTGG
ATGATTGACTTCATAAATAAAATTGGGAGTTAGACTTTCCCCGCTGTGGACTTGCCACTGAGTTGGGGGAGAGGGGGGTTTCTTTCTCTGATAA
AGTTCCACATCCACAGACAGAAGGAAAAGGCCCTGAACTAATCACTTCCTTTGGAAGAAGCTTTGGTAAAGAATTAACATTTGGGAGGTTGTCA
AGAAAAACCTATTTGTTCTATAAATATTTAAAAATTATTAAAATTTCAACCAATACAGAAAAACACAAAGATTAATATAACCAACATGTGCCCA
TCATCAGGATTCAGTAAATGTTTACAGTTTACCTTGGTTGTTTCATGTCCTTTTTGTTTATTTTAAATACATGCTCTTGTCGTGCGTGATGGCT
GATGCCTGTAATCCCAGCACCTTGGGAGGCCGAGGCAGGTAGATCACCTGAGGTCAGGAGTTCAAGACTAGCCTGGCCAACATGGTGAAACCCC
ATTTCTACTAAAAATACAAAAATTAGCCTGATGTGATGCAGGCGCTTGTAATCCCAGCTTCTTGGGGGGCTGAGGCAGGAGAATCACTTAAACC
TTGGAGGCAGAGGTTGCAGTGAGCCCAGATCTCGCCATTGCACTGCAGCCTGGGTGACAGAGCAAGACTCCATCTCAAAAAAAAACAAAACAAA
CACAAACAAAAACAAATAAATACATGCTGTAGATACAGTGGAGCTCCCTCTCGGTCCAACCCAATCTCATTCTTCCCCTCCAGTAATTGTTCTC
TTGAATCTGGGCTGTATCTCATGATGCAATATACACTACTGGTTTGTTTTTTATTTTATACATAAATGCATAATATACTGTTTCTATTTGCAAC
TTTGCTTTTTTCACTCAGCAGTGTTTCTGAGATTCATTTTTGATGTTTATTCTTTTTAACAACTGTACATTATTACATTGTATAATAATACAGA
GTTCTTGATAATGCCAAGTTTATTAATCTAACCTTCTTTTGATGGACAATTAGATTGTATCTGATTTTTCCCTATTACAAGCAATGCTCTAATA
AACAGCCTTGAATGTGTGCACATATGCAAGAATTTCTCTAGGAATATACCTAGAAGTGAGATCACTGATCCTAGAACATGGACAGCTTCAATTT
TACTGCTATATTTAAAATGTTCTCTTTGAAATCGCTATGCTAATTTATAATCCTCATCAGCAATTTATGAAATTTCCTGAATTCCTCACATATT
CCTCATCATCACTTACCATAGGGAAATTTTAACATTTTTTGCCAATCTGATAATATAAAATAAAATCTCATTACTATCTTAAGTTTCATTGATA
CCTGGTGATATTGAGAATGCTTCCACATGTTTTTTTGGTCATCTCTGTGGCCTCCTTGTCATCCTTTGTCCCTATTTTTATTGGGTTGTTG
GCCTTTAACTTATTGATTTGTAAGTCTTCCTTATGTATTACGGATACTGAGTCTTTGGATAAGTATAGATTCTTGGATCTTCTAAGTAGACGTT
ATTACTTATAAATGACAATTTTATTTTTTGTTATCCACTTCTTATTCCTCTAATTTCTTTTGCTTGTTCCATTGCATTAGCTGGGGTGTTCAAT
ACAGTATAGAATAAAAGCAGGAATTGTATATGTTTCCACCATTAAATAGAAGGCTTTTAAGGTATCACGTACATGTTATTTTCTGTAAGCTTTC
AGTGTCTACTGTCTATTGGTTAAATAAGTTTCTTTTTTATTTCTACTACCTTAAAAGTTTTTTTTCTTTTAATCAATAATGGATATTCTTTTCAT
CATCATTAGATGCTCTTCTTCATCTATTAAAATGATTGTGTAGGTTTTCTTCCTTTATACCATAAAAGTATTTAAGTACATTGAGAGATTTTCT
AACGTTAAACCATTCACTATTGCTGGGATAAACTCTGACTGATCAGAATTTTTTTTTTTTTTTTTTTTTTTTTTTGCTTAATACATTGCTAGCA
TCAGGTGCAAATGTGTTAACATTCTCCAGTTTGACTGTAGAATTAATTTCTTTTTGTAATTCTTCACCTATCAACCATATGTATTGTTGAGTG
TATACATGTTCAAGATTATCATAACTTCCAGAATAATTTTTATTTGTGAAAATGCCTTTTTGATCTAGTTTCTCTTATGTTATTGTAGCTATGG
AGCTTTCTTATATCTGGCTACCTTATCAACAATATGTATTGTTGAGTGTTTACAGGGTCAAGATTATTATAACTTCCACAGTGATATTTATCTG
TGAAAATACTTTTTTGGTCTAGTTTCTCCTGTTACTAAAGCTATCGAGCTTTCTTTTGGTTGCTAAATATCTGCATATAATGTGTTTTCCAGCC
CTTTAGTTCAACCTTCACATGTCACTGTATTTTAAAGACGTCTCTTGACATAACAAAAATAGACCTTGTGCAGGACTTTGGGGGAAATTTTTCC
CCCTCAATCAGAATACCTCTGTCTTTTACAAGCAAGCTTAATTGATTTATATTTATTGTACTACATTTGGACTTATTTATGCTATTTTACTTTG
AACTTTTATTAACCATTATTTTTCTTTTACTGTTGTATTTATCTTTTCTTGTCTTCTGTTAAATTGATTGAGTTTCCTTTATTTTCTCTTTTCC
TTCTACTGGTTTGTGTATTATATGTTTTAATTCTACTTTTAGAATTAAGTCACCATTGGCCGGGCGCAGTGGCTCCCCCCTGTAATCCCAGCAT
TTTGGGAGGCCGAGGCGGGTGGATCACGAGGTCAGGAGATTGAGACCATCCTGGCTAACACAGTGAAACCCCGTCTCTACTAAAAATACAAAAA
AATTAGCTGGGCGTGATCGTGGGCGCCTGCAGTCCCAGCTACTCGGGAGACTGAGGCAGAATGGCCTGAACCCGAGAGGCGGAGCTTGCAGTGA
GCCAAGATTGCACCACTGCACTCCAGCCTGGGAGACAAAGCGAGACTCCGTCTCAAAAAAAAAAAAAAAAAAAGAATTAACTCACCCTTTAAGT
TCTCAAAGTACTCGTGATGTTAAAAGTCCACAGTTAATTAACATCTCTCCCAGTTCCAGGATCTTCTGTTCAGAACTTAGCACATTTCTGGCAA
CTAAGGATTGACAACTGTTAAAAAATATCATTTCCCATTATATTTTTGGATTGGTTGTTGCTGATATATAAAAAATGTTGAATTTTATAAATGA
ATTTTCTATCTGGCCACCTTATGAAACTCTTAATAGTTCTAATACTTTAACCGTCTTGGGTTTTCTAAGTACTTAATTAAATTCCTCACATAGA
ATGATTATTTTTATCTTCTCTTTTTCCAACAATTGTATGCCTTATCTATGTTACCAGTTTTATCAGATCACTAATAACGAGGGTTCTTTTAAAG
TCAATTGGAGTGAGAAAAACCCAAAGATGCCATTAAGTCCTTGAGTGTCTTTGGGGAAGAAAAGGTAGGTTTAGGAAAAGAGAGACAAAAGGCA
AAGTGAACAACTAAGACAATACCATGTATCGCAAATTTAGGTGTGATTTAATGATGGCTAAGAAAAAATTCTAAATTATATATATAAAAGTGTATT
CGTATATAAGGTAGTTTAAATAAATAACAGGTAATGTGGGCAGGCAACAACCATCAAAAATGACTGGAAATATTCAAATTCAACCATGGTGATT
TGGTTGGCAGCAATCAGAGAATTGACTATGCTTCAGTAGATTGAAATCCGTTATAATCTATTAATGTGAATACAGGTGACAGGAAACAACCGAA
TACAGCATTCTCATAAATAGTTCTTAGAATATGAATTCAAAAGAAACTCTATTTCCTCGTTGTGACACAATCAAGCTTTAAGCAATGAACGCTT
TAATTATTGTTTTTCAGCTTAGAAAGTAACTATATATTTTATCATTGGGTTCTAAAAACAACACCGCTCAAGAGGTCATTGTAGCAACAATCAA
AATTTGTGGAGCATTTTACAGATTTCAATGTCACTTATGTTATTTCAACTGATCCTCATATTTCCATCCTTCATACCCTCACGATTCATGCTTC
AGCAAAACATTCTACCTGTAGTCTCTTGTATCTTCCATATGATGATGCTGTTTTACACTTTTACACATTCTCTGCCAGAATGGCCTGACGTGCC
TAACCTGCCAGTTGAACTCCCACCCACCTTTCAGGCACCTTATAGTTAAGAGCAGCCTTCATTCTGTTGCCTGGCTCATGGGCAGGGGCAGGAT
TCCCAGCAAGGGGTACTATGTCAAGAGGCCTAAAAGGACATATCAGCATGGTAAAAGGAAATGGCTTGGGGTGTATGAGAAGCTCCTATGGTTA
CATGATTGGGAGGAATTCTTTTCATTTCGTGTTACAGACGGAGCATCTGAAATGAGAAGGGACCACAGTGAGTCAGTGAGTGAAAGAGGAGGAA
GATTCTGACACCCAGAGCTTTACCTTCAACATTTCCTTCTGTTTATTCCTTATCTAGACTTCCATTTTCCTACCCCATAGATACCCACTCTTTG
CCCCTAACTTGCCTTCAACTCCTCTACTGCCTTGTAAATGTCCCATGTGTGCTTGAAAAAAGAGTGGGCTCTGCTATTGTTGGAATCAAATTTG
TTAATTGTGGTTATCACATTTGATTGTTCTTACTGATTTTCTGTCTGTCCTATCCATCATAAAGGAAGACACTGTTAAAATTTCTCATTATGAT
AGTAGATTTCTAAATTTATCCTTGTTTTGTCAATATTTGCTTTGTGTATTTTGAAGTTATGTTATTGGGTGCATAGAAGTACGTAAGTGTTATG
TTTTCCTGATTCTTGATTTGTATATTTTGAAGTGATGTTTTTGAGTGCATACACATATAGCATTTTTATGTTTTCCTGGTGAATTGAATCTTTA
GCAATACGTACTGACTTCTGTATTTCTATTAATGCTTCTGCCTTGAAGTCTGATGTTAATATAACTCCTTGGATTCAATTGTCCATTCTTTTAG
TTTCAAACTTTTGGAGCATTTATGCTTTAAGCATGTCTCTTATAAACATCATATAACTGCATATTTTAAAAATATATGCAGTCCAACATTCTG
TAACTGCAGGGTTAATCTATCCACATTGATAATTATTACTGATATAGTTTGATGAATTTCCACTGTCTTATTTTGTTCTTTATTTTTTACCTTC
TCTTTCTATGCATTTCCCCCTTCTTTTGATTTAAGTAAGTTTTTATCCTATTTTATTTTCTTCCAATAGCTTGTAAGTTATTCACTTTACTCTG
TCATTTTAGATGTAATTTTTAACATCTTAACATGAATCCAGACTTTACAAAGCCTAGATTTAACCAATATCATAGCCTTCCTCTCAAAATAATAA
ATAACCTTAGAACAAATTGCCTCCACAAACCTTTTCTACACAGTTCCCTCCTCTTCCTCCTTGCTTCTTTGTGCGCATTTATGTTTGCTATTTG

AAAGAATTTCCTGAAAGTAAAAGTGAGATTTTTTAGAAGGCTGACATGAGGGCAGCAATAGTAGACTTTCACGTGACTCCTGTCCCACCACCTT
GAGCTGTGTGGTTTAGCCAACTTACTTAATCTCTCTGAACCTCAATCTCTTGCTTTCTAAAGTGGGGATGACAGTATCTACCTTCCAGAGCCAT
GGTGAGCATTGAAGGTAATATATGCAAAGAAGCAGCACATAGGCAGGGCTCAGACATCATAGTTATTATTATATAGATAACCCCAAATGGAGGG
CCTGGGCCCTCTGACTTCTTCAAAGATAATAATCTGAACTAAACCACAACATCACACAAACACCTCCCAGCACCCAGATAGTTTAGACATAGCT
CCACCTCTTTGTAAGAGATAACCTTCAACAGATAGGTGAAAAGCACGCTCCTTCCTGAAGATTATGATTCTGGGTGTTGGAAAAGCACTGAACT
AGGAGTCAGGGAACCTGGTGATCTGTTGTAATCCAAGGCTTGCCACAAACTTGTGGAATGACCACAGGCCCAGTGTTCTTATCTATAAAATGTA
GAGGTTGGCCTAAATGATCTTTGAGCTCTCTTCTAGTTCTCATATTCTATGATACCATTAAAAGGGATGTTCTACATCCCTTTTGCACCCAAAC
CACTTACTTTCTATACGGCCTAAACTTCTGGTTTGGGTTTCCCAAGGAAGCGAGAGACAACCTTCAATATTAGGCATATCTTTGGAGTTCTTAT
TAAACAGTAAACCTCATCTCACTATCAAAGATAGCCTCTGGCTCCAGCGTCCTCTTTCCAGTCTCCCACAGAGATTTCCTCTGGGAGTCAACGA
GCTTAAGGTGAAATTTGGCTAGGGGTCTGGGAGGAATTCTTTTCATTTCATATTACAGACAGAGCATTTGAAATGAGAAGGGGCCACAGGGGGG
CAGTGAGCGGAACAAGAGGAAGATTCGGGTCTCTGACACCCAGAATCTATCTGATTCTGACACAGAAGATGAACCGCGTTAGAGCAAGAACCAG
ATCCCTCTTTACCCAGTGGCCCAAGCTCTTGATGCGTACCTGTGTCCCTTGTAAAGCTCAGTGAAATCATCACCTAGACATTTCCTGTGCTCCG
TGCGTTATTCTAATCTTCACTGGGTACAAGTAGAGCTTAAAGTTCTGATATATGGACAGGAAAGAGAAGAGGGATGAAGCCTTTATCCAGGGCT
GGCTGGGCTAAGAGTAAAACAACTTCACCTGGATTCACCCAAGGGGCAGAGAATCTTATCTCAGACTCGGTCCACATCTTTATCAGCCCCCTTT
TCCCTTTATCTTTCATGTTGCTCACATGGGCTCCAGGGGCCAGATGAGTTTTCTCTTACTTTGAACATCAGAGAAAAAAAATAACGACAAAAAG
TTACTCAACCGACAAACGTTTCTCACCCACACACCTTTCCTCCAGTCAATGACGTTTCCACTGCACCCTGTTAGACGCTGAGTGAGGAAGCATC
TGGGCACAAACCGCTGTGGATGCAGATTGAGCAGCACTCACTGTGCACTGGAGGGATGGGAGTCCTGTCCTCACCAAGGGGGCAGATGGAGAGG
GGGCAGAGAGAGCAGCCGGGGCTTCACTCCCTGGAAACTCTCATACTCCAAGTGCGGCCTGGGGCTCTGCAGCCCCAGCATCATGTAGGAGCTT
GTTAGAAATAGCCTCAATGTCCACACCTGCCCTGACAAATCCCAGTCTGCAAGATCCCGGGGGCTCTGCACACACGCTGCTGCGAACAACCTCA
GCATCCGTCCTGCCGGCTCTAGAGCAGCCAACCGGGATATCCTTCTTCTTCAGCAGTGGTGTCCGCTCTCTAAAATGACTGTCCCCCACATCTC
TTTCCAGGGTTGGTATTTCTGGTTAACTCAAGGGACACAAAAATAGCTCAGGGAAAAATTAATTTTCATTCTACTCCAATTCTAATAATGAAGT
GGTAAAAATTAAAGGGACAGCTTTCAGATTATGGGAGTGCAGCTGCGGGTATGTGGCAAAATCGAAGAAAGAGGGCTCATAATTCCACGTCAGG
GAAGAGCTGCTGGCCTGCCCAGGCTGCTGTTTATCTTTACTGTGAATGGGGCCTCTTTTTTGTTTGTTTTGTTTTGTTTTCTACTTAACCT
CAGTGGCAAGAAAAATGGGGCCTCTTGCCAGGAGGAGCAGAGAGTGACGCGGAAGGCAAAGACCACCTCATTTCACCAAGTTCCTCGTCTTTTA
TTTGAAATCCAAGACATAGAAGCTGCACATTTGTCCTTCTGGGAAGAGTGACGAGTGACTGAGAGTGGAGTCGAACACTCGAAAGGAGAGAGCA
GGTGCCTGGGAGTCAGAAAAGCTGGCTTGAATTCCTAAATCTGTCGCCGTTTGTCCTGGGTGAGGTCATTCTGGTCATCTGTGGCAGGAGGACT
ACAAATGCCTGGCTTTTCCCTTTCTAGCGGGCACACAAAGAGACAGAGAAGTTGAATCTTTAGCAATCCATTGAAGGGAAACCCCACAATGCA
AAGAGAAGCATTGTCGAGGGCCCTTCACCTGCACCCTCTGTTCTCCCAGACCTGTTCCATGATGCATTCCAGAGGAGGTGGCTCTCCGTCACTG
TCACTTGCGATTGCCAAGGCGTCAGCCAGACAAGGCAAAAGCTCCCAAGGGGTGTTACCCTTCAGCTGCATACAGAACTCCTAGAGGCAACAAA
TCCACAAGGAAAGATACACCCATGATCGTGTATTTCAGCCACAATGATGGAGGTGAGGTGGAAAAGGACGAGGAACAAGTGGGATTCTGCCCAT
GTCTGTCTAATGAGCATCCACAGCAAACTCCAACGGAAGATGTGAAACACGCTCAACACTAGAAGAACTCGGTTTGACTCTGTCTTGGTGTGGG
TCCCAGGCCAAAGCCCTCGGCATTTTCAGGATTAATGATCACTGCTGGCTGTCTCTTTTTCCCTCTGCCCACATAAAAGGCACAAAAACTAAAG
AGGAAGGCCACATCACCGCAGAGCCCGTGGTTCAGGATTCTCCTCCTGGGAGCCCCGATTTCTTTTCTTTTCTCACCTTAACAGTGTCCAGAGT
ACTTTTATTGCCAGAATAGAGATATAGCCTGCTCAGAGCCTCATGTGCGGCCCCACCACTCAGGAACAAAGGGAGAGACAGATACTAAGCATGTG
TGCAACAGAGAAAATCCAGCCCACGAAACCGTGTGCAAGAGCAGCTCCGTCCTGCCTGAATGTGGCTTTGGGAAGCCCACCTAGAACTTGGCCT
GGCGCCAGTCACCCACTCAGAGCCTACTGCCATGAAGGCAGGCCCTCACTCTCCATCCCTGCCCACACAGGGAGACCCAGGGCAAACAGAAAGT
CCCCTAGCGGGGGCCCAAGGAACCCCTGGCTCTCTCAGGGTCCCATTCAAGTTTCTGGGCTAGTCTTGCAGACTAAATACCACTCAGTTGCCTG
GTGGGAGTAGGTGCTGGGCAGGGTGGACAGGAGCCCCACTGCTTCTCAGCCCTGTGCCAACCCCTTTGTGTGAGACCCTAGTGCAGGGTGGGGA
GCCCCAATTTCTAAGCCTTGAGTGTTTACCACCCTACACCCCCACCTCCAACTCCCGAATTGATCATCTCAAATTTTCCCACAGTCCATAGGCA
CCAGACACTTCAAATAATCTCAGAAAAGAAGGTGATGTCTACATCCAGAATCGTGCCAATACTTTAAAATTACAGGGAGAAAAATATTCCCCTT
CCCCTCTTCTAAGGAAAATTCTGTCTGCCTCCCAAGCTCCCAGGTCCCTTGGTGTGAGCTGGGGGAGTGCGTAGAGCTAGGAATTGGAAAATAT
TCCGGGAGAGAATGATTTATGTTGAGAAGACCCATTGGGAGAAGCAGGAAGTGGGTCTGGAAAGACAGGAGGAAGTGTAAAGGCAGAGAAAAGC
CCTTGTTAGCTGAATTTTGAGAAGTAATTTTTGGCATTGTTAGTGAGTAAAACTAGAGAATGAGGACAGTTGTATGCTGTCTTAAAAAATAAAA
GAATGATAATATAGGGAAAGATGATTTCAACATTTTGGAGTCATATAAGTGGAATCCTCCTGTTATTACTGTGCAAGACTTTTAGACAAATTAT
TTTTTATTCTTTTTTTGGATGTTGTTCTGTTGCTGCTTTTATAACACTACACTGAGAAGGGCTAAAAAAAAAATCCCAAATTTATTCCTATTAG
ATTGAAAAAGAGCAACCCTCCAGCGTACCTTTCCACACACTCTTCTACCTCCTGCTGCCTTCAGGTGATGTTTGGCACTTCCTGACAAGGCCTT
TCAGGGAAAAGGATTATAGCCAAGCTCTTTAGTGGTTACTGAGCTACAGACCTGGAGGTGTCAAGATCCTAAATTCCAGGAAAGATTCTTTATG
AAAGGAAAGTCTGTGAGAATAAGAAGTTCTGGAACTTCCCCTTGTCCCCGCATGACCTCTTCAGACACTCGGGCTAATTTATGATGACTCTGAA
AATGCCCATGACCTCATCTAGAAAAACGCACTCTCATGGAATTCAAGAGTTTCTAAGGGCACAAAATAGCTTCCAAGACAATTTGTTTCCTTCT
TTTCAAATTGATGTGTTTAGAAATGTTCTTGGCTTGTGATTGACATCTCAGATTCCAAAAACATCTGAGGTCAATCCTGGTTATTTGTGCTAAT
GAATAATTACAAAAGAGTAGCTAAATATGCTTCTCGCTCATTTTGTTGAGCTAAAATTACTTATAAAGAAATGCATAGATCTGCGGCATACAAT
TTGATGAGTTTTGACAAATGTGTACAGCTGCAAAAACGTTTTCATCACTTCTGCCTTCTGGTCAATACCCACCTACCACAAGAAACCACTGTCT
GCTTTCTATCTCTGGATATAACTTTTGTCTTTTTGTGAACTTCATATAAATGAAAGCAAAGTGTATGCACTATTTCGTGTTTAGCTTATTTTGT
TCAACATAACATTTTTGAGATTTATCAATATTGCCTGTATCAATAGTTCATTATTTTTTATTTTTGAATGGTTTCTATAGTATGACTATATCAT
AAGCTACTTGTCTGTTCTCCCAATGATGGATGTTTGAATTATTGAGTTGGTTATTATTAATAAAGCTACTATGTACTAGAATGGAAGGGGCTTA
ATAAAAGAAAGAAGTTACTATAAATATTTTATAAAAGTCTTTCTGTAGACACATCCCTTCATTCCTCTTAGATAAATACCTAGAAGTAGAATTG
CTGAATTGTAGGGCAGGTATATATTTAACGTCAATAAAAATACTTTCTTTTTTTTGTTTTTTTTTTGTTGTTGTTTGTTTGTTTCTTTGTTTGTT
TTTGAGACAGAGTCTCACTCTGTTGCCCAGGCTGGAGGGCAGTGGCGTGATCTCAGCTCACTGCAACCTCTGCCTCCTTAGTAGAGAAAGGGTT
TCGCCATGTTGACCGGGCTGGTCTCAAACTCCTGACTTAAAATGATCCACCTGTCTCAGCCTCCTAAAGTGCTGAGATTACAGGCGTGAGCCAC
CATGCCTGGCCAAATACTTTCAGATAGTGTTCCAAAGTAATTACATTACTTACACTGCCACCAGTAACATAAGAGAGTTCTGGTAGTTCTACTT
CCTCCCCAGTATTTGACGTATCAGTCTTTTATCCATTTCCTCCATTTCCCCAATGGGCTATCTCATCATTGTTTTCAACTTGCATTTTATTGAT
ATCTGATGTTAAATACACTTTCAAGTGTTTATTGATAGTCGTGTATCTTCTTTGGGGAAGTGATTGTTCAAGTCTTTGCCCATTTATTGGGCTG
TTTGCCTTTTACTCTTGCTTTGTTTTTCTTTATATATTCTGGACACAAGTATTTGTGACAAATATATATATTGCAAATATTTTCTCTCAGTCTA
TCATTTACTTTTTCATTTTTTTCTTTTTTTTTTTTTGAGATGGAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAGTGACGCGATCTGGGCTCAC
TGCAAGCTCCACCTCCCAAGTTCACGCCATTCTCCTGCCTCAGCCTCCCCAGCAGGTGGGACTACAGGCGCACACCACCACACCCGGCTAATTT
TTTTGTATTTTTAGTAGAGACAGGGTTTCACCGTGTTAGCCAGGATGGTCTCCATCTCCTGACCTTGTGATCTGCCCGCCCCGGCCTCCCAAAG
TGCTGGGATTACAGGCGTGAGCCACCACACCCTGCCTACTTTTTCATTTTCTTAATGTCTCTGGATGAGTAGACATTCTCAATTTTTTTCTTTT
ATAGTCAGTGCTTTTGCATCCTCTATGAGCAATCTTTGCCTATCTCCAACTTGCAAAGTCATTTGCCTTAATTTTCTTCTGAAATCTTTTTAGT
TTTGCCTTTTATGGTTACATCTATAAGATATAGACCTAGTACATAGATCTTTATCTTTATATATATAATAAAATTAATTCTTGCATAAGATGTG
AGTTTTTTTTCTCATACATTTATCCATTTGCTCCAGAAGCATTTGTCGAAAAGATTTTTCCTTTCTCATTGAATTTCCTTGGCACATTTATTTGT
TTAAAAAAAAAGCAGTTGAACAAACATGAGTTGAGTCCATTTCAGGACTTTCTGCTCTGTTTCATTACTGTTTGTCCTTATGCTAATACTACGC
TGCCTTGATTTCCATAGTTTTATAGAAAGCCTGAATATCAGATGTCATGAATCCTCCAAATGTATACATCTTTACGATTGTCTTAGATATTCTA
GGTCTTTTGTGTTTCTAAGGAGCTTTTAGAAATAACTTCCAAATTTGTACTAAAAAATTGTGTTGGATTTTTAAACTGTAGTTGCCTTGAATTA

ATTGATCAATTTAAGGTGAATAGATTTTTTAAATGAATGTTACAATCTATAAAGATAGTATATTTTTCCATTTGCTTAATTCTTTTAAAATATG
TCTCAGCAATATTTCAGAGTTTTCAGTTTAGTGGTATTACAAGTTTTTGGTAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

CTTTGCCAAACTCTTCACAATAGAGAGGGCTGTTCTAGAAGTTTCCTTGTCATTGTGTTAAGATGGCGTCTCTAACTTCAAGCATTCTGAACAG
CCTTAGGGAGCAAAGGATCAGTGTGTTGTGGAGTGAGACCACTCCTGCTGCTGTCAAACAACACAGAGACAATTGACAGCAAGCAAGGAGTCCC
TTTTGGTGAGAGACACACACATGCACACATAACATACATGACATACACAGACACGTAACATACATGGCATACACAGACACGTAACATACATGAC
ATGCACAGACACGTATACACACGCTCAAAAACATGTCGTGGGCATTGCCATATGCACTTGAATACCCAGAGGCCGGTGCTGGGAGGGCATACTC
TGGTTTCGTATTTGTAAGCTCAGCAGCCAGACACCACCAGACACATCGTGGGCCCTGGACAGGTGTGCTTCTCAAGTGAATGAATACATGAACA
GTGTTTTCTATGAAGCATTTGTGAAATTATCTGCATCATTCCATCTATATTTTCTAGCCACTCGGAACACAACGAAACAAGTGACACCTCAACC
TGAAGAACAGAAAGAAAGGAAAACCACAGAAATGCAAAGTCCAATGCAGCCAGTGGACCAAGCGAGCCTTCCAGGTGAGAGATGATTCTGTCCT
CCAGCTAACTCCTGCTAGCGCACCCTTCTCCTGCAGGCAGATGATGTGTACCCAAAGGAAGAAGGTCTGCCCTGCCTTCTATAAACACATGCAT
GTGGCTCCGTCCTCCCAAGACATCATTGCAGACAAGAATTAGTGCAGAGTTGCTCAGAGGCTGTTTGCTCAGCAACTAAAGCCAATCTGACGGC
AGCCAATCCAGGTCTGGGCTTACTCCCTGGTTTGGTAACTGGCCAAATAGAATTCAACCCAAATTCAACTCAACTTAAAAGCGTCTGTTGGGTC
TGTGTGCCAGGCCCTGCTGATAGAAGACACAAACAAGAGTGTGACAACGATCCCTGCCCTCAAGGAAACGCTCTGCGTCTTCCCCTTAAGCACA
AGACAACGCACCGCAAAAAAATTACTTGCTTCCCAGTATTTCTTCCAGGGCAAGGTTGTAAAATGTGCATGCCACACTTGTGAGTCTCAAAAGC
TCCAGATGCGTGTGTCCTGGCCAGCAGTCTGTGCATGAGTGGGCACTGTGGCTGTCCCTTGTCTGCCCTCTGCTTTCCCATGACTGAATTGGGA
TTCAGTTATGGTGTCAAGAAAATGGGCTGGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTGTGGGAGTCTGAGGCAGGCAGATCACTTGAGG
TCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCTTGTCTCTACAATCATACAAAAATTAAGCTGGGCATGGTGGTGGATGCCTGTAGT
CCCAGCTACTCAGGAGGCCAAGGCATGAGAATTGCTTGAAATCAGGAGGTGGAGGTTGCAGTGAGCAGAGATTGCATCACTGCACTCCAGCCTG
AGTGACAGAGGAAGACTCTGTCCCCCCTCAAAAAAACAAAACAAAAAAGAAAAAAAACCCACAGAACCTGCTAGGAAGAATTGAGCTTTCTAAG
GTCAGGCTAGCCTTAGGAGACTTCAGAGCCCTTTGCTGATTTTACAACCTTACAAAGAACTGTATCAGATACCATCCCATTTGAGCCTGGCTAT
ACAATGAGTCAGGACCAGGAAGGGTTACTTCAACTTACTGAAGAAACTGAGATGCACAAAAGATAAAAAGATTTGGTTAAGCTCACATAGTAGG
GCTGGAATCAGACCTCAGGTCTCCCAGATTAGATGAGGAAACTTTCTGCTGATTACTTATTTTAAAAGAGTTTGAATTTACTTACAGCTTCCAT
TATTTTATTTTTTAAAACAGACTAATCTAGGGGCACAGTTGCAACATGATGCTCTTACTCCTTCCCCTTCCGACTTTGTCCTGGAATGGTGTTT
CCAAGCACATTTGTTTGTTTTGTTCTACTGGCTCCCCCATAGTCACCCTGCACAGATTATTGGAAGGCTTCAAAGAGGCCAATGCTTGTTGTCC
TTTCTCGAAGGCTGGCTCTGCCTGAGGGATGTTTCAAAGATTGTCTCAGTTTGGGTGTTTTCATTGGAAAGAAGCAAACCCAATTCAAACATGT
TCAGACAGTTACGAATTGTACTGGCTGTCAAACAACCTTTTATCCTGAGACCAAAACACAAGTTCAGTCGTGATGTTCAAGGTGCCACATGGCA
GGAGCCAGCCTGGGACAGGGCCACCCAGCTTCCTGCTGGGGAAGAGGCTCTGGAGGATATTTACAGAGGCTCTGTTGGGTATGCAGGGTTGGGG
AGAGTCTGGAAGTTCAGAGCACGTGCGCAGTTTCACAGGCTGGGGTTAGAGGGCACATACAATTCCATATGTCCAGGTTGGGGGCTGTGGGTGG
GGAATTCAGAGATTTAATCAGAACAAGACATGGTCTCAGGCCAGGTCCGTCAGGCCTGGGATGTAGTTGGGTGAGTGGAAAGTTCTGGGGAT
GGGAAATTTTGAGACGTCTTGAAAGGGCGCATGTGTGTCAACCTTCAGGTGTGGCTTGATCAGAGATGGTGCTCCATTTCTCTGAGGTTCCCTC
AGCCCGTCCCTCCTCCTGGCTTTGGTGTTGTCCCCAATCCTTCCGACATCATCCCAAGATGCCCAGCCGCTGCCCCCAAGAATGCACTTCCTCA
CTTGTCCAGCAGAAATCCAAGGTGGTCTTCATGCTCCATTGGCCCAAATAGGCTTGAGCCTACCCTTGTGTCTCAGCTGAGACTGCCCGCCCA
CTCCTGTCCACTGTCAACACCTGCACTGTCTTCCAAGAGGCAGTTGTGGCGTTCCTGTCTCGGGGCCGCACCAACCAGAATGAATCGCTCATTC
CTCTGTGTTCCCATTGCCAACGTCTGCTATCCTTCACATGCCTTTCTTACCCAATCCACTGTCCACCCCTTGCAGGAGTGACAGGGTCTTCGTG
CCTTCCTACAGGGCCTAGCAAACTTCCCCACGCTCAGACGTTCTCAACATATATTGGTTGAATGAAAGGATGAGCAAGCAGTCAAGAGAGTAAG
AACCAAGGTCCAGTCCCTAGCAAGAGGCAACCTGGACTCACTCGCGGTGCTGTCCCCAACTTGCCTTCAGAGCGTTCCTTCCATCTTCCAGGTC
ACTGCAGGGAACCTCCACCATGGGAAAATGAAGCCACAGAGAGAATTTATCATTTCGTGGTGGGGCAGATGGTTTATTATCAGTGCGTCCAGGG
ATACAGGGCTCTACACAGAGGTCCTGCTGAGAGCGTCTGCAAAATGACCCACGGGAAGACAAGGTGGACCCAGCCCCAGCTCATATGCACAGGT
GAAATGGAGACCAGTCAGTTTCCAGGTAGGGTGGCTCCCTTCTGGGGTCCACAATGTTGCTTTGCTCCATCAGGCTGACCAGGGTGGAATCCCT
GACCACTCCTGCTGGACAAGAGTGGTCCTTGGACAAGACCCTTGATCTCCCTGGGCTTCCATTTTTTCTCATTCTGAGAAAAAAAAAAAATTTA
AATAGACCAGATCAGATGGACTCTAAGGGCTCCTTCAATGAAGGTCCCCCTGTGCCCTGAGTGGGGAGAAAGGTTGGAGACAGAAGAGAAGGAA
AGCCCTCTCCTAAGCACCCTAGATGCTGCCTCGTAGTTGGTCCTAAGTCCACTACTTCTCTAAGCCACCAAGGCCTCCTCTGGCTCCAAGGGCA
AGTCCAGTTTCCCACTCACACATTTTTCCTCTTACTGGTGATCGTGTAAATGCATGATCTGAACAGCCCTCCGCGGTCAGCATGTTCCTTCCCC
TTGTGCCATTCCCCAGCTGAGCTTGTAAAAATAAACATAAAATGTGCAGAGTCGGGACTTACTCAGTGCACATGCGCGCACACACACACACACA
CACACATACTCATGCAAATGCTCAGCCCACCGATGTCGAGGTCTCCTGCTGTCTTCCTTCTGAAATCTTATTAGTATCACGACAATCAAAAGTG
ACTTACATGCAGGCTGGGCACAGTGGCTCACACCTGTAATCCCAGCACTCTGGGAGGCCAAGGCGGGCAGATCACTTTAGGTCAGGAGTTCGAG
ACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTATCTGGGCGTGGTGGTGGGTGCCTGTAATCCCAGCTACTTGG
GAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGGTGGAGTTGCAGTGAGCTGAGATCACACCACTGCACTCCAGCCTGGGCAACAGCAAGAC
TCCGTCTCAAAAAAAAAAAGTGACTTACATTCAACCACAAGTATTCCTGGTTTTCTTGCTCACTGCACTTCTCATACTCCATGTCCTTCTCTTG
GGTTCCCTAGGGAGGCTGTTTTGTTCCCTTAGCTGCTTCCCTGGGCCACCCTGACAGCCAGGGAATGCTTGCTGCTTCCTTGGAAGAGGGTGAG
AGGCAGGGCAGAGCCAGGGTTGCTGACCCCTCAGGAGAAGTGGAGAGCCTGGCACAGAAGCAGCTGTCCCTTAGTGCATCTCTGCTCCATCCAG
TGGTTCAATGGCATTCGTATTATTATGACCTGTTTCCAAGTCACAGATGGAAACCAGGACTGGGGAGGGAGGCTGGGGAGAAAGCATTGCTCAG
AGTTTTGGGGACAGCTAGGGTCAGAGTTAGAATTCAGCCTCGTCTGCTCTGCTGAGACCACTTCACCGCTTCCCAGTGCCCCTGCTGTGGAACC
ATGTGGGGTGGCATCCCTGGCGAAGTGCCCACACCAGGATTCCTGCCTCCTCGGGCGTGTCTGGGGCCGGCTGCCTGGGGCAGGCGGGGTGGGA
GTGAGGCCCTGACTCCTGTGTTTAGCTCCACCAGCATCACTTACTCTCTCCCCCAGGTGAAGAGAAGCCTCAGGCAAGCCCCGAAGGCCGTCCT
GAGAGTGAGACTTCCTGCCTCGTCACAACAACAGGTGCGGGAGAAGACAAACGCTGGACCACAGAGGCCTAGTCCAAAAGGGCAGGGGTGACCA
GGAGCCAGGCTCAGGGAGATAGGCGGAGGTGACCTGTAGGGGAGAAGCCCACAGCAGCCTCCTCTCCCTCTGAGCAGGGACAGGGCCTCAGCAA
CCTGCAGGCCCCAAAGCAAGTGTCAGAAAGAGGGAACCCAGGACCAGGACCAAGCACGGTCCCCAGGCAGAGATGGAACACCTTCCCTCACCAC
CACCACGTGTCTCCCACCAGCCTCTGAGCTTCTCATTCACAGAGACACCCTGACTTCCTTTAGCCTCGTGCTGTCCTAAAGTCACGGTAGCAGG
AGTGTCTCTCTTTATCTCTTTTTCACAGATTTTCAAATACAGACAGAAATGGCTGCAACCATGGAGACGTCCATATTTACAACAGAGTACCAGG
TAGCAGGTGAGTGGGGCACTGGCTTTGTGGACAAAATGTACACCAGGCTGAGATATGGACAGGTTGACTGGTTAGTAGGTTGGTTAGTTGGTTG
GCTGGTAGGTTGGTTAGTTGGTTGATTGGTAGGTTGATAGGTAGGTTGGCTAGTTGATTGGTAAGTTGGTTCGTAGGTTGGGAGGTTAGTTGGT
TAGTTGGTTGGTTGCTTGGTTGGCAGGTTGGTTTGTATGTTGGTAGGTTAGTTGATTGGTTGGTAGGTTGGTAGATTGGCAGGTTGGTGGGTTA
GTTGGTTAGTTGGTTGGTAGGTTGGTTGGCAAGTTGATAGGTTGGTTGGTGGGTTGGTTGATAAGTTGATAGGTTGGTTGGTAAGTTGATAGGT
TGGTTGGTGGGTTGGTTGATAAGTTGATAGGTTGGTTGGTAGGTTGGTTGTTAGGGTGGTAGATTGGCAGGTTGGTTGGTAGTTTTGTTGGTAG
TTTGGTTGGTTAGCTGGTTGGTTGGTTAGTGAGTTGGTTGGTAGATAGATTGGTAGATTGGTTGGTTGGTTAGTTTGTTGGTAGGTTAGTAGGT
TTGTTAGTTGGTTAGTTGATTGGTAGGTTGGTTGACTGAAAGGACCCCTTCCTTACACTGCAGAATGTGTGAGTGAAAGACTAATCCAGA
TACTGACGTAACTCAGAATTCGCATGAACCAGTTACAGGATGCTGTGAGCAAAGTCTCAAGTCAGCCCTATCAGCTCCTCTCAAGCTGATCTGG
AAGGGCTGTACCCCGGGCCTCTGCCAGGGGTCAAGAGTGGGAGGAAGGAGCCACGTAGCCAGTCAGAGAGGACAGGCTTCCAGAAACACTGCCA
TTGTTTCCTGGTAGGAGGGAAAAACAGACTCTGAGTCTGCATCTGCCTAGAAAGTAAACAAATGTCAGCCTCCAAAACCTCAGCAGAGCAGCAT
CTGGAAAACCCGACCTCTTTCAGGAGATGTTAATGTGCTTCTCATCATCTTCATATTTCAACATTTCTTTTACCAGGCGCTCTCGGTGTCCTTA
AACGAGGCCTGGCCTCTGAGCCTTTCTGAGGGGCTTTTGTGAGAGAAGGGTGCCTCCTGAGGGGAAGCTCCCTCCACCCTCACCCTGTCCTCCC
TGCCCTGTTCCTCAAGACTCCTAGGAAATCCCATGGGGAGGGACCTACTTCCTGAGACAGGGAAGAGAGGCTGCAGCCTCCGCCTTGCTCTTTG
GGGATGTCCTCAGCCTGCCCTGTGGCCCTGGCTCCTGCTGCCCCCATGCCAAGCCCAGGGCCCTTTGCTGAACTCCCTCTCTCTATTGACAGTG
GCCGGCTGTGTTTTCCTGCTGATCAGCGTCCTCCTCCTGAGTGGGCTCACCTGGCAGCGGAGACAGTAAGTGTGGCATCACCAAGGCAGCCCTT

GGTCAGATCAAAGTCCTGTACCCAGCCCCACCCTGCCTCCCCCCTACCCCCTCCATGCTCTCTCTAATCACCTGCAGTTCAGGGAGTGGCAAAG
GGAGAGGCCAATCCATGCCTCGGAAAGAGTCAGTTAAAAAGAATTAAAGCACCGCCGGGTGCAGTGGCTCACGCTGGTAATCACAACACTTTGG
GAGGCCAAGGCTGAGTGGATCACCTGAGGTCAGGAGTTTGAGACAAGCCTGGCCAACATGGCAAAACCCCATCTCTACTAAAAATACAAAAAAT
CAGTTGGGCATGGTGGCAGGTGCCTGTAATCCCAGCTACTTGGGCGGCTGAGGCAGGAAGATTGCTTGAACCTGGGAGGCGGAGGTTGCAGTGA
ACAGAAATCTCACCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAATTAAACGACCAGGGAAATG
GGAAGGCAAAGGAGCCTCACATTCATTGAGCACCCACTATACACCAGGCTTGATGCTTGTTTTATAAACATTATTGAAATCTACCTTCTCAGAA
ACCTTTGGAATAGCTGTGGCCTAGAGAGATGCAACAGCTTGGAGAAGATGGCACAGCAGAGGCCAGCACTGCAACATGAATCTAGAGCCCATGA
TTTTCCCACCCAGCCCCTACCTATAGAGGACCCAGGGCAGCATCTATGCTGAGCTTTGCCTATCCTGTGCTCCCCACCCTCCCGTCCACAGAAG
CTCACACCGGCATCCCCTTGACCAGGAATGTAAACCATGTGTGGTCTTTTTGCATTAACTCAGATTTTCAACCCTGCATGCATCTTAGAACATC
CAGGAGACAGTCTTCTAAAATACCAGTGAGTGGCAAGATATGAGTAAATTCCACAGGAAAAGGAAGGCAGTCCAAAGGGCTGTGCTTCTCCTGT
GGCTCAGTGTTATTCATAGCTGTGACATCTTTTAAGAGAGGTTTACAAGAGGGAAATCCTGTCACCAAAACCATTGTGACCCACTTTGAATTTG
GGGGGAATCTTCATTTGCAACAATAGAAGAACAAATTTGTTGCAATAGGAAATATTTTTGTAGCTTATGTAGGTTGTTCAGCCAAAACAGCATA
ATAATTTAAAAAGTTAAAAGATAGCCCAGGAGTTGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCAGGTGGTTACCTGAGGTC
AGGAGTTCAGGACCAGGCTGGACAACATGGTGAAACCCTGTTTCTACTAAAAAATACAAAAATAAGCCAGGCGTGGTGGTGGGTGCCTGTAATC
CCAGCTACTTGCGAGGCTGAGACAGGAGAATCACTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCCAAGATCGCGCCACTACACTCCAGCCTGG
GCAACAAGAGTGAAACTCTGTCTCAAAAAAAAAAAAGAAAAAGGTAAAAGATATCAATGATTGGGCTCCAGTCAGAATGTCTGGGGGTGAGCCC
AAGACATCAGTACGTATTTTTAATTGAGATAAAATTCATCATTTAACCATCATAAAATGTACAGTTCAGTGGTGTCTTAGCCCATTTTGTGCTA
CTGTAACAGAATGCCTGAGACTGGGTAACTTATAAAGAACAGAGATTTATAAAGAACAGAGATTTATAACTTATAAAGAACAGAGATTTCTTAC
CATTCTGGAGGCTGGGAAGTCTGAGGTCGAGGGGCCCCCATGTATCAAGGGCGTTTGTGCTACGTCATCCTGTGGCAGAAGGCAGAAGGGCAAG
AGAGTGAGAGACAGCAGGAGGGGCTGAACTCAGCTTTTATCACAAACCCACTCCTGCAATAACAACATTAATCCATTCATGAGGCAGAGCCCTC
GCGACCTGATCACCTCTTCAAGATCTCACCTGTCAACATTGCTGGATTAGGGATTAAGTTTCCAACACCTGAGCTCTGGGGGATGTATTCAAAC
CACAGTAAGTGGTATTTAGTATGTTTGCAATGTTGTACAGCCATCCCCACTGATTCCAGAATACTTCCATCATTCCCAAGAGAAGCCCCACACT
GCCAAGTTCCCCATTCTCCCCAGCCCCGGGAAACCACCACTCTATGTTCCGTCTCTATGGATTTGCCTATTCTGGACATTTCGTGTAAATGGAA
TCACGTGGCCTTTTATGTCTGGGATAGTCGTACGTTTTAAAGCCCCTCAGATGTATCTAATACATATGCATCCAGGTTTGACAACCCTACACCC
GGCCATTGGTTTTCAAACTTGAACTAGCACCAGAATCATCTGTAGGAACATAAAGAAACGATAAATGTTTGAGATGATGGATATGCTAAATACC
ATGATCTGATCACTGTACCTTGTAGGTATCAAAGCATCCCTACATACCTCATAAATATATATAACTATTATGTGTCAACTTAAAAACATTTGTT
GAAAGAATCATCTGGAGGCCTTGTTAAAGCACAGATTGCTGGGTCCCACCTGTGGAGTTTCTGACGCAGTCGTCTTGCTTAGGTCCAGGAATCT
GTATTTCTATCAGGTTCCCAGGTGATACTGACGCTGCCGTTCCAGGGAGCAGACTCTGAGGATCACCGCACTAGGCTAACAGCATTAAGAATCA
GGGAAGCTGGCCAGACTCACGCTTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGCGGATTACTTGAGGTCAGGAGTTTGAGACCAGCCTGGC
CAACATGGAGAAACCCTGTCTCTTCTAAAAATACAAAAATTAGCTGGCTGTCATGGTGCGCACCTATAATCTTAGCTACTCGGGAGGCTGATGC
AGGAGAATCGCTTGAACCCAGGAGGCAGAGGCTGCAGTGAGCTGAGATCGTACCACTGCACTCCACCCTGGGTGACACAGCAAGACTCTGTTTA
AAAAAAAAAAGAAAGAAAGAAAAAAGAAAAGAAAGAAAAAGAAAAAGTAAACTCTAGAAACTCCCTCTGTCTCTCTCTTGATTATCCAGGGCCT
CCCTGACCCCTGCCAGCATCCACTCTGGCCAACCCTGATACAAACTCCACAGTAAGACCCTGAGAAAATACAGATCCACTCCCCCAAAACCAAA
GCCCTTAGCCCAGCCAGAGAGAAAAATAAAATATCTCTTCCCTTCTTATATGGGTCATCAGGTCCATAACATACTCCTAATTTTCCTCATGGGA
ATTAAAAAGTATAAATTACTGCAGTGCAAATGATAAGCCCCCTAGGGTTATTGTAGCAGGAATGATTCATATACCCGGCAGTCTACCAGTTTCT
CTAAGGGGTTAGCTGACTCCTAAGGTGTCATTTTAGGCTTCCAGGAGGGGAAGGATGTGACGTGGCTGACATGTTGTACGTGTACTCAGTACTT
GCATCCTCTCCTTCCTCAGGCTGAACACCTGACAAGCCTTAACACCTTGCAAGGATTTTTTTCATTTGTTAGTTTGAAGATCAAAAGCCTTCGG
GCCCAGAGGACAAAGCTATTTGGAAGTAGGAATGGTTCAGTGTTTATGTTGTGAAACAAATAACTGTGTGAACCTATGTGAGTTCCCACAAGGT
CTCCCAGAACTACAATCTTTGGGGAGACTCAAACATACATCTAGAAATGACCCCTCTAGTCAGTTTGTCCAAAAGCCTTCCTAGAATCTGATAT
CAACCCATGGTGCCCTCTTGTGGCAACAGAAATGCTGCATTTGAATTACCGAAAGATCACTGTAGCCCAGCCAGAGAGTTTTGGTTGGGGAAAT
ATTTTTTGTTTGTTTCGGGCAATGACCAGGAGCCCGTGATGTGCTACAGAAGGCTCACAGTGGCTTGTGAGAGCCAGCGGTTAAATTTTCGGGA
CTTCTGCAAACTGGTTTTTAAGCATAGCCATTATGGAAAATTAAAGTATTTAGGCTGGGAGCAGTAGCTCCTGCCTGTAATTCCTGCACTTCGG
GAGACTAAGGTGAGAGGCTCGCTTGAGACCAGCCTGGGCAACAAAGTGAGACCTTGTCTCTACAAAAACATTTTAAACTTAGCTAGGCGAGGTG
GCACATACCTGTAGTCCCAGCTACTGGTAAGGGCGAGGTGGGAGAATCCCTTGAGTCCAGCAGTTCAAGATTGCAGTGAGCTGTGACCATGCCA
CTGCACTGCAGCCTGGGTGACAGATTGAGACGCTGTCTCAAAAAAAAAAAAAAAAAAATTAAAATATTTAAATTTACAATTTAATAAATTATATT
AAAAACAAAGGCAAGAATTACTTACAACTGATCACTTCCTAATTATTTGCTACCTTTTACTGTTATCTTTGTTCGCTGGGTGGTTTACATCTAT
TGTGTCCGCATGGTGGAAATACCGTTTGACGGTGGCTACCGCGCATCTCTTCCCAACCGCGTGATCAGTGATGTCACATTGCCAGCTGGAAGCT
GTGTGTGGAGGGAGGATTGACACCAGGGAAGACAGGCAACCGTCATCAGAGAGCTGCTTGTTAAACATCACCAGCACACCTCTGCTTGGAGTCT
TGTGCTATGGGAACTCTGTGCAAAGTAGGGAGTAATTAGAAATTCCCATGAGCCAAATAAGAACTGGGAAAAGGCTAAGACCGTATTGTCCAAT
ACAGTAGCCACTAGCCACCTGTGGATACTTAAGTGTATTTAAACTCAAATAAATTAAATACAATTAAAAATTCAGTTCCTCGGTTGCACTAGCC
ACATTTCAAGCGTTCCCTAGCCACAGGTGTCTGTGTTATCGGACAGCACAACTGCAAAAGATTTCCATCATCTCAGAAAGTTCTATAGCACAGT
GCTGGCTAGAAACCAAGTGCTTTACTGCATGCACATCATTTAGCACAGTTAGTTGCTGTTTATTATTCCTGTTCCACAGCTATTGTCTGCCATA
TAAAAACTTAGGCCAGGCACAGTGGCTCACACCTGTAATCCCAGCACTTTGGAAGGCCGAGGCAGGCAGATCACAAGGTCAGGAGTTCGAGACC
AGCCTGGCCAACATAGCAAAACCCCATCTCTACTAAAAATACAAAAATTAGCCAGGCATGGTGGCGTGTGCACTGGTTTAGAGTGAGGACCACA
TTTTTTTGGTGCCGTGTTACACATATGACCGTGACTTTGTTACACCACTACAGGAGGAAGAGTAGAAGAACAATCTAGAAAACCAAAAGAACAA
GAATTTCTTGGTAAGAAGCCGGGAACAGACAACAGAAGTCATGAAGCCCAAGTGAAATCAAAGGTGCTAAATGGTCGCCCAGGAGACATCCGTT
GTGCTTGCCTGCGTTTTGGAAGCTCTGAAGTCACATCACAGGACACGGGGCAGTGGCAACCTTGTCTCTATGCCAGCTCAGTCCCATCAGAGAG
CGAGCGCTACCCACTTCTAAATAGCAATTTCGCCGTTGAAGAGGAAGGGCAAAACCACTAGAACTCTCCATCTTATTTTCATGTATATGTGTTC
ATTAAAGCATGAATGGTATGGAACTCTCTCCACCCTATATGTAGTATAAAGAAAAGTAGGTTTACATTCATCTCATTCCAACTTCCCAGTTCAG
GAGTCCCAAGGAAAGCCCCAGCACTAACGTAAATACACAACACACACACTCTACCCTATACAACTGGACATTGTCTGCGTGGTTCCTTTCTCAG
CCGCTTCTGACTGCTGATTCTCCCGTTCACGTTGCCTAATAAACATCCTTCAAGAACTCTGGGCTGCTACCCAGAAATCATTTTACCCTTGGCT
CAATCCTCTAAGCTAACCCCCTTCTACTGAGCCTTCAGTCTTGAATTTCTAAAAAACAGAGGCCATGGCAGAATAATCTTTGGGTAACTTCAAA
ACAGGGCAGCCAAACCCATGAGGCAATGTCAGGAACAGAAGGATGAATGAGGTCCCAGGCAGAGAATCATACTTAGCAAAGTTTTACCTGTGCG
TTACTAATTGGCCTCTTTAAGAGTTAGTTTCTTTGGGATTGCTATGAATGATACCCTGAATTTGGCCTGCACTAATTTGATGTTTACAGGTGGA
CACACAAGGTGCAAATCAATGCGTACGTTTCCTGAGAAGTGTCTAAAAACACCAAAAAGGGATCCGTACATTCAATGTTTATGCAAGGAAGGAA
AGAAAGAAGGAAGTGAAGAGGGAGAAGGGATGGAGGTCACACTGGTAGAACGTAACCACGGAAAAGAGCGCATCAGGCCTGGCACGGTGGCTCA
GGCCTATAACCCCAGCTCCCTAGGAGACCAAGGCGGGAGCATCTCTTGAGGCCAGGAGTTTGAGACCAGCCTGGGCAGCATAGCAAGACACATC
CCTACAAAAAATTAGAAATTGGCTGGATGTGGTGGCATACGCCTGTAGTCCTAGCCACTCAGGAGGCTGAGGCAGGAGGATTGCTTGAGCCCAG
GAGTTCGAGGCTGCAGTCAGTCATGATGGCACCACTGCACTCCAGCCTGGGCAACAGAGCAAGATCCTGTCTTTAAGGAAAAAAAGACAAGATG
AGCATACCAGCAGTCCTTGAACATTATCAAAAAGTTCAGCATATTAGAATCACCGGGAGGCCTTGTTAAAAGAGTTCGCTGGGCCCATCTTCAG
AGTCTCTGAGTTGTTGGTCTGGAATAGAGCCAAACGTTTTGTGTGTCTAACAATTCCCAGGTGCTGTTGCTGCTGCTACTATTCCAGGAACACA
CTTTGAGAACCATTGTTATTGCTCTGCACGCCCACCCACTCTCAACTCCCACGAAAAAAATCAACTTCCAGAGCTAAGATTTCGGTGGAAGTCC
TGGTTCCATATCTGGTGCAAGATCTCCCCTCACGAATCAGTTGAGTCAACATTCTAGCTCAACAACATCACACGATTAACATTAACGAAAATTA

TTCATTTGGGAAACTATCAGCCAGTTTTCACTTCTGAAGGGGCAGGAGAGTGTTATGAGAAATCACGGCAGTTTTCAGCAGGGTCCAGATTCAG
ATTAAATAACTATTTTCTGTCATTTCTGTGACCAACCACATACAAACAGACTCATCTGTGCACTCTCCCCCTCCCCCTTCAGGTATATGTTTTC
TGAGTAAAGTTGAAAAGAATCTCAGACCAGAAAATATAGATATATATTTAAATCTTACTTGAGTAGAACTGATTACGACTTTTGGGTGTTGAGG
GGTCTATAAGATCAAAACTTTTCCATGATAATACTAAGATGTTATCGACCATTTATCTGTCCTTCTCTCAAAAGTGTATGGTGGAATTTTCCAG
AAGCTATGTGATACGTGATGATGTCATCACTCTGCTGTTAACATATAATAAATTTATTGCTATTGTTTATAAAAGAATAAATGATATTTTTTAA
AAAGTCTTGGTTTTTATTATAAAATATGATAAATATTGCTAGCTATAATCTACATAACCCAAAAACCTTTATAGTTTTTTGGTGCTTTTTTTTGT
TTTTTTGTTTTTTTTTTTTTTGAGATGGAGTGTTGCTCCGTTGCCCAGGCTGGAGTGCAGTGCACAATCTCGGCTCACTGCAGCTTCTGCCTGC
TGGGTTCAAGTGATTCTCTTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCACCCACCACCAAGTCCAGCTAATTTTTGTATTTTTAGCAGA
GACGGGGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTCACCTCAAGTGATCCACCCAACTCAGCCTCCCAAAGTGGTGGGATTACAGGC
GTGAGCCACGGCACCCAGCCTGGTATCCTCTATAGTTTTTAATAGTTTTAAATAACATGCAAAGATCCTGTGAAATGGCCAACAAGCACATCAA
CATCACTGGTCATTTCAGAAATGCGAATCAAAACCACAATGAGATACTACTTCATACCCATTAAGATGACTTTAAGAAAAAGAATAGGAATGCT
CACAGATGGCTGGTAGGAATGTCAAAATGTGCAGCCACTGTGCAAAACAGAGTCTGTTTTGGCAGTTCCTCAAAAAGCTAAACATAAATTTGTC
CTATAACCCAGCAATTGTATTCCTAGGTACACACCCAAGAAAGACAAAAACGTGTCTAAATACAAACTTGTACACGACTCTTTATAACAGCATT
ATTCATACTCACCAAGAGGTAGAAACACCCAAATACCCAACAACAAAGGGATGGATAAAGGCCGGGCATGGTGGCTCATGCCTGTAATCCCAGC
ACTTTGGGATGCCAAGGTGGGCAGATCATTTGAGGCCAGGAGTTGGAGACCAGCCTGGCCAACATGGTGAAACCTCATCTCCACTGTCTCTACT
AAAAATACAAAAAATTAGCTGGTCATAGTGGCGCGCATCTATAATCCCAGCTGCGTGGGAGGCTGAGGCACGAGAATCCCTTGAACCTGGGAGG
CAGAGGTTGCAGTGAGCCAAGATGGTGCCACTGCACTCCAGCCTGGGCGACAGAGGGACTCTTCTCTCCAAAAAAAAAAAAAAAAAGAATTGA
TAAGCAAATCATGGCATATCCCTGCCAGTGGAGTATTAGCCACAGGAAGGGATGAAGTATTGATCCATGCTGCCATTTAGATGAACCTCAAAAA
CATTATGCTGAGTGAAGGAAGCCAGACACAAAAGATCACTACTGTATGACTCATTTAACATGAAATATCTAGAATAGGCAATTCCATGGAGACA
GAAAGCAGATAAGTGTTTGCCAGGGGATTTTTCTGGGGTGGTAAAAAAGTTTTGAAACTAGAGGGAGGAGGTAGTTGCACAACATGTTGAATAC
ACGAACAGCCACTGGATTGTATACTTTATCATGGTTAATTGTGTGTTATGTGAATTTCGCCTCAACTTTTTAAAAAGGAGATCCTGAGGCCAAA
ATATTTAAATATTGCTTATCTTATTCTTGATGCTCAAAGAAGGGTCATCAGCCCAGAAGGATCCTCCTGAAGTCTTTATGGTGACTTTAGTATT
CTACTAAGTGAGTTATCAGGGGACCCTGAATTTTTGTTTTCAAAAACCAAAATTAGCATATTACTAAAGTTTATGGAAGACTCCACTTTGGTAT
TCTATCGAGAACGTAAAATTTGCATAGCTCCCAGGAAGGCTGCTGTTCCTGATGCATCACCAGAACTATCGTGAGTTGGTTTCAGTTTTTACTC
GCTGGTATTCCTTCAGCTAAATGATGAATTCCTGCCAGTGATTTTCATGGAGGGGTTGTGTTGGCTGGCTCCCAACGTGCATAATCAATTAATT
TGCTGTGGGTTGAAAATCTGAACAAACTGAAAGTCAATAACTCTTCTTAGGTCTGTAGAAGTAAGTAAGATTACAGGGTAGCTCACTGTCCCCA
ATATTGGAGAGGCAGACAGGCTGATACAGGGAAATCATAACCTCCTGGACCAGAAACCCAGGAACAAACCCTGCTACTGGAACCAGCAGAGGGG
CAGGAAAACCTAAACTGGAACTGACAAATTGCTGGAGGCTCAGTGTGGACACTTCTGAGAGATAAAAATTTCAGGGGAGCAACCCAGTCACAGG
GGGTCCCCACTTTCATGACCTTTCCCTCCAGGAACTCAATGAGGTCTTCACAGTGAAGATGGGAGAAAAACTTCCTTGTGCTTTTGACGGGGGA
AAGAGAAAAGGTACTGTCACACGCATCCGTGTGAAGAGAGTCCACCAACAGGCTTTGTGTGAGCAACAAGGCTGTTTATTTCACCTAGGTGCGG
GCGGGCTGAGTCCGAAAAAGGATTCAGCAAAGGGTGGTGGGATTATCATTAGTTCTTATAGATTTGGGATAGGCATACAAAGTACATTCACAAG
GGTGGGGAGAATATTACAAAGTACCTTCTTAAGGTCAGGGGAGAACATATCGTATCAGTTAGGGTGGGGCAGGAACAAATCACAATGGTGGAAT
GTCATCAGTTAAGGCTATTTTCACTTCTTTTGTGGATCTTCAGTTGCTTCAGGCCATCTGGATGTATACGTGCAGGTCACAGGGGATATGATGG
CTTAACTTGGGCTCAGAGGCCTGACAGGTACCATTCTGAAATATGCCAGAGCATTCAGTACTTGTCCAACAAGGCCTGCCCTCAAGAAACAGTA
TTTTCCTCACTATCTTAAATTTTACCATAGTCTAACCAACCTAAATTTTACCAGTGTCTAACCAACCTGAAAGAAGGGAAATAACCAGCTCTAG
CCTCTCTGCCCTTCTTGTCTCATCTAAGGGAGGAGGCGAATGAAAAGCACTTGTGAAGGTCACAGCCCAGGGGTACAGGCTTGCTGAAGGCTGA
ACCTAATCATAAGACTATGGAATGGTTCCCCTCCCCCTGCACCTTACCACCACATCAGTGGGGCTGTTGTGCGCTCACAGGGGACTACAGTGGA
AACAACTGCACATTTCAGTCCCTCTTTAAGAAGCAGTCTCTAGGGAAGCCCAAAGATGAGAGGGGAGACAAAAACAAAGACACTAGAGGGAATT
TTAGCCTCTGACATCTACAGCTACAGCAAATAGCAAACACAGCCTAACTCCTAACCAGATAAACATAAAGGCTCACACTAAAGGCCTATTTACC
TTGGTTCCTTTTATGCTGTATATCAGGTCCAGCTTTCAACAAAAAATTACAAGGCATGCTAAATGGCAAAAAAACACAGATTAAAGAGGCAAAG
CAAGCATTGTAACCAGACTCGGATACTACCATGTTGGAATTATCAGACTGGGAATTTAAAACAACTACACAAATAAGCCATTATGACAGAGATT
TCTATGGTCCTGTAGATCCATTCTTCCCTTCCACCATCAGTAATAAAATCCCCAAATTTTAACCCAACACATTTCTGCCCCTAGCTAAAGACAA
CACTTTCTAGCCTCCCTTGCAGCTAAGTGTGGTCATGTGACTAAATTTGGATGAGATGTAAACCAAAAAGTATCTGAGACAGGTCTAAATCCAT
TCAGAGGTTTATATTGCCAAGATTAAAGACCATGACCTGTGATACAGCATCAGGAGTTCCTGAGAACATGTGACCAAGGTGGTTGAGTTACAGC
TGGGTTTGATATTAATGCATTTTAAGGAGACAGAAATTATAGGCGAAGACATAAAGCAATACATGTAAGGTATACATTGGTTCAGCCTAGAGAG
GTGGGACATGTCAAAGTGGGAGGCTTCCAGGTCATAGTTGATTCAAAAGTTTTCCGATTGGCAATTGGTTGAAAGAGTTAAGCTATGCCTGAGG
AGTTGAAGTCAGTAAAAAGAAATGCTTGAGTTAAGATAAGGGGAGTGGGGTTGTGGAAGACACTGTCCTTGTCATGTACACGAAGCTTCCAGAT
AGCAGGCTTCAGAGAGAATAGAGAGCACATATATCTTATTGGAACTTAACAGACGTCAGACTCTCTGGAAAAGACCCATTAAGAGAAGGGAGAT
TCCTCCAGTATGAAAATTAAGAGACAGCTTTGCAGGGCCACTTCAAAATATGTCAAAAAATATTTTGGGGTAAAATAATTTTATTTCCTTCTTG
GCCTGTTATATGTCATGTGATGCTATACCAGAATCAAGCTGGGATTGGGTATCTTGTTGCTAAAGCATCTGTTTCTTAGGTCTTATGATCTCTA
TTTTAATGTAATCCTGGTCAGTTGATGCCTGAATTCCAAAGGAAGGGATTACAATGAGGCGTGTCAACCCCCCCACTTCTTGTCATGACCTGAA
CTAGTTTTTCAGTTTCTTGGGGATGCCCTTGGCCAAAAAGGGCTCATTTAGTCAGTTGGGGGCTTAGAATTTTATGTTTGGTTTACAGAGATA
TGAGCAGAAGGGACGTGTGTGACGCCCAGGGTGTGCCCTTGAAGAGAATGTGCACACCCTCCTTCATCTCCTCTCACTGGTGGCTGCGTGCTCT
TGCTCTCGTGAGCTAGAACCACCGGGAGGATAGAAGCCACACATGAAGCCTGAGAGGGAAAAAAAAATCCAAGGAGGCTGGGAGTCTGACCCCA
TGAGGTGCCCCAGCAGCAGTGCACACACTCGGACTGCATATGAGACAGAAATAACCCTCCCATTTGCTGCGATTTTTGCCCTTGTTAGGGCAGC
ATCCTAACTGTATCAATCACCCACACTCCTACTAAAATGACACCCTCGGCTATCGTTTGGATATGGTTTTGTTACCACAAAGGGGTCCTGCTCC
AGACCACAAGAGAGGGTTCTTGGATCTCATGCAAAAAAGAATTCAGGACGAGTCTGTAAAGTAAAGTGAAACAAGTTTATTAGGAAAGTAAAGG
GATAAAAGAATGGCTACTCCATAGACAGAGCAGTTCCGAGGGCTGCTGGTTACCTATTTTTATGGTTATTCCTTGATGATACGCTAAACAAGGG
GTGGATTATTCATGCCTCCCCTTTTGAGACCATATAGGGTAACTTCCCGATGTTGCCATGGCATTTGTAAACTGTCATGGCAGCGGTGGGAGTG
TAGCAGTGAGGACAACCAGAGGTCACTCTTGTCTCTATTTTGGTTTTGGTGGGTTTTAGCCGGCTTCTTTACTGCAACCTGTTTTATCAGCAAG
GTCTTTATGACCTGTATCTTGTGCCAAACTCCTGTCTCATCTTGTGACTTAGAATGCCTTAACCATGTGGGAATGCAGCCCAGTAGGTCTCAGC
CTTAGTCTATCCAGCCCCTATTCAAGATGGAGTTGCTCTGGTTCAAACACCTCTAACAGTTGTTTATCCCAAGCAAATCTCATGTTGGACTGTG
ATTCCCAGTGTTGGAGGTAGACCTAATAAGAGGTGTTTGTGTCATGAGGGTGGATCCTTCATGAATAGATGATTGCCCTCCCTGGGTGAGGGGG
GTGAGTGAGTGCTCATTCTATTCATTCCCGTGAGAGCTGGTTGTTAAAAAGAGCCTGGCATCTCCCCCCACCCTTTCTTCCTCTCTCACCATGT
GACCTCTGCACACAACAGCCCCCCTTCACCTCCCACCAGGAGCAGAAGCAGCCTAAGACCTTTCCCAGTGTAGATGCCCAATCTTGAACTTTCC
AGACACCAGAACTGTGAGGCAAATAAAACTTTTTCTTTATAAATGATTCAGTCTCCAGCGGGGCATGGTGGCGCACACCTGTAATCCCAGCTAC
TCGGAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGTTGGAGGTTGCAGTGAGCAGAGATCGCGCCACTGCACTCCATCCTGGCCACAGAGC
GAGACTCTGTCAAAAAAAAAAAAAAAAGAGAGAGAGAGAGGGAGAGAGAGAGAAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAA
GGAAGGAAAAAGCAAAGAAAGAAAGAAAGGAAAGAAAGCAAAGAAAGAAACAAAGAAAGAAAAAGAAAGAAAGAAAGAAAA
GGAAGGAAGGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGACCAGTCTCAGGTATTCTCAGGTTACAGC
AACACAAAACAGACTAAGACACCCTCTCCACCAAAATTCTGTTTGTATAGCATATTAGTATCAAAATCTTTTCAATGGAAAATGGACTCCAGAA
TCAATATTCAACATGACAGCAGAGTTTCAAGTAAATACATGTTTTCTGTTCCATAAATATTATCTGAAAAAGATTTCCCTACAGGAGATAAACA
AGTAGATAAGATAAAATAACATTGGTTCTCTTTATTAATTTGAATACTCCCCTACTTTTCTTCAGAAAATCACTGCATTCATTCTCCAACACCC

CTGAAGCCTTTCTGAAATGTTGGCTCACATGGAGATGTTCCTTTTGCCTGATGTCTTCTGGCTAAGTCAGAAACTGCAAAGGGAAACCTGCTGA
AGTTTTAAAAACTTTTCCCTGTTATTTCCGTTTCTCCTCTTAAAGAGTGCAGTGCGAAACACGTGTCCTCTTCTTCTACGATGTTGATGAACAT
ACCTTCAGAGCTAGCCTATTGATATGAAGGTAAGGATGAAAAGAAATCTGTTATCTCAGGGCAGTAGGATTATCAAGCACCATATCAGCAAATG
CATCACTCGAAACTAAATTGTAAATATAGCCATGCACCGCATAACAATGTTTTCATCAACAACAGACTGCATATACACGACAGTGGTTCCATAA
GATTATAATACCATATTTTTACCATACCTTTTCCATGTTTAGACACACAAATACGGCCAGGCGCAGTGGTTCACATCTGCAATCCCAGCACTTT
GGGAGGCCAAGGCGGGTGGATCATCTGCGGTCAGAAGTTCCACACCAGCCTGACCAACATGGTGAAACCCCGACTCTACTAAAAATACAAAGTT
AGCCAGGTGTGGTGGCGCATGCTTGTAATCCCATCTACTTGAGAGGCTGAGGCAGGAGAATCGCTCGAACCTGGGAAGCGGAGGTTGCAGTGAG
CCAAGATTACACCGTTGCACTCCAGCCTGGGCAACAGAGTGAGACTCTCTCTCAAACAAACAAACAAACAAACAAAAAGATACACAAATATATA
CCTTAGTATCACAATTGCCTGCAGTATTCAGTATAGTAACCTGCTTTACAGGTTTGTAGCTAGGGACGACAGGCTATAGCAGCCCCAGAGTGCA
GTAGGCTCTACCATCTAGGTTTGTGTAAGTTCACTCTGCGACGTTTGCACAAAAACAAAATCACCTAACAATGCATTTCTCAGAAAGTATCCCC
ATCATTAAGTGACTCGTGACTGTAATAGAAAATGAAAACCCACTGTCTCTCATAACTGTGTACCCTCCAGTGGTGCTTCCTGCATGGCTCAGCA
ACCTTATCAAGAACCTGGTTATGGGTATTTTTTCTTCTCTCTTTTCTGTCTCCAATGATGTCAAATTTATTCAAAGACCAGCTTAGCCTCGTGA
TAGCCAACAGGTTGTAGCTATTCCAGAATTAATATCAGATTATCACATCTAGAAATAAGAAAAGACATAAGGTTCCCTCGTTGGAGCTTCCAGC
AAATGTCTTCTCCAGTCTTGTTGACTCAAACTAGGTCTCATATCTACTCCTGCACTGTGACCAGAAGATGTGAGATGATTCTGATTTCGTAAGG
CCCAAGCCACAGACCTCACTCCTAGAACCAGTAATAAAGAGAAGATCTTAAAAGCAGCCAGAGAAAAACGAACCTTTGCAGAGAAATATAAATA
AGGACGACAGCCAGACCCGATGGCTCATGCCTATAATCCCAGCACTTTGGGAGGTCGAGGCAGGTGGATCACTCGAGGTCAGGAGTTGAGACTA
GCCTGGCCAACATGGTGAAATCTTGTCTTTACTAAAAAATACAAAAATTAGCCAGGCATGGTGGCACATCCCTGTAATCCCAACTACTCAGCAGA
CTGAGGCAGGAGAATCACTTGAACCCAAGAGGTGGAGGTTGCAGTGAGCCAAGATCGCACCACTGCACTCCAGCCTGGGTGGCAGAGTGAGATT
CTGTCTCAAAATAAATAAATAAATGCAGATTTCTCTCTGGTAACAGTATAAGTGGAGCAATATCTTTAAACTACTGAAAGAAAAAACTGTCAAC
CTAAAGTTCTATATGCAGGGAAAATAGCCTTCAAAAATGAAGATGAAATAAGTATTTTTAGACATATAAAAGTTGAAAGACTTCATAACCAGCA
*GGCT*TACATGCCAATAAATATTAAAGGACTCGGCTAAAATTTCACTGGGTTGAATAATGTCTCCCCAGAATTCATGCCTACTTGGAACCGACAA
ATGTGGCCTTGTTTGAAAATAGAATCTTTGGAAATGTAACAAGTTAAGATGAAGTCATACCAGATTAGGGTGGACCTTAAACCCAATATGACTG
GTGTTCTCATAAGAAGAGGGAAATCTGGACGCAGACCCACACAGAGGGAAGACAGCCAGGTGAAGACAGAGTCAGAGATTGGAGGATTTTTTTT
TTTTTTGAGACAGAGTCTCACTCTGTCACTTAGGCTGGAGTACGGTGGCACCATCTCTGCTCACTGCAGCCTCTGCCTCCCGGGCTGAAGAGAT
TCTCATGCCTCAGCCGCCCAAGTTGCTGAGATTAGACGTGTATGCCACGACACCTGGCTAATTTTTGTATTTTTTTGAGTAGAGACCGGGTTTT
GCCATATTTCTCAGGCTGGTTTCAGACTCCCGGTCTCAAGTAATCCACTTGCCTTGGCCTCCCAAAGTGCTGGGTTAGAGAAGTGAGCCACTGC
GCCCCGCTGGAGAGGTTGGAGCTTGATGCCACGAGCTGAGGAACACCAAGGATTGTCAGCAATAATCAGGTTATACACTGTTTGACTCCATTTA
TATAAATTTCTAGAAAATCCCAACTGCCCTATAGTGACAGAAAGCAGATCAAACACTGTCAGGGGAAGATGACAAAGGAACATTATCTTGATTG
TGGTTTTAGGGGTGTGTACTCATGCCAAAACTTACCAAACTGTGTACTTCGAATATGTGCAGTTTTTCAATGTTCACTAAACCCCCAATAAAAC
TCTTTCTCAAAAAATTACCTGTTTGAAATTCCT

HUMAN SEQUENCE - mRNA

GAGAGACTGGATGGACCCACAAGGGTGACAGCCCAGGCGGACCGATCTTCCCATCCCACATCCTCCGGCGCGATGCCAAAAAGAGGCTGACGGC
AACTGGGCCTTCTGCAGAGAAAGACCTCCGCTTCACTGCCCCGGCTGGTCCCAAGGGTCAGGAAGATGGATTCATACCTGCTGATGTGGGGACT
*GCTCACGTTCATCATGGTGCCTGGCTGCCAGGC*AGAGCTCTGTGACGATGACCCGCCAGAGATCCCACACGCCACATTCAAAGCCATGGCCTAC
AAGGAAGGAACCATGTTGAACTGTGAATGCAAGAGAGGTTTCCGCAGAATAAAAAGCGGGTCACTCTATATGCTCTGTACAGGAAACTCTAGCC
ACTCGTCCTGGGACAACCAATGTCAATGCACAAGCTCTGCCACTCGGAACACAACGAAACAAGTGACACCTCAACCTGAAGAACAGAAAGAAAG
GAAAACCACAGAAATGCAAAGTCCAATGCAGCCAGTGGACCAAGCGAGCCTTCCAGGTCACTGCAGGGAACCTCCACCATGGGAAAATGAAGCC
ACAGAGAGAATTTATCATTTCGTGGTGGGGCAGATGGTTTATTATCAGTGCGTCCAGGGATACAGGGCTCTACACAGAGGTCCTGCTGAGAGCG
TCTGCAAAATGACCCACGGGAAGACAAGGTGGACCCAGCCCCAGCTCATATGCACAGGTGAAATGGAGACCAGTCAGTTTCCAGGTGAAGAGAA
GCCTCAGGCAAGCCCCGAAGGCCGTCCTGAGAGTGAGACTTCCTGCCTCGTCACAACAACAGATTTTCAAATACAGACAGAAATGGCTGCAACC
ATGGAGACGTCCATATTTACAACAGAGTACCAGGTAGCAGTGGCCGGCTGTGTTTTCCTGCTGATCAGCGTCCTCCTCCTGAGTGGGCTCACCT
GGCAGCGGAGACAGAGGAAGAGTAGAAGAACAATCTAGAAAACCAAAAGAACAAGAATTTCTTGGTAAGAAGCCGGGAACAGACAACAGAAGTC
ATGAAGCCCAAGTGAAATCAAAGGTGCTAAATGGTCGCCCAGGAGACATCCGTTGTGCTTGCCTGCGTTTTGGAAGCTCTGAAGTCACATCACA
GGACACGGGGCAGTGGCAACCTTGTCTCTATGCCAGCTCAGTCCCATCAGAGAGCGAGCGCTACCCACTTCTAAATAGCAATTTCGCCGTTGAA
GAGGAAGGGCAAAACCACTAGAACTCTCCATCTTATTTTCATGTATATGTGTTCATTAAAGCATGAATGGTATGGAACTCTCTCCACCCTATAT
*GTAGTATAAAGAAAAGTAGGTTTACATTCATCTCATTCCAACTTCCCAGTTCAGGAGTCCCAAGGAAAGCCCCAGCACTAACGTAAATACACAA
CACACACACTCTACCCTATACAACTGGACATTGTCTGCGTGGTTCCTTTCTCAGCCGCTTCTGACTGCTGATTCTCCCGTTCACGTTGCCTAAT
AAACATCCTTCAAGAACTCTGGGCTGCTACCCAGAAATCATTTTACCCTTGGCTCAATCCTCTAAGCTAACCCCCTTCTACTGAGCCTTCAGTC
TTGAATTTCTAAAAAACAGAGGCCATGGCAGAATAATCTTTGGGTAACTTCAAAACGGGGCAGCCAAACCCATGAGGCAATGTCAGGAACAGAA
GGATGAATGAGGTCCCAGGCAGAGAATCATACTTAGCAAAGTTTTACCTGTGCGTTACTAATTGGCCTCTTTAAGAGTTAGTTTCTTTGGGATT
GCTATGAATGATACCCTGAATTTGGCCTGCACTAATTTGATGTTTACAGGTGGACACACAAGGTGCAAATCAATGCGTACGTTTCCTGAGAAGT
GTCTAAAAACACCAAAAAGGGATCCGTACATTCAATGTTTATGCAAGGAAGGAAAGAAAGAAGGAAGTGAAGAGGGAGAAGGGATGGAGGTCAC
ACTGGTAGAACGTAACCACG*GAAAAGAGCGCATCAGGCCTGGCACGGTGGCTCAGGCCTATAACCCCAGCTCCCTAGGAGACCAAGGCGGGAGC*
ATCTCTTGAGGCCAGGAGTTTGAGACCAGCCTGGGCAGCATAGCAAGACACATCCCTACAAAAAATTAGAAATTGGCTGGATGTGGTGGCATAC
GCCTGTAGTCCTAGCCACTCAGGAGGCTGAGGCAGGAGGATTGCTTGAGCCCAGGAGTTCGAGGCTGCAGTCAGTCATGATGGCACCACTGCAC
TCCAGCCTGGGCAACAGAGCAAGATCCTGTCTTTAAGGAAAAAAAGACAAGG

HUMAN SEQUENCE - CODING

ATGGATTCATACCTGCTGATGTGGGGACTGCTCACGTTCATCATGGTGCCTGGCTGCCAGGCAGAGCTCTGTGACGATGACCCGCCAGAGATCC
CACACGCCACATTCAAAGCCATGGCCTACAAGGAAGGAACCATGTTGAACTGTGAATGCAAGAGAGGTTTCCGCAGAATAAAAAGCGGGTCACT
CTATATGCTCTGTACAGGAAACTCTAGCCACTCGTCCTGGGACAACCAATGTCAATGCACAAGCTCTGCCACTCGGAACACAACGAAACAAGTG
ACACCTCAACCTGAAGAACAGAAAGAAAGGAAAACCACAGAAATGCAAAGTCCAATGCAGCCAGTGGACCAAGCGAGCCTTCCAGGTCACTGCA
GGGAACCTCCACCATGGGAAAATGAAGCCACAGAGAGAATTTATCATTTCGTGGTGGGGCAGATGGTTTATTATCAGTGCGTCCAGGGATACAG
GGCTCTACACAGAGGTCCTGCTGAGAGCGTCTGCAAAATGACCCACGGGAAGACAAGGTGGACCCAGCCCCAGCTCATATGCACAGGTGAAATG
GAGACCAGTCAGTTTCCAGGTGAAGAGAAGCCTCAGGCAAGCCCCGAAGGCCGTCCTGAGAGTGAGACTTCCTGTCACAACAACAGATT
TTCAAATACAGACAGAAATGGCTGCAACCATGGAGACGTCCATATTTACAACAGAGTACCAGGTAGCAGTGGCCGGCTGTGTTTTCCTGCTGAT
CAGCGTCCTCCTCCTGAGTGGGCTCACCTGGCAGCGGAGACAGAGGAAGAGTAGAAGAACAATCTAG

TABLE 20

MOUSE NOMENCLATURE
ICSGNM Nfkb1
Celera mCG22374

HUMAN NOMENCLATURE
HGNC NFKB1
Celera hCG39336

MOUSE SEQUENCE - GENOMIC
TCTTCTGAATATCATGTTTAGATTATGTAAGTATTCACCGGCTTTCTGTCACTATAAACCAATACCTGAGTTGATTAATGAATAAAGAAAAAAA
GGTTTAGTTGATGAGTTTTGAAGGTTCCAGTCTACCAGTCTGTTACTGCAGACGTCCACCGTGATAGTATGTCATGGCCAGAGCACCTGGCAAA
GCATAAACTACCTGCTCGTCAATCAGGAAGCAAATAGAAAAGAGAACTGGTTGCGGTCCCACAACATCCTTCCAGGTCATGTCTTAGTAGAGCA
CTTCTCCCAGGAGAAGCACCCTGTTGGCCTTGCCGTCAACACATGAACAGCTTGGGGACTCCTACTGAGGTAACAGTACCCATTCTGCATACAT
TCCCTGAGATTAACTGAGACTTGATTCATGGCCCGCTGTTTTGTCTGCCTTTGTGAGTGTTCTGCTTGCAGCCCTACTAAACACAGATGGCCAA
TGTGGTATTCAGAGTAGTGGGCCTTTAAGAGGTTATGAGGTCATAGCACATACCCTGCCCCTGCCATGAATAGGATTTTAAAGGGGGCTGATGA
AGGAGGGTTGTCCCCTCTGACTCTTCCACCTTTACTGTGTGACAATAGAGTGATTGTTTCCTCGTGACATTCCTCATTTGCGTGCTTTGACCTT
GCACTTCTTGCCTCCAGAGTGATAAAAAATAAACTTATGTTTTTTATAAACTACCCAGACTCAAGTACTGTTTAACAGTACAGACATATGAAGA
CAGTTGGTCGTGTTTGTAGTCAGCACCGAAAGAGGAAAGTTGAAAACTTCCACTCTACTTGTGGATTTCTGTCTCTTCCACAAATGTTTAGGTC
TACTACTTTGTACTTCATGTATTTTGGAGACCTATTAATAAGTGCATGCAGGTGGAGGTCATTATTTTTATAAGGGCTCAGTAGTGCATACATA
TAAGGTTCCAACACTCAGCATCTAGAGGCAGGAGGGTTGCTGGGAGTTTGAGCCCAGCCAGAGCTATCTATAGAGACCCTGTCATAAAACAACA
AAATTATTACTGCCCATTGATGACCTGGCCCCTTTATTCTTATATATATATCCTTCTTTGCCCTTAGTAATATTCCACCCCCTGATCTTCTCTA
TTGGTGGTTATGATATAAACTACTTTGCTGTGTTTAGTATTTGTATTATTAGCACAGTATCCCAGGCTTCTGCTTTTAAACACTTTGCGTCTTT
CATGTTAAAAATAATTCATAGGAAAAGCATTTTCTTGCGTCTTGCTTTTTCTGTACTGTTTACCATGAATGCTTTTTATAGCTGAGTTTATTTT
ATTTGCATTTAATATTGGACCTCTTCTTTATCCACATTTTGTCTTTCATTGTCATCTTTTAAATGAAATAAACGTAGCACTTGAAGAGTTCCAT
TTTATCTCCCGTCTGGTAGTTCTGTAAAACGGTGGCTTTCTGTAGTAGGACTTTCTGCATCCTGCGTCTATAGCGAGTGAAGCGCTATGTACCT
AATGTGGAAGCTTTGATTTGTTCTCACCTCTCTGCTAGTGCTGGTAGACTTTTTTCCCTCCATGGGTTCAGAATACTCCATAATATATTGTGTT
GTTCAATGTGTTTGTTGTACAGTAAGTTTGAACATACTGCAAAGCGAAAGCCCCATGTGCCCACACCTTTTATCACCAGTAGTGTTTTCCTTGTT
TCTTAAAGGTCCAATTCTATCTCATTTCCCTTCACCACAAAGATCTGCTTTTAGGATGTCTTCTGTCACTTCTACGCGTTATGAATTCTCTCAG
CTCTGCTTTATTAGAAAGTGTCAGTTTACCTTTATTGTCAAACCATTCTGGGACAAAGCTACCTGCTTCTTTGTGGCTTCAATGTTTTTGTTGT
TCATTATAGATATCATGATGTGAAGAGTTTGCATGTTTTTCTTTTATTCAGAGTTGAGTTTTGTCCTAGTAGGCCTTACTAAGATGCATTTAAA
GTCGCCCTTATTTTATGATGTGTTCTTGACTCTTATAACACGGTTTTCCCCTAGACTGCTATAAGCACACATGTTCAGAACGTTTACTGATGTC
TCTTCAGCCCACGTGATTGCACCCTCAGTGTCTCTCAGCTCTGTATGGCGTCTGTAATCTTATCAGAGCATTTATAGAACAACAGTGGCTTTCA
CTGAGCTTTTTGGGATCTCTGTTAGGATTTCATCAGAGTAAAGGTGGGCTGATTATAGATTTTTGAGGCTTTGCACATATACCATTTCTCTGAC
CAATGAGATCACTGCTCTTTATTTGAACTCTGCTTCCTGTGGCCTGGATTAGAAAGTGCCCTCAGTCAGAAGGTGAGCTTGGAGTTCACTTAAA
CTGTGCAGCCTGTATCTCTTGTTTAGTGTCTCAGGCTATTGTGTTTCATAATTACATATGAATTTGGCAAGATCAAATAGTGGTTGATTTATAA
TGACTGAAATTAGATTTGTGTGGATTTTTAAAGATTTTTTTTTTCAAGACAGGGTTTCTCTGTGTAGCCCTGGCTGTCCTGGAACCCACTCTGT
AGACCAGGCTGATCTTGAACTCAGATCTACCTGCCTCTGCCTCTGGAGTGCTAGGATTAAAGGCATGCTCCACCACTGCCCAGCTGTAGCATGC
TATTAATGATTTTGAAAGACATTATTCCAGGGCATTTATATATTCAATATGTTGGCTAGCTATTCTCTACAGCTTTGTTTTGAAACTTTC
TCATCATCCCAGAAGAGTGCCTTGAATGTGGTAAATGATGGCTCCCTTCCCAGTCTTCACTCACTCCCCTGGCCTCTGGCAAGCAATGATGTGT
TCCTCTTCCTACGAATGTGCTTGTTCTTGGTATTCAATGTGAAGGGAATTGAGTATAGGTGAGCGACCCTTTCTGTCTGGTTTCAGTATAAATC
ATTTAGTCTACTGGTTTTGAAATACAAAATCAAAACTCCCATTGCTGGCTGTAAGGCACACCATTTAAGGAGACTGTAAATATATAATGTATGA
TTAAGTTGCATAGAAACAGTGAACCATAGTGCAAAACCACCAGGAAATGTTATAGACCTTATGGACTGAGGCGATAACAGTGGAAGAGAAAATA
CAGGTTTTATGGAAGAAGTTGATTTTGAAGTACCATGTTGTGGAATACATAATATCTAAACAGGATAGAATCTCGAGTGTGAAGAGATGTACAC
ACTGGAAAGAAATGACATAGAGCTGTTACATGTGTGTGTGTACACATGCGTGTGTGCGTGTATGCAGTGAGCATTCACATGTGTAGAGGTCAAA
GGACAATTTTGGAAGCTGGTTCTTTCCTTCGAGCATGTAAGTTCCAAGTAAGGACTTAGGTCCTTGGGCTTAGCAGCAAGTGTTTTTACCTGCA
GAGCCCTCTTGTTGGCCAAGCAATGCATCTTTAAATGATTGATTTCCCTATAGTAAAGTGCTTGTGTTGGATCATGGTGATAGTTGTGGTGCTT
ATATAATATATAATATAATATAATCATATGCTGAGTAGTTGCTCTTTGGACTTCACTATGTAAAGCACCTGGCTGTGATCTGAAAGATATTTAA
TCAGGAAGATACCCTGCCATGGGGGTGAGCGGTAGAAAAGCTGTTTCTGTCAGAGTGAGGTAATAAGGTCTGCCCTAGGGTGTGGCTATGGACA
TAGAAAGGAAGTGCACACACAAGAAACAGTGTGAGGAAAGAAGTGAGCGACAACAAGACTGTTCACTGCATTGGTTGGAGAAGGCTACATTTGC
AAGAATGAGACAGTCAGGAGTCGGGCTTGTTGTCGAGTAGTAAACTGTAGACATTAGGGTTGATGGGTTTAATGTATCATTAACTTGTTTTCTA
ATGGCATCGTTACCTAAAGCTAACAGGGGCTCATTACCAAATACACCTTCAGAGCCTTAACAGTTCTAATCATGTACTGATGTCACGGGGGTTG
GGCTCGTATCTTGGATAGCTTGGGTTTTTTGTTTTGTTTTGTTTCTTTTTGCTCTTTCCTTTTTTTAAAAAAAATTATTTATTTTTTGTTCAAT
TGAGAACTCAGTAGCCGATGGAGAAAAGCCAGTGCAAAGTCCAGACCGTGACTAAGAGTGTAATTAAAGCTGTGATACTGAATTGCCAGGGTAA
TTAACCCATGCTCCACACGCCCTCTGTTCCCATGACACTGACCAAGCTGTATCGTGTAGGCTGCTGTCTTTCCATTTACTAACCGTTCTGATTG
GCTAGCCTTTGCTGCGGCGAGATAAATCATGAAGAAGCACATAGAAACACAGATATGCCTCATTTCTTGCGACCTGTGACTGTGTGTGGTGATT
TGTCTGGCTGCTCTGTGGAGGTCCTCAGCTGCTCTGCCACCGAGGGCTCAGCCTGGGAAGTCTTGGCTGAGCTCTGCTGCGTTTCCACTCCACA
CGTGGGTTCTCATCCTCCACTGGGCTGGCCAGGCCTTTCCCTTCCAGGAAAGAAAATCCAGTCATTGAACGGCTTCTTGAAAGCCATGTTCATG
ACTCATGTCTGCATCCTCCTGTTGGTCAGGGCCTGCCAAGGGCCTGACAACATTCAAGGGGCAGAGATGTCAATTTTATTGTCCCTGTGTTGTG
AGGGATAGAAAAGGGCAGTGGCCATTGTTTTGAGCCTACTACAGCTATAAGCCCTGAGTTCAGACTATGCCACTCTTGTGTAGTTTTGTTTCTT
TGGAAACTGACAGGGTAGGCAAACCTCTTTCTGATGGGTTGATGAAGGGCCAAAAACATCCAGGTAACATTTCAAACATGGTTTCCCTGTGATA
CAGACCATGGCATACACAAGTATCACAAATCTGTTCCTACAGCACTGTGGATGACACACACACACACTCTCTCTCTTTCTCTCTCTCTCT
CTCTCTCTCTCTCTCTCACACACACACACACACACATGTTTTAATTTTTAGTTTAGCTAACTGTGGCTTTTGTGAGATATTCTCTCTCTCTCTC
TCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTTTCTCTCTCTCTTTCTCTCTCTCCCTTCACGTTTGGATTGCCTTGTA
AGTAGCTCATCTGAAATTCATGCACTGTAAGGTCCTATTCTGTTCTCTGGGTTACTCTGTAGAAGAGTTCTATGGGCTCACCAGGTACTAGATG
TAGGAACAGAAAGCACACTCGGGAGAAGGCATGTTGCAGAAACGAGAGAAACATGCTGAGACTCCTAATGTGCATCTCCCCAGTGGAGACAACA
CAATTTGACTGGACAGTGTGTGCATGAAGGCTAAAGAGCGCTCAGGGAATATAGAGGGAGCCTCTTCCCGCTCCAGTCACCGTGACAGCATGCT
ACTTCGTGTGTTGGCATGCACAAAATTGGCAGAACGCCTCAAGTGTGGAGAATTCACCATTATAACAAGATTATAGTAAGCAAAAAATCACTCC
ACATCACGTAGAAGAGGGAGTTGGCAAAGGCGGCTGGTTTAAAGCAGCTCTTTGCAATCTTCTCTAGAGGGTCTTATCTGAAAGCAAACAAAAA
ACAACAGGAACAGCTTGAATGTTAGCAGTTATCCTGGCAGGCAGCACTCCAACCCAGCCCACCCAGCCCCCAGCACAGGTGTGTAACCC
TTTAGTAGCCTACTTAATATGGCTGAAGAGATAGATGGCTTAACTAGTAAGAGTGCTTACTGCTCTTGCAGAGGACTCAGGCTGGTTCCTAACT

CCCACATGATGACTGACAACCTCCTGTCACGCTGGTTCCAGGGGATCTGGCACTCCCCTCCTTGCCTCTGCCAGTACCCTTACATTTGTGGTGC
ACAGTCATGCTTGCAGGCAAAACACTCAAGCCACATAAAATAAAAATTAATAAAACCTTGAAAAAAAGATCCTAGCTAGCAGTTAATATCATGA
GTAGACTAGCTCCAGCCAGAACTTTTGAGAGGCTTGAAGCAAAGATGTTTTTAAATGAATAATACTTCTGTCAAGAGGAAAATCACATCACCCA
TTACGCTAGTACAAGGGCCATAAGCTGTGCAGTTAGAGAGGCCAGCTCTAGTCTGTCAGCCTGAGCAAATGACTCATTCTCTCTGAAGCTTGGC
TCTTCAGGTGGACTCTACTTTCTGGGCTCAGCATAGCAAGAGGGCAGCATACGTAAGCATTACCTCCGGTTCCTTAGTTATGTGGAAGCAGTCT
GTCAAGCTTAGCTTTCCCCATACAAAGGAGAGCACTTGTCCTGAGGCCAGAGCACTCACTGGCTTCTCCTCCTCAGCGTAACTGGCACCAGGGA
TTAGGTAAATTGTCCCTGGGTTAATCCTGAGCCTTCCAGGATCTTTGGATCACTTCTAGAAGATGGTAGGACCAGCCATCCAGTCCTGTGAGCC
CAGAATACTTCAGAGAATAACTTCTAAACTCCCCCTCAGGGAAAAATACAAGTTATAGGGTAATGGCATGCAACCACTTCAGACTCAAATATGT
TAGACTGTCAGTAGCTATTGGCAGAAAATTTATCTGTCTTTGCTACAGTTCTATTGCTGTGAAGAGACATCATGACCAAGGCAACTCTTCTAAA
AGAAAGCCTTTAAATGGGCCTGGCGTACAATTGTAGACGTTTAGTCCATTATCATGATGGCAGAGAGCAGAGGACACAGGCAGGCACAGAATCA
GGAGCTGAGAGTTCTGCATCATGGTCTGTAGGCAGAGAAAGACAGACTCTGGACTTGGGATGGGCTTTTGAAACCTCAGTGCTCCTCCTCAGTG
ACAGACTTCCTCTAACAAGGCCACACTTCGTAATCCTTTTAATCCTTTCAAATAGTGTCACTCCCTGGTGACTAAGCACACAAATATATGAGCC
TGTGTCTTTCTCAGGACAACGAAAAGTTTATCTTGCATCTTTCTTCCTATAATTTATCATGAGTGAGCTATTAGACTGTCTGGTGAGTTAACAT
ATGTTCTGTATCTCCCACTCACTAATAAGCTTCGCATGGATTAGCTAGCTGAGTGTTTCCCATGGGTCTGCCAGCCCATTAGGCTGACACTCCA
TCATGAATGGGTTTCTTCGTCAGCTCTCAGATTTGCATTTGCAGTGCGTGCATGTATTGTTCTAGGTCATTGTCACGATGCTCCTGGTGAAATA
ATATTGAAAATAAAAGAAGTGGGAAACCAGGTTCTGTAAATCTCAGTGTGGTAGCATGCACAGAAACATTGATTTATTTTTAAAAGAAAGCTTT
TAGAAATCAGCATTACTGAAAAAAAAAAAAGTCCATTGCCAGCCTTTATCATTAGTGTGACATACTGTCAGACAGGAGGACACACAGAAAGGGGG
ACGCTTCTGAAGAGCAGTCAGGAATAATTAGGAGTGTTGACGAATTCATACTTCATATTTTATTTAACACTGTCAGGGCATTTTAGGTTCAATG
ATTTAAATTTAGATTCAGCCCCCTTTTTATTCTAATACATGTCTAATGTGTATTAGATAAATTTCCATGTCACTGTACAAATCTCCCCATTGTT
ATAGCAATTCCATAATATTTAACTTACAGTTGTAGAACAAGAATGCAAACAGTTAGATCAGAGCACATCACAAACTCCTGAAAATCGACTTGCA
GAATTTACGCCCTCTGAATATTTTACATGGTATACACTTTATGTGGCCATAGCCCTTACATTATGTTTTCTTCAAAAAATTCTCTATGGAAAAG
AAACTTTAACATTTTATAATTTAATCTTTAGCAATTTATTGTGCGTGCAAGATACAAAACAAAAAATGTTGTGAAAAGTCTCTTTTCCCAGTAT
CTTTGCCCCATTGCTAAACAAAACAGTACATTAAATGACACCTAAGTGACACCTGTTATGGTTACTAGAATTTTAAACCACCCTGCCACCCCAC
CCCCTCCCTGATTTCCAAGTGCACCTTCTAGCTGGTGTCTGACCGCCTACTTTTCATAGTGCGCATTGTGGTTCTCTTTGGATTATGGTATTTT
AATGGGTTTGGAAATTTAGAGAGCCTTTTCCCCCAAAGAAATCGAACAGAACAGAAAGAGTTGTTGGTGTTGGTGGTGTTGTTGTTGGTGGTGC
TTACAGTGAGTCAGGCCTCGGCTGCCTATATCTCTGAACCTAGATGCTATATAGTTACTGACAGGAATTCTCCTGACTTTGTCCTTGATGGCAT
ACAGCCATGCCTTTAGAATTTCTCCACTCAGTCCAGCTGCTTCACCAAGATGCCCCTGTGTCAGATTGAGTTACTAGGAAGATTGCCACAGGAA
TGCAGGAAACAGTTCGTTCAGCATTCATAGAATATGTCACATACTCAGGACTTGGCTGGTTTTGTTACATTGTGCTTTGTATGAAAACCACAAC
TCCCCGGATATTTGCTGAGACCTAGCTACATTTTCTGCGTCTCCTTATGTGGTGAGAAGATCCCTAAAGATTCCTGGTTGGGGTAGACAAATGC
ATAAATGAGACCCAGGCTTGTGTCTCCCTTTGTGTCTCAAGGTCCTTCCTCAAAAGCGCAAAAGGAAAGTGGGGGGAAGGCTGAGAAAGCAGGG
GTACATAAGGGACTTTCCCACTGCTTTCTCATCCCCAGCTCCAAAGCTTAGTCGATATTTCAACATTTTAGGTATAAACTTGCTTTTGCAATCA
ATGCAAATATTACTCAGTGATTCATCCTTTCCAAGTGACTCTCGGTTTCTTTCTTTTGACATTTAATTTAAAATTAGAAATTAGCATTTATATC
ATGCTAGAGCTGCACTTACCTTTCAACGCCTCAGTAATGGCCAAGGCTTTATGCGTCAAGATTCTAAGGCACCCGAGTGTTCCTTGAGCTTCTG
TAGTACCTGACGGAGTTAAGTTTTTAGCCACATATAATCTAGAAACCGTAGGAGAGGGTGCCATGATGACAAGGTGCCCAGTATGGTCGTTTGT
CAGACATTTAAAGTGGAGCCGTCTTCATTAGGGCCTCATGTAGGGAATGGACCAGGAGGATACCCTTACGTCTGTGAAGTGCGGTTGGAGTTGA
ATCTTCCAAGTTGGAGTGAGACTTCTTTATGTTAAATTCCCCCACTCAAACTTCTACAAATCATCCAATTTTAAAGAATGATTTTTAAGATGAT
AATATATTATATCATTTCCCCTTCCCCTGCCTCCAAGTTCTTTCATGTACCTCTCTCTCAAAACTTCATGACCTCTTTTTCTTTAATTGATGTA
TCTTTTTCTAAGTACAAAAAAAAAAAAATCAATCTGCTCCATCCATCTAATGTTACTTGTATGAATGTTTCCATTGGCATTGAGTAACCAATCA
GTGTACATTTTTGGGAAACACAATTTCTCATGCTCTCAGCTTTCCCTATGTGCCTGTAGTTCTTAGTCTAGGGTTGAGACCTCCTGAGCAATCT
CCCTTTCACATTGCCTGTCTGTTGGTGCCATCCTTGTTCAGGTACACACAGAATCAATGACATAAAGGTACTAAGTGGGTTTGGACAGTTTAAT
AAGGCAATAATGTCACCTCCACCTTAGAAGATTGTCTTTGGATTGTTAGGAAAGAATATCATCACCCAGGTTAATGGAAAACCTAGAGTCATAA
GGATAGTGTAAAACATTGTTTGTGGAAATTAATTAGTATCCAAAGTCACATACCAGACAGTGGCAGAACCCTGGTATTTTCAATGATGTCATAC
CCCTTTACTGCATCAAGTCAAAATTCCCCTGTTTTAACTTTTTTGTCTGAATAAATATGTTTAGTTGCAGCTGCTTAGAGAGTTTTGTTTTGTT
TGTTTCATTTTGTTTTAAGACAAGAATCTTACTGTGTAGCCCTGGAACTCACCATGTAGACCAGGCTAACCTCTACCACAAAGACATCTACTTG
CCTCTGCCTCCCAAATGCTGAGATTAAAGGCGTGTGCCACTACACCCAGCTCGTGTTTTCTTTTTAAGTATGTATGTAAATTGTGTGTTTGTGT
GTGCCTGCATAAGTTTATGTATACTTTATGTGTGCAGGTACCCTCAGAGGCCAGAAGAGGGTGTCAGAGCCCTTGTAACTGGAGTTTGACGGTC
GTGAGCTGCGCATGTAAGTACTGGGAACTGAATCAGGGCCTTCTGCACGCTTAACTGTTGAGCCAGCTCTCCAGCTTGTGTTTAAACATTTTCA
AGTGTTTCTTGTTTTAAACAACCCCACTTCCTTGCACACACCTTTGTGAAGTTGTGCCAAAGGACTTAGAGCTCCTACTTTTCCTTTAGTTGGT
GCTGGCCCTGCTCCATGTGGCCCTGGGAGTTCTCCAGAGCCTCCCGTGCATCCCATTAGTCACGTGGTGTTATAGCACAGAGCCTTTCACTGGA
AATGAAGCCTCAAGTTATGGGAATGTCCCGAGATGTTTTTATTAGTGTAAGATAGGCTTTTGATGGAGGCTAGACAGTACATTGGATTGAAAAC
TAACTAGCCTCCATTCTTCCATCAGCCTATGTTCAAGCTCCAAGGTGGGCACAACAGCCCCATCCTTTGATACAGAGTCTGTTCCCTCATGTGC
TAGAAGCCAGGGCTTTTCTACATTTGGGTTTTATTCAGCATGGAAGCGCAGTTTTTTAAAAAAAGATTTATTTATTTAATGTATGTGAGTA
CACTGTAGCTGTACAGATGGTTGTGAGCCTTCATGTAGTTGTTGGGAATTGAATTTTTAGGACCTCTGCTCACTCTGGTCGGCCCTGCTCACTC
CAGCCCAAAGATTTACTATTATACATAAGTACACTGTAGCTGACTTCAGACGCATCAGAAGAGGGCATCAGATCTCATTACAGGTGGGTGTGAG
CCACCATGTGGTTGCTGGGATTTGAACTCAGGGCCTTCAGAAGAGCAGTCAGTGCTCTTACGCGATGAGCCATCTCACCAGCCCAGAATGTGAT
TTTGAGGTGCAGATAGATGGTTCTATGTGTTTATCAGGGTCTCTGGGTGCCTGAAGGCCGCTGAGGCTGCTTATATTAATAGCTTGCTAAGTTC
AGTAAGTTTGAGACTTTCAGGTTTGATGTTTTCACTGGTTATTTTTTTAGTGCACTCTTTAGAGTTACAGAATTTTCATTGCACTTTGACAAAG
GCAGAATGACTCTCACCAGTCCTCACAAGAGGGCAGGGGGTGTCGTTCTATGCCCACTCAAGTGTTATGTAAAATGGTATCAGGACTTCCTCAG
CCTCTCAACCGAGTCTAGACAGTCCTAGGACCATCTCAGAGTTCATGAGAAAAAAATGCACAAAGTAGAAGTGGCCACAGGGTTCCATCTGGA
CCTGATTTTTACCCAGAGGTAGGACCAGCTGTATCAAACCGAGGACCCTGAGCTTAGCCAAAGGGTTTAGATCCCGTGGTCTCCCTACAATGAG
AGGTAGATGCCAAGGAGGTACAGCACGCATGATGCCCTCCTACAGAGGTCTTTTTTGCAGACATTTGTGGTCCCTGTAGAAATACAGCCTAGCC
CTGCATATGTGCCAGAGTTGTAGGATCTTTAAGATTCACTCCAGTGCTACAGCTTTCATTTCTTGTTCTGTTTTGTACAGCTTCACCATGGCAG
ACGATGATCCCTACGGAACTGGGCAAGTAAGTCCTCAGCTCACTAGCAACTTTGTTTCAACGCGTTCTTATCCCAAACACACAGAGGCAACGCT
AGTAACTCAGTATCAAGCAAACCCTAAATTAGTAAACACTACTCTTAATTTATTTTCAGTTTTTCTGTTCTTCCAGAGTTGGAGAGGGCCCTTT
CTTATGTATTTTTGCATAAAACCGTATATACTACATGCCAGAAAGTAGCCACTGAGTCAGTTGTGGTGTTGAAGGTCTGACCCCAGTATTTCAT
ATGGTGACTGGTATATTAAAAAAATTGCTATTCAGTGAGATTTCTAGGGCTGCTATTAACATCGCTACAAACCTGGTGACTTGACACAATAGAA
GTGTATCCTTTCATAGGTCTGGAGGCAAGAACTCTGAATTTGGGGCTGGCAGAATAGTTCCCACCTCCTACCACTGCTGGGTGTGTTTAGAGAT
CCTTGGCATCACACCAGCCACAGTCTGTTGTTGTGTGGCTTTCCTCCACGTCTTCACACATACCATCTCCTCTGTCTTAAAAACACATCACTTT
TTGGATGTAGGATCCATCTCTGTCTAGTGTGAATTCATCTTAACATATATAAAGGCAAAGGCTGCCGTGTCCAAATAAGTCACATGAAGGAGGA
GCACTTATGAATTCTGAATATATTTTTTTTCAAAGGTACTGTAGTTAAGCCCACTGCAGTCTGTGGGAGTGAGTGTGCTTTGAGAGCGGAGCAG
TGTTTATCATCACGTCATTGTCGCTGTCATCATAGGTGTGACAGCAGCCATGACACAGACTGACACGAGGATATCTGTATCTTCACTTTCCTTC
TAGTTTTTTCTCTTAAAAAATCTAAACCCATAGAAGTGTTAGACAGTCTGATGATACTTCCATTTCTTTCTCTTCTCCCCATAGAGAATATAGG
GAGCATAGAACTGATTCTTGAAAGCAGTTTCTAGCTGCTAGCATGATTACAGTGGCAATATTAAAAGTGGACTCTAATGGTCTATTAAATTATT

TAAAATACTGGTATCTCTTTGCTCCTCAGCTATCTACTGAGACTTTATAGAAGACTTTATGCCCAGAACATTAGCATCCTAGAGACGAAGGGAC
AGGTGATATGCTCACTGGGCTCAGGACTGCATCCCGGCTGGAGTAACGGAACCACACTTTACACAGTCTGTGGATGTTGCCATGGTTCACTGAG
AGACAGAAGCAGTTGGAGGGATTGCTGTGTGTTCCTTTAGGGAAAGAGCAGGTTAAGGATGACTTTGCAAAGGAGGACTAAGCTGAGCTTTGAA
AGCTACAACCAGTGCAGGGGCACTATTTACCAAGGTAGCCCTGCCACAACATTCATTACTACTTCACATTTAAATTTTGGTGGTAAACACCCGA
GACTACCATTTCCCAAATTTATGCTCGCAAAGAGTCAGCCAAAAATAAAACTGAAAATGAAATATTTGGGGGAGACCTGGTGTTTCTATAGTCA
CACAGCCCCAGAGCCGCAGTCAGAGCTGCCATGGCCTGCACCGTAGTGACAGCTGCAGTGGCCTCAGAGCTGCAGTCAGAGCCGCAGTGGCCCT
CTTCTTCTCACCCAGCGGGCGGAGTGAGCATGCACCATCCGCTCCTGACCATGTTATAAAGATGGTGGTACTGGGTAAACCTAAGGATGTTTTC
TTTTATGGCAGCATAAAAGACACCTGGCAACCATACGCTCAAACCCCTTGTTTAACCTTTCACTTTTAATGGGCCTCCTCTAACACAGGCCAGC
CCTCACCACCATGAGAGCTGTCTGCTTGGTTTCAAACCATGCTTTTCTGTCTGTACACAGGAAATCTTAGCAACCAGAGATGGTCTTTTATGCC
ACAAAAGAGTAAGACCTGCCAAGGACAGTCATTTTGAAAGTGTCTCATGTGGGCAGCAGTTCTGAGCTCATTAGCAGGGTGGGCATGTTCTGAT
AGTTCAGTTGTGGGGGAAGGGGAGGCCCTTGGAGGCTTTTAAGTTTTTGTCTTTGGGTTGGTTTTTTCTTCCTGTCTTAAGCTTTAAGTCTATC
TCTTCTAAAGTTTGCGATTTTTGAGGGAGGTGTCCTCCGTGTTTTAGCCACACTGGAGTTTGTTCTCCACCTGTCACCAAGCAAACACCACATG
CCGCCTTCAACAGGACGTCTGTCTTAGTGGGCTTCTCCCCCAGCCAGATCACTGCAGACAGAGGCGGAACCACAGCAAAGGACTTCTTTGTGAG
GTCGTTCTCTTTGCTCAGAGATGGAGGCCTGGAGCTTATTATAAAACCTAGTTTCCCATTCAGTGTGTCTTTCATGGTTAATAGCGAATGGCAC
AGATGCGCTTTGCTTTTAAGGATTGAAATATAACACACTCTTTGCTCCTCAGTTGAAAATTTGCATCCCTCAAAAGTGGATTTGAAGTGACTCG
CATTTAAACATCACATTTTAGGGGCCAGTAAGATTTTTCAGAGAGCAAAGTGCTTACTAAGTTAGCTTGACTTTGACTTCCTCCACTACCCACA
CATAAGCACACTCATGTTACACACACACACATATCCATCTCATGTTAAACACACATACTACACATACATATGCACTCTTACACTATGCACACAT
ACACACCTTACACAAACATATATGTGCATACACTCAAACACACACACTCACATACTCCCACTACACATACACTTTCACACTATACACACACA
TACATGCACACACACTCACACTACATATACATACATACTTTCATACTACACATGCATACACACATACTACGCATACATATACACTCTCATACCA
CACACACATACACTCACACTACACACACACATACACATTCTCACACTACACACACAAATGTAATAAACATGCAAGCATTACTCTTCTTTATTCTT
GATTTAACTAGACATAGTAGGATTTGAGGTACCCAAGAATATCTAGTGATTTACTAATAAGGACAAAAAATCCCAAAAACCAAAAACCAAAAAA
AAAAAGAAAGAAAGAAAAAAACCGTCTAGCTTGCAAGCTGACCAGAGAAAGTAAAAGAAATAATTTGGTTTCTATGTTGTCCATAAACATTTCA
ACAAGTCACTTCTGGTGAGTGAGACAGATAGTAAGCTCACACATACAAATGTGATTTTCTAAATGAGCTAACTGGGAAAATTCCTTTTGGAGTA
ATTATTAGTCATAACTTACCAAGGTAGAGCTTAATTCTATCAAAACGTTATATGTTCACTTTTTCAGTTTTCTTAGTTGTGTGTTGTTTCTGTA
ACAAGTTACCATAGTATTTGAAACAACACAAATATCTTCTAAAGATTAGAATAAAAATGTCAGAGTCGAGGCATCAACAGGGCTACACTCCTAG
CAGCGTTTATTTCTTGTCTTCCAAGCTCTAGGGGCTGCCTGTAAGTCCTGCTATCATCCCCCAGTCCTGCCTCTGTAGGCCTGGGTGAGTCCTG
CTAGCATCCCTGACTCCTGCTTCTGTAGGCACACTGCACTTTGATTTCTCACTCTCCTAAGTAGCTCACTTGGATATTCCAGGATAATCCTGTC
ATTTAATTGTCCTACATTGATGGCACATGCAATATATCTTTTGCCACAGAAAGCATAGGTTCTGGGGAATAGGAAGGTTCTGTGGAGTAGCATG
TAGACATCTTTAGAGCCATTGTTCAGTGTGCCTTCATCTACTAGATTCAGGTATTTATATTGTAATAGAAAATAGAGCTGGGCAGTGGTGGCAC
ATGCCTTTAATCTCAGCACTTGGGAGGTAGAGGCAGGTGGATTTCTGAGTTCGAGGCCAGCCTGGTCTACAAAGTGAGTTCCAGGACAGCCAGG
GCTACACAGAGAGACCCTGTCTCGATAAAAAAAAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAGAC
GACGACGACGACGACGACGACGACGAAAAGAAAAAGAAAATAGAGGCGGGAGAAAGTGAGCCCTCTGCTCCATCATGTTCTCAGTTGTATTGCC
AGTCATTTTGTAAGTTGTGTAACTCCTGCCTGTAATTCTTTCAAGGCCTTGAAGTTCTGTAGCTCAGTAAGTAATCTATTTATCATCAGAACAG
AAGCATACATATCTAAGATCATGTGCACGTATGTGCTGTCTGTCTGTACGTGTACATTCACAAGTGTGTGGAGGCTGAAGGTGGCTCCCCATCT
TTGATTTTGAGAAACGGTGTCTAACCTAACCTACAGCTCCTGGATTCAGCTAAGACCTCCAGCCAGCAAATCTTCATGTCTCCACCTTCCTGTA
GCTGGGACTGCAGACAACTGCCGCCAGCCCAGCTTTTCACTGGGGTACTGGGGCTCTGGACTCAGGTTCTTGTGCTCTACAGCAAGCACCTTAT
CAACTGGGCCATCTCCCCACCCTCTGGGATGTAATGAACTCAAGTTCCTAAGAGGGTGCGAGATTCAGATCACTTACTCTACACATTTTTCTGA
AGGGTCCAGCATGCCTGAAGCTCTCTTGGCTCCGAAGATGCACAGCTTGCGGGATCCACCAGGCCCTTGTCTTTAGGGACCCCATAGCCATTAT
TCTCCTCAAATTTCTTTGTTACATAAGTTACACACACAGGGGCCTAAGAAGGTCCCAGAAAGGCACGTTAAAATTTTGATTTCAGGAATCCTAT
TTTTGCGTTTTTATTTCTAGTTTTCAATCATGTAATTAGTTTTCTGGCTTTGTGTATTAGTGCAAGAAGAGAAATTAAAATATTTGTATTTTCT
TCTTTACAGATGTTTCATTTGAACACTGCTTTGACTCACTCAATATTTAATGCAGAATTATATTCACCAGAAATACCACTGTCAACAGGTAAGA
AAAACACCCCCTTTTCCTGTTGTTTTGCTTTCCCTTAAAAATATTTGGGGTCAGGAGTCAGGGAGATGTGGATCAACCAAACTAAGTATATATG
AAATTACTATAAGGAAATCTGTTGCTTTGTGGGTGCTTGGGACCTAGCCCAGGCCCTCTGGAAGAGCCACAAGCACTTTTAACCACAGAACCAT
CTCTTTAGCCACAACAGTCTCTTTTAAAATTCAACAATATTCATAGGAAGGAAGTGGTGATCCGTGTTTTAAAACCACCCTTTCAGTATGCTTT
CTGGAAATGTGTCTCACAAAAATGCTCCGGCGTGCGCGCACACACATCGTTTTAGCAAGTGTGGTTTCTGGTCTCTGTTAGAATACCCTGAAGC
CCTGTCTTCACCCCGTGTAAGGACTTTCCTCTTCTCCGTATCTCATTACCCATTAGTGCTCCTTTTTGCTTTACCGCAGCTCACAGAGAGCCAG
TCTTAGCCCCTCAGTTCTGTATCTGAGGGCCAGTCTTGTCAGCCAGGACACGAGGCTCTGGGGAAACAGTAGGAAAGTAACCTTTATATTCTGA
CCAGACCAAGCGTACAGAACTAATGCTCCTGACATGACTGCTAATTAACGAACCCACAAACTGTTTAAGGTCCCTTTATGCTATAGCGCACGGG
CTTCCTTTAGACTCATTATTGACTGGCATGTGTGTAGCCTTGGCCTGATGGCTCTTTTGCTGCTTTGATCACCTGTTGGAGCTAAGCCGTCTTC
AGCAGCCACTTGTTAGTTGGTGGAGATGCGTATGGAAGTGATTGTCCATTACTGAGGTGGACAGCAGGTGCTTTGTGTGCTCCGGATTTCTGTG
TCTCGTGATGTAGTTTTTATCATTCTCATTTAAAATGACTATGGTTTTGCCAGCGCCTGCCTTACGGAAAGTTTTCTACAGACGTGGGAGGAAG
GAGAGTTAGTATGTCACCCTCCTCACTGGTGCCCAGAAGTTACATCACGGAGGCCTGTCTGTCCTTACCCCAAATAACCACCACAGTTTATCTG
TAATCTTAAGCTGTCCAACACGCTCTAGGTCCCCTTCTTGTGACCAAGTAAATGCAGGGGAGGCAACCGTGTTTCCTGTGAACTTCTAAACTCT
GAGACCCCAAGAGCTTCCTTTAGCATTTCTGCTTTATTGAAAATGTTGCAGACTCGGTTCTGCCCTCAGGGAAAGCACAGGTTTCTAGAAAATG
CCTCTAATTAGTTAGAATACTAAACAGCATCCTGCAGGCAGATGATATTCTAATGTGTTCTCCTTTTCCTTTGGTTTATGGACTTAGAAATAAA
GTTATCCAAAGAATCATCTCAGAAAGTCGTTGGTGTTCATATCATTGCGCTTCGGGAATCTTCTTTTCCATAGTGTTAGAGAATCCTTCAGAAT
TGCATGGAAGATGCATTCTTTTCCTGTTGTAATGGCTCCTTGCTTGCACTAGCTCTCCGGCTCTGTTTCAGTGCGTTGTCCTGTTTTTATAGTC
CAAGATGGATGGGACATTTTGTTCAGATTTTAAAGGACTAGAAAGGCTATCTGTGACAGTGTTTGCTTGTAATTTTCATGTGGATTTTTTTTCA
ATCTTCTCAACTTCTTAAAATCTCAACGTATTAGTATTTCTAACCCTGTGTTGGGAACTCTCTAACAAGGGACAGCTGATAGGTCTGTGTCATT
TTGCTGTGATTTAATTTTCTTTTTACAATGGAAGATCATTTTTTTTCTGGCACAGAAATGTAGCCAACAGAATATTAGCCTTAAAACAAGTATC
TGTGTATCAGCTCCAGTGTTCTACTTCTCTTACCCTTGGGTGTGCTCTTCTAAGGGTAATGATTGCCCCCCTCTCCGCATGGAACTTCACATATG
TAAGGAAAACCTAAAACCAATCCTGTGAGTGTTTCAGACGGGCTGTTAAGAAGGAAGAGACTTGGAGCCTAACACGAGGATGTCTCCTCTGCCT
CCATATTTCAGCAGCATCTTATCCAAATGCTACCACCTTCCTGGCCTGGCTTCTCAGTAGGCTCTTTTGGATGCCTAGAGGAAATGTATATTTT
TAATATTGTTATACAAGCTGTCTGATATGCCTAGCATGAAATCTTTTTCTAATCAGTTTTATTTCCTCATAAAAGTTAAATTCGAGCAATTTTC
TTTTTGAAATTTAAAGTTAACAGTTACCTTTCTAAAAGTTTAAAGTGTCAAGAGATGAATCCCATGAGACAGAAGAAGGTAATTTGCTACATTA
CTGACCCCAGTAACCACCCATCTGTCTTTCTTATTTGGCTTCAAATTAGGTTTCCAATTGCTTTCCTGGTACAGTGTTTAGGCTTCCGTGTTAT
CTGATCAGTCATAATATTGAGAAGGTAAAATGTATTCTCTTTGAAGTTACAGTTTATTAAAAATTACAACCTGAACTTTTATCTCACCTCAAAT
TTACATATGCAAAATAAGGCTTAAGCTTCAGCCGAGAAAGTGAATTTTCAAATGAGCACAGAAGTGTTCTTCTAGACTGTCTTCAGCTTCAAGT
CTTAATTTTCACTCAAACAACTATAAAATGTCGAATATGTTTGTGTATTACACAGCTATTGGTTATCATACTGGGACATAGAAGCCATCTGACG
CCCTTATGGAATTTTTTATCATAACATTTATATTTATTTATTTTGAAATTTCAAGTCAGATATCATTGGTATATAAATTGAGCCTTTAGGTCCT
TTTCATAGTAATTAATTGGCATGCATTTATCTTCAATTACATTATTTTTGGTATTTTATCATAACTCTGGGCTGTTTTAGAACAGAGTTCTTAT
GAGCACACACTGTTAGATACTTTATTATATCTGCATCAAAAGCTGTGAGTAAGATGCCAGGGTAGTGGTCCATGCTTTTAATCCCAGCACTTGG
CAAGAAAATCTCTGTGAGTTTGAGGCCAACTTTGTCTACATAGTGAGCTCCAGGCGAGCCAAGGATACATGGTGAGTCTCTGTCTAACAAAACA

AAACAAGCCATGGAGAAGCAAGAAAAGTTCTTCAGGTCTCACAGAGGGCAAGGAAGAAGCCAGTTAGGCAACAGTGGCTGTCCCTTGGCTTGAA
GTAAGGGAAAGACTACATTTCAGGAGCAGTGTTAGGAGAGGCAGGTGGCCCAGGATCTCCCTTCTGTGGGTTTCTAGCTTCAGTTCTTCATTTA
CTCCTGGGCAGTTCTCTTTGAGGGAGGAAAGTAGTCTGCAGGTGAAGGCCACCTGACACCACAGCACTCAGAGGTGCTCCCTGCACTCAGCTGT
ATTGTGCCCTAAATGTTTGTTGACACATGAGTCTGAGGACGGCTCGGATCAGAATCTCTGTCAGCATTCAGACCTTTTGTTCAGTGCCAGTGGT
GTACCATTACCATTCAGAAAAAGCCACTTATTTACCGTTAGTCACTTAAACTATAAAACTANNNNNNNNNNNNNNNNNNNNNATCAGACACTCTC
ATCTGGCTTCCTTGGGCACTAAGCAAAGCACTTATGAGCAAAAAATAAATATTTTTTAAAACATTTATTTAATATTTCAAATGATAACACAGAT
CAGTAGAACACACTTCACCTATAAAAATTGATTTGAAATCTCTGTTTAAAGCATAACTTCAGCATTTGTCTTGCTTTGTATTTCATACAAGATT
CCAGAAGTCTCACAGTTTTCTTTTGGTTTTCTTGTGTTTTCCTTGTTTTTAACAGATGGCCCATACCTTCAAATATTAGAGCAACCAAAACAGG
TAAGCGTAAAGGGGTCGGGTGTTTGGTAATATTACATCTCATGGTAAGGCTCGGTCTCTGAGTAATAGTTAAATCTGATGACAGAGGTAAGGGT
TTTATCTGAATAATCGGCAGCCTGCCGTGTTATGCAATAACTTCCTGTGTCTACATTTTTCTTACAAATGGCTTTGAAACATCAGTTAATTATA
AATCCTTGGTAGTCTGTCCTTTTTCCAGCTTAGCTCATCAGCTGCTTCCAGGGAAAGCACTAAAGAGTCTCATTCATGAAGAAATACTCACACA
CACACAGGTTCACAGCCACTCTGACGCTCTATTGCTCATGGCCATGCCCACAGGGTACCCCTCCTGCCTTCATAAGCTCTGGCCTTTTCTGTGC
ATAGAATGTGTAGCTTAAGGCAGTAAACGCACTGGGAGACATTAGAGTGGACTGGGAGATCTCCCCTCCACCCCTCTGGCTTTAATCCCAGCCT
TTTTGAAGCAAGGAGAGGATTTTTTTGTTTGGTTGTTGTTGTTGTTTTTGTTTGTGTTTTTGTCTGGCTCTTTCGCTTTCTACTAAATATTGTG
TTCACCAGCTGAAGATTAAAATAGCCTCAAAACTGCAAATATGCTCATTAGAAGTTGCATGGCTCTAGTACTGTAAGAGAGAAGAGAATCTTCA
ATATCTGCCGACAGAACATTTCAGTCATTATGGGATGGAAGTTATGGTATAGCCTCCCACAGAGTGAGAACCAAGTCACTAGATCTCTGGGTGG
ATATGCTCATCACAGCCGTGGCGCTGAAGGACTGTATACCTGGCCTACCGAGTTGTGTCACCCAATGTCTTTTCTAGGCTGTTCCTTCTTGTAA
CTCAGGAGAGTGGGTTAACACATTGTGTTGTATGACACTCAATGCTAAGAAGTGAATGCTGACAGCATTCGGTGCTGTGCTGTAGAATTCTGAT
GTGGTCAGCTGTTAAATAGGAGAAACATCTTAGGGATGTCCATGCTACTTTGTAAAGCTGAAATCAGATGGAAATGTTAATTATAAAGACAGGA
ATGTCACATGGAACTTTGGGGCATTGTTTGGTTGCTTATAGGCGGCCTCTTAACACACACACACACACACACACACACACACACACACACACAC
ACGCACACACACATACTTATACACATGTACACCCTCCCTGGGCTGCAGATAACACCTGCCCTTGCTTTATCTCCACGTCCATCTTTGTAAAGAT
GATTTCTCACATAAAGTCGCTGTTCTCGGAGCTCTTCAGTAGAGTTGTGTTCTGTGAAATTCTGCCCAGTAATCTGGAATCCTGGAAAATGTCC
TAGCCTGGAAGATTTGGTGAATTCATAAAACTGATGAGTCCAAAATGTACCTACACATCAAATAGATTTTTCAGATCCTTTAGAAAATTTTAAA
TAATTTATTTAATTTTATTTTGTGCGCATTGGTGTGATGGCGTCAGAGCCCTTGCAACTGGAATTACAGACAGTTGTGAGCTATGACGTGGGTG
CTGGGAATTGAGCGCAGGTTCCTTGGGAGAGCGGACAGTGCTCTGCTGAAACATTTCTCTAGCTCCCCTTTTTAACAATATTAAAATTGCATTG
ATTTATTTTTTAATGTGTTGCTCTCTTTGCCCCCACCCCGTGTGTGTGTGTGTGTGTGTGTGTTATTATGAACCCCAAAGTCATAGGTAT
TTATGATGTGTTTGAACAGCTAGTATAGTTCCAGAATTTAAAATTTAATTCATTTTGTGTGAATATATAAAATGTATAAAACATCAT
GTTTGATTGCCAGTCCGATTTTATTTTGGTATCTGGCTTTAGTGAAAGTAAGAAGGTTGTATGTAAGCCAGGCTTTTTGACTGGATGTATGGAG
TCTCTCTGAGGTTAATGACTCATTTGAAGTAAATGGCGTTCCTGAGATGAACAGCGATAGATGGTGAACGTTTAATTTCAGAATACTAGAATTA
GAAATGTGTCCAGAGCGTGCATTTTAAGACTTCCTAATTTTAGGTTGTTATTTAATTTAAAACATTAGTTTATTTCTGAGTCAAAAAATGTCTG
TAGTCATTGCTGGCTTCAAACTGGTGCCAGTTTTCCTACCTCCCCTCTCCAAGTGATAAGATGACAGGTGTGAGCCACCATGCCCAGCTCAAAG
GCATCGATGCTCCAGCCGAACAGCGCAATACACATTACAACCTTCAGAATAAATGCTGCCTTGGATAGGACGTTCAATATTCTTATTCGACCGA
GAATAATACACAGTGTCACACGCTGTGCAATAAATCATGCTGGCTACAGGGTTAAACGTCACTCCCCATAAGGTATGAGAGGTACAGGTACAGA
TTTTTCCAATGCCACAAAGAAATTTTGTAATTAAAGATAAGGAACCACTATGTTAAGTTTTTGAGTTAGAAATGTTCTTTTTCTTGGAGGCCTT
TTGGGCACAGATGATGAAAATGAACCAAACCACAGACTACATGTCTTTAGACTGTCCAGTTCCGTGGCATGTTTCTCACTGTTAACTGTTTATT
CATGTTGTGTTGTGTTGTGTTGTGCTGTGTGAGTTTTGTACTGCTTTGTTTGGAGGCAGGGTCTCAGCAGTGTAGCCTTGGCTGGCCCCAAACT
CACAGAGCTCCATTTACGTGCCTCTGCCTCACAAGCACTGGGGTAAGATGTGTGGCAGTTATAATCTGAAGGTGTGTTTGAATTTTCTCAGTTA
AGTGGATCCCCATCCTAACGGCAGCCCATTTGGGGCTCTTGGTGTTATACATGCTATTATTGTATAGTTTGGGGGTGATTGAGTTCAAGCGTTA
TCCAGACTGGATCCCAGTAATATTAATTTTTACAAACTTTATGATCTTATTCCTTGAAGTGCTCAGAAGACTGCTAGAGTCACAGTGTCGTAGC
ATACAGCATGTCTGTAACACAGATGCACTTAATCCTCCAGAGACTTGAGAAGGGGCACCAGGAGAAGGGGGATGTGGGGGGGGAGCACCCTCTC
AGAGTCGAGGAGGAGGAGGAATGGGGTGAGGAACTTGGGGGGGTGATGTAAATAAATAAAATAATTCTTAAAAAGACACCTTTATGGTCTGTGA
TCAGAGCAGATAAAGGAACTCCTTTAAGTAATTAGCATAACTTTTACTGATGGCAGAGCGGAGAGCTTGGCAGCAGCCATTGGTAACGAGAGGC
TCCAGTTGAATAAAGTGCTAACGTATATCCAAAGGCTTAAACTCTTCATCACTCCTGTGTTGAAGGTGGGTGCCTGGCTTCTCCGCCACTGCTC
AGTGCATCATTTTCATAGTGGCTGTTAGAAAGCATTTCTCCGTCTGCAGAGTTGTCTTCCACAGTTTTGCATGTTTAGAGACGTGTGTGTACAT
CTGTCATTGTTGCGTTCAGTAAATACCGCTGTGTTCACCTCTGCAGAGGGGATTTCGATTCCGCTATGTGTGTGAAGGCCCATCACACGGAGGG
CTTCCGGGAGCCTCTAGTGAGAAGAACAAGAAATCCTACCCACAGGTCAAAGTAAGTTTGAAACCTCTGCTCTCACTGCCCAGGAGCAAAGCCA
AAACGTTCAAGTGAATGTGACTGGGATGTTCCTTTGCCCCTCAGCGGGAGTGTTTACATGGTTCTTAGAATTTTTAAATAGAAATTCACCTCAT
GAAAATGACGAATCGTCAAAACACCATTAACATCTCCATTTAAGTGAGATGGTTCCAACATCAACTAAGAAAAACTTAACTACCTCTCCAGTGA
TCTTAAAGCTGTCTTTTCATCTTAAAGTATTTTTAAATATTCTCTGATGTTTTAGTAAAACTTGGAGCCAGGTGTCATAGTGCATACCTGTAGT
CACTGGACTTAAGAGGCTAGCAACAGGACTGTTAGATATCCCAAGCTAGCCTGAGCTACATAGCATGCTTGAGCTCAGCCTGGGCTAGGTGAGA
CCCTTATCTCGTAAGAAAACGAAGAAAATAAAAAATGTCTTTGAGGCAAATTTCAAATACTGGGTTTATAGAGATTTCATGACAAGACCCTTGA
CAGAATATATCGGCTATGGAGTATATTAATTATTTAAGATCATAAGTTCAGACCCAAGTGATGGAATAAACAGGTTGTAAGCAGGCTTATCTCA
CTGACCAAACATATAAATACACAAATACCACTAGCATGTACTTCACAAGGTGTTTTAGAGTTTCAATGAGGAAATATGCTTAAGTTCTCTGTAG
AGAGCCTGAGAGAAACCGTGTGCAGCTACCATGAATGAGTTCTGTAGCATGGGGGGCAGAGGGGTGGGGGAAGCTTCACTGTCTTTACCTTGGG
GTGTCGGGTGTAGCTTCGCTGCTCTTCGCTTTTTACGTTGTTGATCTAGTTGAGACTACCTTCCTCTAGTTCAGAGTTTCTACTTTCCTAATCC
AGTGTTGTGTTTCAGAGACTGACAGTGATTTTCCAAGGAAACAGTTAAAAACTTTCGAGTGGTTTAAAAGGTTTTATTTATTTGGTAATCTGGG
CTTAGACTAAATGTTACCAGCAGTAAACGTTATGGCACTCCAGCCTCTGTCTTTCTGCTGGCTTGAGATCTCAGACGCTCTTGCCCTCAGCTGA
GCTGACACTGGGGAAGTTATCTTCAGTTTTGCCTCCTAGGTTGCTTGTCCCCCTTTTAATGTTGTACTTCCAGGCTCAGGCCTTCCAGGTTCTT
GCCCTCTGTCTAAGACAAAAGAGCCATACCATCCTTTATCTTTCCAGTGAAAAAAATGTGAAAAAGCCATACCATCCTTTATCTTTCCAGTGAA
ACTCAGCTCCTGGCTTGGGTCCTGAGAGTCACATTTTCATTTTAAGGCTCCCAGCTCTAGTTGTGGAATGAGCCGTTTTTTTTTTTCTCAGTAAA
GGTAACTGAACGTGGAAGTGCAGTGGCTTTAGTGCACAGAAGGCCACAGTTATATTAGACAGTGTTTTTCAGAGAAGTCGAACCAGGTCGGTGA
AGACAGGGAGATAGTTAGATGGTTGACTGAGCGATAGCGGAGGAGATGAGAGTAATCGGCCTCAGCTGTGACGATTATGAACGACACCAAGACC
CACTCTGCAGCGTCTGTAAAATGTGCGCAGGGACACTGCTAGGATTCCAGCACAGAAGCCTGGGCGCCCTGTAACCAAGGGGACTCTTCACTAA
ATCTGGGCGTGGCTATGCTTTTCCTCTAAAGGCAGGAGAGGTTGGACTGCTGATGCCCTGGAGGGGCAAGAAATGAAGAGTGTCCTCCCTCCCA
TTCAGGTGGGGCAGTAGCCGGAGGGAGGGAAGGAGAGGATTCTCTGGTGTTTTGGTCCAGCAGGTCTTCTAGCTGAAGGGAAGGTCTTCCATCA
GTCCAGCAAACTTTCCAGTGTCCTCTGGAAACGTGCACACAGCTAGGAAGCAAATGCTTTATCAGCTTTCAGCATCTGCCCAGTGTAGTCGACT
GCACACCGGAAACTTCCCTCAGGACAGTCTGTGGCTTCCAGTCCTGCAGAGGCCAGGCAAGGAATGCAGAGCAGAGCACCGGCGAAGAAAACGG
TTATTCCACACCCCTGGTGGTCCTCGTGTCTCCCATCTGTTCCCTCCTGTAGCCTTATTAACACTGAGGAGCTCAGGCTGAGGTTAACTGGCCC
TCTTCAAAGGTGCTGGGCTTCTTTCTCCTGCAGCTCACTGGCCCTCCCATGTGAGCGTGTGCAGCTGAGGGGCCAGGGGCTGAAGGAA
CAAGTCAAGAAGGACTGATAAATCAAGTCAGGGAGGATGAGCATTCTGAACAGCAAAGAAGAAATGGGGGCAGAAGTCATCAGGGGTCAGATCT
AGAATTTCCTACCTGTGTGTGTCCTGTACAAATATTGTGTGCAATTATGTGTCCTTATCTGCACCAGGGTCACTGAACATCCCTTGTCAGCACT
GATACTGATCATAACTACTTAAGAACCGATGTTAGGAGAAAAAAGTAGGGTTTTTTTCTCTATTGGCCTTCTACCAAAAAAAAAAGAAGAAAA
TGTACATTGTGTTCTATTTATGAACTCTTTCCTTCTGAGGCACTAGAATTCTGTGGTCTGCCATGCATGAAAGATGGGAGTGTCTGTAGAAAGA

GGCTTCCAGGGGTATCATGGCTTACTGCATACCCACCCATAATTCATCGTAGAGGTGGGTCCATGTACTTCCTGAGGGAGCGACTCTTCCGTAG
CCTTGCACATGCAAGGCTGTGACTTGCATGAAGTATATGTCTTCAGACTCACCTTTTCTTCACCCCCACTGACAATCTCTGTCTCCCTGGACTC
AGGCCCTCTTTCCTGCCCTGCCTCTTCAAGCACCCCTCCCTGCTGTCCTTAGGGAGCGCCCCTGCAAGGTTAGTGGTTGATGTGATGTGAAGAT
TGCAGTGAAGATCTGAAGGCTCTTGAAAGCTTTGGGAACTGGTCATGACTTAAGGCTGCAGAAACCAAGCTTTGCTTTATGGAGCTTGTAAACT
TACATCTTGTTTGGTCGTCTACTTGTTGACTGTTTGAAGCATCAGGTTGACTTGCAAGCTAACTCTAGGAATCTCCCAAAACCAGCACTTCCTA
TTAGAAGTATTTCCACGCTGTGGTAGATGCTGGGATGCAAGCTCAGTCGTCACCCCCTCCCCCCACTGAGGTACCACCTTTTCTAGAACTCAGG
CGGCTGTACCATGTGTATGTTCCTCTCGTGTAGTTGAGAAGAAAGAACCTCTTTGGCTCTCTAGGATCTTGTTGTACAAGTCTTCACGTTCTTA
TTTCCTCTCTCTCTTTTGATTAATTTCTCTGGGATTACTGGTTCCTATGTCCTCACAGGTATCATGAATGGTTTCTTCAGATTGAAGCATTCCT
TCCACTGCCTTCAGGAGCTCGGGGTGGGTGAATAGTCTCTTTTAAACCAGCTACTTCATATTTCAAAATATTTTAAGCATACAAGTTGTAAAGT
TCTATATAACAAATACCATGTACCAAAATTAATAAATTTAATAGATGGTAATATTTTGCCTATTTGCTATCTGTCTATCTGTTCTCTCTCTCTC
TCTCTCTCTCTCTCTGATTCTCTCTGAAGTACAACATAGTTACAGTGGGAGCCCCTACTCAGCCACTGCTCTGTCCTCTTATCCTCTTTCTTTG
CCCAAAGGAAAACCACTGTTCTGAACATTCTTTATCTGAGATGCATTCATATCATATACTAAAATCACTTTCAAGAAAGTTACTTTTTACTATC
TTTAATCCAAAGTTTTTTATTATATATGGTGGCTCTTTTTCAAACTATATCCAGGTTAAAACTGGGCCCCTGAAGGCTTAAACATTGATTGCTT
TAATCCAGTCTCTTCCTCTTTATTGTTTGACTAAAAATGTCTTCAGTCACAGTGTGGAATTTATGCTGACCCTTAAAGCAAAAAATCATATTCA
TGAGGAAGCTAGGGAAAATAAATATCCAGAATTTAAGAAAGTTTTCCACTTTTAAAAAATGGAGTAATCCACTGTCTAGCCTGTAAGCTCTCCC
TCCAGTGTTTGCTTGGTTCTGACTTTATCTGCGGCTCCTGGGAGAACAGGAGAGACAGCAGAGCTCCTCTGGGCCAAGCCTGTCGCTACCTGTT
CTTGACTCAGCAAGGAGTGCCAGGGAAGGCTCACTGCCCTCCTTTTCCCGAAAGTGGTGCAGAAAAATTTTAAATCAAAGTGTCTTCCTTGAGC
AAATGGAACAGGGCCAAGAGGAGAAGCCACACGTGGCTTTAGGAATGCGCCTGCAGCCCGTCCTCACTTGCTTGAGTCCTTCTGTGCTGGGCAC
CTTGTGAACATTGCACTTGGACATCAGTGACTTTCATTTCTAAAAGACAGTTTGTTTGTAATCATCCAATGCCAGGAGGTTGGAACACAGTGAT
GCTAATATGACGATTCTGATCAGCTTTGCTGGCAGCTGCCCTGCCTGCCACTCTCCTGGGGTTTGATGGTTAAAGAACGGGTTTATTGGAATGT
TTCTGTGAACAACAGCTTTGGCTCCGTTCTCCCACCTCCTGTAGTGTGCACTCTTACGTGCCTCTCACTGAACAGTCCTTAATGTTACGTTTCC
GTCAAGGTTAATAAAGCCCGGCTGATCTGCTGTAGGCTTGAGGATATCACATATCTTTGCAAAAGCGCCCTTTCCCTTGCACAGGCTTGTCTGC
ATCCGGAGACTTGCCATCCTAAAGATCTAGTTGGAATACTAATTTTGAATAATTTAGCCTGATCCAGTTACCTAACATGCCAGGGGGGAAAGAT
CACCACAACAGATTGGGCATTCAGAACCTACCTAGTTCATAGCATTTATTAGAATGTCCTTTGACACTTCCAAGTGTTTACTGTGCTCAAATAA
AAGAAAAGAGCTATGTTCCCTACCAATACTATAGTCTGTGCTTTGTAACACACACACACACACACACACACACAAACACAGAGTTTATTAAAAC
AAGGGCTTTGTAACCCAAGGTTCATGGATCCTTTTGTGGTTTCAGAAAGGTTTGCAACCTCTGACTCTACACATAGAGTTTTATGCATATTTGT
ATGCATTTTTAAAGACTCGAACATGTGTAAAAGTAATGCTGAAGGGCATTGGCTTTTTTACCACAGCTGATTAAATCGATCTCTACAATTTTGG
AGGGATGGGGGCGGGGGCGGGGGGAGGGCGACTGGCTCTCACTGTGTAGCTTAGGCTGGCCTTGAACTCATCTTCCTACCTCTGCCTCCAGAGT
ATTGAGAAATTCCAGGGATGCAACTGTCTTGAATGTTTTTCTTCTTTCTTTTTTCATTTCAAAAATTTACATTTACACTTTTTAGTTTTACCCA
TTTTAGGCAAGTTGAAGCGCTTTGTGTTTCTCAGCATGTAATTCAAGCTAGTTGCTCTTTAGTATTCCATTGACTGGAAAAGATGTGAGATTTA
GCGCCTCCTCACACACACACACACACCACACCCCACCCCCGCCTTTCTGTTCTCTCCTTCCTCCCCTCTCCTCCCTCTCTCCCACTCCCACCGA
GTCTCTTGGCACTGACTAAATACGATGGTTCAAAACCAAAAAGAAAAGAGAATCATTTCCCTGATATTCACTCAGCACGGTGGCAAGTCCTGCA
CTACAAGGAGGTAACATCCTCTGCGTGGCCATAATAATCTAGACTTCTGCATAACTTTTCTTCTACGTATCCCAGGCGTTTTGCGATTGCCTCC
ATGAGTAAAATACTGACTTGTTAAAAAACAAACAAACAAACAAAAAAACCAGCCCTTTATTTCACTGTTAGCATTAGAAGTTAGAGAAAGCTGC
TTACTGAAGGAAACTGTTGAGCAGTGAGAATTGATCCTGAGAGTTAGGAGAGCCAAGCTCCTGAGGGTTGCAGGTTGTCTGACTTTCCAGGCTT
GGTATGGTGGCCTGCCTCGCCTGGCATTTCCTCTTCCCCTCTCCTGTTTCTCTGCATACTCATTGCTCTTGGGATGCTTGTTCCTAGTGGCAGT
GTTCAGTCTGAAATCATCTCTGATCAAAGTGGTCTCTGTTTGAAGAGGATCATTACATTCAGGCCGGGAATCCCGGTTTCGTAAAGCCACATGT
GAAGATTGGTTTTGATGAGGCAGAGTGAGTAACCAGAGCCTATGATCCTCATGTCCCCAGCCACCTTCTCCATAGTCAGGGTCTAGGGTCTTTG
GTGGGTCTAGGGATGTTCTGCTGGCTCTCCTGGAGTCCCCATCTTCCCCCTCCCACTCTAAGTGGATTTTAGGTCAGTCTTCCAAACAACTTTC
ACTTTCTTGAGGTCTAATGGAGGTGAGTGGGAGGATATCTGGGCAGACATGTGAAACAATCCAGTCTGAAGACCAGGGGAATGCAGAGTAAGTC
CCCAGCATCTTCAGATAACCGAGTTATCTATCCATTGCTTGATAGATAAGTACAAAACAGGTTTGCTTGTATTAGAGAAGACTTGGAATTGAAA
ACAAGCCAGAAGAAGGTAAGGCCAAACACACATTTTTCAAATCACATATCATTGAAATGGTCTAGACATTGGAAAAACAATGATCAGGTGGGAG
AGTGGATAATGAGGTTTCTCGGGGTGGAACAGAGAACCGTGGAGGCTGGGAGAAAGGGAGAGCTGAAAGCAGAGCAGAGGGTGTCTAGCTGAAG
TCCTGGGAGAAACTAACATGGCTGCATGTGTGTGTGTCCTTCTCTACGCACAGCTCTCAGATTGGCATGCAGTACTCAGCTTGTGGGCAACA
TATTCACGGTGTTAAGCACCAGCTGTGAACTGATGGCCAGCGTGGGGTGTGACATTACTTCCTAGATTCTCATTGGCTAAGCTTTGTGAACTGA
TGGCCAGCGTGGGGTGTGACGTCACTTCCTAGATTCTCATTGGCTAAGCTTTGTGAACTGATGGCCAGTGTGGAGAGTCTCACTGGCTAAGCTG
CAGCTTCTTCATCTGTAAAGCTGACGTAGAGAACCAACTCAATGGAACATGTGCGTACATTCAGTTGCTCAATGCCGGCACACAGTCAGCCTGG
AAACACAATTACACCCGTTTTCATATAAAATTTCAGGAAATTGGGTACTACTCCAAAAGCTTGTGTTTAGAGGTAACACATGATGTCATAGGAA
ACTCACAGAAAACAAGAGGATAGAAACAAGTGTTAGGTTTTGTTAGGTCCCTTCACTGTGTCCTGGTAGGCCCTATGTGTCTAATTTGCACAAC
GCTGTATTCATTCCTAGGTTGCCATAACAAATAACTGCAACCTGGGTCATATTAAACAACAGAGTTTATTGTTCCAAAGTTCTGGAGGCCCAGA
GTCCACAGTGAAGTTGCCAGTGTGGTCTTGCTTCCCACAGAGGCTTCAGGAAAGAGTCAATCCTGGCCTCTTCCAGTTTCGGGTACTTGTTGGC
AGTCCTCAGCAAGCTCTAGCTGCAGCCACTTCTCTGATCTCTGCTTCTGTCTTCACAGGGCTCTTCTCCCTGACTTTGTATCTGAATCTCTCCC
TCCTTTCCCTCGTAAAGACACCAGTCAGCGTGGTTAGGGACCACCACGCTGTGTAGCAGGACCTCTTCTTGACCAATCGCATGTGTAGGAAGCC
TGTGTGTAGATGAAATCATGTTCTTAGCTCCTGCATAGGCCCGAGTCCTGGGAGATGCTCTTCTCACTTACTACAGGCACGATGTGCAGTGGTT
ACAGAGTGTTCCCGAGTGTGTGCATTTAAGGCCATGTCGTTCCGTGCTGTGCTCAGAAAGAAGCCTGTGTGCACCACGTGCTCCCCTGTGTACC
TTTGTTAGATTCAGGTAGTGGAAGAAAATCTCTCAGGTCTGAGGAAATTGCTGTACTAGGGTTTTGAACATTTATTCTAGTAGATGGAAGGTGT
GCTAGAAAGTGTCTGGCATCAGACTCTTGGATGGCACTCTGAATTGTAGCATCTGCCAGTTTCCTTCCCATAGTAAATTTCAGGCTGCTAACAT
GAAGTCAACTGGCTTGCAATAAATAAATAGATAAATAAATATTTTAAAAAACAGTGAAAATTTAACTATTCTGAAATTAACTCCAT
GAACTAGTCAACCGGTTTCTAACCTACTAGGTGTTAAGCCAGCAAAGTTAGAGCGAGAGAAGGTGATACATTGTTTCCTGTAGGAGCTACTTTC
TATGCACATGTTACATAATATAAAGATGTGCAGGCTATGAGGGAACCCGATAGGTGTTACAGCTGGGACTTCATTGTGTGATAGTTAAAGAGAG
CTGCGGTTGAGTGGGATTACTGCTGTTTAGAAGCAAGGCTAGACCTCGGTCCCATTCTGCCACTCGCTCGCAGGTGGGGTGTTCTTCAGAAAGT
TGCTAAAGATCTTCAAACTTGGTTTTGTTTATGAGATGAAAGTAGAAACAACTCCTTCACAGGAACCATGCGTGCTTACGTAAAAAACTGACCT
CTTAGAAAGGCAGCTGCCATAGTCCTGGCACATCTGCGTCATTAAGTGCTCATTCGGACACGTGTGTAGAAAGAGCCATGGAGATGACTGTTTT
TTTCCTGAGAGCAGAAGCTTGCAGGTACTTTGTCAACAGCACCTAGAAGGATGCCCATGTATAGCAGACAGGCAGCAGTTACTTGTACAGTGAG
CAGGTGGTCAGTGCTCAGAAGCTGGAAGGATCATCTAAGGAGGCACTTGTCCTCCCATGGTGGCGCTAAGCAAGTCACTGGAGTGGCCACCAGG
TCTCCACCTGTCACTGCTGCTCACTCCCCACCAGCCTGCTCCTCTTTGCTTCTCCAGCCTGGCATGACTGCCAGCCAGGACAGCCACATCCCAG
ACCTGGCTGTACACTGTAGTGTAGCTCTTAGACATAGCACCAATCTATTCTGGGTTGAAACTGGCTTTTCTGCCTTAGTTTCTAAACCTATTTT
AACTGTCCAATTGCAAAATAACACTTAAAGAAACTAAAAAGGTTTAAGCAAAATAGACATTTATTTATTTTAAAAACTGAAAATTCTAAGGGAA
GAAGTAGAAAAAAGAAACCCAAACAAACAAACAAATTTGCCAAATCCGTAGAAAAACTCCCATTGGGCTTTTTAGCATCTCGACTTCTACCTTA
GAGGCCACTCAGCAGCAGCAGGCTCACTGTGAGAAGACCTGCATTCCCAAAGCTGACATCAAAGCTTATGAGACACCCAACTGGCAGTTCCTAG
GCCTTTGGTACTCTGAGTTGTTCCACTGCCTGCCCCTGCAGCAGTGAGACAGGGGATAGGGTTGAGCCCTGTGTCCGTCAGTCGCATACTCTGC
CGCTGGTTCTACAAGTGGGATTAGTCACTGACTAGGAACATGGGGAATGAACTGAGGTTAGGATTCACTGAGCAAAGAGCTATGCGCTAGTGAC
ACGCGGATGCTCCAAGATCACAAGGATTAGCTCATTCGTCCATCCCGTGACCAGCCTACAGTTTCTGAACTCTCATTCCTAACAGTTGGTAAAC

CCGGGTTCCTCTCTTGAGAATGACTGTTCCATGCTACTCCTAATATATGAAACTTTTGTTTTTTAAAATAAACCAAAAAGTTTTTTTGTTTATTTA
CAGATATCACTTGCATTTAATAAAATTTCAAGAAACACAAAGTTATAGGTAGTAAGTCCCCTTCTGTCCAAGATTCCTTTGTTCCCTGGAGAGG
AGAGCTGTTAGGGGCTTCTCAAGTGCACTCCCAACCGTGCCTGCCGTGTGTTTACCATGTGTGTTTATACCTGCTGGCACACTTCCACTCACGC
TTCCTCGTGTAAGTAAGCATTAGTGTAGCGCTTGTGAGCACGGATGTAGTCTACTAATCTATGAACCATCTGCTGCTTACTTTTTTCACTTACT
GAGTCTGAAATTTGCTCAGATTAACAGCAAACTCCAGAGCTGGCAAATCCAGATTCAAGTCCAGCTCTGTCCCCTGAGTAACTGTGTAACCTTG
AGCTAACTGACCACCTTCTCTGTGCCCCTATCCAACTAGCATAAGAACAACTCCATGTCTCATAGTGTTGTTGGGAGTACCTAATTGAATTAGTG
TTGAAAGAGCAATGTCTGCTCCAGGGAAGAGTTCTGATGTTGAATTTCCTACCCATCTACTCTGTAAAGGCTGTGTGCTTTCCATGGCTGCTTG
GGGCATGCTGTCTTCTCTAAGCTCCATCTGTCTTCTATCACAGGCCAACCTTAGTAACCCTGCATGATAGTAACTTCTCCCTTATCCTGGGGTC
TTTGTCACTTTGGGATGTTTTGTTATTGAGATAGCTTTTTAAAAATACTTATTCATTTTTATTTTATGTGTCTGAGTGTTTTTGCATACATGTA
TGTATGTGCACCATATGTATGCAGTGCCCACGGGGGCCAGAAGAGGGCGTTGGAATCCCTGAAACTGGCGTTGCAGTTGGTTTTGAGCAGCCAT
GGGGATTTGCTAGAAGAGCAGAAAGTGTTTTTAACCACAGAGCCATTTCTCCAGCCCAGAGATACCATTTTAAAATTATAATCTGTGACTGTTT
TGTTTTGTTTTGTTTTGTTGAAACTAGGTTTTACCATGAAGCCCCCTAGCTGGCCAGGAACCCACTGTATAGACAAGTCTGGAATGGGACTCAC
AGAGGTTGGCCTGCCTCTGCCTCCCAAGTGCTGAGATTAAATGCATGTGCCACTGTGTCTAACCCTTTCTTAATGTAGTGTGTTTATTCTTTGA
AGAGTCATAAACTAGATTTTCACCATATTCACTTCCCACTGTTCTTTTTAGCTCTTCTGAGGTCTACCTCCTACCTCCTCTCAGTTTCTTCCTT
CCTTCCTCCCTCCCTTCCTTCCTTCCTCCCTTCCTTCCTTCCTTCCTTAATTCATTCATTCCTTTCTTTCTGCCTATGTACTAATGGATATGAG
ACTATCCACTGACCATGGTCATTCCTATAAACATTTTCCTTTCATAAATGTTACTCTATGCATGTGGAGGTCAGACGCAGCTTTCTAAGGTCAG
TTCTCACTTTCTGCCTGTCTCTCTTGTTCCCCACTGTGATGCATCCTCCAGACTTGATGGCCCTGGAGCTCCCAGCTGGTTCTCCTGTCTCTGC
CTCCCATCTCTCTATGGGGTGTTGGGATTATAGATGTGCATCACCTAATAGGGCTTTTTACCTGGGTCCCAGGGTCTCAAACTCAAGTTGCTGT
GATAGGCATATATAACAATGCTTTTACTCATGAGCCTCCCTGGATGCTGAATTTTTTTTTATCATAGCTTTATTTTGACTCTTTATTGTGCCAT
TTGCTTCTTATATGTTTAATGATGTGTTTTTCAATGTGATGACCCTTTCAGAGAGTCTGCCCTGAGTTGTTCCCAGGCCTCGCCCACTTGAGTG
TGTTCTGGGGATGCCTTCCTAATGAGCCCCATGCGGACTCTGATGGCTGCCGTACTATGTCTTACTCAGATGTGCCCCTCCTCATTTCTAGACC
TTATTTCATGTGCATAAGAACTGTGTCTTTTTAGATTCCCTAACACTGTGCTCAGTTAAATTCCTTTTCATTCTTGGGTACTAGGTGATTACCC
CAGTTAGCAATAGAAATATGCAATTAGTATTAGACATAAGAGGAAACATGTCTCTCCCGTTCATCTCTTACTGAGCTCTTGCTGTGTCTCACAG
CCAATCATATTCAGCTCCACCAGGGAGGCGTTGGTATCCTAGTTTTCAATTGGGTTTGATGAACACTTGGCCAAAAACAGCTTGTCTGTCTACC
TTTCTTATGTACATGCACACACACATATCTCCTAATTACTTTCCCCAGCCTAGACTTCTCCAGAAAACCAGGCTTCAGATCTGGCTACTTGGTC
GACTTTACCATTTGGATACCTGGTAGGCTTGCTGAGCTCAAAGTTGAATGCTTGATTCCCTACTTGAAGTTGTCCACTCTTAGAAAATGGTAAC
CCATCCCCCAGTTTCTCAGACCAAGCGGTCTTGAAGTTATTCTTGACGCTCCTCTTCTTGATCACCACTTATAATCTACCCTACTGGCTATTTC
TTCAAACTAATTAGAATCTACTTGCTTGTTGCCAGCTCCACCCCATGAGCCCTGGTATAAACCATCCGCCTCCTAATGGCTGCCATTTGCATGG
GTGATGCCTGTCTCAAGCAGGTATTGCTAACTGATTACAAATTTAGGGTTTGCTCTATCATTTTTTTTGTTAGATAGCATTTATCTTTTTGTAC
TTTTCAAAGTAGTTTTCTCTTCTTCACACTCACTAAAAAATATTTCAGACTAGTTTAAATGTTTCTAATCTAAAAACACAAAGTCAAAAAATGC
TCTGAAAGAACCAGGGGAAAATGAATGGGGGTGGGTGGGGGGGTAAAGTACTTGTCATACAAGCATGAAGAGCTTGAGTCCCCAGAACCCACAC
GACAGCTCAATGCAGTATAGTAGTGCAAGGCTCTATAATCTCATTGCTCCTGTACAGAAATGGGAGGTAGGCACTGGAGACTCCCTGGAAATTT
ACCTGTGGTCCTGAGCGTGTCAGCTGAGTGCAGTTCTGGATCCTCTTCTCATCCGGGAGCCACGCATCACTCCTGCCATGATTTACTGTGATAT
TTGAACGGTGCTTGTCACCAACCAGCAGAAGTGTTGCATGCCAGCTCTCGTGTCCGCTAGACCTCGCTCCCCCACTGCTAACTGACTGGGCTCA
TCCTCCATCTCCTGCTCTGTCCTGAAATGGCTCATCTGTCCAAGGGACCTGATTCCTTAGCAGAGTCGCTTTTCCTAGGTTTTCCTGAGGCTCC
ATCATTGATCTTTTTTGTTGTTGTTGTTTTTAAGTCTTGAGTTCAGAGCCTATTTCACACATCTCATTGTTGCCATCATCACAGACTCTCCTTC
CCTCCCCATCCTAGGTTTGTATCTCCTTTTCCCAATAAAATGCAAACCCTCATTGCCAATAACACTAGAAGTGCCTACTCAGTTGATTGGTCCT
ACAATACTTCCAAACACATGGGGAGATAGTATGGTTTCAGGATGACGACGCCAGTATCAGCCCTAGCAACTTAACAAAGAGTTGCGTTTTCTTT
TTATTTCTTTAACCAAAATTCAGCAGGGAATAATCAACCAGAATAGCGTTTTCATGGGTTACATTCTTTTCCTTCTAGGAAACTGCGTTACCAT
TGAACTATAGGGTTAGAATACTTTGTTTATGATGAATCTTAAGAGTTTTCCTATTCCTGCTGATTTTGTTTTATTTTTGAATGGTGGCATGTAT
CGGCCTCAATTACCTTCCATTTGTGTGAGATAAACTGGACGATTTGGGAACTATCATAAAGTCGGTTTGCTTTATTACCTTTTAATCAGAGAGA
GGAACAAAGAGTTCTGGGATGGTTATTCTGGAATGTGAACCCAGTAAGCTCACGTTGTCACATGGGGTGTTCCATTTCTATATTTGGAGCCCTC
TTAGTCTTCCTCACAGTCACAGAGTACACACATATATGGTTCTCGCACATAGGCTTGGTGCTGGCTCTGCGGTCACAGACACGAATGAGTTTAT
TCCTCTGCCCCGAGGTTACAGAGAGTAGCCAAGCAGCAGACACGTATGAGATGATACTGGGGTGTTTCCTTGGAATTTGGGGAGGATGCTCTGC
AGTGGGGTGCATATGTGTATGTGTGTGTATGTTCCTGAAGTGGGTGGCCTTCCCTGAATGCATTCCTACTGTGTAGTCATTCCAAACTTCTGAT
GGTGGAATGCCAGGATCACAGAGCACTTTTCATACTGGATGTCAGAGGCATGGCCCCTTCACAACACACGTGCTTCACTGTCAGAGCGGTGGGC
CTGTCACACTGCGTGTGCCTCAGAGATAACATAATCTTCCAAGCTGGTGATGTCATCCTGGAGAGACAGAGCCAACGATGAGCCCCAGGGGATT
GTTCCTAACCATTTTAACAAGTCTCAGCCCTAAAGTCTTTATGGTTCTTATCAAGTTTTTTGACAAGAAGTGGTAGATAACAAATACTTTAAAT
TCAAATTAATCTTGAAAACTGGAGCGAAGTGCCAAACTCTTCAGCCTTGATGTTGAACAGAGACACACACATCCAGAAAAAAAACAATGAATCC
ACAAAAGTACAGAGCAGAGGGGTGAGTCAGCAGCAGTACATGCGGAGAGAGTAGAGTTGACGTGCCTAGCAAGAGCTAGCAAGGCCTGCAGCTG
CCAAAGAAGTCGCTCCTCACTAGGCAACAGTAATGGAAATATGATGTATAAGAGCCAAGAGGTGATAGTCTCATGGCCACCCTGCAGGAAGATC
ACACTAGATGCGTGCAGCCTGCTGGGCAGAGCACAGTAGTCGGCTGTGGGCGGGGCGGGGCCAGATCAGGATGGTTGTGTGACCACACTGGAAT
GGCTTACAGGATGGTCCTGGCTGTCCTCGGTGTTTGAATAGCTATTATAAGAAAATGGAAATGGACCCCACCATCACAAGACAGGGGAAAGAGG
GAGCGGTGAGCTGAAGTCCCAGAAGACACCAGCTTCGTGGGAATCACAGCCACCACAGGACGGGGTGACTTTGTCGTCACTGCTCTGAACTAAC
CTGAAAGACGGTAGAGGAAGAAAGGGAGGCTGCGTGGGCTTCAGCTTCACAGCCTCGGAGTCTCTGGCTCTCCATCCCTGTTTTATATGGCATT
AGACAGAGTTTTGCTTAGTAAATCATACCTTTGTAACAAGGGCTGATCAAGATTTGGGTACAAGGAAGTTATAATTTCATAATTTCATGATAGA
TAAGAAAATATAACAATAGATGCTAGTGACTTGCTGGCCATTTTCTCCATGGGTCAAAGTGCATGACTTATTTTTTTACACTAGTATGTCAGTT
TATTAACACAGGCCGAACAGTTTAGTCACAGCTTGAAAGGGTTTGGTTTGGTTTGGTCCTGAAAGACCAGGTACAGAGTGATACCAGATTTTTC
CAACAACTTGCTGGCATTATCCTAGAAATCAGTAGAAGTTTTGGTGTTTACCCCTCCATGCCTTGGTCTACATCATGCTATGCAGATGGCACAC
TGCTTTGGTTAACCTCAGTCTGACACGCAGATCGTGAGTTCTCTTCTGCCATGCTCCTGTCTGGGGGCGTGATGTGACCGATGAAGTGTCACCA
AGAAATAAGACAAAATTTCCCAGGTCTACTCACTGGCAATTCTCTTTATTTAGTAGGGGTTTTCCACAGGAAATTGCAGGAGAAGAGTTGAAGT
GCTCTTTGTCTTGTGTACTTTCCTCTGACTTTTCTCCTTCCCAGAGTGGCCCACATTGCCTTGTAAAGGAGCTGTGTTGACCATGATACTGATC
AAAGTCAGAGTGCGTTCTGCCAGTCAGCTAAAGCCTGATTGCTCCTCTGCAGTGGACTTCTGTAGTTAAACTCTGTTTTCCAAACATGAAAACA
CATAAACAAGGACTGGAGATATGGCTCAGCAGCTAAGATCACATACTTCTTCTGCAGAAGACCCAGGTTCCGTTCTAAGCACCCACATCGGGCA
ACTCACAACTGCCTATAACTCCAGCTCCAGGGGACCCAACACACTCCTCTGGCCTCTATGTGCACCTGCACTCATGGGCACATATTCACACATA
TATACATAATTTAAAATAAAAATCTTTTAAAAATTAAGGAACATATACCCAGAGAGTAAGTATTTGTCTCTAAGAAGAAATAAATCGGTGATAT
TAATCTGAAACAAATTTGGACATCACAGAATCAAAAATATTTCTGATTATCCTAAATTAAGATCAAAATCATTTTAAGGGAATTCTGGAGAGGT
GGCTCATTGGCTAAGCTCTTCTCTGCTCTTGCAAAAGACCCAGGTTTAGCACCCAGGACCCACATGGCAGCTTGGCAACTCACAGCCATCTGTT
GTCCCAGTGCCAGGAGACCTGACACCCTCTTCTGGCCTCTGCAAGCACCTGCACACACATGGTGCACGTATTTCAGGGAAAACAATTATAGACA
TAAAATTCAAATTAATTTTAAAATGTCATTGTAAGATCATGCTAGATAAATTTTGTATAAATCATGTCTGTTTTCAGACAGGGATTCTGTACAA
ATCTAACATGCATTTTAGACGACTTAGTTTTGAAGTTTACACAAACTTTTTTTTAAAACTTTGCTTAAAATAGCTAATTATGACTTCATTTGCCT
GTTTTGGCCCTGCCCCCCATGGCCAAAGCCTGCTGACATCCCCAGGACCAATAGTCCCCTTATTCTCAGTACTATAATAAGTACTGAGCTCCCAG
GGCAGAGCCTGCACTGCAGTCACTGAAAAGCACTGTGTTGAGTACCCAGACCCAGCCTGGATGGGAAAAGTTAATATCATTGCCTAACATGAAG

GTTTTCTTTGTCTCTAAATTTTGATTTTTCCATGCTATCAGAGGCCCCCTTGCAACAGGTAATCTGAGTGTTGTCTGTTTTCTCCGTCCGTCAT
CGTGGTTAAGTGTATTTTAGATGCTCACAATTGTAAAGCTAAATTGACTTGACAAGGTTCTTTCCGACCCAAATTCTGTGATGTCCGACTCTTT
TTTTCTTCTTTTATTTTGGATTTGTGATTGTTGACCATTGTCCTGTATGTCTTACATATATACTTTAGGGAACCATAAGCATTTTAGAGCTGGA
AGCCATGCTAGCTGTGGGCTAGGACTAGACATTTTGCAAAGAAAGCATTAGGAGACCAAAGTGGTTAGTGATTCAAACAAATTCATAGCAGTAG
CTAAAGACTAAAATTCTGACCATCTTCAGAGGACTAAAAATAATCAAAGTGTTATCTGAAAATTTGTAACTCCAAGCCAGGTATATATATATAT
ATATATATATATATATATATATATATATATGTATGTATATATATTTACCCCAAACAAATTAAAGCTTCCTATAATTCTGTACTCATATATGTATAT
GGGGTGTGTGTGTGGAGAGAGAGAGAGACAGGGAAAGAGAAGGGGAATTAAATATTTTTGATAAACGTAAGCTTTGATAAGATCTGCCTGACAC
AAAATACAAAATGCATTTGGTATAAACAGCATCATTCTCCCTTTATACCAAAAACGGAAATTTCTTCGCATTCTATACATTTGAGAATGACACG
TCGGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNN

NNNN

TGCAATGCAAACTTCAGGGCCTGAGTTCTGAGCTCCAGCGCCCACATGAAAATCCAGGTGTTAAAAAAACCAAACTGATAAATAAAATAAAACC
GGGAAAGGGCAGAGCACAGCGGTGCATGCCTTTAATCCTAGCACTCAGGAGGCAGAGTCTAAGGCCAGCCTGGTCTACAGAGTGAGTTCCAGGA
CCGCCAGGGCTACACAGAGAGAGTCTGTCTCACTGCCCCCCAAAGCCAGGTGTAGTGATGCACCTGGAACCCCAATGTCTGGCCACAGGGATGG
AGCAGATCCGCGGGGCTCACAAGCCAGTCAGAAAGCACGGCCCAGTCCATGACCCTGTCTCAAAAACCCGAGAAGTGACTGAGGAAAATTCCCT
GCCTGTGTTCTCTGTGGTGCATGCAGATACATTGTTGTTAATTTTATTTAATTGTGTACATCATCATTCAGAGTTCTCCAGTCTTAGATCAAGT
AGTGTCTGGGAAGACCCCAGTGAATGTGTGCTTTTTTTAGGAGATTGCTTAGCCAGCCTTGATGAAGTCTGACTCTGTTGCCCTGCAATCTTGG
GAGGTTCAGCTTTCAAAGTCCCAGGCATCATTTCTTCATTTGACGACGAAGATGCTCAAGTGTGAGAAGCTCCCAGAGAGAGGGCCCTTCCCTT
TAAGTCATTCATCTCTGGTGCTTTTTGACGTTAGGGAGAAAAGTATCCGAATTGGAGGAAGCTGAAGTTAGTTCTCGTGGACTTCAGCTTGTCT
CGGCATCTCCTGGCTGCCCTGCTTCTCAATCTGCCGAAACTGACATGCAGGGTGACTGTCAGTTTTAGACAACTGATCGGTTAGTGTATTCCCT
GATTGATTGGCCACATCATAGCCAATCGTTTTGAAGCATTTCCGTTCTTTTCGTCTTGCTTAATCTGTCTTACAATCATATGTTCTTAAGGAAA
TCACAGGTGAACTTTTCTATCAGTATTTCTGTCAGTAATATTTATTATTATAAAACTTGCAGAGTGTTGCTTCTCTGTTGGGTTTAATAATCTT
TCATGATTTAGAAGAAACTAATGGTGGCTGTGTCTGCTGCTCTGAGGTAGACACAAGGCCTTGGGTTGCTCTCCCCTGCAGCACTACCGCCACT
AAAAACACTAATGGCTGTTTATGCTGGAGCCTAGGTTGCAGCGATGGAGGTAAATTCAGTACCTGTAAGCAGAGCGGAGAGGTCCGTCGGTGTC
TTTTAGTGTAGTGGGGCACGCGGCTCTAGAGTTGGGAGTGTGCATTACTCATGATTTAGCAAACATTTTCGACATCCGATTCCTGACTAGGCTC
CCTGTGGTTTGATCTAGTCATAGCTGGGTGGGATTTTCTAAGGTGAGGAAACTTTCTCGGAGAGATGCAGTCGAGGAGATGCCGCCTGAGTGAT
AGGGGGTAACCACAGTAGCTTTTCCCACCCAAGAATCTCTCACTGTAGAATGTCTGCAGTCGCTTTCCCGGTTGGCATTTAGCTGAGAGAATTC
TGCTCATGGTATTTTCCCCAGACACCATTTTCTTCGTGATTCCCTTGTCTCTGTGTCTCTGAGTTTCTAACACGGTCCTACACCTTTTGCCTTT
TCTTCTGTTTCTCTTGGATGGAAAAGCAGCGTGCTAGCAGCCGGGAAGTCAGAGCTCCTGTATGCTTCTGTCACTCTGCACGGCAGAAGGGATG
GAGGCCAAGTTGCATGACTTTCTAAAGACTTGAATTCCTTTCCTTACAAAATCAGAAAGACACAGGCTCTGTCTATCTCCAGGCACTCAGTGTT
TAACCCTCTAGACCAAGCCCACATTAGCTAATGTTATAAAACAGCAGGAGGAAACTTGCCACTATCTCCTCATGGTATGACATCGGTTATTTTA
TTTAGTTCTGACTTGTAGGCCAGAAGTTTAGGAAGGCAGCCAAAGGTGTTTCTTAGACTTGTCAATACTAGAAATAGAACCAAGATAACATTTT
CCAATACTACAGATTAGACTGAATATAGATTCACAAACAAGGCACCAGTCCAAACTATCAACATATGTAAAAATGACCCCAAGAAGACCAAGCT
TTGAACACATCAAAACCAAACGGACCCCCTTTGTTTACAGTGTCTTTCACACTTTCTTCTCTGTTTGAATTCTTAATAAGTTTAGTTTCTATTT
TTCCAAATTATTTTATCAGTATTAGAACTATCATCTCTTGGGGTTTGATTATGGATTTGATTGTTTTAATATAGGGTCATTAACTTCAGTTAGC
TTTCATTAGACCTCTTGTCTCTTATGCACTTAGTTAGACTTCACTGCCTTTCTTAATAAAAAAAAGAAGAAGAATCCTGTTTAGTATTCTATTT
TGACCAGAATGTTAATATTTTTAGCAACACTCTAGTTCTCTGAAATTTTTTGTTCAGTGGAAAATGTCTGTGCATTTCTACTTTGCTGTCGGCC
ACGTCCACCAAAAGTCACCACACCCTGTTTGCTTACTGGCAACCTGGGTTGAAAGAGATGTACAGTTCTTTTTATTTCCCCCTCCCAACTAATT
TATGTAGCTTATTGCAGTTGGTAAGCAGGAGAGCAGAGATTCTCAACCTGTCGGTTGCAACCCCTTTGGGCGTCAAATGGTCTTTTCACAGAGC
ATGCCTATGGAGATTTATATTAAGCTTTATAACAGTGGCAAAATTACAGTTATGAAGCAGCAATGGAATAATTTTATGGTTGGAGGTCACCACA
GCATGAGGAACTGTTAAAGTGTTGAAGCATGAGGAAGGCTGAGAGCCACTGCCCTGGATGATAGTAGATATGAGAACACACAGGAGAGCCTTTG
GGCTCCCTCAGGAGAACTGCTACCTTAAATTACTGCTGGACAGATCCAGTGTAATTGTGTAGCTAAACACTAGCCCACAGGAGAGGCACTGCCT
AGAGAAGGTTGGACAAATATGGACTTAGGTTCAAGGTGTGCCGTACCAAGTTGGTGTATGCACTGTGAGACGAGAGCTGCTTTTGAACACTGAA
ATCAAGGTCTGAAACAACAAAGGCCAAAGAGGGGCCACTGTGAGCCCCAACCCAGTGTTAGACACATCAAAATTTGAGCAACAGCTTCCAAATG
ATGATGAAGATGAAACATCTGACCTACTTCAGCATGTTTATTGATGGCTACAGGTTTGAGTCAGCCTGGGTCACTTCATAGAAAACTGATGCCA
GCCTCCATCCCATAGAGTGGGATTTCACAGAGCAGTGAAAAGCCAGGCCCTCCAGCCTCAGCATTCCTCTTGAGTTAATGGAAAGGTTTGTTTG
AAAAGTCCTGATTCCGTAGGGTTGGATGGAGCCCCAGATTTTTAGTAAATTCTAAAACAACACTGATGTTGCTAGTTAAAGACTCCCATGTTGT
GAATATGAGAGGAAGAAGCAAGGTTGTGGTTTCAGCCCTTTTATTAGTGGTTGTAGCCTTTCTGTTTTTAAAATGTCATTGCTGCAACACTCCT
CCTCTCCAGTGTTCATTTCTGTGAATTTTGATAATCATGTGGCTACTCCTGATCTGAGGCTGATGAGTTCTCTTTGGTTTTATGTCTGAAAGTC
GTCCCTTCATCTTCTCTGTTCAAAGGTGTTTTTTGAAGAGCAGAGGATTCTAAGTTGACAATATGTACTTTCATGTGCTGGTTTTATGTTGATT
CACCGTCTCAGGTCTTGACCTGTTTCCAGCAAGAGCTCTCTGTAGGTCTGCCTCGGCTCTACTGTTCCCAGAGTGTGATTGTTTCTCTAGCAGC
GTCTTGACTTCTCTTTAGCACTCGTAAGCAGTGTGAGTTTTGATGGGTTTGAGGGTAGCTTTCTTTTTAAGCTTGAGCTTCTTAGTCGTCATAG
ATCCTTGGATTTACATTTCTTATTAAATCTTAAAGCTTTTCAACTGTTAAGTTTTCTGTCACTGTCACTGCCCCTGCTCCCCATTCCTGTTCTC
TGTCACTTTCTCTCTTCCAGACTAGGGTTGAGTTGGCACAGTGACTAAGAGAATACCTTCTGAATAGTCAATCTGATGCCTCATGTATTCCGAG
GCTTCCTGTTTATGAGAATAGTAGCTCTTTCCCTTAGCCTAACAGGGCTTTCTCACAAATGTTTCCTTTGGATTTTTGAAAATCTGTGATGCTC
TGGATATAAATCCTAATCTTCTTAACCTCAAGTCTTTGCAACTGCAGAGCCCTAGCTGGCTGCCTGGGTTCTCCTTCCCATCCTGCAACCTAAG
CATTAAGCCAGGTAATTGTAAGAGTACCTTTCTATTTTTTTTTCTCGGATGACTGTTGTGTGTCACCTATCTCCAGAGCATGACAATCGTTTTC
TCGTGTGTTTTGGCTATTTAATTCTAGAGGAACCGTCTAGGTCTATATTACTCCACCATGGCCTGTGGTGGAACACTGGTGTGTTGTTTACTAG
GGTAAACCCTTCCTTCATGATTCATATAATAAATAAGCATGATGCCTTTCTCCAGATGTGAAGCTGGGTTACGTGTAAGAAGTGCAGCCGAGGT
GATGGTCACTGATGTTCCCAGGAGATGAGCCTGGGCTCCTAGCGGGGGAGCAGTCTGCACAAGAGTGAGACCCAAAAGGGCAGACACAAGATCT
GTTAGACACAAGGACCTCCAAGCACATTAGCAGGTTGGGTGCATAATGTTTGTGATGCTCCCTCCGTTCAAGCTTTCCTGTGGTCAGCAGGCAC
CTGCTGAGGACCCACATGTCAGCCTGCATTCTAAGACCTGGGGATCTCTGTCCTGAAGGAGCTGTGGAAACACAGCATGTTGACTTCTCTGTGT
CCCTGTAACTCACTCCACATCTGGCCTTCTGTGTGTGTCTGTTTCCTTCTGCCTTCACCTCTTCTCCTCCCTTTCTCCAGTTTATATGACCTTT
GCACAGTAGCTTGTTCTCATGTGTGCAGGCAAGTTGTCAGATCTCTTTTATTGTCATTTTATATTACATTTACCGTGTGTGTGTGTGTGTGTGT
GTGTGTGTGTGTGTGTATGTGTATTTCTGCTTGTCGGGGGAGGCTATCTGTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT
CTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTCAGTGTCAAAGCCCAGAACAACTTGTGGAAGCCGCTTCTCTTCCCC
TCCTATGTGGGTTCTAGGGATTGAACTCATGTCACCAAGCTTGGCAGCTAGTGTTCTTACTGACTTAGCCATCTCACTGACCTGTATCATTTTC
TTCCTTCTACTAATATTTATTTTACTTTTAGAGTAAAAGTCCTTACAAACATCTATATGGCTCTGAGAGACCCAGGCCCTGCACTTTTCTCTTT
GAGTTCATCTGTCCCCTCTGACTCTGCTCCTTACCCTCAGCCCATGTGCCACCTTTCTGCCACTGTCAAAAACAGCAGAGTGGCCCTGCCATGC
GGTCTTCACATTCACCAGAGTGGTCCTGCCATGAGGTCCTCACACTCACCTGTCTGCAGCTCTGATACTTAGAATCCACTTCTTCTGACCTCCC
TCAGGACTGGCTCAGCTGTGATCTCAGGGTCCTGTCTGGGTTCTCCCTGTCTGGCTCTCCTACCCTCTCACCCCTCCCAGGCCTGTCTTCTTTT
TCTTGTTTACATGTATTTCTCTTTTAAGTTACACTGTGAAATCTATCATCGTGTACGCTAGCATGTGCATTGTGTGAGAGCACAGTGAAGCCAC
ACAAGCCTTCCCTAGTAAAGCATACGTACAAGGGCACCCGTACTCTGTGACTCCTGAGTTGACATCTAATATGTTCTGAGACGTAAGGTGATTC
AAGTTTTCCTCCAACTCTTTTAGTAACCCAGTTTAACCTGGTCTGACAAATCCACTTCTGTGATGAGTCTGGTTAGAGGCCTCTCTGCAGAAAT
GTCAATGAGCTGAGTCCATGGTGCACCCCAGCCCTGCCAACAGTGTCTAGTGACGTACAGCATATGCCATATATCACCCTCATAAAGTCCCAAA
TTCTGATGTTCATCTGACTTTGGTCTGTGTAAGATGCTGAGTGCTTGTGTACTTTTTTCGGTGTGCTGTCTGCTGACCTGAAGCCCGCCCCCCG
GCCATGACCTGCCTGACTTCTGCTCTCACTGTTTTTCTCCAGCTTTGCAAACCTGGGAATACTTCATGTGACTAAGAAAAAGTATTTGAAACA
CTGGAAGCACGGATGACAGAGGCGTGTATTAGGGGCTATAATCCTGGACTTCTGGTGCATTCTGACCTTGCCTATCTACAAGCAGAAGGCGGAG
GAGACCGGCAACTCACAGGTGAGCCAGCTGACCCAGCCTTAATTAAGGCTTCTATGTTCCAGGATGACTGCAGCCATCAGCGTGCCAGGCTATC
AGAGGGAAGGGGATCAGTGCAGCCCGGTCTTTCCTTTCTGTGCTGGGCACCGTGGAGAAGCGGAGCCCACACACAAAGACTCTGCATGCTTGTT
CTCACCTATGTCTGCGCAGCCGGCGGTGCAGAGACGTGCATTTCCCTGTACTCCTCGCATTCTATGTGTGCCTTAACTCTTAGCAAGCGTAGGA
GAGTAGATGGGTGAGCATGGGAGAAGACAATATTTACAATACTCCAGAGAAAACGCAGCTTACCTTTGATGGGTTTTTAGGCAATTTAATAAGA
CCATTGTGTAAAATTTTACTAACAGTTTAAAGAATTTCAGGCCAAAGTAACCAAAAGAAAAAAGAAGACTCAGTTATTAAAATTAAAGGTGAAA
ATCAGGGAAACATTACCAGAGGTAATGGTCAAATCCAAAGAATCATTAGGGCTTTGAAAATATGTATTACAGCAAATTAGAATATCTCACAGAA

ATGGGTAAGTTCACAGGTACATCTGACCTGCCAGTGTTAAACTAAGAAGATAGAAACAACTTACACAGACCTAAGACAAGCAATAAAATATCTC
CCAACTGAAAAATACCCGGTCCTAAATGGAATCATGGCTGAATTCTGTCAGATATTTGAAGAGATAACGTAAATCCTCCTTAAACTGTTCCATA
AAGTAGAAAGGGGAAGAATATCAACAAACTTATTTTCCAAAGCCAGCATTACTTTTATACCCAAACCAGGTAAAAGAAGAAAAGAAAAGAAAAG
AAAAGAAAAGAAAAGAAAAGAAAAGAAAAGAAAAGAGAAAAGGAAGGAAAGGATAAGCCGATTCATACATTCCCAATAAAATAATAGAATGAAA
TGAAAAATATACAAACGGGAAAGGAAGAGATGAAAGAGCCCTATCCACAGACAATATTGTCCCACACACAAGAGCCCAGGGCTGCACTGGAGAG
GCTTAGCTCTGATTGAGGATCAGCCCTGCGTCATCACCACACAGACCCCGTGGTTTTCCTATATCGATAGTGAGTGTGTCGAGAAAGAAGTCAG
CAAACGCGACGGCCGAGCACAGTCACAGGCATCCCCGATAGCTTCAACATGAGCAAATAAAACTCCTGGCAATAAACTAACCATGTGAAAAGTC
CTTTACAGTGAACATGTTAAGACACGGAAGAAGAAAGAGATGTCAATCAATGATGGAAAGGCCTCCCATGTTCCTGGGAGTTAACAGAGTTACT
ACCACAAAAATATGGCCAAGTGTGGTCTGTAGATTGAATGCAATCCACAATGCCAATACCGTTCCTCCTAGAAAATAAAGTTCACTTGGGACGA
CAAAAGGTCTCAGGTAGCCAAAGCTATAGGATAGTAAGAATATTTCAGAGGTATCACAGCTGCTGATATCAGAGGTATCATAGCTGCTGATTCC
AGGTCACACTACAGAGCCATGGTAACAAAAAAAGCATGGAAGTGGGGTCAAAACAGACGTGTAAATCAGCAGAAGAGGAGAGTCAGAAAGGAAC
ACAATGTAGCCACCTGATACCCGAGAAAGATGCCAAAATGTGCATTAGAGAAAAGACGGGCTGGAGAAGAAGTGATGCCGGTGGGGAACCGGCT
AGCACATATAAGGAAGGGAACCAGATCCCAGGCTCCTACCCTACCAACCAATTCAACACGGAGCAGAGATCTTAATGGAAAAGGTAATGGTCTG
AAACAGCTAAAGGAAAACATGCAGAAAACGCTTCGTGATGTAGGCAAGCCCTTTCCGAAAAGGGCTCCAGCAACTCAGGAAATAAAATGGAGAA
CTAGCAACTGAGATTCAAAGGCGTCACAGCAGAGGAAACAGTTTCCTGAGTTGCAGAGACGACAGCCTTCAGTGGGGGAAAGAATTGTTGCTAG
CTATGTAGCTGACAGATTAGTATCTAGGTTCTATAAAAACTCAAAAAAAATTAAATTCTGGAAACAAACAACCCAGTAAATAAATGCGCTCAGA
AGAAAGAGAGGGTTCTCCAACAATGAGTGCAAACAGCCAACAAATGTGAAAGCATGCTTCACACCCTTAGTCTTTAAAGTTCCTCTGAGGTCCC
ACCTCACCCTGGTCAGAAGTCATTAAGAAAACAAGTCCAGGAGCCTGCCAAGTAGCTCAGGTGGTACAGTACTTACCTCTTGTGTAAGAAGTCC
TGGGTTTGATTCCCAGCACTCCCTACAAACGGCTGCACTCCCAGATGAGTTCAAGGTCGTCCCCAGATGTGTGTAGCAGATGTCTTAGCAGGTA
ACCCATACAAAGCCTGCTGCCCTGAATTCAGTCTCCAGGACCCACATGGTAGAAGGAGAGAACCCCTCCCCTCAGGTGGTCCTCTACCCTAAAC
ACACGTGTGTTATGACCAACAAATGCAAGAATGTAAATAAGAAAATCAAAATGGAGATTTAGAATAACATGAAGTAAAACTGCATAGACACAGC
TATCCACTCCTGCGGATATTTACAAAACTCTAACTCCACGTACTATAACATACATATTTCCCTGCACATATGTGTTTATTTCAGCCATATTCAA
GAGCTACATCAAACAACCACCGTAGCTCTCCATTAGCAGATGATGGATTAAGAAAGCATGATATACATGAGTAATGGAGTTTTTTTTTCAGCCA
TTAAAAAAAAAAAAAAGAAAAAAGAAAGAAGGGCTGGAGAGATGGCTCAGCAGTTAAGAGCACTGACTGCTCTTCCAGAGGTCCTGAGTTCAAAT
CCCAGCAACCACATGGTGGCTCACAACCATCTGTCATGGAACTCGATACCCTCTTCTCTTGTGTCTGAAGACAGCTATAGTCTACTCACATACA
TAAAATAAAAATAAATCTTTATTTTTAAAAAAGAAGGGAAGAAAAAGAAAAGAAACATTTGCAGGGCAGTGTATGCAACTGGAGATCTCTGTAT
CAAGAGAAATAAGCCAGAACAAAGAAGATGAACATCACCTACCGTCTCTCTCGGTTCTAGATCCTAGGTTTTATATAGATGTACATAAGATATT
TTGCATATGCGTGCATAGGATATGAAAGTAAGAGGAAGGTACTCCGTTGGTAGGGAGGGGACGAGTGGATATGAGGAGGGGAGAAGGGGCCTTA
GGTACGGTCACAGTGCTTGTTCTAGGATGAAAATGTTTTCAGGGAGTTATCCCGATGAGCACTGAGTATATGCCAAGAAAGACTTTAAGGAAGT
GTTTCTAGAGGAAAAGAATTGGTCTTTGAGGCCATTTGCTGTCAAATGTTCACACTCTGACCTGCCTGGGCATGAGCAGACTGTTCTCTGTGAC
GCTAGACAGAGAGAAGGAGATCATCCGCCAGGCAGCCGTGCAGCAGACCAAGGAGATGGACCTGAGCGTGGTGCGCCTCATGTTCACAGCCTTC
CTCCCTGACAGCACTGGCAGCTTCACTCGGAGACTGGAGCCTGTGGTGTCAGACGCCATCTATGATAGCAGTGAGTACTCGTTCCCAAGATGGG
ACAGTTTCATCTAGCTGCATGGAGGGCAGGGCCACCATGTCACTTACTCCCCAGAGCTGAGGCCTGCAGACTGGGACCTAGTCACATAGAGCCT
CTAGTTTATTGTCTACAAAGTTAATACTGCAGTCTAGGGTAAAGGGTCAATATCCAGTTAAGCGTCTTAAGAACATGTCTGCCAAGGTAACACG
TCTTCCTCAGAGAGTGCATTATATTCCTTACATGTAACACCAGTTTCTTACTATGAACACATGACTGTAAGGATAGATTGCTGGTGCTCTAAAA
AAAATTACCTTAATTTTGCACCTGGCAGCACGGAAGAAAAATTGATAGAAGACAAGTATCCCTCTTGTCTCTCTTTATCCCCAGTTTGAAATA
CATTTATTAAGACAGGAACGTCAAGGTAACTAAATAAATGAATAGTATGTCAAAATCATCTTTCAGGCTGCAGATAATAGAATGTGCAGGGTTT
CCAGTAGCTTGTAGAATTTACTGTGTGGCTCTATTGTTCGATATGCATTGGGCTTAACAAACAGTTGTTTCAGGAACCCTGCAAGCCTCATAAG
ATGGTCATAGAATACGATGCACAAGGAAATCCCATGTTCTGCATCCAGCCACGCATGGGTCTGTCTGATTTAAACAAGTGTGAAGGGAAGTGAA
AAGTTTATTGAATGGAAAAGAGTCTTACTGAACAGAGATGAGCTACAGCTGTTGGAGTTTTTAAAGGGGGAAGCTTTGCCCCACTCACCACTAT
GGGCAGCTTTGCCCCAAACCACACAGAATGCTAATTTAGGTTGGGGGAAAAAAAACCAGAACATCTTCACTTTTCTTTGAAGAATATGTGTGTG
TGTGTGTGTGTGTGTAAATGTGTGTGTATATATATATATATATATATATATATATTAGCTTAAAATGTCATTTTCTTAAAATTT
TTAAGAATTTTACAAATGACATAAAGTTAGCATGAAACAAGCCATTGGTCCAGAAACATCAGACAGCTCTCTCCTTCCTCATCAGCCTGTGTGT
TAGAGAAGCCATATGCCACCATCCCTCCCTGACCTGCTCCTTTCTGGGGAACCATGAGTGCCCCAGACCCAAGAACTGCTCCTAGTACCTTGGA
AGTCTTTCTTGCTCTATTTGTGTCTTGTTAAAGGCAGTAAGAGTGAGCACCATCATGGAATCTTTGTGAGGCTAATGCTAAGCCAGGGTATGCA
TTCTCTTCTCCCTTTGAACAGAAGCCCCGAATGCATCCAACCTGAAAATCGTGAGAATGGACAGAACAGCAGGATGTGTGACGGGAGGGGAGGA
GATTTACCTTCTCTGTGACAAGGTTCAGAAAGGTACGTACACACCTGGTCTCTAGATGTAGGGTGTGGCTGTCAGAGTTCTCTGGAAACAGCGG
ACCAGGGGTGTTCTCCTTTGCTGTGGGAGTCTCAAAAAGACAGCGTTCTTCAACACCATTACACGCATTGCAATCACATGCTTGAATACGCCC
GTTTGCAGATGACATCCAGATTCGGTTTTATGAAGAGGAAGAAAATGGCGGAGTTTGGGAAGGATTTGGGGACTTTTCCCCCACGGATGTTCAT
AGACAGGTAGGTGGGTTATTATTGCGGGTTTTATTTTAATGCACTTCTGCCTTGGTGAAATTCAGTGCTCAGTTTCCACATATTAACAAAGAAA
CCGTCATAAGTCTCTTTGACATCCATACAGCAATGCTATGTTTATGGCTCTTCCAGTACTCTGACATAGAGGCTGAGAAGTCTAAAGGGCTGAA
GCTGATGCTGTCCTGATGAGCTGGTGTCTCTGGCTGATTGGTTACATGACCAGGGTCTCCCAGCTGATGACATGAGCCACCACAGTAATAGTCA
CTCTTTGACAGTGACTGAGAAATGGTGTTTCAAATAATTGGCAACAACCCAAATGTTAGCCAGTAAATGACTAATTAGATAGTGGTGTATCTAT
GTAATGGAACATCATACAGTTACTAGAAAAGAAGGCTCTGTGAATGAACAAAGACCTCAAAATAGAATGCAAAGATTTGTAACAATCGATATGG
AACACACTGTATGTAGAAACAATTCTATGTAGAAACAATTCTGTGTTCACGTGCACAGGAAGCCTGAGACAATAACAACATCAGCTCCCTCTAG
GATCTCAAGTTAGTGCATGAGTGGGAAGCGGGGAGGCAGGGAGAACTGTCAGCATATGCTACCTATTGCTCATCCTATATTTGATGACATCTTG
ATCCTTATAAACATAGAAAGACCGAAACTAAGTCTGTCCAGTTCCTTATTATCCCAGCACTGCCCAGGACTAGCATGTGACACCTCCTGCGCAG
CCTCACTTAGCATGACTGTCTGCGGGCTGTCAGGGGCAGCCCTGGTTCTGTCTGCTTCCACATCCACTCCTTCTCTTGCTGCTGGCAGTGATCC
TGGATGTTTTCAAGGCTAATCTGAAAGAGAAATGGCTGAGTCGCGTGATCCGCCATCATGCTGTTGTGTTTACTTTCACGGGGGCAGTATAAG
TGTGGGTATAAGGTACTAACTGGGAACTTTCTCCAGGTGCTGGGTTTGCACACACTTTATTTAAGTTCAGAGTATACATAGACGTGTATAGAAT
GTGCCTGATGCTCACCGACACTAGAAAACAAATGTCCTACACTAATGTTTGGGTCTTTTGCACCCTGCAGTTTGCCATTGTCTTCAAAACGCCA
AAGTATAAGGATGTCAACATTACAAAGCCAGCTTCCGTGTTTGTTCAGCTTCGGAGGAAATCAGACCTGGAAACTAGTGAACCGAAACCCTTTC
TCTACTACCCTGAAATCAAAGGTACCTGGGTGGTTTAGACTCTTGTGCTTGCTCTGAAAGACCAGTGGGCCCCTCCTCTACTCAGCCTCCCAGA
AGCTGCTGCCTGGATGCCTGGATGCACGCTGCATAGTGTTAGGGGCAAGGAAGGTCATATGCCAAGGTCATGGAATTAGCCCCAGGAATTTATG
TTACTATATTGCTGCCAAACTTATATGAGACTTAGACATTTGGCTATTGTTGGGTATTAGAATCTAGTATGGAGCCAGCAAGATGGGTAAAAGC
ACTTGCTGTCAGGGCTGACCTGAGCCTGAGTCCCAAAGCTGTGTGCTGAAAGGAGAGACGTACCTGCCAGAAGATGTGGGTGGTCCTCCACCAG
GAGGGGGCTGGGCGGGGAAGAAAGGGAAAGTAAAAAAAAAAAAAAAAAAAGTAAGGATTTTTTCAGCTACTCAGAAGCCCTTAAGAATTAACCA
GAAGGCTTAGCCACTGTCCAGCCCAGAACTATAAAATGAGATGGTCACTATACTTTCCTCACAAAAGACACCTCAGGAAAGGTGCACTATAGTT
AAAATGCAGATTACGATTCTTTTTGACGTGCTAGACATCATATTCTCTGGGCCTTGTAGACACTAGGCAGCTGCTCTACCATTGAGCTGTAACC
CTGGTTCTCAAATGATAAGTACCCAAAGGGAAGCATCCACAAACTGTATGAAATAGTTGAGGAGACAGTCCTGGATTCCTTGGTCTAAAGAATC
AGCCAAAGAATTTCTCTTCAGTGGGAAGCCACTTACCACATTATGAAGGTGAATGGAAGTCAAGGCTCTGTTTATGAAAGAGAGATGTTCAGAG
GCAGAGGTGTGGCAGCTGGTGTTTGTCCTGGGAGAAATGATTACTGTGAATCTGTGTGGACTGAGGAAGGTTGATTTAGGCGAGGGAGGCCAGG
TCCACGCAGTGAAGCGTTTCTGTGGTAGCTGGAGGTTTTTGCTTTGACTCTGATGGCTAGGCCTGCCTGCTCACTGTCTGGAATGATGTGGTCA

GAATGTTGCTAGAATTCAGTGGTGCCTCAGCAGAGTTAGAAAGGGTTCTAGCAGCCAGAAGTTAGCATCCAGCAGATACTTCTATGTTGGTGCT
GTGGAGACCTGGACCTTGGGTGAAGAGAAAGGAAGAGAGACTCGAGAGTCTCAGATTGTTCTAGGGTTTCCAGACTAGAAGTGTATGTATGGAG
TGGTTAAGTGGATAAGAGGAACAAGAGAGAAGAGTCTGAGAATGAAAGAGAAGCTTAGTGTAAACATATTTCAGTTGGGGTCAAGTGCAGGAAG
GGGGCCAGTCAAAGGCATGACTCAAGTGGGTGGGGGCTCAGCACTGAAGAGAATCCCGGCCCCACAGAGTTTAAGTGTAGGGACGCACAGTGCT
GCCGTCAACCTCTCTGTACCTCTGTTTCGTAAGTTTTGTCTTGACGGCCATGGTTCTGAGAAGAGATCCATGAACTTGGAGGCTACACAAGGCC
TGGGATCTGATAAAATCAGAAATGTCTGGCTCAGAGAGAATGGGGCTGGAGAGGATGTCACCAGGTACAGGGTCCTAGGTCCAGGGCCACCAAG
GCCCCCAGGTATCGGTCCCTTGAAGGCAAAGCGTGATGGTGGCCAGGAGTTTCTGGGAGGCCATGTCTCTTTTTGAGGTATGGCCTCCCCATTC
CTGGGTCAGGCTTATGGTGAGCTCTGTGGCTGGCCTACTTCCTTCCTCACCAGCTTGAGGTCTTCTAGATCCTTCTGTCCAGACAAGGCAACAT
GAAATTACTGCTTTACCTGAAGCCTCTGCCCTCTGAAAACAGGAAAAAAAGATTATTTTTCTAAGAAAAAAAAAAAAAAAAAAACAGTGTATCT
CCTGAAATGTGCCTTTAAAAGAGCGTTGTCATTGCTGATGCAGAATCATGAGAAAAAGAAAAGAACTGCAGGTTCCCTGTGCAGGATGTGAGCC
TTGAAACGCTGAGAGTTTGGTTGCCAGGCAACCTCTCCTGCTAGTGTCTGCATCTGAAGAGTACAGTAGACAAGGCCCAGCTTCCTGGGCACTC
CACGCCAGCAGAGTGGGAGTTTTCTAATGCCTGGATTAGAGGATTGGGGTTCCCTGAAGTCCTGGTTACCTCACATCTTCTAGGTCATCATGAA
TACAAATGGTATACTTGAAATACAAATGAGGCTCCACCTACACACAGGATGGCTGAGGTACCTGTTGTGTTCCGTGTTTCTACACTGGAAACAT
TTTCTCTGTGAGATCCACAGTTCATCCACTGACTAAATGAATATAGCTATTGGTTTTGGTATAACTGGTGGGAAAACTTTATAAATATTTCTCC
GAGCCATCAGTTAGAAAGTAGACAGTCTCTTCACCTCAGCCTCACTCCTTTCTGGCCGAAAGCCGTTTTCTTCCTAATCATCCTGGTGTGCCCA
GGGTTGGTTTCCCAGGGACTGGCAAAGTCCACCATGCTCTCCTGCTTTCCCCATCAGCTGCAGTAGACAGTCCAACATAGTCCAAAAGTCCTTG
TGCCACACCGTGGGGTGATGGAAACACCCACAGAACTAGAGAAGTAGGGATCTTTCTGAACATAGACCATGATGAAAGCCAGCATTAATCAGTC
AGACACAGGACGATTGTTCAGTATTGGCCTATTTCCTGGATAGAAAGCACCATGTTGACTATTTAATGTAAACACAAAACCACCTTCACTTCTC
AGCCCCAAAGACAAAGAAAACAAACAAACAAATATCTGCTAGGATACTCCCAGACCACAAAGGAACAGGAGCACCATGTCAGATCTCCCACACA
GTAACAGGACTGAGAACATGGTGGCTGAAGATCACACGGGCCATGACAGAACTGAGGGCACATGGCTGTCGATCACATTGCAGTAACAGAATTA
GGGGGGCTGTCTGGGTTAGTAAGGAACACAGACAGTGAAAGACAAGAGGAACACAGAACTCTGTGAAGAGCACCAAGATAAGTCTCGGAGCACC
TGGACCTGGGCAGGCCACTGTCCCAGAGGTCACTCACTGTCCCAGAGGCCATCTTTATTTTGGAGTCCGAGATCTCAGGAGCCAAAACATCTCT
GTACACCCTCTCTGTGTTTCTAGGATCGACATTATATCTCTTACCACAATAACCAGTAAGGACTCGGTCTCCATTGCCTCATGCCTGCACTGTC
TTCCTTAGAGTTTGACTCTAGATGTCCTGTATACAGTGATAGATGTAGCTCCTAAAATGCTGTCCTCTATGTCATTCTCTGAGACATTCAGCAA
GTCCCTCACATTCCTATCCCTGAGGCTCCTCAGCATGGGTGACCCCAGTCCTCCTTTAACCTTTATTATCAAAAGCACCCACCCATGTTATCCC
TCTGAGAAGCCCTGTGTCTTCCCAGAATATCATGTTCTTCGGCCATAGTTGTTAGCCTTTATAGAGGCTTGTCATGCTGTAAATCTGTTTTCAC
GTGATTTCACATGATGGTATGATGCATACCACCATAATCCATCCCACTAAATCCCTCTTTGCCTTGAAATTGACGGTCCTTGACAGCAGAGATG
TGTGTTATGTTTCTGTCCATCCCAGCACCTTGCTCAGTGTATGTACGGAATAAATGTAAGCTGGTTATTATAGTTGTCTTAGGTGAACAAGGAC
AACTGTTCTGAACGTTAGCTGGGTGTGGTGGTGCACACCTCTAATCCTAGTGTTCACGAGGCAAAGGCAGTTTTGAGTCTTGTTCAAAACCAAG
CTAGTCTACATAGTGAGTTCCAGGCAGCTAGAGTTACATGGTGAGACCCTATCTCAAAATAAAGAAGTAAAAGTGCTTTAAAAAGAAAAAAATA
TGTGTATCTTTGGGTTATCTGAATCTTGAGAAGCAATGAGATCTCTCACCATCTTGTTAGCACTGGGAACTTAGGAGGGGGCGCTCAGGAGAGT
TGGGTGTGTGCCGCACTGTGGTCTCTGAGGCGTGCTCTTGGTCTTCTCGTCCATTGGAATAAAAACCATGCTTCCTCCTCGGGTGCCTGTTATT
TCCCTTTAATGCATTTAAAAATATCATGAGAATCAATCGTCTCTCTGCGGCTGCTGGTGGAACCCGATCAGTCTTTCCCCCCTGGTTTCCCTTC
CTGTAAATACAGACAAAGAGGAAGTGCAAAGGAAACGCCAGAAGCTTATGCCGAACTTCTCGGACAGCTTCGGCGGCGGCAGTGGAGCGGGAGC
CGGTGGTGGAGGCATGTTCGGTAGTGGCGGTGGCGGAGGGAGTACCGGAAGCCCTGGCCCAGGTACGAGAAACATCTCTTCTATCTAAAGCCTT
TCATGAAGAGGAGGGGGTAGTTTTCTTTCCCAGGTTGCCAAACATGTCTGCCCATGGAGTGATGGTGTCATTACTAATTATTAGATTTCAATTA
ATGGAAAATTTCCTACAGATGTAAAAGAATTTTTGTTCTCAAAGAAATGTATGTCCAACTCAAGGCACAGCCACTCCCCACCCACCCACCCATC
AAGTTTCACTTTCTGTGGTTTCAGTTACACGCGGTCAGCTTGAGTCTAAAAATATTACCATTGTGTTGACAGAGAGAGACCACACACAAAAC
TGTCTTCACAGTCTGCTGTTGTGACTGCCCTATTACTCTGTGTTCTTGGTCTCCTTCTGTCTTTTTACGTTGTGAACTTTACCCAGGTCTGTAT
GCATCTGCAGTTTTAGGGATACACTGGGGGTCTCGGACGTTCTCTTTCAGGATAATATGTGTCTAGTCCCGAAAAGTGTAAGAAAAAAGTCAAC
TGAAGGGTTTCTGGAAGAAAACCTTTCTCAAATCATTTTTGAGTGTTTCCCTCCTCCCCCTCCCCTTTGCTTTTGGAGAAGCAGTTAGTCTATT
ATTCTGAGAAAATATTAAAACAACTATCATACCCACCGCATGGTAGATGGGTATAATATGCCTACACAGCATACTGTGGGCTGGAGACACTGTA
CTGTAAACAAACTGAGTCACAGAAAATCATGCCAGGGAAGCACTTCAATGGTGTGTAAACTACTGCTCCTAACTGCCACGCATACGGCACAGTC
AGTATTTATGTGTTCCTCTCGGGTCCGGCTATGATCCCCGTGCGTGGATTTCCAGCCATCTAGTTACACTCAGTTTTTAAGCATCGTTGCATCA
TGCTTGTGGATGCTGAGTAACGCTGCTTTTTGCCTCAGATCTAGCTAGCTTAAGCATTTCAATGGAAATACAGTTCTTATAGCAGCATAAGTGTG
CTGTTTAATGACTCACACCTGTAGCGTAAGTGACTTGAATGCTGTTTCCTGTCTCCTGTGTAAAATAACTGTGCTGAGCATGGCCTTTCTTTAT
TCCAGATAACATGTAAATGCTTTAAATGTCAGAGAGTGTAGTGCTAAGTGCTGGCTGCCCCTCTAAATTTATCATTCATTTCTCCACTAAAGTA
TCATTATATTACGTATTGGGTTCTTCTCACCAGGGGTCTTCATATTTAACTATTTTTTTCTGTAGGTCTAAGTCTTGGTGTGAGTACTTACCGT
TAGCTTTTCCCTTCACCTGGAAGAAAGGGACCTGCTCAGCCTTAAGTCCTCCAAGCTGCTAGTCTGGGCACTGCCTGTTTGTTCAGCTGTCTGT
TTCCCACAGTGATTCTGCTAACTCTCGGGCAGAGCCAGCCTGTGTAGGCTTGTGCCTCCCCATGCCACAGCCTGCCTCCCTGAGTGGGTCCCCA
TACTGTTAACAATCTCCCTGATGTTCCCTTTGTCTCATTGCTGGTTCAGGGTATGGCTACTCGAACTACGGATTTCCTCCCTACGGTGGGATTA
CATTCCATCCCGGAGTCACGAAATCCAACGCAGGGGTCACCCATGGTAAGTCGGATCGGAATACCCAGAGCACTGCTCGGGCAACAGGATCATC
TCTAAAAGCTTTGGAAAATTACTTTCCAATAAATTAATATTCTCAGGTTATTCTAGGACAGCATAAGGGACACCCCTGACACGTATTTGCTCAT
CACATTGTGTGGAAGCAGGACAGAGGCTCTAGACAAAAGATGAGACTTGACTACGCAAACACACAAATACCACCTTCACATCTGTCCCTTTACC
CCAAGTCCTATCCTTCTGAAATCAGTTTTCATTTTGTAGGGTTGGCCTTTTCCCACTCTTGGGCATCCTCTGAGTAGCTGTGGCTACAGGCTGC
TCGTGGTTTATATAAAGCTGCATTCTTCTGTACCATGGAAATTATTCTATAAAGTCTTTCCATATATAATGCCAATTCATGCCAGATGCGTACA
TCACTGTAATCTTTTTTAAAGATTTTAACTGGCATTGTCGTTTATCCTATAATCGGGTAACCATTCATCCCATAAAATAGAACTATTCTTTCC
ATTACCTATAACCTCATGACCCCTGTGCAAGGCCAGTGCTAGGCTTGGCACCTTCTGGACAGAGGTGAGGTTCAGAAACTTGACTTTCAGAAGA
CACTGTAGCAGGATTGGGTTTTGCTCCAGGTTTGCCCAGGAGTCTTACTGTCACTCTGTCACATAACGAGGTTCCTACAGCAACCACAGTCAGT
CTAGTGATGGTGCCCTAGAGCCCTCCTGGCCACACAGAATGGAAATGAGCTCTGCTCGGCTCCCTTTCCCTTGCCACTCAGGATTAGGAAAGAA
AATAACTGCTTTCGAGAACTTTCCAACTGGCTATCAGCGCACAGAACTTTATCTCATTTTTCTTCTTCACAGATAAACAAAATGAGATCCATGC
CTTGTTTCTGTTTGGTTTTGTTTGAGAGAGAGAGAGAGAGAATATCACTGTGTAACCTTGACCTTCTGGGACATTGTGGGTGGAGCTCAC
TACAGCTGGCTACAGAATGAGTTTTGGGAAGGCAGGCTTTAAATTGTTTCTGAATATTTAAAGTATTTCCGAAACATCCCAGGTTTTTTTGGT
ACACACCTTTAATCCCAGCACTTTTTGTGAGTTTAAGGCCAACCAAAGCTACACAGCAAGACCCTGTCTCAAAAAGTAAATAGAGAAGGAAATA
TAAACTATGTCCAGAACATATTATTTGTGTTATAAACATTTATAGTTTTCCATTTCCTGCAGATAAGCCTTCTTCCTATTTTCCTTTTTTCTGC
CCTATGTTGAGACAGTGAGCTATAGCTTAATAGATTTTCTACGTTTTTTTCCCTAGGCACCATAAACACCAAATTTAAAAATGGCCCTAAAGAT
TGTGCCAAGAGTGATGACGAGGAGAGTCTGACTCTCCCTGAGAAGGAAACTGAAGGTGAAGGGCCCAGCCTGCCCATGGCCTGCACCAAGACGG
AACCCATCGCCTTGGCATCCACCATGGAAGACAAGGAGCAGGACATGGGATTTCAGGGTAGGTGAGCTTGCCCACGAGGGCTTCCAGGGACAGC
TGGGGTGGGGTTTCAGGGTAGGTGAGCAAGCCCACAAGGGCTTCCAGGGACAGCTGGGTAGGGCAATTCTAGGTACAGGAAGCTGTCTCCAGA
AGACAGGTTTCCTTCCTGTTAATCTAAAGCTGATGAGTCAGCATCTCCTCTGAGTGCTCTGCACCGTGCCCTGTGCCCTGCAAGAGAGGCGTCC
TGTGGATCCAGTCATCTTTGCAGCCTCAGCTCTGATTATAAAGTGCAGAAACTTGCATGTACATTGCCTAGTCTGTGCAGTTCTGGGTATGAGA
AGAGGCAACTCACTTTGTCCCTGGCCCAGGTAACAAGTCTCCATGTCCTTCGCGCACCTCCCTCCCAGCAGCCGGCTCAGCTGCCACACTGAAG
ACGTTTGCCTGAAAATGGGAGTTTTCCTTTATTCTCTTGTCCTCCTTGAAGAAGTAGAATTGAAAGGGAACGTTCCATCTGAGCAGGCCTCATT

GGCATATGAGTCATGATTCTCGATCAGACGCCATCTGTAAAGAGATAGTAACTATTTACACATAGTGGCCGTACACATGGTTACTATCACATAT
TTTTTTCCCTTTTTTCTGTTTTTAAAATACTTCTTCTGAGATGCACAGTATATGTGTACAGAGCCATATGGAAACAGGGTAGATTTGCCCATTT
GGGTTGAGGTTAGTCTGCTGTCCCTTGACCTTAAGATAATAAAATTTCCAAAACCCCTGGGGTTTCTGAGACTGCCTGGCACCCAAGGGTGTGT
TTCCTCACTTTGACTCAGACAGGATTCCAGAAGAGACTTTGTTTGTAAAGTGATTGGCTATTTAAAATTATGGCAAAAGCCAAGTACCCTGAGA
TTGGTTGCTCCCCTTCAATCATAGACACTGATTGTTCTTCTCAAAATAGCAGATGTTTCTAGATTGTTCCTCACAGACACTTTAAAATCAACCT
CTTAACTGTATTATCTGTCAGTGAGACAATGCCCGAAATGCCCGATTGTGCTTGTTCTAGTCAACACAATCCAGAGGCAGCAAAAGGAGCATTT
TCAGCTAAAATGGTGTGCCATGCCGCACACGCGGGGCGAGCAAATGACACTCAGCTGTGCTTGTGGGCATTACCTTGCAGATAACCTCTTTCTC
GAGAAGGCTCTGCAGCTCGCCAGGCGACACGCCAACGCCCTTTTCGACTACGCAGTGACGGGGGATGTGAAGATGTTGCTGGCCGTGCAACGCC
ATCTCACCGCCGTGCAGGATGAGAATGGGGACAGGTGAGTTGAGTGGGGACTGTTGCACAGCAAGCTCTGTTTCAGGACGGGGAAAGGCAAGGA
TACTGCCCCCACAAACTGCCTTTGAAAGGGAGCTGCCCTCATCTGACAAGACCTCGAGTATGCTGTCTCCCTAGGCAAGAAGGCTCAGATGTGT
GTAATCATGCTAATTTTACACCCCTGCTTTGTGTACTAAAATAGTAATTGAGAAAATTATTGACAGCCCTGCAAAGTCCCTGAAGTGTTATTGT
CATAGTGTACCCAAGAAAGCCAGGTAAGAACAACATTAGTAGAGTAACTAAGAGGAAATGCCATTCTCTCCTAGCTACTAGCTGCTTCTCTGTG
GCCTCTGTTAAGGGTCACGAGGATGTGAGTGGGTCAGGCTCTGCCTCAGCTCCAGGCCAGGCTGTGTGGGAGTCTGACATTCCAGATGCCATGC
CTGCTGTCTCTTCCTGAGGTTCTGTGCACATAGCTACCTGGCTCCTTCCTAAATGGTTCTCTTAGTCCTTCCATTGAGACTTCTGAAATGATCT
AAAAGCCTATAAATATAGCCAGAGACAGCAGTCTTGAGATTCAAGTGCTTTATCTAAGTGATCCTAAAATAGCGTTAACACTGAAAAGAAGCCC
TTTGCTGTGGAAGCATTCTGGAGTGCTGTGTGCTGAGTCTCAGTTTAAAAACAAAGCGCTTTAGGAGAATGCCAACCTCAGGGGTTTCGTACAA
GGACCTTTGTCCTCGTCACTTGCAGTGTAACTAAGGATGTGGTATAACCGCTGGTCTTATCCTACACAGTACAAGAGGAACCCAGACGACCTTC
TGTGAAAAAAGCTCTGAATAACAGAAGGCGCCTTTAGAAGGAAATCATCCAGTTAGCATTCAATAGCAAATAACCACAAAACAGAGCAGATAAC
CAGAGCAGGACACCGGTGCTCCAAGGGTCATCTTTAAGGACTGGCGAAATTCATGAGTAGTGAGGGCGAGTGGATTAAGCAATTAGGAAGTGAG
ATGCTGCTGTCTGAAGGAGAGGCTGTGGAAAGGGATGCCAGGCACATGCAGTCCAGCAAGTGTGTGCAGAGGAATGCAGGAACATGTGTGTAAG
GACCTGGGTGTTCATGGGGCAGCTGAGACACTGGCCTTCATTCCCAAGTGGGTACAATACCCAGAGCCTCGTCAAGCCAAGACTTAAACAAGCA
GGCTCCGTGTAAGGTTAGGGGTATGAGACCTGGGAGACACAGAGGACCCACTCAGGAGTATACATAAGGGACTATTCTGGTTTCTCTTCTTTAT
TCATCTTGTCATATTTGGCTTATAATCTGGACCCTGTCACCATTAGTCATCATAGAAATACAATAAAGAGAAACTATAGAACCCTCTGGTATCG
GGGAACTTCCCCCAGGGGTATGAAGATCTGAAGGGAGGGGACGTGCTTCTGTGAAGTGCTGAGCTGCACATGGAAATGTTGAAGTAGCTTTTG
AAGCCCTTTTACTCGACGTGTGTCTGTCCGCATCACCTCTCACAAGCCTCCTGTCAGGGTCCCATCAGGAGCACCACAGGAGCCTGAGGTGTGG
CTGCGGTGCTTCTCGTCAAAGCGTGCGTGCTTCACTTGCAGTTAACACAGGCCTGGGGTCATCTAAAGAGGCCACCATGATCTTCCCTGAGAAG
TATTGCTAAGTGAAATATCTCAGGGATAAATAACAAGACCTTGTTTAGAAATAGAAGTCACTTCTCATTGTTACGGAGGAAGAGAGCTCGGCAG
CTGAGTTTTCCCAAGCTGCTCCTAAGCCTAGGCATTACCTTTCTTCATGGTCTTGTATGTCAGGGAGAGACCAGGGAGAGCTGCCAGGGACAGA
GGCATGGAGACAGAGCTGGCTTGGAGCTTAATGCCATTTGGTTTCCGACCCGGCAGGTGCCTTTGCACTTCATGTGTCTGGTCAGATGTTAACA
CTCCGGGGGCAGGTGGGCACGATCAGTGTGTAGTAGCCTGCGATAGGCAGTGGAGAGGAAGTTCTCCAGAGAAATAATGTCACCTCTGATCAGT
ACATTCAGTACATGGTAGGGCCAAGGAAAGCTACACATAGTAGTCTTCAGCTCCAGTCATTTCTTGACATGTTTTTGTTTCTGTCGCTTG
CTACATCCCCAGTTAATTATTGCCACTGTGTGTCATTCCAGTGTCTTACACTTAGCCATCATCCACCTCCACGCTCAGCTTGTGAGGGATCTGC
TGGAAGTCACATCTGGTTTGATCTCTGATGACATCATCAACATGAGAAATGACCTGTATCAGGTAAGCAGCCACCACAAGGCCGTCGAGAAGAG
AAAAGGTTGCCTTAGTAACACGTGCGTGAGCTGTTCTCAGTGATGGGAAACAGGAAAACAGCATCTTCTCAGAAGTGGCATCTTAAAAGCATCC
TTAGTTGGGAATGTCATTTTACAGAGAGATGGGTTGGGATCATGGGTTTGATGGCAATCACACTCCATGGAAATTCACCATCTTCTAGAAAAGG
CAGACTTTAAGACCTAGAAGTCAGAGTTGATAAAGTTTTGAGGGCAAACCTCAGAGGGGAAAAAGTCACAGCTGTCAGGAGAGACATGTTAAAA
AGAAATCCAAGTTTCAAAAGCCAGAGTTACAGAGACAAAGTTTGGAGCTGAGATGAAAGGATGGACCATCCAGAGACTGTCCCAGCCGGGGATC
CATCCCATAATCAGCCACAAAACGCAGACACTATTGCATATGCCTGCAAGATTTTGCGGAAAGGACCCTGATATAGCTGTTTCTTGTGAGGCTA
TGCTGGGGCCTAGCAAACACACAAGTGGATGCTCACATTCAGCTATTGGATGGATCACAGGGCTCCAAATGGAGGAGCTAGAGAAAACACCCAA
GGAGCTGAAGGGGTCTGCAACCCTATAGGTGGAACAACAATATGAACTAACCAATACCCCCAGAGCTCATGTCTCTAGCTGCATATGTAGCAGA
AAATGGCATAGTCGACCATCACTGGAAAGAGAGGCCCCTTGGTCTTACAAACTTTATATGCCCCAGTACAGGGGAACGCCAGGGCCAAGAAGCA
GGAGTGGGTAGGTAGGGGAACAGGGCGGGAGGAGGGTATAGGGGACTTTCGGGATAGCATTTGAAATGCAAATGAAGAAAATACCTAATAAAAA
ATTGGAAAAAAAGAATATTTTCAAATTAAAAAAAAAAAAAGAATTTTGAGGTCTGCGGAAGGAAGGGTATTCGCACAGCAACTGGATCAAGTGT
ATGTCAAAGAAAGGCTCTGAGGTCAGCTCCTGGAGAGGTGAAAGGCTGTAAGAACAGGAAGAGGCACCTCAGAGTCCCATCCAGCTCAGGTGTG
AGAAGGTAAGGGAGCCCCGAAAACTCCAGAGGAAACCACCTGGAGATGGCACAGTGAGCTGAGGACAGAGGCAGATGGTAGGGGAAGCAAACC
AGAAACTCCACTGGCAGACACAGTCTGGGAGCTGTGGCCTGGCCCAGGATGGTGGCCTGCTCTACGGCTCCTTCCTCTCTCACCTCTATTTCTC
TCCAACCCTTTTGTGCCCCTACCCCTCTCTCTGGGCCTGTTGGTCTTATCCTCTTGTTGGCTTCTAAGTTCCTCTGCACTCTCTTGCCCAGAGT
GTCATTCTGATCCCCACAGCCAGGCCCATGCTGAGACCTCTGCTTCCAGGTCATATTGCTTTCATTGAAAAACTGTGGCCAGCAACCGTGAATA
ATTTGTTATTTAGAAGAGATGAGATGAGAACTAGTGGAATTCTTACTTGTTTGTTTGTTTGTTTGTGATGTTTTTTGTTGTTGTTGTTGGTTTT
TTTGGTTTGGTTTGGTGCTTGGGACTGTACCCAAAGCTGAGCACAAACCCTTCCAGCAATCTACAACCATGTTACTCCATTTTTAAAACAAGTT
ATTCAAGTTGTTATCTCTTCTTATCCATGCTTCTCTCTGTCTCCCTCTGTGTCTCTCTCTGTCTCTCTCTTGTCTGTCTGTCTGTCTCTGTGTG
TGTGTGTATCCCTCTCTATCAATCTCTCTGTCTCTCTTTCTCTCCCTGTGTCTCTGTGTATCTCTCTCTATCAATCTCTCTCTG
TCTCTCTGTCTCTCTCTTTCTCTCCCTGTGTCTGTGTATCTCTCTCTATCAATCTCTCTCTGTCATTCTGTCTCCGTCTCTCCCCCCCCCCCAA
TGTGTGTGTATCTCTCTCTGTTGATCTCTCTCTAGCGTACCCAGGCTGGCACTGAGCCATCAGTGTCCTACCTCAGCCTCCCAAATCATAGGCT
TGACAAGCATGTGCCTGGCATGTTATCTCATTTTTAATTTAAAAAAAAATCATTATTTTAGAAGAAATTAAAAAGAAACAAAGAGATGACTCAG
TGGACGAAGTATCTGCTGTACAAGTGTGAAGACCATGTTCAGATCCCCAGACCATCGCCAGCCAGATTTAGTACCACACCCCCCCACACCCGC
CCCCGCCCCCCCCTCCCCAGTCAGGGCAGGAGACAAGCATCTTGCATATGCGGGGGGGGGGGGGGACAAAAGACCCTGCCTTATAACCTTGCA
CAAGGCAGGGGGCAGTACACACGTTGCCCTCTGACCTCATGCACGTCCCTGCACCCACACGCTCAGAGAAGGAAAGAAGGGAAGGAAGAAAGGA
GGGAGGGAGGGAGGGAGGGAGGGAGGAAAGGAAGGAAACTAACTGCACATACACACTAAAACAAAAGAGCTAAAAAATTTTTATTTTAAAGGAA
ATCATTAAATTCTTATTTTTTAATACAATATTTTAAAGTTACTTTGAAAATATGAATTGGAGGCTGGAAGTGGCTCACATGCTTAAAGCCTTGA
GTTCGTTCGCTCCCCACACCAAAGAAAAGGCTGAAGCTGTTAGTTCGTTGGCCTGTAGCTCTCAGACTTTTCCGTTTTCAGAGGAGCACAGCTG
CTTTCTGCACAGCACTCTGCACTTCTCTGTCTGCAGTGATTCCTATCCAGGGGAGATGACTAGGCTAAGGTGTTATTTTAGATGTGTCTTCTCAA
GATCTGTCTTCCTCGGGCTTCCATGCCATCTTGGGATACTATTGGTATTTGGAAAGTCATTGGGCCCCGAAAGTTGAATTCTCCAAACTTTTAG
GCAGATGGCACTTTTTAAAAACTTTGTATTGATTCTCTGTGAGTTTTGCATCCTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTTTCGAGA
CAGGGTTTCTCTGTGTAGCCCTGGCTGTCCTGGCACTCACTTTGTAGACTAGGCATCATGCACCCCAGTCCCACTCATCTCCCTGTCCCCTCAT
ATCTGCCCTCTGCCCTTGCAGCCTCCCTCCCACAAAATAAACACTCAAGTAACAGGAAAGACAAAAACAAAAAAAGCATAGAGAACATCTCGAT
GTGGGAGCGATAGTGTGTCACCGGGCATCCCACAGTGTATCCCTCTGTCCACACATCTTCACTTGCAATGAGTGTTTGGTTCTCTGTGACACGG
TAATTCTGAGTTCCCCAAAGTATAAGCTTTTATGTTATTTCAAGATTATGCTTATACTGAATTTACAATAATAACAAACATGTGGCAAAAGTGA
GAGCCTGAGAACTAACGACATAAAAGGCCGTGTCACATGCCGGAGAATGCAAGAAGAGAACGCAGTTTAAAGACTCACACTTGGGCTAGTCTAG
AGAGTGGGTGGGTTCCAACAGGGATCTGATAGTGACAGATGGTCACAGAAATGTACTATGGTTAGTGGAAGATGTTTGGGGAGAATGTTTGAGA
TAATTTACAAATAATCCAAATTACTTAGAGAACTGTATACTTTTCTGCCAAGAATAGTTATTATGTCATGCATGATGGTGCATATCTATAATTC
CAGCCCAGAGGAGTCTGAGGCAGGAGGATTGTTGTGAGTTTTGGGCCATTCTGGCCTATACAGTGGGTTCCAATTTTGTCTGTATTATATTATA
GGGTCTTGTTTAAACAACAAGAACAACAACACACAAAACCAAACAAGCAAAGAAAAAAAACCCTCCAAATTAAAAAGAAACTAGTTCCCAAGC

TGGGTGTGGGGCACACATTTGTAGTTCTAACACCCAAGAAGACACAGGAGGACTGACAGCTTCATGTCAATCTGGGCTACACAGCAAGTTCTGG
GCCAGCCTCAAACACAGGAAGACCCTCTCTCAAACAAAACAAAGCAAAACAACTCCACAAAGCCAAACAAAGAAACCCAAAAGTTATGAGAATC
ACAAACGCTGCCTGTCTATGTCCTTGAGGCTAAGAAGCTGGTATGGCAGGGAATGTTTGTGCCCATTAACTGAGTGAAGCCAAGGTGGGAAAAA
CTGGGGAGAAAGGTCTGAGGGCTCCAAATCAGAGCAGCTTTGCCTTGAGCTCAGGGGAGAGGTTCCATCCACAAAGAGCTGGGTCGCACACAAT
AGAGCCTGCTTCCGCAGATCCTATCACCAACAGCCAGCAGGGCTTCCTGAATCCAACCTCCAGCAGCCGAGGGAAGCAGGTTTTGCAAAGAGGA
TTGGGAAGTAGCAACTTCCTCTTCTTCAGTTTATTCTTATACTTGTGATGGTTAAAAATGCAATCTGCCACTTGTCTGCTATGAGGTAGCCTGG
GTGCAGGGGTGATGCCTTCCTCCACCTCGCCTCTCACTACCTGTACAGGCAGTCAGGAGAGCTGGCCTGGGGTCATGCAAGGGGGTGAGCTAGC
CCTGTCCTTCACAGGCTTTCGAGAGCAGGCCTTGCATCTAGCCTGTGCTGCAGAGTAGAGAGGACCCTCGTGGAGGGAGCACAGTGAGCAGCCC
TGAGGGTGTGAGAGCAGGAGAACTGGCCCTGCCCCTCACTCACAGGCTGTAGTGTATGGGAGAGTGGGTCCTGCCCTTTGGGCAGCACAGTGGA
GCCAGCTCTGGAGGCATAGGGAGATCCGACAGCTCCCTATTTCCAGATGTGACTGTTGCATGTATACAGGAAGAGTGCTCTTCCAGTGTTGGCT
ACAGACAGCTGCTCTGGGAAGACATGTATTCTTTAGTGTGCTCACATGCACTCCACACGGTTTTATACATACATTTCCTATCCCACATCAGCCT
TTCCCTTTAAGTTTCAATTTAAAATACTTTCTCAATTCATAATTTTTGCAAAATTCAACTGAGAGGACCTGTATATTTCCTGAGATTGAACCAG
ACGCTTACCTCCTAAGTTCCCCCAGCAGTTACATCCTACTTAACACAATAATACAATTAGGAATTGCAACAGATTCTAGTCAGATCTCAATATT
TGTATGTACTCATATGCATGGATAGCTCTGTAAGATTTTTTTTTCCTAAGCTGAACATGGTGGTATTGTGTTTTAGTTCCTGTTATTCAGGTAG
CTAAGGCAGGAAGAGTCCTTGAATATAGATGTTCCGATGTAGCCTGGGCAGAAAGCAAGACTGTTTCTAAGCAGAGTGAATGAATGAATGAATG
AATGGTCAATCCATGTGCTTGTGGATGTGTATGTAGCATTGTACTGTGTCCCTGTCTTGGGTCTTCACGCTGTTTATCCTTTAGTTTCATAGAC
AGCTGGTTTGTTCTCATTGCTCCTGAAGAGAATGCTGTCATGTCCCCTAACTAGCTGCTCACTGTCCACAGGCTGTGCACTGCAGTGAGCACCT
GCACTGTACCCATGGGTGCCACAAGTGGGTTTCAAGGGCAGTGTGAGCCCTGAGCTCCACAGATGGATTCTAGGGATTCCTTGAGGCACGCATT
TTATGCGTGTGTAAAATGTAACCCTTGGGTGTTGGTGGCCCACCAGCCACTGCTTCCCAGCAGGAAGAACTCCCTGAATGGGAGGTCGGGCAAG
TCCTCACTACACAGCCTGGGCTTCAGTGTAAAGCGCCTACAACACAGACTGGCTGGCATTGAGAGTTGGTGCTACTCTCTACCAGTGATCTCAG
CTTTTTGACAGACACTTTTGTGATTGGGTTAGCCCCACTTGTTTCTGAAAACAGTTTTCCATGCGTCCTACTTACAACCATGGAAGCACAGCTT
TGAGGTCAGGGTAGTCAGAAAGACCTCCCAGAGCCTATTATGCACAGTGCCTGGGATTGTTTTCTGCCTGAACTTTCTTAGGGAGAGTGCTGTA
TTGGCTAACTATGCCCTGAGGATCTGGTAGCACCTGTGATAGTATTACAGTGGAGCTTGTATCTGTGCGTCTCTTGAAGCCAGCCTGCAGCAGT
GTGTTCTGGTTTAGCCTATGTACTTCCAGACCATTGTGGAAGGATGACATCTTTCTTGATTGCTTTCTTTTAATAGTCTATTTATGTTTTGTTG
TTAAAAACACAGCATTGGTTCGATTTGCAAATGTATAGAATTACCAGCTATAGATAGATACCTATCAGAAATTCAGAGAAATTAAATTTTCTTC
TACAAGAGTTAAAAAAAATCATGTAGCAAACGTATCCCATAACCCCGACTGTTGAATGCTGGTTCCCTCCGTGGGCCTTTGAGCCTGGCATGCA
GAACAGGAAGCTCCTTGAGTGACAAATGTCCCTACAGTATGACTCCATAACGTAGCCTGAAGCCAGGGGCTACAGACATCCCTAAGCAATGGCT
CTCCCTCTCCTTCTCTGTGTAGACACCTCTGCACTTGGCCGTGATCACCAAGCAGGAAGATGTAGTAGAGGATTTGCTGAGGGTTGGGGCTGAC
CTGAGCCTTCTGGACCGCTGGGGCAACTCTGTCCTGCACCTAGCTGCCAAAGAAGGACACGACAGAATCCTCAGCATCCTGCTCAAGAGCAGAA
AAGCAGCGCCCCTTATCGACCACCCCAATGGGGAAGGTAAGAGCAGTCGCCTTGCTGGCTAACCGTCCCCTCTCGGCTGCAGCATAAGGGCTTG
GCATTTGACAAATGCGTCTGACATGACTTTCACCATGAATACTCTCCTCGGCCAGCTGGAGTTTGTCATATCTTGTGGTTATTTCTGCTGTTTA
TTACAGCAAACGCCCTTAAAGAGTATTTGTGAGTATTGCTTAGTAAGTGGAAAAGCAAGCCCGAGCAAACATTAGTCTTTATAAAGCATCGTGT
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGGAGAACGTTTACATAGTAGCTCAGTGTCTCCCGAGAACACAGTGGGAGCTTGTGG
CTTCTGAAAGTAGAACAGTGGACCGTCTGAGGCTTTGAAGCACGCCCTGAACAGAAACCGGAAGTGCTGCGACCTGGTGGTGTCCCTCCTCCCC
GCAGCCCAGCTCTGTCAGTCTCACCCACATCTCTGCCTTTGTTCGGCCTTAGGTCTAAATGCCATCCACATAGCTGTGATGAGCAATAGCCTGC
CATGTCTGCTGCTGCTGGTGGCTGCCGGGGCAGAAGTCAATGCTCAGGAGCAGAAGTCTGGGCGCACAGCGCTGCACCTGGCCGTGGAGTACGA
CAACATCTCCTTGGCTGGCTGCCTGCTTCTGGAGGTAAAGGCGTACTTGTGATCTTGACCTAAATCCCCCTGGAAGTTTTAGGGAAGTCTTTTC
AAAGAATGACTCTAGGGCCAGCTCGCTGTCAGTATTCCACTGTCTGCTTTCTGCATCCCCAGCTCCAGCCCAGCTCTCAACCTGGGGATGCCAG
TGACAGAGCCAGCCCAGTATAGCAGTTGGGTGAATGATGTAACCTGAGGTGCAACGGAGATGTGGAGGTAGACAGTGGAGGAGAGAGCCCCTGC
TAACTCTTTCTTTGTGGGCGGATTTAGGGTGATGCCCACGTGGACAGTACCACCTATGATGGGACTACACCTCTGCATATAGCGGCCGGAAGAG
GGTCCACCAGACTGGCAGCTCTTCTCAAAGCAGCAGGTAAGACGCTGTGGTCACTGATACCAGCAAAGCAAACTGCCTGCAAGTTCAAAGCTGC
CTGCGGAAGCTGCGGTTCTGCCCTGGGAAAGTGCCGGTAAAGGAGACCTGCACCCGGGCCACTCTGCAGCGGCTGCACTGGAGGCTCTGCTTGG
CCTCGGGTTTACCTTGATGCTCACGCTAGTTCCCACTCTCTGGTTATCTACGTTGCCTTTGGGTTGTTGAGGTTTACTCGGTACCTATAAAATC
TTGAGCTGTGTCAGCTTCTGGTCATATTACAAGTCTCCCAGAAGGAAAATATCTAAAGACTTCCTTTTGCAAAAAAAAAAAAAAAAAAAGTCTC
TTAGAAGCTGAAAGCATGGGAAAAGCAAATGAGCCCTGTATTTGTGTTACTGTGCACGAGGCACTAAGACTTGCTGGCCTCCACTGCCTTTCCT
CGGCTCCAGGCACCATGCTGGCATCCCATATTCACAGTCTCCTTTACCACATCTACTCCTCAGTAACTCTCTGAGATAAGAACTGTTGCTATTA
ATCCCATCTGAGCACCAAGAAGGCAGACTACAAAGATGATCAAGCCCCACTCCCAGTGTCCCGGAAAGCTGAGTCACAGCACCGCAGCCTGACT
GCAGACTCTTATTCTTCACGCTGTCTTTCTTTCTGCTCTGCCTGGGGTTCTAGTCCTTCCTGTAAAGCACTCAGAAACATTCCAGCTCATCTCC
TGTCTCCGGCGCTTTGTGTGTTCAGTGTTAACACATGCTTGATGAGGTTGGCTGGCCTTCCGGGCCTGCCCAGACACACCTGATTTACTTCAGA
GGTTGATAAGGGAGGATTTGTGAACGACACATTCCTTATAGATTCAGGCAAAGAGGCCTTGGTTGTAATGTGTTGAGTCATTTTGGAAGTCACT
GATTATACTGGGGGAAAAAAAAAAGGTTGTCTCTTAGTCAGACACCTGAAATCTCAACATTCAGAAGGCTGAGGCAGGAGAATGGCCACAAGCT
TAGGCTACCTTGGTCCACATAGTTCTAGGCAGAACAAAGATACATAGTGAGATACTGTCTCGACAGTAAATATATAAATGTAAACACTTTTACT
TGAATTCACCATGAAAAGGTAGCAAATAATATCTTGTGTGACATAAAGAAAACCAGACAAAAAGCCTAGCCCTGACCTCCTCGGAGTCACAAAG
GTCACTTCAGGGACATGTGTAGCCCTCGGGTCTTCAAACTCATTTCCCAGTCATGTTCCTGGCCATGTTTTGCTCACGTTATAAAAGAGCAAGT
GAGGCAGCAGAGAGTGGCAAGGCAGCAGTGTTGGCCCAAGTCAGAGGTTCTGTCGGCAGAACTGAAGCAAACACTTCATTCCAAAAGGCTGTGC
TGAGCCTGCCTGCCTGCCTGCCACTGTTGGCCAACCCGGAGCCGGACACCCATAGGTAGAATAGCCAGGAAGGCATGACAGGTAACTCCACTAA
CATTAGGGTTACGTTTTATGTTGTCTTGCTGGGAGCTGAAGAACAGGCAATATCCCCAAGATTTGTTAGCACATTTTTTCCCCATAACAACACA
TCCTGCCTAGCATAGCGGCCTTGTGGTGTCCATTTCTCTGTTGCTTAGGAACTAGAACTAGGGCCCCAACAGTACAGCACTCAAGGACAGAGCT
GACCAAGCAAATCTGCTCCACACAAGTAAGCGAGAGTGTGAGAAGTGTGTATTGGTAGATGTAAATGTGAAGGTTCAGGACTTTACCCCTGTGG
GTGCATAAATTGCCACCTACTAGTCCTTAGGTTAAAATGTATCCTTTGTAGTATAATAATAATAAGAATAATAATCCTGCAGAGTTACAAATCC
CAGGAGTACTTGAAGTCTTTCATGTATTTACTTTACATCCTGATCACGTCCTCCCCTCCTCCCAGTGCCCTCCACATGGCTCCTCCTCCCCACC
CCCTCCCTCTCTCTTCACAGGGTCCTTGGCTACCTACTTCCATAGAAGTGAATTAAAATTTTTTAAAAAGTTGTTTTAAATTTCACTAGAAATG
AAAAGTTATCCTGTAATTGCCTTAATGAGCTAGAGGTAACCTGTCCCTCGACATGGGAATCCTGTGTGTGATTGGAGGCGGACAAGCTTTTTCT
TTTACACAACACTGTATTTCCCTGACTCCATAGGAGCAGACCCCCTGGTGGAGAACTTTGAGCCTCTCTATGACCTGGACGACTCTTGGGAGAA
GGCTGGAGAAGATGAGGGAGTGGTGCCAGGTACCACACCCCTGGACATGGCTGCCAACTGGCAGGTGAGCTCTGGCCAGCCCATCTCATGGGTA
TTTACGGGGGAGCCAGTGGCTCAGGAATATAAAACAGATGGTCTTCTTGGCATGCTCCTCCCTAAAGAACATGCCTTTGTTTTTATGAGGTCTT
GTTACCGAGAGGGTCTTAATCTTGAAAGATGGTCTTCATCCATGAAAGATGAAGGTCCGGTGAGCCAGAGTGTAAAGCTGTTTGCGTAACTGGA
TTAGAGTTCAGATATGAGAGGTTAGAAAAGCACAAAATGCACAGAAGAGTTACCCTGTCAGCACACGACCAGAGTTCTTGCCATTTCTGTCAGA
AGCTAGCTTGCTCAGAGCTTAAGTAAGAGGTTTCTGAACATAAAAATAAACTAGAAATTCTCTTGTGGATTTCCATAAACATATTAAAAACCTT
CCTTAAAACACAATAGGGCTTACACTTAAAGGAGAAAACGCTAGGTGTTTGGACCAAGAGAAAAGAGCCAGAAGGCAAAGTAGGCAGTGTACGG
GTCCAACACAGTCGGGTTTGTAGGAATCTAGACTCTCTGTGCACGTCTAGGAGGCTGTTTGCTGGCTGGGTTCCTACAGGGAACACAGAAGACT
GACCCCTGACCTGATTCCTACCCTGTGTACCATCAGCAAATTCACCTCAGAGAACACCAGGACTTTTAAAAATCATTTCTGTGAATATTTTCTC
ATGTTTTTCTATCCGACAGGTATTTGACATACTAAATGGGAAACCGTATGAGCCTGTGTTCACATCTGATGATATACTACCACAAGGTGAGGTG

TGGCAGGACAGATTCTCTCAGCCAGTGTTGCCCCATGCTGTGGTTTACAGGAGGAGAGGAGAGGCCAGCCTGGGCGAGGGTGTACTGCAAACCG
TCTAGATCTTATCTCAGAATCTGAGATCCCTGGAGGTGTGGCCCTGAGCTGCTAGAAGCACCTACTGCTGCTGCTGAGCAGGGCCTCTGGACTT
GGCAGAAGCTTGGTGGCCTCCATCAGAAGTTGGACAATGACCTGTCCTCTCAGATTGATTGTCCCTGGAAGGTTAAAGCAGTCATGTTTCTTCC
TTAGGGGACATGAAGCAGCTGACAGAAGACACGAGGCTACAACTCTGCAAACTGCTGGAAATTCCTGATCCAGACAAAAACTGGGCCACTCTGG
CACAGAAGTTGGGTCTGGGGATATTGAACAATGCCTTCCGGCTGAGTCCTGCTCCTTCTAAAACTCTCATGGACAACTATGAGGTAACGCGCCG
CCGTACCATTTAGAGTTGTCTGTGTAACTATTGGTAGTTGACCGTGTCAGCTCCACTGAGCAGCACAGCCTACCCCCTTACATAGTAACTTTAT
GGAAGGAAACCAGTCATTGCCTGGAAGGCAAAGGGAGCCAGGCCAGGATGGTGCCTTTTTCTTGAGAAGACTGGTTACCCGTCTCTCGGCATTC
CCTGTTTTCAAATTCTCAGAGCCTTCCTGTGAAAATACTACTGCCCACAGGATGGGGACCCCTCCAAGCTGTGATCGGTGTGTGCATCCCTGTT
TGCAAGAGGGAGCCCCCCAGGGCCATGGCTTCATTGTTCTGTCGGGTGACTCCTATTAGAGCAATTCCAAACTAAAAAATAGACAAACATGGGC
GAGCTACTCCGAATGAGGCTGTCATTGCTAGCTGCTGTCTTCCCTGGATTTCTGTGCGTAGACATCACCGTAGGCAGTCTCCTGTCTCCTGTCT
CCATGAACTCACAGGCTTCTTTCCCTTCCTTCCCCTCTTTTTTCTTATCTCTCTCCCCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNCTACACAGAGGCCATTGAAGTGATCCAGGCAGCCTTCCGCACCCCGGCAACCACAGCCTCCAGCCCCGTGACC
ACTGCTCAGGTCCACTGTCTGCCTCTCTCGTCTTCCTCCACGAGGCAGCACATAGGTAAAGAGGCTGAGAGAGTTCCTTTCCTCGCTGGCAAGG
TCTTTGTGCTCTGGGACGTGGCACTACACTCCCTTTCCCTAGTCTTTTTCCTGACATGTGTTCCTCTGTGGCATGCCACCCGCTCCCTCCCCAC
AGTGCTCCTCTGCGCACACAGGAACAGGCAGTTCCCACAGACACTCACATTGGCATATAGGTCACTTAGAATCCCAGTAGACACTGGACATGGC
GGGGAGGGTTAAAGAAACACTACTTCTCATATTTGTTAAATTTGGAGAAAGATTCTAAGAAAGGTGCACAGCCCTGGGCCACAGGACAAGAAGT
AGGACCCAGGAAATATGCATACTGTATGACCCTTCCTTTCATGCCACCACCCTTCAGGTCCCCCACCTCCTCCCTCCCTCGGCACTCCCCGTCC
TTCAGCTCCCACCCTGCTCATGGTCCTGCCTTTGTCTTCCCACACTAACATCCACCTGTCACCCCCAACACATGCATTTGTACGAATGGATCTC
GGTACAGGCTTGAATTATGTCATTGTTCCCGGCCCGTGCTTTCTCTAACCTCTGCACCCTTTCTTCTTGTTCATTTTCTACCCTAGCCACAAAC
TCCACTGAGACCAGGAACAACTAGCATTCTCCCATCTTTGTATTATGCCAGCACCCCGGTGGCAGGCCTTCCATCTGGGCTCAGTAGGTTATGT
CTGCCTTCCACCTGGGGCAGTCCTCCCCTGGGAGCCTGCCTGTCACCTTCAGCAGGTCCTGGACACCTGATTCTTGCCTCTTTGTCCTGTACTG
TCCTTCCTTCCCCACCTGCTGTGGAGAACCTCTTGCTAGGATGTAACTTCTCATCTTTAAACACTGGCCCGCCTGGCCACAGGCTGCTTAGCCC
CGCTTTGATTAATGTTACATCTCAATGAATGGCTTTGTCCATTGATAGCGCTTTGGTTAGCTCATGTTTTCACGTTTGTATGATACATGCTGTT
ATTTTTGTTCGCATTTCTCATATGGGGGAATCTACAGGTAAACACAGCCTCCAAGTTCAGTAGAAAAATGTCATCATTAAGAGTATTATATCCA
ATAAACAGTAAACAGATTTTTTAAAAGAGAAAGAAATTTAGAGAAAAACGAGACATCACTTCCTTGTTACACCCTTTAGTTGAGTTCAAACTTC
TCAGAAGAATATGATAACTGCTGGTCAGCTCACCACCTCTGTCTGCCATCTGCTTCTGTCCCCTCCTCTCCTANNNNNNNNNNNNNNNNNNNT
CCCATTTTCACATGTGTTCCCTACCCTTTCCATCCCTTTAAAGCCTGTTTTCCGCCCCCTGGAGGCCTTTGCTAGTTTTCTGGCCTCTGCTCAC
GCTCACTTCCACATGAATATACATACGTGACTGTTGGAAGCTAGGATCCACACGTGAGAGAGAACGAATGGTATTTATGTCTCTGGGCTGCCTT
GATTAGTATTCTCCATTAACCTGCAAGTTTCATCTCTCTTTACGGCCGAATAAACTTTTATCATCTTCACACAACTCTTGGCTCTTGCACAAAC
TCATACTGGCCATGACTGTCAAAAGTATAGCCAGGCTGTAACAAAATCTAAGAGTGGCAATGAATACTTTCTGGCATTCAGGTCCTCATGCTTA
ACCCTGAAAGGGCATCTCTTCTTGGCAGATGCCAAGTTCCGCCCATCCTCACTGCTTGCCTGAACTCCAACAGTGGCTCCTAGTCAGCCTCTTT
GACTCTTTGCTTGCCCCTCCATCAGTTCTCTGCACCACAGTGATGTGACATGATAGGGCTCCAGTCACAATTAAAACTAAATACTTAGCAGCT
AGGAACACGGCAAGTGTCCCCTCCTCTACCTTTGGGAAAGCCAGGTAGGGTGACAAATATGTACAACCCGATAGCCCACTCATAGAGGAAAGGA
CACCGAGAGAGGTGGATCCACGGGACTCACTGGCCAGTCTCTAAAAACAAGATGGAGAAGGAACAAGGAAGTCACACAATGTTGACCTCCCCAC
ACCCCACACCTGCACATGAGCACACATCCCACAAACACAAAGCAAATACTTAAATACTGTATTAAATTTCCATCATTGTGACCAACTTAGGAGA
GATTTGGTTGGGCACACAGTTTTTATAGGTCCCATGGTCCACTGCCTTCGGGGTATAGCAAAACCCTTCATCACGGAGGAAGCACATGGTAGAG
GAATCCTACTCACTTCAAGGTGTTTGGAAGTACACAGAGATGGGGAGGAGCCCCAGTACAGATCTCTTTCAAAGCCACGCCCTCCATGACCTAA
CTTCCTTCTGTGAGGCCCCATAGTCAAAGAGTTGTATCACCTCCAGATAATGTCACAGGCTAGAAACCAAGCCTTTACTTAGCACACAGCCTTT
GTGGGACATTTTAAGATCCGAACCATAATACACAGTAAGCCTTTCAAATGCTGCCCAGTCCCTGTTACACAACAGACAGTTGACTGGATGAGGT
AACACCAGGACACCGCTCTGGCATGGTCATTGAGTCTCAGTGTTCTGACGTTAAGATTCAATGATGAGAGTCAAACATTTGCTTAGTAAGTGTT
ATGCTTCTGTTTCTTTAGTCACTCTGTACAGAAATAATCTGCTCTGGTTCCCAGGAATGCTTTTCAGGTGATAGAATTTAACTTAAGCTTTTGG
TATAGACACATTTAAAAAAAAAAAAAAAAAAGCCTCATTTTCTTGCACCAAAAGAAAATTTTCTAGGCAATGTGTATTCTTTAAAAGCTCATACA
GCTCAGAGAAAGGTGCCATTTTTAGTTCCTGCTTCTGTTATGAGTTTATTTTGCCTTGTATTCAGCAGTTTGCCCAGCCGTTAAAAAAAAAAAA
AAAAAAAAAAAAGACAAAAGGTAAAATGATAGAGCAGTTAGAAAAATATGCCTCACTTTACAAAGGAAAACATGTTTATCCTGAACCAAGAGAA
TTCAGAACAGATTCTGTTCAACAGAAAGACTGATGTACCCTGTAGCACTCTCTAATGTCATTTGATAACCCTGCCATTCACACAGCCAAGCAGC
ACCGGTGGCATGATGGGGAGGTGGGATGCCGTGCTGCGCAGGAGCTAGCAAGCACAACCCTCCATACCATAGTCCACACGGAGCCTGGGAGGGA
GCCCACTGCTGTGGATGGTGCTCTAGGGCACTGTGACAAAGCTCTCTGGGTTTATGTCAGAAGGGATTCAGGGCAGGAACCCAAAGACTTTGAA
TCTGAAACTGCTGAGCACCCCGGCTTGCTGCCTCATGGGCTCATGCTCCGCTAGCTTTCTTTTCCTTTTTTTGTTTTGTTTTTTTTTTTTTTTT
TTTCGAGACAGGGTTTCTCTACATAGCCCTGGCTGTCCTGGAGCTCACTTTGTAGACCAGGCTGGCCTCGAACTCAGAAATCCGCCTGCCTCTG
CCTCCCGAGTGCTGGGATTAAAGGCGTGCGCCACCATGCCCGTCTTCCGCTAGCTTTCTTACACAGCCCTGGACTGCCTCTCAGGGAGTGGTGC
TGTCTACAGAGGATAGGCCCTCCTCCCGATCAGTTAACTGTCAGGACACGCCCACAGACCAGTCTCATCTGGCTGGGCCCTCCCTCATCTGCAC
CTCCCTCCTCAAGTGATTCTAGACGTGTGAAGTTGACAGTTGAAGGTGACAGGGACAGCAGGCAGAACAAAGCCCTTGCCATGGCCTAACTCAG
CCCCTCATGAGTCTGTGCTTTCTCCGCAGATGAACTCCGGGATAGTGACAGCGTCTGTGACAGTGGTGTGGAGACATCCTTCCGCAAACTCAGC
TTTACAGAGTCTCTTACTGGAGACAGCCCACTGCTATCTCTGAACAAAATGCCCCACGGTTATGGGCAGGAAGGACCTATTGAAGGCAAAATTT
AGCCTGCTGGCCGTTCCCCCACACTGTGTAAACCAAAGCCCTGACAGTCCATTGCATCGTCCCAAAGGAGGAAGGCAAAGCGAATCCAAAGGTG
CTGGAGAATCGCCGGCCTGCAGGGTCACTCGATTTCATTCAAGGCCTTCCGAATTTGGCGTCCTTTCTTGGTTCTGAAATGAAATGTAGTTGCC
ACGCACAGACGGTGTCTAGCAATCATGGCGCTCGCTCGCTCAGCTGCACTCTATGGCTCAGGTGCAGTGTCTTGAGCTTTCTCTGCTGCTACTG
GATCACATTTGCTTTGTGTTGTTACTGCTGTCCCTCCGCTGGGTTCCTGCTGTCATTAAAAGGTGTCGCTGTCCCCACCCGGTGTCCTTTCTAG
CCATCTACTGTAAGTTGTGCATTCAAATTAAGATTAAGGAAAAACATATTTTTAAATGAGTACCTTGATGCGCAATAAAAAAAAGACATTTCTT
TTTTTAATGTGGTTTATCTGTGATTTAAAAATAAAAAACACATGAACTTACAATATTTAAAACATGCTACAATCAGTGCTGAAAATAGTATTTT
CCCCGTTTTATGCATTTTACTATTGTAAATATGTTTTCTAAATCAAATACTTTAAAAGAAGAAATGTTGAATTTATAAATGCTATTTACTTTTT
TATTTTACTTTTATAATAAAAGTACAAGCACATTGTTGACCTAATCTTGTCTGATCTCTGCAAATGCTTTCTCAGAGGAGTCCCTGTGACTGTG
GGAACAGCCCCACAGCCCGTTTGTCACATCCACATTCTCCTTTAGACACATTTCTTTGAAGCTAGAAATGTTCAAACTGTGGAAATAAAAGTGT
TCTAACCCAAGACTGAGGTTCTGACCCAGGCAACATCATCTGGACGCCTAGCATCAACATTCCAATCTCTACACCGTTCCTCTCCAGCGCATGC
TGTCTGTGTCTATGAAGGATAACAGACCCCAGCTTCAGCACTTCATCTTCTGGATACGATGTGGCCGTTGCGTTCATAGCTAACTACACAAAAC
CTGTACAAGATGTGGTCCTTCATCATGTATAGAGAGGGACTGATGAAATACACACACACACACACACACACACACAGACACCACAGCAACTGGC
TGTTAATAGTTGCTAGGGGAATGGGAGTCCTTTCTTCAAATGGTATAGCACATACTCCAGTAACTATTCCCTCCCCATGTTCATGCAGGCAGCC
CTAATTAAACTCACTCATACACACAAGCACAGAAGCAGGAAAGTAGGAGGCGGAAACGAGAAGGCAGCGGGGTTTGTGGATATGATCTCAGTAC
ATCCTATACATGTTTAAGATCATGAGAAAATATACATTTTAATTAAAAACTAAATTCCAACATATGTAAAAGATTTTCCAGTATGGAGTTTAGT
AAGTCTGCATGGCTGAAAGTAGAAAGAGGGAAGATTAATGGCTTGAAAGAGGTCTTAGTTTGGACTCTGGTGTGTGACCAAGGTCATTTAGTGT

GTAGTGTAAAGATCAAATCCAAAACCTTCTGGTGAAGTGGCTTGGCAGTTAAGAGCACTGATCTTCCAGAGGACCAGTCAGTAGGTTTAATTCC
TAGAACCCCTCACAGCTCACAACCACCTGTAACTTCGGTCCCAGGGAATATGATGCCCTCTTCAGGCTTCTGTGGGCACCAGGCATATAAATGG
TGCACAGATATACATGCAGGCAAAACATCCATACACACAGAAAGAAAAAACCAAAAACCTAAGGCCTTGTCATGCCACACAAGTGATCTACTAC
TGATCCCACGGAAGGGCCTGGAAACCCACCAGCTATTACCTTTGGGAACTGCCTTCACTACAAAGAGCTCTCACCCCCATTTCCATGGTAGTCA
TATGAATGCCTTTCCCATTGCTGGGACCTTCAGATCCTGGGAGACAGGCTAAAGTGATCTGGGCTATCTCCCTCACACAGCTCAAGGTACCCCA
AATAGACATCTTGTATGTCAGTGTCCATATGACAAAATATTCCAAACTTACAATGAAGAAAATGGAGGTCCAGAGAGCGCAACTCAGTTGTGGC
TAAGGTGCATCTGTGTTTATATCCAGATACTTAGCGCCTAGGCTTGTGAGTTAGAGAATGATTTTATTGGGACAAAAAAGATGATAATGACTGA
ATCTATTAGTAGGGATTTGGTATAAGATTAAGTAAAATATCATTAATGAAGAAATGATTAATTATTTAAATATATAATACAAGCTACTTAATAA
TACTTAAATTATTTAATAAATATTCTAAGTGCCTAATCATCAATTAATCGGAATCCCTTTCTACCAAAAATTCCATATGTATGAAAATTTAAAC
CATACGAATTTTAGACATACCACCAATCTTAGACAAACACCCTTGACATCGAGAAGGCCCTAATCGAGACTTCATTCTGTGATGTAAAAGCAGA
GCAGATTCTACCTCTTAGAATGCATCACAAATGAACAGAAACTGGTTAAACAGCAAATTCTGTTTTCCATTACAGTACCCTCTCTCCACCCTAA
CACACCCTTATTCTGCGTTGGAAACTTTAAGACAAAACTGTCTTGCTTTGGTGTTTCGTAATACTTCCTGGGACAGCCATGCCACCATGCCCCA
GCCAGGACTTTCTATGGCTGTTAGCTGTGCGTCTTAAAACATGGTGCTGAAGCCCTTCCCACAGAGAGACACCATTGTTCCTGGGTTTAGGCT
CCTGAGTCCAGGCCACCTGTGGCAAGGCAGGAACGATGCTGAGTGACTTCCGAAACTAGGTCCGAATTTCTGCCAACCTTCCCGGAACTACCTT
CTCCTGGAACTCAGTCACCCTGTTCAGAGGGTGCCAAGCAGCCATGAAGAGAAGGCCAGTACAGGTGTTCAGCCAACAGCCTTAACCGAGGTCC
TAGCCAAAGCTTGCCAAGCCGACGGCTGCCAGGTGACCCTGCCTAGCCTTTAGGCTGTCTCAGCAGATGCTGACCACAATAAACATGGGCTGTT
TTGCTGTTCTCAAAGGACAGATTTGAAAGCAAATTAAATACTAGTGGGGGTTTTAAGCCCTGGGTGTAGAGTGGACACCACCATTCTCCAGGCA
TTTGAAAAGACAGCTTGCCTACCATAAGTTCAGCAGAAAAGATACTGACTGGAGAGACGC

MOUSE SEQUENCE - mRNA

AGCGGCCGCCGCGGGCGCGCTCTAGCAGCGCAGGCCGGAGCTCAGGGCCCCGCGCGCCCGGCCCGCCCCGCGCTTCTCCGCCCGCGCCGCAGCC
ATGGCGCGCCGCTGAGCCGCCCGCCCGCCCGCCCGCGCCCGACCCGGCTCGGCTCCCGCCGGTCCGCGCCGCTCCGCAGCGGAGCCCGCAGGC
GAGGAGAGGCCGCGCGCATCTCCAGGGTACCCTCAGAGGCCAGAAGAGGGTGTCAGAGCCCTTGTAACTGGAGTTTGACGGTCGTGAGCTGCGC
ATCTTCACCATGGCAGACGATGATCCCTACGGAACTGGGCAAATGTTTCATTTGAACACTGCTTTGACTCACTCAATATTTAATGCAGAATTAT
ATTCACCAGAAATACCACTGTCAACAGATGGCCCATACCTTCAAATATTAGAGCAACCAAAACAGAGGGGATTTCGATTCCGCTATGTGTGTGA
AGGCCCATCACACGGAGGGCTTCCGGGAGCCTCTAGTGAGAAGAACAAGAAATCCTACCCACAGGTCAAAATTTGCAACTATGTGGGGCCTGCA
AAGGTTATCGTTCAGTTGGTCACAAATGGAAAAAACATCCACCTGCACGCCCACAGCCTGGTGGGCAAGCACTGTGAGGACGGGGTATGCACCG
TAACAGCAGGACCCAAGGACATGGTGGTTGGCTTTGCAAACCTGGGAATACTTCATGTGACTAAGAAAAAGGTATTTGAAACACTGGAAGCACG
GATGACAGAGGCGTGTATTAGGGGCTATAATCCTGGACTTCTGGTGCATTCTGACCTTGCCTATCTACAAGCAGAAGGCGGAGGAGACCGGCAA
CTCACAGACAGAGAGAAGGAGATCATCCGCCAGGCAGCCGTGCAGCAGACCAAGGAGATGGACCTGAGCGTGGTGCGCCTCATGTTCACAGCCT
TCCTCCCTGACAGCACTGGCAGCTTCACTCGGAGACTGGAGCCTGTGGTGTCAGACGCCATCTATGATAGCAAAGCCCCGAATGCATCCAACCT
GAAAATCGTGAGAATGGACAGAACAGCAGGATGTGTGACGGGAGGGGAGGAGATTTACCTTCTCTGTGACAAGGTTCAGAAAGATGACATCCAG
ATTCGGTTTTATGAAGAGGAAGAAAATGGCGGAGTTTGGGAAGGATTTGGGGACTTTTCCCCCACGGATGTTCATAGACAGTTTGCCATTGTCT
TCAAAACGCCAAAGTATAAGGATGTCAACATTACAAAGCCAGCTTCCGTGTTTGTTCAGCTTCGGAGGAAATCAGACCTGGAAACTAGTGAACC
GAAACCCTTTCTCTACTACCCTGAAATCAAAGACAAAGAGGAAGTGCAAAGGAAACGCCAGAAGCTTATGCCGAACTTCTCGGACAGCTTCGGC
GGCGGCAGTGGAGCGGGAGCCGGTGGTGGAGGCATGTTCGGTAGTGGCGGTGGCGGAGGGAGTACCGGAAGCCCTGGCCCAGGGTATGGCTACT
CGAACTACGGATTTCCTCCCTACGGTGGGATTACATTCCATCCCGGAGTCACGAAATCCAACGCAGGGGTCACCCATGGCACCATAAACACCAA
ATTTAAAAATGGCCCTAAAGATTGTGCCAAGAGTGATGACGAGGAGAGTCTGACTCTCCCTGAGAAGGAAACTGAAGGTGAAGGGCCCAGCCTG
CCCATGGCCTGCACCAAGACGGAACCCATCGCCTTGGCATCCACCATGGAAGACAAGGAGCAGGACATGGGATTTCAGGATAACCTCTTTCTCG
AGAAGGCTCTGCAGCTCGCCAGGCGACACGCCAACGCCCTTTTCGACTACGCAGTGACGGGGGATGTGAAGATGTTGCTGGCCGTGCAACGCCA
TCTCACCGCCGTGCAGGATGAGAATGGGGACAGTGTCTTACACTTAGCCATCATCCACCTCCACGCTCAGCTCGTGAGGGATCTGCTGGAAGTC
ACATCTGGTTTGATCTCTGATGACATCATCAACATGAGAAATGACCTGTATCAGACACCTCTGCACTTGGCCGTGATCACCAAGCAGGAAGATG
TAGTAGAGGATTTGCTGAGGGTTGGGGCTGACCTGAGCCTTCTGGACCGCTGGGGCAACTCTGTCCTGCACCTAGCTGCCAAAGAAGGACACGA
CAGAATCCTCAGCATCCTGCTCAAGAGCAGAAAAGCAGCGCCCCTTATCGACCACCCCAATGGGGAAGGTCTAAATGCCATCCACATAGCTGTG
ATGAGCAATAGCCTGCCATGTCTGCTGCTGCTGGTGGCTGCCGGGGCAGAAGTCAATGCTCAGGAGCAGAAGTCTGGGCGCACGCCGCTGCACC
TGGCCGTGGAGTACGACAACATCTCCTTGGCTGGCTGCCTGCTTCTGGAGGGTGATGCCCACGTGGACAGTACCACCTATGATGGGACTACACC
TCTGCATATAGCGGCCGGAAGAGGGTCCACCAGACTGGCAGCTCTTCTCAAAGCAGCAGGAGCAGACCCCCTGGTGGAGAACTTTGAGCCTCTC
TATGACCTGGACGACTCTTGGGAGAAGGCTGGAGAAGATGAGGGAGTGGTGCCAGGTACCACACCCCTGGACATGGCTGCCAACTGGCAGGTAT
TTGACATACTAAATGGGAAACCGTATGAGCCTGTGTTCACATCTGATGATATACTACCACAAGGGGACATGAAGCAGCTGACAGAAGACACGAG
GCTACAACTCTGCAAACTGCTGGAAATTCCTGATCCAGACAAAAACTGGGCCACTCTGGCACAGAAGTTGGGTCTGGGGATATTGAACAATGCC
TTCCGGCTGAGTCCTGCTCCTTCTAAAACTCTCATGGACAACTATGAGGTCTCTGGGGGTACCATCAAAGAGCTGATGGAGGCCCTGCAACAGA
TGGGCTACACAGAGGCCATTGAAGTGATCCAGGCAGCCTTCCGCACCCCGGCAACCACAGCCTCCAGCCCCGTGACCACTGCTCAAGGTCCACTG
TCTGCCTCTCTCGTCTTCCTCCACGAGGCAGCACATAGATGAACTCCGGGATAGTGACAGCGTCTGTGACAGTGGTGTGGAGACATCCTTCCGC
AAACTCAGCTTTACAGAGTCTCTTACTGGAGACAGCCCACTGCTATCTCTGAACAAAATGCCCCACGGTTATGGGCAGGAAGGACCTATTGAAG
GCAAAATTTAGCCTGCTGGCCGTTCCCCCACACTGTGTAAACCAAAGCCCTGACAGTCCATTGCATCGTCCCAAAGGAGGAAGGCAAAGCGAAT
CCAAAGGTGCTGGAGAATCGCCGGCCTGCAGGGTCACTCGATTTCATTCAAGGCCTTCCGAATTTGGCGTCCTTCTTGGTTCTGAAATGAAATG
TAGTTGCCACGCACAGACGGTGTCTAGCAATCATGGCGCTCGCTCGCTCAGCTGCACTCTATGGCTCAGGTGCAGTGTCTTGAGCTTTCTCTGC
TGCTACTGGATCACATTTGCTTTGTGTTGTTACTGCTGTCCCTCCGCTGGGTTCCTGCTGTCATTAAAAGGTGTCGCTGTCCCCACCCGGTGTC
CTTTCTAGCCATCTACTGTAAGTTGTGCATTCAAATTAAGATTAAGGAAAAACATATTTTTAAATGAGTACCTTGATGCGCAATAAAAAAAAAG
ACATTTCTTTTTTTAATGTGGTTTATCTGTGATTTAAAAATAAAAAACACATGAACTTATCAATATTTAAAACATGCTACAATCAGTGNTGAAA
ATAGTATTTTCCCCGTTTTATGCATTTTACATTTGTAAATATGTTTTCTAATCAATACTTTAAAAGAAGAATGTTGAATTTATAAAATGCTATT
TACTTTTTTATTTATAATAAAGTACAGCACATGTGACT

MOUSE SEQUENCE - CODING

ATGGCAGACGATGATCCCTACGGAACTGGGCAAATGTTTCATTTGAACACTGCTTTGACTCACTCAATATTTAATGCAGAATTATATTCACCAG
AAATACCACTGTCAACAGATGGCCCATACCTTCAAATATTAGAGCAACCAAAACAGAGGGGATTTCGATTCCGCTATGTGTGTGAAGGCCCATC
ACACGGAGGGCTTCCGGGAGCCTCTAGTGAGAAGAACAAGAAATCCTACCCACAGGTCAAAATTTGCAACTATGTGGGGCCTGCAAAGGTTATC
GTTCAGTTGGTCACAAATGGAAAAAACATCCACCTGCACGCCCACAGCCTGGTGGGCAAGCACTGTGAGGACGGGGTATGCACCGTAACAGCAG
GACCCAAGGACATGGTGGTTGGCTTTGCAAACCTGGGAATACTTCATGTGACTAAGAAAAAGGTATTTGAAACACTGGAAGCACGGATGACAGA
GGCGTGTATTAGGGGCTATAATCCTGGACTTCTGGTGCATTCTGACCTTGCCTATCTACAAGCAGAAGGCGGAGGAGACCGGCAACTCACAGAC
AGAGAGAAGGAGATCATCCGCCAGGCAGCCGTGCAGCAGACCAAGGAGATGGACCTGAGCGTGGTGCGCCTCATGTTCACAGCCTTCCTCCCTG
ACAGCACTGGCAGCTTCACTCGGAGACTGGAGCCTGTGGTGTCAGACGCCATCTATGATAGCAAAGCCCCGAATGCATCCAACCTGAAAATCGT
GAGAATGGACAGAACAGCAGGATGTGTGACGGGAGGGGAGGAGATTTACCTTCTCTGTGACAAGGTTCAGAAAGATGACATCCAGATTCGGTTT

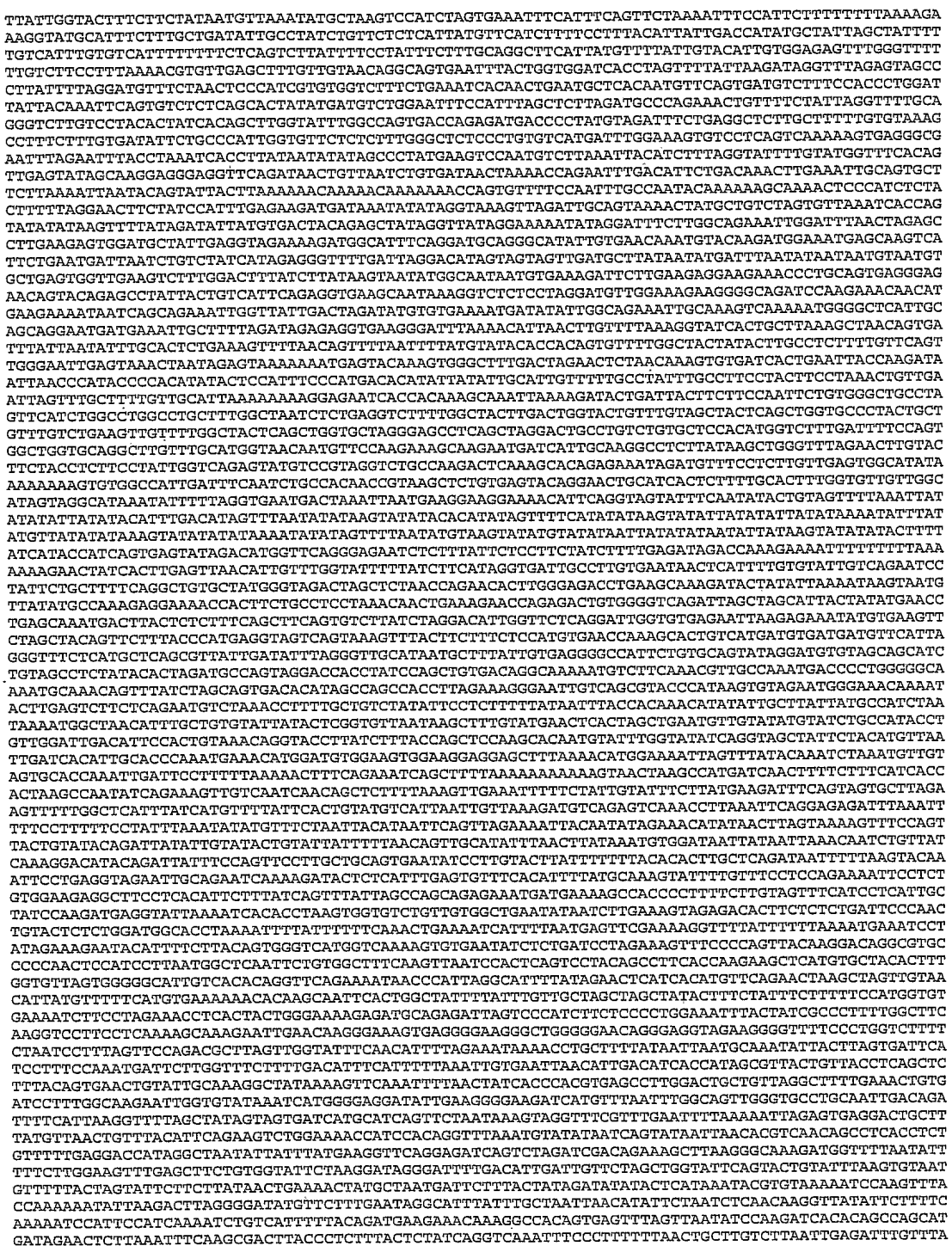
TATGAAGAGGAAGAAAATGGCGGAGTTTGGGAAGGATTTGGGGACTTTTCCCCCACGGATGTTCATAGACAGTTTGCCATTGTCTTCAAAACGC
CAAAGTATAAGGATGTCAACATTACAAAGCCAGCTTCCGTGTTTGTTCAGCTTCGGAGGAAATCAGACCTGGAAACTAGTGAACCGAAACCCTT
TCTCTACTACCCTGAAATCAAAGACAAAGAGGAAGTGCAAAGGAAACGCCAGAAGCTTATGCCGAACTTCTCGGACAGCTTCGGCGGCGGCAGT
GGAGCGGGAGCCGGTGGTGGAGGCATGTTCGGTAGTGGCGGTGGCGGAGGGAGTACCGGAAGCCCTGGCCCAGGGTATGGCTACTCGAACTACG
GATTTCCTCCCTACGGTGGGATTACATTCCATCCCGGAGTCACGAAATCCAACGCAGGGGTCACCCATGGCACCATAAACACCAAATTTAAAAA
TGGCCCTAAAGATTGTGCCAAGAGTGATGACGAGGAGAGTCTGACTCTCCCTGAGAAGGAAACTGAAGGTGAAGGGCCCAGCCTGCCCATGGCC
TGCACCAAGACGGAACCCATCGCCTTGGCATCCACCATGGAAGACAAGGAGCAGGACATGGGATTTCAGGATAACCTCTTTCTCGAGAAGGCTC
TGCAGCTCGCCAGGCGACACGCCAACGCCCTTTTCGACTACGCAGTGACGGGGGATGTGAAGATGTTGCTGGCCGTGCAACGCCATCTCACCGC
CGTGCAGGATGAGAATGGGGACAGTGTCTTACACTTAGCCATCATCCACCTCCACGCTCAGCTCGTGAGGGATCTGCTGGAAGTCACATCTGGT
TTGATCTCTGATGACATCATCAACATGAGAAATGACCTGTATCAGACACCTCTGCACTTGGCCGTGATCACCAAGCAGGAAGATGTAGTAGAGG
ATTTGCTGAGGGTTGGGGCTGACCTGAGCCTTCTGGACCGCTGGGGCAACTCTGTCCTGCACCTAGCTGCCAAAGAAGGACACGACAGAATCCT
CAGCATCCTGCTCAAGAGCAGAAAAGCAGCGCCCCTTATCGACCACCCCAATGGGGAAGGTCTAAATGCCATCCACATAGCTGTGATGAGCAAT
AGCCTGCCATGTCTGCTGCTGCTGGTGGCTGCCGGGGCAGAAGTCAATGCTCAGGAGCAGAAGTCTGGGCGCACGCCGCTGCACCTGGCCGTGG
AGTACGACAACATCTCCTTGGCTGGCTGCCTGCTTCTGGAGGGTGATGCCCACGTGGACAGTACCACCTATGATGGGACTACACCTCTGCATAT
AGCGGCCGGAAGAGGGTCCACCAGACTGGCAGCTCTTCTCAAAGCAGCAGGAGCAGACCCCCTGGTGGAGAACTTTGAGCCTCTCTATGACCTG
GACGACTCTTGGGAGAAGGCTGGAGAAGATGAGGGAGTGGTGCCAGGTACCACACCCCTGGACATGGCTGCCAACTGGCAGGTATTTGACATAC
TAAATGGGAAACCGTATGAGCCTGTGTTCACATCTGATGATATACTACCACAAGGGGACATGAAGCAGCTGACAGAAGACACGAGGCTACAACT
CTGCAAACTGCTGGAAATTCCTGATCCAGACAAAAACTGGGCCACTCTGGCACAGAAGTTGGGTCTGGGGATATTGAACAATGCCTTCCGGCTG
AGTCCTGCTCCTTCTAAAACTCTCATGGACAACTATGAGGTCTCTGGGGGTACCATCAAAGAGCTGATGGAGGCCCTGCAACAGATGGGCTACA
CAGAGGCCATTGAAGTGATCCAGGCAGCCTTCCGCACCCCGGCAACCACAGCCTCCAGCCCCGTGACCACTGCTCAGGTCCACTGTCTGCCTCT
CTCGTCTTCCTCCACGAGGCAGCACATAGATGAACTCCGGGATAGTGACAGCGTCTGTGACAGTGGTGTGGAGACATCCTTCCGCAAACTCAGC
TTTACAGAGTCTCTTACTGGAGACAGCCCACTGCTATCTCTGAACAAAATGCCCCACGGTTATGGGCAGGAAGGACCTATTGAAGGCAAAATTT
AG

HUMAN SEQUENCE - GENOMIC
TTGACAAGCTGGTTCTAAAATGAATTCAGAAATGCAAAGGACCTAGAATAGCCAAAACAACCTTGAAAAAGTGAACAAAGTTGGAGGACTAACA
CTTCCTGATTTCAAGACTTATTGTAAAGCTATAAAGTAATCAAAAAGGTGTGGTATTATCATATAGATAGAGAAAAGATCAATGGAACAAAATA
GAGTCCAGACATACAGATACAACTGATTTTTAACAATTTGCAAAGGCAATTTAGTGAAGAAAGGATAGTTTTTTTTTTTCAACAAATGCTGCAGA
ATCAGTTGGAAATCAATAATCTAAAAAGAAAAAACTTCAATCCATATCTTGTACCACTATATGCAAAACTTAACTCAAAATGTATCATAGACCT
GAATTTAAGTCCTCAAACTACAAAAGTTCTAGAAGAAAATAGAGGAGAAAATCTTAGTGAGTTTGAGTCAGGCAAAGAGTATGTGGATACAACA
CTGAAACCACAATGCAGTAAAAAACTGACAAATTATACTTCATCAAATTTAAAATCTTCTCTGCAAAAGAGGATGAAAAGACAAGTCACAGGCT
AAAAAATATGTATTTGCAAATCATATATCTGGTAAAATACTTTTATCCAGAATATAAAATGAACTCTCAAAATTCAATAATAAGAAAAAAAATA
CACCAAAAGTAAACAAAACATTTGAACATGCATTTCACCAAATGGCAAATAAGCACATAAACAGATGCCCATCATCATTAGTCATTAGGGTAAA
GCAAAGTAAAGCACAATGAGATACCACTAAACATATCAATTGAGACGATTAAAATAAAAAAGACTGACCATACCAAGGATTGCAAATATATGAA
GGAGCTAGAACTCTCATTTCCTGTAGTGGGAATATAAAATAATATACTCTTTGGGAGAACAGTCTGCAGTTTCTTAAAAAGTTACATGTATGCT
AACTATACGCTCTAGCCATTTCACTTGTAGGTATTTCCCATGACAAAAGAAAGTATATGTCTATATAAACAGTTAAATAGTTACACACAAATGT
TTTAGTGGTTTTATTAATATATCCCAAAACTGGAAACAACCTAAATGTCTATGAACAGGAAAATGGATAAATAAATTGTGACTATCTATACAAT
GGAATGCTACTCAACAATAAAAAGGAATTAACTACTGATACAACAAGGTGGATGAATTTTAAGATAATCATGCTCAATGAAAGAAGTCAGATAA
AAAATAGTACCTACTGTATGATTCCATTTATATGAAACTCTAGAAAATGCAAACTAATCTATGACAGAAAGCAAATCAGTGGTTGCTTAGGAAT
GTGGAGGAGTGAGGAATGGAAATGAGGAACTGCAGAGGGCCATGAGAAAACTTTTCAGCTGATGCACATGGTCACTGTCTTTATTATGGTGATG
GTCTCATGGGTATATATATATATCAAAAACAACTCTCTCTCTCTCTCTCCAATCCCCCAACCCCATCTCTTACAACAAGAAAGTATGTCC
CTAGTATATCTGGAAGCCATCTTTTGACCAAGAGAAAAGCCAGCATGAGGAAACTGTTAACACAGGGACAGAAGAAAAGAAAATGTCTCTGAAG
GGAAGAGAGCCAGAATTGTGATTACATTAAACCTAAAGATTTTCAACGATGTGACCTGATGAAATTCCATAATGGTTAAGTCATTTTGAGTCAT
AATTTTACATCTTTTCACCTTAGGTGAAAAGCATCCTAACCAAGATAAGTATATGCTCAGCATTATATTGATAATTTATAATACGCCATTGGAA
AAAAACTCTCTTCCTGGCATTTAATTATATTACTTATTTCAAAGAAAATGCAGTAAAAAACTGATCTGTATATCTACTGATATGTCTATCAGTA
AAACAGATAAGTATATCTATGTATACCTACTATGCATAAGCCTTACAGGTGCTACATAGAGGTGATATCTGTTGTTTATACTCTTTGTCTTCCC
TTCTTCCTTTTTTTGATAACAGTGCCCCAATTTACGCTTAGCTAACCATAATCTAGCATTACTAATTCATGTCTTCCAGATGAGATAGACCCTC
CTTGTCACTAAAAGTAGACATGTGACTCACAGCATTGTAAGAAGATAGTAATGGAACACAGGTCCCCAAATTTACCCTCCCAATCTCTTCTCAA
TTACTTTCCCCAACAAGAAAAAATGCTACTGCAGGTAAGCAGGGGCATCTAAAGCAGGGTCACTTGAGGTCACAGGCTCCAGGGTCTCTAAAAG
GAAAGAGATACTCTCACTCTTCTCTGTTTTAGGTAGTCTGGAGGGCCTTGTTATAGAAAGACTTAAAACAAAGGTCTCAATTTTATGGCTTCCA
GTGAAAGTTAGCCTGAGGAAACCTATGAATGCCTTCAGGAAAGCATTACATGGGCTTATTTGTGTGTGTTCTTGGGAAGGTCAGACTAATCTGG
GTAGTGACAGGTCATATGGAGGAACGCTGCACTCATGGAAGAGTTGCTTGTAGCCCCTGAGGTTAGGCAAGCATTCTCCCTTGCACCCAGGGAG
CTCTGGGAGAAGAAAGACTTTTTTTAAAGCTTCAGCTGGGTGTGGACAGATTGCCAGTTGGTTTACTGCCAGCCCACAAAAGCAGAAACCTTTC
CCCTGGCAGGTTTGCCACTGCATAAAAGACCCTAACTACTTGTCCTGTAATTATAGGTCAGTGTATACAGAGCCTGAGGTCTGAACAGGAAATG
GAAAATAATAACTTGCCCTAGTAGTACTAGCAAGCCAGAGAGGAAAACTAAGATAAACACTTCAAACAGGTGTTTTGTTGAAATAGAACTGTTA
GAAGAGCCAGGTGAAAACTTTTCTAAAAAGTAATAAATTCACTCAAGAAGATATAATTAAAGATTAGGAGTTAAATATATGATAGATGCTAGAA
TGATAAAATATACATATTTTAAAAATAGGTAATGACTCCATGTGTTTCTGACAGTATACCCTTCCTGGTTGAAATAACTAAAATGAAATAACTA
ATGGAAATAACTGAAATGCTACATAACATATTTTTAAAAATTAATACTGCTTAGCCAGCATGAAATTCAGGAATCTAAATATTTCCAAAACTGA
AAAACTGGAGGGAATAGCTGAGAAATTGACTTAGTCTGTTTTGTGTTGCTATCACAGAAAACCACAGACTGGGTAATTTATAATGAAAAGAAAT
TTGTATCTCACAGTTCTGGAGGCTGGGAAGTCCAATATCAAGGTGCCAGCATCTTGTGAAAGCTTTCTTGCTACATCATCCCATAGTGAAAGGC
AGAAGAGCAAAAGAGCAGACACTCAAGAGAGAAAGTAACCTACTCCTACAATAATGGCATTCATCCATTTATGGGGGTAGAGACCTCATGACCC
AATCAGCTCTCAAAGGTCTCACCTCTCAACACTGTTGAATGGGGAGTTAAGTCCCAACACAGGAACTTTGGGGGACATGTTCAAACGATAACAC
TGCCTATCTAGTCCTTGTCACTGGACAGAAAAAGAAGAAATTCTCACCTGTGAATTCATAACCACTTACACTATATGTGATGATCAAAAGCACA
CAAGTAAAAAATTTTATTTAAGGTTTTTCCAAGTTAATAGTATACCAGATAACAGGCAAAAAGAAGCACAAATATTCCTTACTCAATTTTAACC
TAAGCTTCAAATAATTTCCAGAGATTGTTTCAAGAAACGTAAGCAATTTATTATTTATAATTCAGTTGACATATTAAACAGCATATGAAATATA
GCTGAAAAGAGAATTGATAAACTAGAAGGCAAATATAAAGAAATTATCCAGAATGAAATCCAAAGAGATAAGAGATATTAAAAGACACAGAGAT
TAGATTGAGAAGATCTAACATATACCTAATTTAAATTCCAGAAAACAAGTCTAGGGAAAATGAAAGAGAGGAAATGTTACAAAAGATAATGGAC
TAGGAATGTAACTGTTGAAACATCAAATCTTGAGACCCAGGGAGCCATATAACATGCTTCCAAAATCCAAGCTTATTATATTAATATACAAAAA
CATTAATATTAATATTATATATTAATGTTATTGTTAATATAATCATTATATTATTAAACATATAATTTATACATAAACAATATATTATATATAA
ATGTATATGATATATAATATACAATAGTTATAATATATAATAAATTATATATTGACTTCTATATAATATAGAATTATATAACTTATAAATTATA
TATAGCTTTATATATAAATCAATAATTATATATTGATGTGTACAATTATTATTTTATATTATTATTAATAATTATATAATTGGTATTATATAAA
TATTAATTTTATATTGCAATAGTTATAAAGTAAATATCATATAACATTATTAATATAATAAATATAGTATATTAATATTAATAACTTGTATTTA
TTAACAATATATTAATAAATGACATAATTTCACATTTCTTTCAGATTTCTGTAAAAGCTTATCAGGAGTTATATATATGCAAAACCATATTTAT

CTTATTAAAGAGGCATGTATAAGTGTCAGACCATCACTTATGAATAGATTTGACAGCCAGATATACAACCTTTCAGAAAACAGAAGCAAACCTC
CTCCATAAAAACAAGTAATTGGCAGCTGTCTCAATGATGTCCAGTAACTAGCCTTATTTCACTCAGAACAGTTTTGTCGGCTTCATATAGCATG
ACCAATCACCCTGGTTTACTAGAGCCTGAGGGTTTCCTGCGCAAGGGACTCTCTGTGCTAAAAGCAAGATAGTCCTGGATCAACCGGGATGAGT
TAAGTCTCTATTTCCATGCCTTCATAGAAATCATTAAAAGATATCTCTCTGTTATGGGCTGAATAATGTCACCCACCCTGAAATTCCTATGTTG
AAGTCCTAACCCCCAGTACCTCAGAATGTAACTGGATTTTGAGATAGGGTTTTTAAAGAGGTATATAAGTTAAAATGAGGACAGTGGGATGGGC
CCTAATCTAATATGACTGATGTCCTTATAAGACGAAATGATTTGGACGTGGACACAGAGGGACAACCACATGAGGACAGGGAGAAGATGGCCAT
CTGCAAGCCAAGGAGAGAAGCCCTCAAGTAAACCAATGCTGCCAACACATTGCTGTTGAACTTCCAGTCTCTAGAACGATAAAAAATATTTCTG
TTGTTTAAGCCACCCAGTCTGAGATATTTTGTTTTGGCAGCCCTAACAAACACATTCTCTAAGGGTTTATTCTCATTTTTGGTTTAGTGTATTT
CAGCTGATGATTATAGCCTAATCCTCCCCCTCTTCTTGGGGCCTCTCTTCTCTGTACTCTTCCTCCTCATATCTCACACAGGCAGATTTGTTCC
TGCCTCCTCACCTACATTACGAGCTCCGCACAGTCTCCTTTCTTCTGGCTCCGGCTCCCTCATTAATCTTTCTGTTATTAACGCTATTAACTCG
TTAAACTATCTCTCCACCTTTCCAAACTTCCATTAACTCTGGCACTCCATAAGTGTTAGTCAAATAAATGAAGAATCACACTAACTCCTCTTTC
CTTCCCTCTCACTCCAAACTCTTGGTGAGATTCTTTTGCACTTATGCCCTCGTTTCCCCATTTCCCACTCACTTGTCAGTCTCCTCATTCTTGG
TTTTCCTCATTATATTGAAACACATCTGAAAAAGTCATGTAAGACCACAGCCACTGCGTATCAGTGCTATTTGAGAGTTAATAAAGTTCCCTTT
TCCTCCAAGACAGCGAGCAGAGTGAACAGAAGAAAGACTGGTTTCTGCCCTTGGCTGCACAGCCATGCCCCGAGGCCGGGCTTAGGATTTTATA
ATTCACAAAGTCAACTGTCTCTTCCCCTCTCCATCCTTTAGGAACTGTCTGCAGTATCTGACACTGTTGAGAGCTCTCATACCCTTTAAACTCT
CTCTTCTCTGGCTTTCTGAGCTTTCCTCCCACTTTTGATGGCACTGCAGGAGTTTTTAAGCATCTCTCTCTCATACCAACCCCAGAAATAAAGT
CATTCCTCGAATTCCTGTACTTAGCCCCTTGTCTCCTAACTCTTTGACCACTAATGTTTTAGAAACACTCTCCTGACAACTATCGCATCTTTGC
AGTTGTTTCCATTTCCAACGCCATGTCTCTCTGAGCAGCAGCCTTGAGTTTTCAATTGCATATTTATTAGTCATTTCCATATGGACATCTCACT
AAATCTGTCATACTAAACATGTCTAAAATATGTATGTTTACATGTTACATGTATGTTTGGTATGTGGGAATGCATTACATTCCCACAGATTTTT
TCCCAGTTACAGTGTTACTATTCTAATCACTCAGACTAGAACACTCAGAGCTATCTATGAGTCTTCCTCTCACTCAAACTGCATATATAATCTA
TAAACAGGTCCTGTTGACCTCATCTTCTAAAAATCTCTTACATGCTCCTTTTTATATCATTGGATAATAGTTTAGTGTGGTGGTTAATATCATG
CACACTGGAGCCAAATCTGTTAGGTTCAAATCCTGACTCTCCTTCTATTTACTAATTATGAAACCTTAGGAAAATTATTCAACTTTTCATCTGT
AAATATGGGGATTATAATGGTGATCCACTTTATATGACTGACAACCAAATAAGTGAATACGTGTATAGCAGGTATTAACCATATGCTTAGCCGA
CCTATTTCAACCTCCTAACCAACCAGAAGAACTGTAGTTCCCTGCTCTCTTGCATCTAAGTGGGGCCATGGAATGTGGGCAGAAGTGTTGTGTC
ACCTTTACTCAGAGGCAATTAAAAAGAAGACATACTTTTCCTATGTTCTCATTGCCAATGAACACACTACACAGATCTCAACCTCAGAATTCTC
TCCACACTGGTATTTCCAAAATAGCTTCATGAGAAGGGAAATTTGTGTAGTTTCAATGATTTAGTGATGCTATGGTTTGGGTATTTGTCTCCTC
TAAACCTCATGTTGAAATGTGACCCCAATTTTGGAGGTGGGGCCTAATGGGAGATGTTTCGGTCATGGAGGTGGATCCCTCACAAATAGATTGA
TGCTATTCCCTGCAAGGAGGAGAGGATGAGTGAGTTCTCACTGCATTAGTTCCTATGAGAGCTGGTTGCTAAAAAGTTTGGCATCTCTCCCCTC
TCTCTCGCCATACGATCTCTCTGCACACACCACCCGCCTTTGCCTTCCATTGAGTGGAAGCAGCCTGAGGCCCTCACCAGACGCATATGCTGGT
GCCATGCTTCTTGTACAGTCTGAAGACTGTGAGCCTAATAAACCTCTTTTCATTATAAGCTACCTAGTCTTGTGTATTCTGCCATAGCAACACA
AATGAACTAAGACAAGTGACAAACACAAAATAACTTGTCTTTTAGACAATATTGATGTCTGAAATTCCACATTGAGGCATTTTTTTCCTCTTCG
TAGCCTGATAATGGCAAATACCTTCTGACACCTTAGGATGGATGAATTTGTAAGAGATATTCCTGGAAGCAGGTTTGTACAGTGTAGAGAAAAT
GTTGGGTAACAAAGCAGGAATGGAGGAGGGTTAATCAGCAAGCCAAAAAGCTTTTATAGTTTTGCCTGCTGTGCTGCATGGAATTACATCCCCC
CAAAACATATGTTCAAGTCCTAACCACAGGTACCTGTGAACATGAGTTTATTTGGAACTAGGATCTTTGCAAATGTTATCAAGTTAAGATGAGG
TAATACTGGATTGGGGTGGGCTCTAAATCCAATGACTGGTGTCTTCATAAAAGAAAGGTGAGGGAGAGTTGAATATAGCGACACAAAGGAAACA
CGGGGAAGGAGACCATGTGACAATGTAGGCACAGAATGGAGTGTTGCAGCCAAGCCAAGAATGGCAAGGATTGCTGGAGCTACCAGAAGCTAGG
AGGAGGCAAAGGATTCTTCCCTAGAGCCTTCAGAGGGATCATGGCCTTAATGGCACCTTGAGTTCAGAATTTTAGGCTCCAGGACTGTGACAGA
ATAAATTCCCGTTGTAAGCTGTTCAGTCGGTGGTAAATTTTTACAGCAGCCCCAGGAAAATATGCCTGCTCAACACCCTACCCTGAATTTTAAG
TTCATTTTATGGAATCATTTTGAGTTTGGAGTTTGATTTAATCCTTTTCAGTAATTAACGCTCTTCATTTTTTACTCCCAAATATGTCACACTG
GCTCTACTCTTATAACAATTGTATTTATCTATCTTTTGGTAATGGGGCTGCCACCCCTTGCAGAATGAAAAGTAGAGTGTGTATGCTCACACCT
CCCTCCCTCCCTCCCTCTCTCCCTCCCTCTCTCTTTCTTTCTTCTCAGAGTATCGCTCTGTCTCGCCCAGGCTGGAGTGCAGTGGCGCAATCT
TGGCTCACTGCAACCTCTGCCTCCAGGGTTCAAGCGATTCTCCTGCCTCAGCCTCTGGAGTAGCTGGGATTACAGGCGCCCGCCACCACGCCCG
GCTAATTTTTTTGTATTGTTAGTAGAGATGGGGTTTCACCATATTGGTCAGGCTGGTCTCAAACTCCTGACCTCAGGGGATCCACCCGCCTTGG
CCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCGCACCCGGCTCACAGAATTTCTTAAAAAGTCATTGTGTTCAGTCTTTATGGATCCTCT
AAATTCCAGCTGCTCAGCCTCCCGGAGCTAAATGAGATCACTTAAAGGTCGACTGTTGGGGCCTCCAAGGTCGCCTCGGAGACTCACCTCATAG
GCAATCAAATGGATCGCTGGGTTTTTGTGTGTGTGGGTTTTTTTTGTTTATTTTTTTTTTCCAGAAAAACACTCCACCAAGAAGGTTTTTATAA
CCTACTGGAGGAGGAGGATGGAGAGTGGGCACGAAAGGACTAGGATGAACATGCCATAAGCAATCTAAATGCCACTGCAATATTGCCTGGTGAG
GACCTGATTACTGATGTTTTAAAGCTAAGCTTTCAGTTGTCACTCCACCCAGTAGTGAAACAATGAGCTCTAAAATATATATTTCGGCTCAAGC
TTTCTTATGTGGGGAGGTAATCCACCCGAAGGTATCCCCAGCCTGTACCTAATACAGTGCCCAGCACTAAAGCAGCTCGATGCCAGTGAATGG
TGGCCACTGGGAGGCCTGTCAGTGGGTGCCAGTAGCGGTCTCTTCAGAGAAAAAGAAAACTCCCCTCTGCCAGATCAGTATTTTATGAGCTGTG
AACCAAAACCATTGCTACCACCATCACTATAATTCTATCCACAGTAATTATCATAAAGGCCTAACAATGCCTTGTAGATGAACATTCTGAGTAA
CTGCTCTATAACCAGGAGATTTAAGACCGCACCAAAAACCAGTAGAGGGTTATACTTTACTGGGCACAAGTCGTTTATGATAATCCCCAACCCCAG
TTTAATCTGTGAAGAGATGTGAATGTAACTGAGACACGCTTAAATGGAATATACAGATGAGCTTTATTTTTATATCTGGCATGCTTGGATCCAT
GCCGACCCTCCAGCTGCTCGGGCCTGCCCTTAGGGGCTATGGACCGCATGACTCTATCAGCGGCACTGCCACCGCCGCCGCCTCCGTGCTGCCT
GCGTTCCCCGACCATTGATTGGGCCCGGCAGGCGCTTCCTGGGGGCTTCCCTACCGGCTCCAGCCCTTGGGATTCGGGAGCGCCCTGCTAGGAA
GCCAGAGCCCCGCAGGGGCCGCGGCGTCCAGGCCGCCTAACGCGCGCCCCTCGCCCGGCGCCCCGAAGCGGCCCCGAGGGGCGGGAGCCGAGGC
GAGCGGCAAGGCCGGGCCGGGGGCGCACAGCGCCCCTAGAAGTGCGGGCTTCCCCCACCCCCGGCAGCGACCCTACCTCCCGCCCCCGCTGCGT
GCGCGCGTGTGTCCGTCTGTCTGTATGCTCTCTCGACGTCAGTGGGAATTTCCAGCCAGGAAGTGAGAGAGTGAGCGAGACAGAAAGAGAGAGA
AGTGCACCAGCGAGCCGGGGCAGGAAGAGGAGGTTTCGCCACCGGAGCGGCCCGGCGACGCGCTGACAGCTTCCCCTGCCGTTCCGGTCG
GGCCGCCAGCCGCCGCAGCCCTCGGCCTGCACGCAGCCACCGGCCCCGCTCCCGGAGCCCAGCGCCGCCGAGGCCGCAGCCGCCCGGCCAGTAA
GGCGGCGCCGCCGCCCGGCCACCGCGCGCCCTGCGCTTCCCTCCGCCCGCGCTGCGGCCATGGCGCGGCGCTGACTGGCCTGGCCCGGCCCCGC
CGCGCTCCCGCTCGCCCCGACCCGCACTCGGGCCCGCCCGGGCTCCGGCCTGCCGCCGCCTCTTCCTTCTCCAGCCGGCAGGCCCGCGCCGCTT
AGGAGGGAGAGCCCACCCGCGCCAGGAGGCCGAACGCGGACTCGCCACCCGGGTAAGCCAAACTCGGGCGAGTGGGGGCCCGGCAGGGGACGCG
TGGCCCAAGTCCTGCCGCCCAGCCCTCCGCACCCCCTCCAGCCCCACTCGGACTTCCTCATTCCTGCGCTAACCGCTGGGCTAGACCGTGGGAG
GAGGTTGACAGTAGCTGAGAGGCACATGGGATTAGCGACAGCGGGGAAAGACACATCCGGACCTCGCAGGGGCTAGTCGGCCGAAGGGCCGCGG
CCGCCCGGCGGTCATTTCTCTTCACGTCCCTCCGCGGGGCGGGAACGCGAACCGGAGGGGAACTCTTACAAACTTTTAAAATCCCCAACCCCAG
CCCCACCTGGGGGATGGTGAGAAGGTTGGAGTGCGCTGCGGCGCGGAGGAGAGAGGGAAGGTGGTTGGTGCAGTGCAGAACCAGATTTCACCTA
AGGGCGTTCCATGAAATGAAAGCAGAAGTGCTTGTCAGTCCTCTTGGCTGGGAAAGCCCTCCCCAGCTCCCCAGAATTGAATAGGAGAGTCTAT
TCATCCCTCTCCTACTTCTAAAAGAAACCTGGCTCGCTCTCTGTCTCTCTCCCCCCTCCCCCCCTCCGTGCGCGCGCGCGCGCGCACA
CACACACACACACACACACACACACACGATATAGTCACCTGCTATAGGACTTGATTCTGATCCTCCGGGGCCTGGCATTTGAGAGAGAAAAT
AAATTACCTACCTGGATACTTAGAGCACTTTTTAGACTTGATTATGTAAAACTCTTGGACAGTGCCACCATGCATTATGCATGACCGCTGAAAC
AAAAATAATGTAAAAACAAGGCCTATCCTAAATGCAAGTTTTTCTATGGTCCTTAAAAACAGACACCAGGGAATGTTTGCCCTGACTTGCTGGT
TTATCCTGAAACTCAAATGGGACTTAATGATACAGGATTTAATTATCAAGATTGACATGTTCATGGACTTTGTTAAGTAGAGGTTTTCAGCATT

ACAGTTTATGAAATAACCATATTTAACTCAAAGATTTTTTTATAAAGCTCATAATCTGAAAAAATGCTTATGGTATTACTAAAACATTTAATAG
CTCTGGCATCAAAATATTCTACATACTGGTGATCTTTTAGTAAATAGTAAAGGTTAGGGTCAAGATATTCAATAATTTTTTTCTAGCAGAATCC
CACAACTGAATATTGTCAAGCAGTTTAAACTGCATTCGTGTTTGTTAAAACTTTAAAAGGGAAACTTTAAAACTAAAGTATGTTGTTTTTCTGAT
TTTAATATTGTGCTTTCTAGAGATGAATCCTTTTACTGTTTGAGGCACTATAGGAATTATGTATTTAAATGTATGTATTTAAATTTGAAGCAAT
GTACTTTTTTGAGTTTATAAACTTGGGAAGACAGGAAATAAAAAGATTTGTTTCCTGTAGAATTTTACATTCATGATTTAATTGAATTGCTAAA
ATGGAAAGAACATGTACGATTAATGGAGACTTGGAATCTGAGATTATTCATCCATATTGATACACCTGCAATTCCTAAATGCCCTCCCCTGCTT
GTTTAGATAAAATGTCTTCCTGGGCTGCAGCCTACTGGACAAACTTGAACACAAAGGAACACACGTTATATGTACATTTAATACTGGAACCGAA
AAGCTGCTTGCAGTGAAAAGCAAACCACTTCTAAACTCTTTGAGACTTTTTAAAGAAGGTAGTATAATCCTTTTAGGGGTTGGTGGTGATGTGA
AAATCTATTATCTTTTTGCTGAAATTTCATTCTTATGTTAGGCATTGGCACTCACTTGTGCTGAGTAAATGCCCGTGTTTTTCAAACCCAGATA
GTAAATACTGGGGGTATACATACAAAAATAGTCCTTCCCCTTTGTAAGCATTGCTTTGATCTTTGCACTTCCTTTTTACTCTACCTCTTAAACA
AGATCTGTGTTGATTGAGTTGATTAAAGCACAATTAATCTGAAATAGGCAGAATTTTAGATTTAGTGATTATATTCCTTACATTTCTGTTGTTA
CTGTTCCTGGAAACAAATTGAAGTAGTTTGAGAAACTAATATTTATGCAGGTTGTTTTAACTACACTTTTAGACTTGCAGATAATTGATTAAGT
AAGTTACTACCTTGACTTTCAGGGATTGCTCATTGTGGTAGATACGAGGTCTAGATAGGGAATTGGCAGCTACATGAATGTTGGACTATCATTC
CATCAGCAAGACCTTATTTTTACCTAATTTATGAGAGGTATTTCTCTGTTCAGAAGAGGTGAAAGTTCTGGCTTCTGGGGGGAAGTGGTTACTT
CATAACCTTCAATTGGTTTGAACTTGGGAGAAGTAAGAAAAGTAGTCGATATTTTCAAACAGTAAAATAATTGTATCTGAGTTGCTGTATGGAT
TTTTGATGAAGTACTCAAAATGTCATCTTTTGCATCTTCGGGTCTTAGTAGATGTGCTATTCTGAGTATAGAATTGACTGCAGTAGGAAGTGTA
TCTGGAAATGCACAGTACTGTTGTATAACCAATAGAGTAAATTCTCAGATTATGCTCTTCTGGTCCACAGATTGATCAGAAATCACATTAACAG
GAATGGATGTCTATGCAAAATTTCTCATTAATTTTCTTACTTTTAGTAGGAAGTTTGTTTTATTCGGTTGGTCTGTTGGTTTTCTGTTTACAAG
GTGAATTGTCTACAGTAGTGGGATTGTTATATTAGAAGAGAAGGAGAAGGAAAAATAGAAGTTAGTGCTAGAGGATATGTTAAGATGTTCTGCT
CCTACATCTACATTTGTGTCTAATCAGCATTAATTGATGACTACGTCTTGGTAAACAGTAGACCATACTGGAGCAATTTACTCTGCTTTTTGGG
AATTAGTTCTCATTTGCACTCTTGCACCTCCCATAAATACTGAACTCACTTGTAGTGTTCTTAGAGGTCAGCAATAAACCATCAAGAGCATATG
ATCTCTCTTTGAATTTTGTCACTACTTTGGAGACAGACAGTTTGGAAGAACTGAAGGTACTCAGCCTCAGGGAGAAAGGTTTGAACGTTTTGGC
ATAGTCCTGCAAGTCAGTTTGGCTCCTTGACTGTGAATTTTTTTAATCAAAAAAGATTAATATTTGAAACCACATAATTTGGACAGTTAATAGT
TCTGGTAACATAACCAAGCCTTTTATCTTTGTAGTATTTCATTAATTAGTATCCAGTGCCTCACTTTTAGAAGAAAAAAAGAGAAAAAAGTAGT
AACATTCTTTTAATGATGATGAAATTGCTTCATACCTTTGGTCTCTGCTGTATTAGGGGTTGTTCCTGGGTGCAAATTAATATACTGTCTTTTA
CATTTCCGGAGGTTGTTGACCTGGCCTTGAAGATCAGCCAACAGTTTAGAAAATAAGTTGTGCAAATTGCATTGCTACACCTCAAATAATTTAA
AGCCTGACAGTTCTGTACAGAATAAGAGTCACATAAGATGTGATTTGTTAAAGATTATAGAAATCTCAGAAGATAGATTATGGATGAAAATATT
TGTTTAATTTAGAGTACTAATAATAAAAATAGTGCATTTTACATTTTAAAAAGAAAACAATTTTTATTGTGTCATATTTTCTGTAGTAACAAAC
AGAATTAATTATCAGTAATACAAATTTCATCTGCTTTAATTTATTGCCTGTTTTTGAAATTAGAATAATGATATATTTGGTTTAATTATCCATT
ACAAATTGCCTTATTATTTTTCATTCATCTTTCACCATTAATCCAGAAACCTTAAAATAGCTTTTATTTTGACCCATGCCTTCAGTAGATATCA
ACAGACTTGAGTTCATCTATGGATCCTATTAGTTTAAACTGTGACAAATTTTGACTGCTTAAGCTTTAGAAAAGAATTTATTCTTTAAAATAGC
CAAAATTATAAAAAATGAAATAAAGAAAAAGCTGTTTGAGAGAATCAAATACTCTAGTTTAACTAAAAATAAATAATATCTAATCAATACTGAC
GAAAGAAATATCTGATGCTTAGCATTGTACTTGTTGGTACATAGTAAGCAATCATTAACTGTTAAATGAATGAATGATATGAAGTTGTTGCAAA
ATTTTTTTTTAAATGGACAGCCATCTTCTATAAGGAACAAAAATTACATTATTTTGCTTTGCCTTCTGGAAAGAAAGGAGCACAAAATAGTCCT
TGTGTCTTAGATATTATGGAAATCTTATCTAAAGACCACTTGAAGTTTACTAGAACAAATAATTTATTAAAAAGTATCTGGCGCCTTCCAAAAG
GGGAACATTTCATTCTGAAAGAGGCATTTATGAACTAGAAAAAAAATGCCTTTTAGTTTCAAAGTTTTAGAGGCACCAGAGCAAGATTATAAAG
TAATTGGAATGATAAAAGGTGCTTGTAAAATTGAAAAATGTAATTTTTTGGTGAAGTTAGAATTTCTGTACACTCCATTGAAACTGTAATATCA
AATACTAATACCTCCAAAAAAGAAACAATGCTACAAGCACTGCTTGGTAATCTAAGAATTGTTAACACTTATCTAAATTAATCAACCAAAAGT
TAAAACAAAATATGTTATTTTGTTATGTTACCTCTAGAATTAAACACCTATCACCCATAAATCTGTGACTGTTAAAAGTTACTAGATGGCAAAC
CTCAGGAACAAGCAGGCAGTTAGCAGGGTTTACTGTACTTTCCACTTTCATACTTTAATGATTTTTCCAACACTATAGAAGCTGGGGCCTCATC
CTAGCACAGTTTGTTCATTATTTTTTCAGTTGTAGCATTTTTTAAAAGTTGGCCTTGAATTTCTGAATTGAACCATTTATTTTTTTGTGGACACA
GTTTTTTAAATGAAATATACCATTTAGACTAGAAAAGAGCAAAATGCCAATACTCCCTGTCCTAGTGTCATTGTGCCCCCTGGGAACCCTAATG
CAGTCCTGTGGGAAAACAACCATTTTATTGAGCGCTGCTCACTTCAGTTCATTCTGCTTTGCTGCCACTTAGTTCTGGTTCTGACCCTGATCTC
CCCTCACATCACTCACAACAAACATTCAAGTTTAAAAATTAAGTTAAAAGTTAGTTACATATATATGTAACTAATGTGTATATTAAATATACTG
ATATATATTAGTTACATATACAGATATGGCAACAACAAAAAAGGTTATATATATACATATTTGTAACTAATATGTATATTAAATATAATGATAT
ATGTATAAATACATATTTGTAACTAATATAATTATATTTAATATATATTAGTTACAAATATGTATATATAATATTTTTTGTTGTTGCCAGCAAA
ATGAGAAAGAAATTAAATGTTAACATCTATAACAATTGCACTGTAAAGCCGTCATTGTTGAAAAGTACTCCGAAGATTAATAGCGGCAGTGTTT
GTTAAAATAATAAAATAATCCAGGCACTCTGCCTGTGACTTCCCCATGAGATGGCTTCCAGAAAAAGATAAATTTTTGTGTGTTCCCTTACGAG
TTCAGTCTGCAGCTTCTGGGCATGAAGAGAAGCATAAACAAAACAAACAAGGCTCTAACTTTGTTATAATCCTTACGCTACTAGTAGAAATGTA
TGGACAATTCATGCATTTCATATTGGAAAATAAAGCTATTAGATTTTTCTTTGAGATGAACCTTTTTTTTTGTAATTTATTTTTTATTTTTTATT
TTTTTTCAGTAGAGATGGGATTTTGCTCTGTTGGCCAGGCTGGTCTCAAACTCCTGACCTCAAGTGATCCACCCGCCTCAGCCTCCCAAAGTGC
CGGGATTACAGGCGTGAGCCACCTAGCTTGGCCAAGGTGAACCTTTTTGATAAATGAGGCTCACTAATATTTCTAGGATTTACTTTTCACTAAC
TTGAACTAAAGAAAGTATAAGACCTGCATAAAGTTGAGCATACCTCTATAATGTCCCATTTTAAAAAGCAATTTGTTTTTAATGACTTTTATTT
GTTAAAAGCAGTTATTTCAAAAAATTATTTTTATTATTTATCATGTCATTTGGACTGAAAATACTATACCATATTTCAGTGTTAGGGCACACCT
ATCCCTCTTTATCCCAGACGTCAATTCTACCATATAACAAGTATGTAAAAAAGAAAACATAAAAGTGATGACAGACTCCCTAATCAACCTATTT
ATTGGTTCTAAGCCCAAGCCTGCAGTTCATTTAAATAGTGAAAATAGATTACTTAATTGTCTTAGAAAATATGTCTTCCATGACAAGAATTTTA
GGAATGAGAAAATAACTATTTTTGGATGTTTTAACACAAATTCCCAAATCATGTTTTATTGATATTTGAAGAACCTCTTTGTCTACCAGTTCTT
AAGTATAGGCTTATTTTGTAAGGCTTAAACATGTATTGGTGTTTGACTGTTAAGACTTGATCTATAACCTTCAGTGTCTTTTTCTTTTAAATGG
GGTATGGACTTGGTAATGAGGCCAGAGGAGAATACCTTACAATTTATAGCATCTGCATATAATACAAGAACCTTCATGATTTATAAAATTAAAA
TGATGATGATGTGGAATGATGGAAGAAGCATGTGTGGGTGGCTATTTATGTAGAGGAAATTAGAAGTTGAAAGCAATGTTAAGAATTAAAATTA
AATTACACTTAATTTTTTGCTCAGTTGGATAGTCAGGAAAGTACTTAAATCAGCAATTGATTTACGTAAAATCAAAACTGAAAACTGAATATAC
AATCTAGGAAATAGGAAAAAAATTTTTAGTGTGTTCATACTGCTAATTTCAAACCAAGCAAAAAACCTGGGGAACTACTTTTCAGAGGAGATGG
CTTAAAATGAACCAAAAATATAGCCATTTCTCTACCCTATTCATTTAATGCATTCATTTATTATACTGCTAATACATGATAAGGTGAATAGGTT
AAGCATCGTTTGTATATGTGTATGTGATTTTAAACCTGAGTCTTTTGAAAGATTGGTCAAAGCAAAGGATAATGAAAGCATAAAGATTTAGGGG
GAAGAGTCCTCTATAAAACTAAGACTTAAACTTTGTTATCAACTTGAATGTGAAGATAGAATAATCTAGAAAGTGAATGAGAATTATAAATAAA
AGGACAAATCATATATCTCATGGTTGAGAAATACAATGAGATAAATTGTATATCTCATCTCATGGAGGGTCATAATGAAAGAAGTAAGAGAGAT
TGCCCTTGGATAGAACCTTTCGGCAGACATTTCATAATGGATTATCATATTTTTGCTAAACTGGTAAGAATGGACTTTTCACCACATTATGAAA
AAACACTTTAGAAGTCAGTTGCGATCAAGCAAATATAAGTACCTGGGAAATTAAAATCAAAAGCACAGCAGTCCAACAATAGTCAAATGCATTT
ACTCACTCTCATACCATATCATAGCGTTAATTTGAGATAATGTCTTTATGGTGTCTCTTTATATATTTACTCGATTTCCCATTTAAGACATTTA
ACCAAATTTAAAAAGCAATCCTTAGAAACTTTAAAAATATTTCCTATTTTAAACCATTACATAATCATTTACCCTGCAGTTACAATTCTTTTTT
TGTGATGGGTGGGGAAGTATCCCATTTCTCTTAGAAAGTCTTCTGTAATAGCCAAATAGGAGTCAATCCAAGTTGCTTAGAGAGGTAGTTCAAT
CCTGTGTTGAAATAGATGACTTTTGGAGTAATTGTGCTATATTTACTGAGTATCTGTTGAACTGTAGGAGTCCAGTCATTCAAGGCAAGCTACA
GAAATGATTTTATTGCTGAGGCACTTAAGTATCTTCACATCTATATGCCAATATTAAATTTCTCATCATCCTTGATCCCCACCCCTTTGCACAG

ATTGGTATCCCCAGCACATTAGGGAATGCGGTTGTTAGCCTGTTAGGGTCCATTCAGTAGATTTCTCATGCCAGAAATCTAGAAGCCCTTCTTA
TACATTCAGCTTTCTTCTTCAGTCAGTCACCAAGTTCTATCAAGGCAGCCTCCTCATCTCCAGAATCCATCCCTTCCTCGTTGAATTTCTAGAT
TTTATTTTTGCATTGTCTCCCTGCTTCTAACCCATCGTTCATTTCGCATAATGGTCAGCTTTCTAAAGTGTAAATCGGATCATGTCTCTGCAGTG
AATCCCAGTTGTCTTCACAAGCTGATTCTCGCACACCTCACCCCCTTACTCCCTCCGGTGTTCCCCAACCATCCCCTAATCTCAAATCCTCCAC
ACCGACTTTCAGTTTCCTATCCACAGTTTCTGACTTTGAATGCCTTTGCTTATGCCCTCCCTGTATGAGAAGTGCCTTTTCTTTCCTAGCCATC
CTGCTAACTTCTAAACCCTTAGGCCTGGTTTGAGCATCACCATTTCTCTCACTTGCCTTTCTGTTTTCTCCCTCCCCTTTCCATAAAGAGTTAT
GTGCCCCCATTCTGTGTTCTCCTGAATTCCTGTGGGTCCTAGAAAAGAAACATCTTGAGGGCAAGGAGTTCATCTTATTTACTTTTTATTTGCA
CAGCACCTGGTGTGTTTGCTGAATAAGTAAATACCGAACAAGATATCAAGAGACAGTGCTGCCAATTAACTGTGTGGCTCTGAGCAAGTTAATT
AACTTCTCTGAGTCTTATTTTTGTTCTGTAAAAAAAATGAGGTTTGACAAAATGAGCATCTCTCTCTAAAATTATGTGTTTCTTTGATGTAATT
GTATTAATTGGAAGACTTCAGATTTTCTTGCCATATCAAGATAGGTCAACTTAAGAAAAATGCATGTGAGTAAGTACCAAGCCAATTCTTGATT
ATCAGTATGATAATATGAGGAACTGCCCATTTTGTCGATAATAAGTTATAATTTTTGGTCTCAGTGTAGGTTCTTTCTCAAATCCAGATGTTTC
TGGTGTTGCATTTTTTCATTATTATTCAGTCTCTCGCATTCATATTTCTCCAAAGAAATTTATGGAAAACTTGAGACAAAAATTGAATGTAAAG
TTTAATATTTAAATGCTAGATTGATTCAAGGTCTCACTAATTATAACTATATTTGGAGGGAGAAGAAGGGGAGGTGGTGGTAGTATGAGCTGAA
TCCTCCTCTGTTCCTTCCTAGAAGGAACACAACGTCCTACATCAAGAAAAAAGACAGAAGCATATCTTGGAGATATGAAAAGAACCACCAGGTA
AACTAAAAAGAAAAAGAGTGTTAAAAAGTCAGCCTTTAAAAAGCAGGATTGGAGATGAGGAGGGGTGGAGTAGGGGAAGCATTGCTTGTTTATA
GAAGCTCTTCCATCTTCGTATAGTGTGATTTTTATTTTTTTATTATTTTTTCCTTCCTTTTTTTTGACCTCCAGCTTTAGTATAGTACAGTTGA
CAGAAATTATATATGTTTATGGTACACAAGATGATGTTTTGATATACATATGCATTGTGAAATGATTAAATCAAGCTGATTAACATAAGTAGGG
TTTTATTTCTTTAACAGTGATTTATTTGAATATATGTTGAGTCCTTTCTATGTGCCAGACACAGTTCTAAGGACAAGGCACACAGTGCCAAACA
AGACAGAAATCCAGAAATTCATGGAGCTTAAATCATGTAGTCTTTTCAGTTTTTAAAATTTTCTTGCTGGGCGTAGTGGCTCATATCTGTAATC
CCAGTACTTCAGGAGGCCGAGAAGGGAGGATTGCTTAAACCCAGGAATTTGAGACCAGCATGGACAAAATAGCGAGACCCCAGTCTCTACAAAA
AATTTAAAAATTAGCTGGGCATGGTGGCACATGCCTGTGGTCCCAGCTCTTCAGGAGGCCGAGGTAGGAGGTTCACTTGAGCCTGGGAGGTTGA
GGCTTCAGTGAGCAGCGATTGTGCCACTGCAGTCCAGTCTAGGCAACAAGCAAGACTGTCTCAAAAAAGGAAAAAAAAAATAGAAAGAGAAAC
TTTATTTTTACATTAGCCTTTTTTAAGTTGAAGAATCCCATAGCTAAAAAAGTACACAAATATTAATGCTGCAACTTTAGTGATTTATCTCAAG
GTGAACACGTTTAACCTAGTGGGTGGTCAAGAAATAGAACACTGGCAGCACTGCAAAAGCATCCTATCTGCCCTTTCTTAGTTAGGACCCCTTC
CCTCCACTGTCATTTAAAAGATTTCACAAACAACTTTTGGATTATATGTATGTCAATTCTGTGACTCATATATATCCACATAGACAATGGAGCG
TTGACTGAATGAATTCATTATTCCAAGGTGCTAATAATGAGCTTCACACCAGCGGGAACTCTGCTGTGTCAGTTGGGCTCTAAGCTCAGTTCAT
TTCAGATATTCCTCACTAAACAAAATACTGTTTTTCCTCAGTTGTTAGTAAAAAATAGAAAACAGATTACATTCTCATTTACTTATTACTTATG
AATGTAAAAGTAAATATTTTGCTTAATACCAAGTAGCCAGGGTCACTGACAGAGACATGGGAGAAAGAAGTATTCACATCTGATGTTATCAGAC
ATAGAAGAGAGAGGTATAGTTCACCTATTTCTCCCCACTCAGTTTATACATTGACATCTGTATGTGTGTTGTTTTGTTTTGTTTTGTTTGTTTG
TTTTGAGATGTGGTGTCGCTCTGTCACACAGGCTGGAATGCAGTGGCGCAATCATGGCTCACTGCAGCCTCGACTTCCTGGTCCCAAGCTATCC
TCCCACCTCAGCCACCCAAGTAGGTGGGACTACAGGCATGCACCACCACACCTGGCAAAATTTTAATTTTATTTTACTTTTAAAATTTTTGTA
GAGATGGGGTCTCCCTATGTTGCCAAGGCTTGTCCCCAAATACCTGGACCTCCCAAAGTGCTGGGATTATAGGTGTGAGCCACCACACCCAGCC
ATGTATATGTTAAAGCGTTTATCTGTATGAGTGGTCAGTGTAGAAAGGGCTTCATGGAGCCTGATTTTGATGGCTTGCAAATTATTATATTTGT
GTATGTGTAATCGGAAGGCCTTCGCCGTGATTATTTCTTCAAAGGAACCCTTTGTCCCTCCAGGGTGATTGTACCCATGTTCATAGGACCAAAC
ATTGCTGGTTCACATAATGACTCTTTTTCTTTTAAAACATAAAGGACATATTTTTATGGATTTTTGAGGATTAATAGAATAAAAATCTAAAGTC
ATATTCAGATTCAAGAGAACTGGATCAGTTTCTCTGTATTTGAACAAAAGAATACTAATCTCTAATTCATAATGCATGAGGTCTACTTCTTCCT
CAGTCTGAAAATATGAATATTCCAAAATGGTACTCAAGGCAGAGGCTATATATCAAAATTAAAATTCTGTGATACTATGTTTTTAGGGAAGAAG
AAAACTGTAGCATTAGAAATGTAGACGCAAAAGGTCAGAACAAAGTCCAGTATGTCAAGTCCCTTTATAATGCCATCTGAATGAAAGACCTCAC
ACCATGAACAGAGGTATTGAAGCAGTTTTTATGTGGAAATGGTAGGCAGCAATATCTCAGGAGTGACTTTAATTATAACATTTAAGGTTTTATC
TAACTTATTATAATCCTTAGAGAACTTCTCTAGCTCTACAAGTTATTCTTGGCAGAATTTGTCCTAACATAGTATTAATAAAAATAAATTTTAC
TTGAGTATGATATAAATTACTCTTAATTACAATATAATTTTAAAATGCCCAAAACATCTTTTGATCTTATGAATTTCAGTCAGCTATGATTAAG
AAGACAACCATAGGCAAAAATTTCTTTCTTATGGAACACGTTGGAATGCATTCTAATCACTTCTCTAAGAAAATCCCTGTCCCCCATGATTATA
GTGAATATGATACAGCAATAATTTAGATGCTTCTTTCAGGGGGGTGAGGTTATGTATTCTACAGTCTATTGATTCTAAGAGGCACTTTTTTCTC
CCCCAATTTAACAGTTTTGTTTAATTATATACATTTCAGGATTTTTTGGGGATATTTTTCTATCACTGGTTTCTGATTTAATTCCACTGTATTT
AGATAACATATTCCGCATGCTTTCAATTCTTTGAAATTTATTGAGACTTACTTTATGGCTCGGGACGTGGTCTATCTTCGTGAATATTCCGTGT
GTATTTAAAAATAATGTGGACTCTGGGCCGGGCGCGGTGGCTCACGGCTGTAATCCTAGCACTTTGGGAGTCCGAGGCAGGCAAATCATGAGGT
CAGGAGATCGAGACCATCCTGGCTCACACGGTGAAACCCCATCTCTACTAAAAAAATACAAAAACTTAGCCAGGCGTTGTGGTGGGCGCCTGTA
GTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAACAGCGTGAACCCAGGAGGCAGAGCTTGCAGTGAGCCGAGATGGCGCCACTGCACTCCAGCC
TGGGTGACAGAGCGAGACTCCATCTCAAAAAAAAAAAGAAAATAATAATAATAATGTGGACTCTAAAATCATTCAGTGGGGTGTTGTAGAC
ACACTAGGTTCTTTTGATTGACAGTTTTGTTCCTAAGCCTTCTATATCTTTCCTACCATGGTTTGAATGTGTCCCCACCAAATTCAGGTGTTGA
AACAGGATGACCAATGTGATGGTAGGAAAAGGTAGAGCCTGTAAGAAGTGATGGGATTAGGTGCCCTTTTAAAAGGGCTTGCTGGAGGAAATTT
GTCTCCTCTTGCCTTTCCGCCCCTCTGCCAGTTGCGGACACAGCATTCCTCCCCTCTAGAGGATGCATCCCTCACCAGATACCAAATGCTGGTGC
CTTGATCTTGGGCTTCCCGTTGCCAGAACTGTGAGAAATAAACCTGGGCTCTTTATAAATTACCCAGTCTCAGCTATTCTGTTATAGCAGCATT
GACAGACTAAGACATTTCCTGACACTCTGTTGATTTGCTTTGATCAATTACCGAGAGAGGAATGTTAAAAATCTTAACTGTAATTGTGGATTTG
TCATTTTTTCCATTAGTTCTGCCACGTTTTTGCTTCATGTATTTTGAAGCTTTGTTAATAGGTGCGTACACAATAAGATCATTGTTTTTCTTTG
ATGAGTTGGCCCTTTGATTCTTATATGCAATGTTCCTCTTTGTCCCTGGTAATGTTTATTCTCTTGAAGTCTACTTTATCTGATATTTTAGAAT
GTAGCCTGCTTTTCTTATATTTAGCATTTGCATGATATAACTAGCCCAGTGTACCATCTTCATACATTTAAACTGTGTCTTTAATATTAAAGTA
CAATTCTTATGAAAAGCGTATACTTTAATCTTGTTTTTTAAAAATCCAGTCTGATCATCTCTGTCTTCTAGATGAGTTCAGTCCAGTTCCATGT
AATATTATTATTATTATTTTTTTTTTTTTTTTTTTTTTGAGACGGAGTCTCGCTCTGTCGCCCAGGCTGGAGTGCAGTGGCGGGATCTCGGC
TCACTGCAAGCTCCGCCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCGCCCGCCACTACGCCCGGCTA
ATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCGTTTTAGCCGGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCCGCCTCGGCCTCCCA
AAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCCGGCCCCATGTAATATTATTACTGGTATGTTGGGTTTAAGTCTCTCATCTTGGTAATTAA
TTATCTATTTGTGCTATCTCTTCTTTATTCTTTTTTTTCTCCTTTCCTGCCATCCTTTGAATAAATCAAGTTTAGTGTTTTAAATTCCATTTTA
TCTCCTTCATTGGTTACTTTCTAAAGTGGTTACTTTACCACTTTAGAAAAGTATTTGTTTATTACAATATGCATCTTTGAGTCTCTAATTAATG
TGAGAACTTGACAATGTTATACTTCTGTTTGTCCTTCTGTGCTGTTATTGTTATACATTTTACTTCTTTATATGTTATAAACTCCAAAATATAT
TGTCTTGTTTTTGCTGTGAACAGTCAATCGTCTGTTTAGGAAATTAAGAAAGAAGAAATAAAAGTCTTCTGCTTACTCACATATTTATCATTATT
GATGCTTTTTATTCTTTCATACAGGTCCAAGTGTCTATCATTTCCCTTCAGCATGAAGAACTTCTTTTTTAGCATGTCTTTTAGCAGGTCTGCTG
GTGATGAATACTCTTAGCTCTTGTTTACTTGAAAATGTCAATTTCACCTTTATTTTTAAAAGATTTATTTGCTGAATATTCTGGACCAATCTTT
TTTTTTCTTTTATCACTGTAAAGGTGCCTTTACATTGCCTTCTAGCTTGTACTGTATCTAATGATCATCAGAAACATCATGCTTATCATGCTTA
TCAATTGTTCCCCCATATATAATATGTCCTTTCTTGTCCTTTGCTATTTTGGGATTTTTTTTTTCTCTAGCATTAGTTTTTAACAGTTTGGCTG
TAATATGCCTAACCATGGTTTTATTTGTCTTTATCCAGCAGAGAGATCTTTGAGATTCTTGGATCTGTGGGTTGATTTTTTAAAAATCAAATTT
ATAAAAATTCTCAACTGTTATTTTTTTGAATATTTTTTCTGTCTTTTTTCTGTTTCTGGGATTCTATGTTACAAATACGTAAGACTGCTTAATA
TTGTCCTGTAGGTCACTGAAGCTGTGTTCACTTCTTTCTGCCTTTTTTTCTCTGTAATTCAGTTTGGGTAGTTTTTATTGACCTTTCTTCTAGT



AGAGCTGCCCTTTCCTTTTTGTTAAAGTTGTACACTGCTCTGCATCCCCCTAGAATGCTCATCAGCTTTCTCACTCTTCCTCACTCACACAGTG
CTCCAGCAGGAGAGGATTTCTTTGAAAATCAGATTCTTTTTTGGAGGGCTTTGTGCTTATTGGAGTGTTATGTGATATATTCATTACGGTGAGG
GCTAAACTCTTTGAACAAAGAGACCTGACAGTGCATTTGGGTTAAAGAACAAAGTTTATTTCTTTCTCTCATCACCACCAGCATGAGCAGCCTG
GATGGTCAGAGCAGATCTGTCTCATGGCATTGTTCAGGGATCCTCATTCCTTCCCTCTCATTTATCTGCCATCCCCTAGGCTATTAATCATCAT
GTTTTTGGTAGAAGCCAGGTCTTCTCCATGTCTGAGTTTTTATGGAGGAAGCATGTCAAGGGCCTTAAGCCCAGACCTGGAAGTGGTATGCAAG
AGTTCTGACATTGCACTGGTGAGCATTTGGTCAGATGGCCATCTCTAACTCCAACGAAGTGTAGGGTATACACTAGGTAAGCAGTCACATTTCC
AGCTACAATACTAATTCTATGGAAAAGGAGACAACATATTTTGATGGGTAGCTGACATTCTCATCTGCAGTCCTAAGTACTCATGACTGCTAGA
TAGACTTTATGAAAAAAAAAAAGAAAAATAACCCCAGGAATTAATATTTACCCTCAGCCTTGTGTTTCTTTAATTTTCTCATTTTTCATGTCAC
ATATCTAAAATTTGATCTAAATAAATTTAAATAAAATTAACCTTTATTTGAATAATAATAAGGACATTTCTCAAGGAAGTAAATCTCAAATGAT
ATGTGATTTTAGATACTATCTTTATCTGACCATGTGGTTCCTTGCTTCTATCAGGGAGGGCCTCTGGGTAATAGAAGATTGCTAGGGCCTGCAG
TATATTAATGTTTAGCTGGAGTTGATTAAATCTGAGACCTATAGCCTTGATAATAAGGACTTTTATTTTTGTATTTTTATTGCACTTTTAATAT
TACAGAGTTTCTGTACCAGCTTGACAACAGCAGAAACATGGCTTGCTTCTGTGGAACACGCTAGAGCAGCAGTCCCCAACCTTTTTGGCATCAG
GGACCAGTTTCGTGGAAGACAGCGTTTCCACAGACTGGGGGCTGGGGGTGATTTTGTGATGATTCAAGCACATTACATATATTGTGCACTTTAT
TTCTATTATTATTAACATTGTAATATGTAATTAAATAATTATACAACTCACCATAATGTAGAATCAGTAGGAGACCTGAGCTGCTTTTCCCACA
ACTAGACAGTCCCATCTGGGAGTGACGGGAGACAGTGACCCATCTGGAGACAGTGACAGTGATCATCAGGCGTTAGATTCTCATAAGGAGCGGG
CAATCTAGATCCCTTGCATGCACAGTTCACAATAGGGTTTATGCTCCTATGAGAATCTAATGCCACTGCTGATCTGACAGGACACGGAGCTCAG
GCAGTAATGCAAGCGATGGGGAGCAGCTGTATATACAGATGAAGCTTGGCTGGCTTGCCTACTGCTCACCTCTTTTTGTGCTGCGTTATCCATA
GCCCAGGGTTTGGGGACGCCTGCACTAGAGGACAGAGCCTGGTACACTATAGCAGTCCTCCCCTTGTGTTATGCAGAGTACTGATCAGTCCCTT
TTGAGCTTCTCAACCTTGTATAAAACTTTGAGACAGTTCTGGGACCATCACAAGGTTTATGAAGGGTTAGAAAACAATACACTTAAGGAACTAA
GACTGTAAATCGTTGAAGTTCAGAGGGCGATAAAAAGAAATGGCTTCTAAGAATCCCAGTATGTATGATTTTTTATACAAAGCATAAAGATGAT
TTGTACCAAACTCAGGACACTGTGGCGAGCTTAACACGAGGGTATTGAATCATACGTAAGTGGTAATTCCTAGATTATGCAATCTCCTTGCTGT
TAGATTTAGATACCAAAGAGGAACTACATCATGTCCTCCTCCTATGGTCTTCAAAAAAGGATTATATTTGGTCTTACTGGTATAATACAGTTTA
TTCCTGCATGAATTCCATGGTGATAGAATTTTTAAAGTTCATTCTAGTGTTACAGTTTTGTTTTGTTTTGTTTTAATACACAGCTTCAGAATGG
CAGAAGATGATCCATATTTGGGAAGGCCTGAACAAGTAAGTGTCATAATCTCACTGATAACTTTATTTAAATATATTCATATTTCAAAAATATG
CAAAGGCAACATTAGTAAGTTAGCATTAGGAAAATTCTAAAATTAGTAAATTTTTTTTTAATTTCAGTTTCTCTGTCCTTTCATGTGAAGTTGG
AGAGGATATGTCATGTGAAATGAGTAACTTACACCCGCTTTCACACATATTGTTGCACAAAAATTGTATATGCTACAGGATAGCTATTGTATTA
GCTTTCTAGAGCTACCATAACAGATCACCACAAACCTGATGGCTTAAAACAACAAAATACATTATTTCACAGTTCTGGGGGCTAGAAGTATGAA
ATCAAGGTGTTGGCAGGGTTGGTTCCTTCTGGAGGCTCTCAGGAAGAATCTGTTCCATGCCTCTCCCCTAGCTTCTGGTTGGTTGCTGGGAATC
CTTGGCTTGTAGCTTTATCGCTCCAATCTCTTCCTCCATTGTCACGTGCGCTTCTTCCCGGCGTGTCTCTACTGTGTCTCTAAACCTAAATCTC
CTCTTTTTTTCTTCCAAAGGCATCATTGGATTTAGGGTACACCCTTATCCAATATGACTTCATCTTAATTTGTTTATATCTGCGAAGACCCTAT
TTCCAAATAAAGTCACATTCACAGGTACCGGGGATTAGGAGTTAAAGGTGTCTTTTTGGGAGGGAACACAGTTTAACCCACTACAGCCCCTTGA
CATATTTATTTAATGTGTACACATGGATGTAGAGAGTGGAATGACAGACCATGGAGATTCAGAAAGGTGAGGGATGGGAGGGCAGTGGGATGGG
GGTGGATGATAAGAAGTTACTTAATGGGTACAATGTATGTTATTTGAGTGTTGGATACCCTAAAAACCCTGTTTTGACTACTATACAATCTATG
CATGTAACAAAATTGCACTTGTACCCCATCAATTTATACCAAAAAAAAATTTTATTTAAAACTCATCTAGTAAGGAGACAGATTGTTGTAGTGA
AAAGATCTTTGAACTCAGAATTTGAAGATCTTTATATAAGTACTGACTACTACAGATCAGCTCCTCAGACTTGAAGAATCACTTAGTCCCCGTA
ATCCTCACTTTTCTCATTTGTAAAATAGAAATGCTAGCACCACACTAACAGGGATGAGTCAAAAATATTCAATGAATGTGCTTTGTAAGCATAA
AACTGTTCCTATCATTATATTAGTAGTTATGAAAGGATAGCAGTGTCCTTTTTTCTTTTTCTCCTATATTTTATTTTGAAAAATGTTGGAAAAA
ATAAATAGAAATGTTGGAATAATCTAACAAATCTACATTGGTTCTTAAAACCGACATTTTCGCTTTTCTCTTTGCTCTCTTTTTCGTGTGTGTG
TGTGTGTGTATATATGTATATATGTATATGTATATACATAATCATTTGGAAGCAATTTTCAGACTCTGGAGCAATTATAATGGCAATATTAAAT
TATTTATGTAATGATTCCAAGAAGTATTTAAAACATGGAGATTTGTTCATTCATCAGCTATTTATTGAGGTATTACTACGTGCCAGAACATTGG
CTTAGTGGGGAAAAAATAAGTGATATATACACTCTAATTTCAGGAACCTACTATTTTAATAGGAAGAACAGAGACATTGTTTTCATATGGTGAT
ATATGCTGTAGTAGTAGTCTGCGCAGAGCGGGATAGAAATGTTAATAAGCAGCATCACTAGGTGCTACCTTGGAGGAAGAGCAGAGTTACGGAG
GACTTTCCGAAGGAAGTCTTCGTAAGCTGTGTTTTGAAAGATGTAGTTTGCTAGACTAGAAAAGGTGAAGGAACACTAGGTGCCAGGATAGCCT
GGTCACATTTAAATTTTAGTGGCAATCATTTAAAATAGTGGATTTCTGAAATTACACGTGCAAAGAATCAGCCAGAAAAATAAAAACAGAAGTG
GAATATGTTTTAAAGGCTCTGGTATCATTTCTATAAATAAAATGGACATATATAGCATTTATCACTTCGGGTGATATTCTGATTGATTTAGAAA
GAATGACTGCATTGCTTTTCACATTAAGATGCTCCTTTCTAATTTTATTTTAAAATGGTGATTTAGGATAAATCTAGGAACATTTTCTTTTAT
TGCAGCAAAGACATTTGGCTAATTGTATTATCAAAACCGTTTGTTTTACCTTTCGCTTTTAATGTGCTTTCTCTAACAATTAAGGGCGAACTAA
CCAGCATGAGGATTGTGTCTGCTTGATTTTAAACCATCCTTTCCTGTCTGTACACAGGAAATCTTATCAACAAGAGATGATTCTTTATGCCACA
GAAGAGTAAAACCTGCTGAAAACATTCATTTTGAAAGTTTTTCTTATGTGGGCATCTTTGCGATCATCAGTAACAGGGGTGGGGCATATTCTGA
CATTTCCATTTTTGAGGCAAGCGGTCTTGAAGTTTTTTTCTTTCTTGGCTTGAGCTTGGTGGTTTATATTTCCTAAAGTTTGCATGTCCTCAGT
GTTTTAGTGGAGTCTGGAATTTGCTCTCCACCCTGACCTAATAAACAATGCAAGCTGCAGCACAACACAACTTCTCTCTTAGTCTGAAGTGAAG
AGTATATCTCTCTCCTAAGGTGAGCCCTTTTGCCCACTCGCCAGTCATTTAGCCACCACAGGAAAGAGTTTTCCTGCTAGGTTATCACGTTTGC
TCTGAGACTGTTAAAATCCTGTATGAAATGAGGCCCATTTTTGCAGAACATGGTTTTTCATTCCTGTATTTCCTTTTCAGCAAACAATGAATAG
CATCAGTGAGCTTTTAATCTTATAAGCATTGAAGTGAAGCGCATTCTTTGTTCCTCAGTTGAAAATTTGCATCCCTCAAATGGATCTGAAGTAC
TGTTTATTTAAACGAGATTTTTCTTACTCTTAATTTAACTAGGCATACGAAGATCTTCAGTACCCCAGAACTTTCAATAATTTACTACTAAGGG
CAGGAGACAAACTGTAATACTGGCTACTAAAAGAAACGAAAAGCTAGTTCAGCACACTTACTAGTCTCTCATAAAAAGTAAAATATGGCTGGTT
TCCATGCTGTCCACAGACATTTCAAACATATAACTTCTTTAGGCTAAAATAAATAGCAAGCTCAGAAATACAGTTTTAAAGTCCTAAATGAGCC
AGCGGTTACAATGTTTTTTGATAAGTAATGAATAGTAATTTATTAAGATAAAATGTACTTTCTTCAAAATATTCTGCATGCCCACTCTGTTGCT
GCCCTAACACATTACCACATACTTGGGGCTTAAAACAACACAAATTTATACTTCTGAGTCAGGAGCTCAGAAATCTAGAATCAAGGTGTTGGCA
GGGCTGCTTTCCTTCTTGCGGCTCTCATCTCTTTGCCTTTTGAGCTTCTAGTGGCTGCCTGCTTTCCCTGTGCACCCTCTCATCACTCCAGCCT
CTTGCTTCCATTGTCATACTTCCTACTATTCAGTGTGATTTCCTGAACCCCTCTCATCAGGCCCACCTGGACAATTCAAGACACTCTCTTCATC
TTATTATCATTACCTTAATGACATACGTAAATTTCCTTTTGTCATATAAGGTAGCACTCACAGTTTCTGAGGATTAGGATCGCAGACATGTTTAG
GGGGTCGTTATTCAGCTTAACACACCCACTAAATTCCAGGTATTTTGTGTTATGCTAGGAAACTGAAGGTAAAAGAAATGAGTGAGCTCAGTGC
TTAGTTGTCTACTCCTTGTACTGTCAGTTATATTTTCAGTTATTCTGTAAATAGTCCCAGAGGTGCTCTCTAGCATTCTTTCAGGCCTTGACAT
TGGATAGCTAGATGAGGGGTATATTTACCACCATAGAGGAAATACTGATTTCTAGGATTATATTATTTTGTTTATACTTCTAAGAGAGTACAAG
CTTCAAATCATTCATTCAACAACTATTTAAGTATCTGTTCTGTGATAAGCATGTACTTGGCCCTGAAGATATACCATGTAAGCAAGCTAGACCAG
GTCCCTGCCTCTGGGGACTTTATAGCCAAGTTATGCTTCTCAAATCCCTTTGTTACGTAAACGTTGTCCAACCCTATGTAAAGTTTTGTACACA
TGAGAACTACCTAGGTCTCATGAAGATCTTTTAAAACCCTGATTTAAAATATTTTCAGATTTTTGTTTTTGGCTTTAGTTTCATTCCTATTATT
ACATTTTAGGTGTCCCAACTTCAAATTTTTCATATAATATAGGAAAAATAATGATTGAAACATTTAAATGTTCTCTTTACAGATGTTTCATTT
GGATCCTTCTTTGACTCATACAATATTTAATCCAGAAGTATTTCAACCACAGATGGCACTGCCAACAGGTAAGAAAACTCATCCCTGTTACCCT
GTTGTTCTGCTTTCAGTCTTAGTAAAATGCAGGATTTGTTAATAGTCTGTCCTAGAAACTCAGTTGTGTACCTAGAAAGGAAATGGTGATTTGT
TTTAAAAACCAATCTTTTAACATACTTTCTTGAAATATATTTGCACAAAAATATTTCATCTCAATTACCCCTTGTATGGTTTACTGCATTTCAT
ATCTGCTAGGACTACTCAGAAGGAATTTCTTTAGTCAACATAAGGATTTTCTTTATTATCTCTGTATTCCTTTTAAGTCCTTTCTCCCAGATTC

ACACGAGGCAGTCTCCACTCTTCATTTCTGTTTCAAACATTTAAGAGGGCCTGTTGTGTACTACCAGTGTGCCAGTCACTGGGGAATCAAAGTG
TACAGAAATCATAAAAATCATCTCATTAGAAAAATCATCTTTATAAAAGCTTATAACTTTGCACTCTGACAAGTTGGATAAAACTCATAATCCT
TCCTTCTACCATGACTGTATTAATTGTGCCGATTGGCAACTGTTTAATTTCGTAAGAGTAATAAAAAAAAAACTCTCTTTCTTAAAAAAAGTGA
TTTATTTGTATGTAAGCTTGGTGTGATGGCTCTTTTTATGTTCTGTTTCTCTCCTCACTTCACCCGTCACCAGTGGGACTTAACAGATGTTCAA
AAGCAGTGTGAGTGAATTATGGAAGTTATGTGTAAAACAGAGTTTGGTAATCGCTGAAGGAGGCATCAGCTCTTTTATTTACCAGGGACTTGCT
TGTCTTCATTGGGGGACTTTATCCCATTTGTATTATTCTCATTTAAAATTATCATGGTTACTACAGTACTTACTTTTCTTTTGTTTTAGATCAG
AAAACTTTTTCTGCATTTATATCTTTAGTATTTCTAGGAGTTCATGGGAGGGAAAAAAGTAGATCTACTATACTTTCACCTTCACTAGTAAAGG
TGTATTTCAGAGGTTTTTCTGTCTTTACCCCTACAAAACATTATTTTTAGGCTGCCATGTCTGAGATCTTGTGAAGTGCTGTCCAATTTGAGCT
CTAGGTCAGCTTCCTGTGAACAAGTAAATGTGTTGGTAGTGTGTGTGTTTCTTGGGAACTTTTTAATTCTGGAGTTCAAAGTATTTTTCTTAGT
ATTAATGTATTACTGAAAATATAAGAACTTGGTTCTGTCCACAGGAAATACACACATTTTCACTTAATGTCTTGTGAATACAAAACAGTATCCT
GAGGCAGACGTTTTCTTAATTTTATTCCTTCGGATTTATGGGCATGAAAATAAGATTATCAAGATAACCATCTCAGTAAATATTCTGTGGTCAC
AGCTTTATGTTGTAGAAATTATTTTGCCATAATATTAGAAAAACTATTCAAATTACACCTAAAAATCTAATTTGTTAGTTGTTGTTACACCATC
ATTTTTACCTGTATGTTTTTCCCTCTTCATTGCAGTGTCATAGTACAATTTTTATAGTCCAAGATATATAGGATGTTGTATTCAAATTTTTAAA
GAGGTAGAGAGGTTGATTATCTAAACCAATATTAACTTGTAACTCTAAAATGGATTATTTTAGTCTTCTAGATTTTTTGAAATCTAAAACCTTT
AGTAGATCTAGTACTTGTTGAAGACTATGGGATGCGACATAACTCTTAGGTCTAAAGTTAAATTTCTCTGCACAGTGGAATGTCCTTTTCATGG
CACAGAAATGTGGCCAAAAGAATGTTGGCCTTAAAACAACAAATACATGCATATCAAATCTAATTTTCTAGTTGATTTAACTTTAATGTGTTGC
CTGAAAGAGGAAAAATGGCTCTATTTTACATGAATTTTCACATATTTAAAGGAAATTAAATCCTACAGGAAAAATAATAGCAAATTTGCAGTTG
TTTTTAGCAGAGTTAATAAAAAGTGAGAGACTTGAAGTTTAATGTAAACATGCTTCCAACTCCTCTGTATTTTTCATGACATCCAAATATTGCT
CTGTTAGAGGACTGTCTTGATATGTTCTTTCACCATTTTAACAGGGAATGTTTTTATAAGTGTTACATTGTCATACAGGCTGTATCTTAGTGTG
AAAATATTTCTATTTCTAATCAATTTTATTTCCATATCCAAAATTAAATTCTAGCCATTTGGTGGGGGAATTTTTAAATTATGATTATGTTTCT
AAAAGTAATTTAAAATGTCCAGGGGTGAATTTCATACAGACAAAAGATGGTAATTTAATACATTGACCAGTGACTCCCCCTTTTTTTCTTGTG
TATGCTTCATTTCAGATGCATTCATTTTTCAACTCGCTTCCTTGTAAATTTCTTGAATAATAACAGGAAGTAATTATACCCTTGTTTTCTCCAG
TTCTCTAGCCTTATCCTGATTTATCATAATATTGAAAAGATAAAAATAAATTCTCTGGCCGGGTGAGGTGGCTCACGCCTGTAATCCCAGCACT
TTGGGAGGCCAAGGCAGGTAGATCACGAGCTCAGGAGTTCAAGACCAGCCTGGCCAAGATGGTGAAACCCCGTCTCTACTAAAAAAATACAAAA
ATTAGCTGGGCATGGTGGTAGGCGCCTGTAATTCCAGCTCCTCTGGAGGCTGAGGCAGAGAATTGCTTGAACCCAGGAAGCAGAGATTGTGGTG
AGCCGAGATTGTGCCATGGCACTCCAGCCTGGGTGACAGAGTGAGACTCTGTCTCAAAAAAAAATAAAAAAAATTTTGAGAAAATTCTCTTTTG
TGTTATAGTTTATTTTTAATTTCAACCTGAAGGTTTATCTCCTTACAAATTTATTTAAAATAAGAGGTCTTGAGCTTCTTTCTGAGAGAAAATG
AAGATTAAAATGGACATACAAGCATTCTCCTAAAATATTTTTAGCACCAAACATCTTAATTTACATTCAAATAAATGAGAACCACCATATGCCT
TTATTTATTGCAAAGCTATGGATTATTGTACTATTGACATAAAAATCAGCTGGGAAGCTTAAGGACTTTTTCATATTGAACAGTTTGTACTTAT
GTTGTCAGAGATTCTGATTTTCCTTTGAATTTTCAAGTCAGATACCATTAGGGTATGGATTAAGCCTCTAGTTTTCTTTGCGTTTTTACAATAA
CTAATTTGCATGTACCTATCTTCAATTAAATTATTTTCAGTATTTTATAAAATGCCTGAGATGTTTTAGAACACAGTTTATATGATAGCACAAT
ATTCAAAATTGCTTATAAACATCAAAAGTTATGGATTAATATGAAAATTTTACCATGTCTGATAGACCAGATTACATTGGGAGTGTCGGGGAGG
AAAGGGGAAACAAACTAACCAGTTAAGGAATGAAGGCAGTACTTTCCCTTCAAGTAAAGACGGGAACAGAAAACCTAGTGTAAGGAAAAAGAGA
TAGCCTGAGATCATTATCTGTCTATCAGACGTATACATACAGGTTGCTAGATCAGTATCTTTTAATTTCACATTAAGCACACTCTCTTTGAGGA
AGGAAAGTCAGTGTCTAATGATGTGAAGGCCAAAGAAAATGTCATAGTGCCCAGAAGTGGTTGCTGCTTTTAATTGGTATTTGTCATTTTAAAA
TGCTTTGTTAGGAGACAAGATTATGAAGGCTGTTGACATCAATTCTTGCCGGCCATATGCCTTTTATTGGGTTAGGAAATGTGCCATCACCTTT
CAACAAACATTTACTTATTGTGGTTCGCTAAACTCGTAAAACTATTGTTAAAATAAGGGTTAATTTAATATTTCAGACAAGGAAGAGAAATTAT
ATCCTTGTGGAATTTAACCAAAAATTGATTTGAAATTTCTACATAAAAACATAATTTCAGTTTTTTACTTGCTTTACGTTTTATACCAAATTT
GAGAAGCCTCACAGTTTCTTTTGGTTTCTGTTTGTTGTTTTTGTTTTTAGCAGATGGCCCATACCTTCAAATATTAGAGCAACCTAAACAGGTA
AGATTAAAGGGGTGGGACTTTAAATGTTAGATTCCAGTGTCTAATATTGAGATCATAAGCACTGAAGAATAGTAAATGAGTTCTATGAAGGAAG
TAGTTTATCTGAAAGATCAACAACCTGACAAATTATGTAACAGCTTTATTCATTCACTTTACATTTCTCTTACTCATTGTTCACACTGTCCTGA
GCCTCAGTATGTAGTTCTGTAAAACTGCAGTTAATTACAGTATTAGAATTACAGTTAATTACAGTATTCTGCTGTCTCTACCAGCTTAACTTAC
CAGCCACTCCCAGGAAAGGCAGAGGTGATTTCCATTCATTTTCATTTATAAGGAAATACGTATGCATACAGTTCACATGCACTGAGCGATATCC
ATCTATTATCCTTGCACATGTAGTACCTCTTAGCCTTCCTCCTTCCTTTGGTAGCCCCAGCCTTTTCTGTGCTGCCTTTGGAACATGTAACCTA
ACATACTGAAAGTACCAGTGGGAAGTAAAATGTTAGAATGAACTATTGAATTCTCTTCCCTCTGGTGTCAGCCTCTTTGGAGTCAGGAGAGGAA
CATTTTTTCAGGTGCTTCCCCTTACCACTAGAGTCTGTAGAGAATAGCTCAGAACTGAAATGGCCTCCTCACTGTATCCAACTCTGTGGATATT
TATAGGAAATTGGATGGGACCAATGCTGTGAAAGAGAAAGAAAGGCAATCTTTAATGTCTGCCTATAGGAGGTTTCAGTTATTAGGGAATGGAA
ATAATGGTGTAGTTCCCCACAGAATGAGGACAGTCAGTAAATCTTTGGATGGATAAACTAATCACATTTGTGTGTGACTGAGGATATGGATACC
TGTCCTCTTGCAGCTGTATTACCCAATACATTTTCTAAGTATTCTTTTCATTAGCTCAGGTGAGTGAAACACTTTTGCATTTTGTAACATTTAA
CACATGCTAACTAGGTCACAAGCTTAAATAAAGCATCCACTGCGTTGTGGTTTCCAGAATCGTGACATTATATATGTGTTATATTTGGTCAGCA
TTTGATATAAATGTCTTAATGATTGCTGAACAGGCTATCCTTATAAGGTTGAAATTAGATGAAAGTTTTTGCTGTGGGGGCAAGAATGCCACAT
GAAACTTTGGGGCATGGTTCTAGTTCTTGCAGGTGTCACATCCTGACTCCTCAGGTTGCCAGTAAGGAACTCCATTGCTCTACCTCCATGTTCAAC
TCTTTTAAGCAGTTATTTCTCAGAGAAGGTCATCAATTCCCAGTGAAATTTTATCCCTTAAAGTTCTGTGGGCTCTGGCATCCTGGAAAATTTC
CCAGCTTTTAAGATCTAGGTAGTCTATGAAACAGAAATCAACTGAAATTTGTCTGCATATGCCAAAGTATTTTTTCCAATATCATTTTCATAAG
CATAGCACTACAATAAGAATTTTTAAATGTAATTCCTTATTATGGATCCAACAGTTATAAGGAAAAATTGGCATTTATGATTTACCTGAAGGGT
TAATGTAGTTCCAAAATTCAAAATTTAATTCATATAAAAGCTTATGTGAGTAAAACAATGTGTTTACCAAAGTGATGCTATTTTGATATCTGAA
TTCAGTGAAAGTAAGAAGGTTGTATTCAAGTCAGACTTTCTGACTGAATGGATGTAGCCTTGCCTTTGAGGTTGATGACTCATTTTAAGCAAAT
GGAGTTACTGAGATGAGTGAATGTGGATTAAAGGCAAAATTTTGATCTCAGAAATTTAGAATCAGAAATGCATCCAGACAATGCATTTGACGAC
ATCTTCCTGAAAACAGTTGTAAATTTTCATCCTCAGATTAAAAACTTCTGAGGATTTAGATACTCGTATGTAACCATGAAAAATATCTATTAAG
TATTGTCTATTTGACACCACTCCCAATAAGATATAAACACATACGTGTCTATATTTTTCCAACTGTCCCAAAGGAATTTTGTGATTAAAGATAA
TGAATTGTGTGTGTGTGGTTTTGGGGTTTTTTTTGTTTTTTTTTTTTAAGTTAGAAAAAGATTCTTTTTTCTTTGGGACCTCTTAGCCACAGAT
TTTCCCCAGCTCTGACGGAGATGAGTCATAGCATAGACTACTAATTTTTAGAACATCCAGTTCTGTTGCATATTAATCAGTGTTAATTAACTAA
TACTGTTCAAAAACTCAAGTTGTGTTTAAATTAGCAGTCAAGTAAATCTCTATTCTTATGGTTAGCTAATTCTGCAGGCTATTATACATGTGTT
GTTTTTTTCATGGTTTTAGAAATTTCATTTAATTATTTAAAAAACCAACAGTGTTTGCTTACAAAAGGCATAGGGCTGAAATTGTAAATTATTT
TTAAATATGAATTGTGTGAGAACCAAAACAAAGGAATTACCTCTGAAACTTCATCTCCAAAGGCTTCCCTTGTGTTTAGATCTGGAATCTCCCA
AGGAATTGTTTTAGGTCTCACTGTGATGAGTTGATCATAAACTTTAGACATTTGTGTGCATTAAGGAAATTTCCCAGACCGGGGAATTTACTTT
ATGCCTTACTTATCTGGTAAATGTGTTTGAGGACTGATCTTTGGAAATCAGGAAGTTTTTGGATAATATAGGAACAGTTCCAGATGCTTCCCAG
AGATTTAAATCAGTTCAAGGCACCTGGACTGCTCAGAGACTGCAAGACCCTACTTGGCATAATGAAATGTAGTATAGTCTAAGTAGTGCATACG
TTTTACATTTGTTCATGAGCTCAAAGCTGTCAAAATCTGCATGTTTGCTGGGGTTCCACAATTTAATGAGTAAGGGAGTGAACCCCCACCAGCA
GCTAGTGGGTGTGATGAGCTGATGGGCAGATGATCTAGTGCTGTATATGCAGAGTTGGTCCCACAATAGAAACAAAAGGTGAGAATGTTCCTTA
AAAAATCTTAACGTATTTTCTTTTCACCAAAAAGTGAATCTGTAAAAAGAAAATCATCTGCTTAAGCGACTATGTGGTTATAAACTACTAACAC
TACCACAAATTGATTGACATCATTATAAAGTTGAATCAGGAAATACAGCGAAACCTCCCTTAATATGATGATGAGGTCATAATTATCCTTGTTT
TATTCTTTGTATACAAATATGAATAAGTTAGCTTTATAAATCATAAAAAGTTAGAACTGGAGTAGACCTTAAAGATGGTCTGGTATAATCTTCC

CTTTTGTACAAATGAAAAAATATGACACTTCTTAGGTGTTTATCAGCCCACAGTAGTTTATATAGTGAAGGCTTCCAGCTAACTTCATTAATTA
ACTATATCTATAAAATTTCTGGGTTAGATAGTATTTAAGGGAACTACCTAGTTTTGGAATCATTCTGGTAGGTTAATATTCAATCTTGAGCTTG
ACCATATTAATAATCATAAAAACAAAAATCTTATCCTCTGAAATGCTGAGAGAAGCTTAACAGATGCAGGGTCTAGCACAGGGTGTGTTCTACA
ACGCTGAAACAGTATATCTAAATAAACATGTCTGTAGTCCCTGCTGAACCAGCTGTAATCAGAGTAGATAAAGGAATGTCTTTAAGTAAGAGTC
AAGGAAGCATAACTTTTATTAATATGGTACAGTTCAGAGCTTGGCAGCAGCAATTTAAGACAAGGAAGCTCTGACTAGAACAAGCCGTAACATG
TTAAGTCTAAAGCCTAAACTCTTCAGCAGATTACTCCTCCACACATGCATAGCATGAGAGGTTCCATGGGCTTAGGTACCTGGCTTTTTAGCCAT
ATCTTAGTGTACAAATATCGATTAATACCATTTTTCGTAGTAAGATTACGGGAAAAGTGATTCTTGTTTACAGAGCCCTCTTTCAGTTTCATGT
TTTTCTTCTCTCATTTAGTAGACATAAGATTTAAAAATTTGTATGTACCTTTGTTGCCGTAATTTTTAATAAGTATTTCTCAAACTTAATTGGC
TTAACGTTCACCTTTGCAGAGAGGATTTCGTTTCCGTTATGTATGTGAAGGCCCATCCCATGGTGGACTACCTGGTGCCTCTAGTGAAAAGAAC
AAGAAGTCTTACCCTCAGGTCAAAGTAAGTTTGTGGTAGCTCTCCTTCTATTTGAATTCTGGAAATTTTGATTTCCTACGATTTCCAAGGAATT
GCTTTAAATGAGTACGGGTTGCCTTCGCTCCTAAGCTGAAGTGTTCACATGATTATTAAAATTTTTAAATAGAAATTTGTCTCCTAGCAATAGA
AGTGACAGATACTAAAACTTTGTTAACATTTCAATTTAGTAGAAATGTCTTCAGCATTAGCTAACAAACTTACTATTTCTTGATCATCTTAAAT
ATTTTTAAAAATTGGATACTTCCTGAAACTTTAGTAAGTCTTTGAAAGAAATGGTTGATTTTGACTCTTTGGAGATTTAGTGAAAAACCAAACA
AGTGACTGAGTGTATGGATTATATAGTATATTATTTAAGATTATGAATTGGATCCAGACTTTGTTATTAGCTGTGTAGCTTTGAATAGGTTTA
ACCAATACTTCTAAACTTCAGTCTCTTAATGTATAAAATACAAAAATATTAATAGTATATACTTCATAAGGTCCTTTAGAGATTAAATGAGAAA
ATGTGTACATGTTCCATAGAGAGCCTGAAAGTACCCTAGGGCCTTGGCCTGAGCAGATGTGTGGCCCTCTTGGAATGAACTGCTACGTGACATG
CTGGTGGTGTATTTGGTCATACCTTTTACCATGTTCAGGCTGTTTGTTTATTTGAGAATATTTTTCTTTAAGTTAATATGAGACTTTTAATTTC
ATAATATGCTATGTTTCATAGACTGACTGATGATAAACATAGACTGATAATCATTTTGCAGATAAACGCAGTCAACAATTGTAATTTAGTTTTT
TATAAAAGTTATTATTTAGTCAGTAATTCAAGGCTTGGACAAAATAGTTCTCACTATGTGTGTGTGCCCCTCAGGGTGTAACATACTTTTGGAC
TCAGTCTTTTTATTGGTTTGTTTTTGTAAGTAGATGAAGCTCAGTAGAGCAGGCCCTCAGCAAAGTTGTGATGTAAAGAAATCTGGCCGGGCTC
GTTGACTCATGTCTGTAATCCCAGCACTTTGGGAGGCCGAGGCTAGCAGATCACAAGGTCAGGAGTTCGAGACCAGCCTGGCCAATATGGTGAA
ACCCCATCTCTACTAAAAATACAAAAATTAGCTGGGTGTGGTGGTGTACACCTGTAGTCCCAGCTAGTCAGGAGGCTGAGGCACAAGAATCGCT
TGAACCTGGGAAGCGGAGGTTGCAGTGAGCCGAGACTGTGCCACTGGACTCCATCCTGGACAACAGAGCGAGACTCTGTCTCAAAAAAAAAAAA
AAAAAAAAAAGAAAGAAATCAGTCTTTGGTTTTGCCAGCCTTGCATTTTGTTTCTTCCTTTTCCTCTTATCCATCTTCTAGGCCCAGGCCTGTT
AAATTTCTTATCCTTATTCCCAAACAAAAGACAAAATGTTGTGACGTCGTTCTTTACCTTTCAAGTGAAACTCACCCATTATTTAGTATGGGTA
CTACTAGTCATAGTTGCATTTTAAGTCTCTTAGCTCCAATTGTGGAATGAAAGATGTTTTTTCTATTAAAGGTAATTAGGCGGGTAAATATGAT
GGCTTAAGTCCACAGAAGCAGACCACGGTCTTATGGCCTCACATCCTTTAGAACCTTGATGAGGAATGAGGAGCAGCAATAAAGAACTAATTTG
CACTTATTAAACACCAAAGACTTGCCAAGTGGTTTGTATAACATTATCTCTTTTAATCTCTTAGAAATCTCAGTAGGTAAAAAGTGCAATGCCT
GTGAACCCAAACAGACTCAGAGAATGGAATTATAATAACTGGCCTTTCTCACAAGACTAGTGGCTCTATATCCTGCAGCAGGCTATTGCTCACC
GAACCTCTCAGATATAATGTGTGCATTTGGGGTACTGGGGGCAGGGAGATAAGGGACAAATTATGGGCAGACAATGGTGTAAAAAGGCATGGTG
AATGATAACTCTTGAAAACAAGGGAGAGAGAGGCTCACTGGTCAATGGGTACTCAGGTATTGGGGAAGCCAGGCCCAGCACTTACCTTTTTAAC
ACATGTGTCTGTGTGTCACATGTATAAATATTGTGCCTTTATGTATGTGTATATTTGTGAGAAGGGGATTGAAAGACACATGTTATCAGCATTG
ACACTGACTATAATGACTGAAGAATTAACTTTAAGCGAAAAACTGGGAGTTTTTTCTGACTGGCTTGGCACAAAAAATATAAATTATGGTATTT
TGTTTACTTCTATTGCTCTAGTATTTTGTGACTAAGTAACAATTCTTGATACTAACAAACACATGGCATTAACTTTCTTATAAATTTATTGGCT
AAGAAAAAACTTTATACATCCATTTATTCCCAGTCTTCATACATCTTTCTCATGTAGAGGTTTCATCTACTCAAAAACATATTGCTGCCTCAGT
CACAAAATAATTTACAAATGAAACAACTTAGTGGGCATTAGATGTTCTTGTAGAATGAAAGTTTCTATATCAAGGAGTTTAGTACTTACTGGGA
AATATAGATATGTAAACGACTAATAATAAAGCAGGTTCAACTACAGTCACATTATTTCACCAAATCATTTATTTTTTATTCACTAATTCAGTAT
CCATTTATTAAGCATTTAATCAACTTGTAAGAGGAGGAGGAACTTAGAGGTTAGAGAATATGACTATACAAGCTGTCATTGTTCCCTAGCTTG
TCATTGTTCACTGAAAATTGAAATGGTTCTGCTGTTCCTAACAGTTATAGGAAGTAATTTTATTTATCCAAGAAATTCTTAATTGGAAGGATGG
GTAGGAGAGAAAGAAAGAGACAACGGCCAGGTATTTTTTTTTTCCAGAGCTCTTCTCCAAATATCCCTTTTAATAGTTATTTCTGCTCAGGATG
ACCTTTAAGTTTACAAAGGAATTTTAAATCCCCTTTTCCTCTAATGTTTAAGCAGAGGAAAAAATTGTTCTCCATGCATCTTTCTAATCAGGAA
GACCTTTAAAATTGTGCATGTCTTTTCTGTGGTACTTTACTAAGCACCTGCTCGGCGAGAGACTGTAAGGGAAACAGTGGGATAGATACATCTA
AAGTTTCTCAAACTTGGCATTATTGACATTTGGGGCTTGAAAATTCTGTGTTGTGGGAGGCTGTCTGACACGTTATAAAATATTTAGCAGCCTC
CCTGACCTTGACTCACTAGATGCTAATAGGATTCCTATAATTGTGACATCCAAAAAGTCTCCACATTGACAAATGTCCCCTGGGGGGCAAAATC
ACCCCTCTTTGAGAACCACTGATGTGGATGCAACAAAGAATCAACCTTAACCTTACCCATTTGCATACTTTTCTACTATAAAGTTGTCTCGCAT
AGATTACGTAGAATTTCCAAGTGTATTATTTTATAAACGTGCCTTTCTTGGTTATTAGTAGATATTTCTTATTTTCAAGATGGTGATCATGGTG
TCTGTATAATTTCTGTTAGAATATCAGAGTTAGTGTACCTGGATACTAAGGAGAAAGATAGAAAAGATAAAATATGTATCTTCAACATTTTGTA
TTCTGTGATGACCCTAAAAGCTAATGTGGGAGTTCTATTGACTGTTATAAACTATTACAGAAGAAAAAGTGAAAGTGGAGAGTTAGGTCCACTG
TGTGTGAACAATGGGAGGGTCTATGGAATGATGCTTTCAGGTGGGCAGAGGCCTCGTGGAGGGTGGCCCCACACTCACCCCCAGAATCCAGAAG
CCATTCCCACAGGAACTTCAGAGGGAGAGCATTTACATTTACAGGAAAGAAATGATACTTCTGAGCCTACATTTGCCACATATTCATTAAGTGC
ATTTGTTCAGGCATTACAGTAAAATGCCATGGGCTGTGCTTTTCCTCAGCTACAGCCTCTCTCCCTCCAACCTCACACCCTGTCTTCCTGTCAT
GCCTTTGTGAGAGCGCCACCACTCTGCGGTGCCTGGAGAGGAACCTGGAAACGCTGATAGTTCAGTGCATACTCGGTCATATGGAGACAGCAGG
AAAGAGTCAGGGGCCAACTTGAAAGATTTGGGGCCTGGCTGTGGTTTGCAGGCTGTAGACACCAAACTATACTTTATAGAACATGTGAAAATAT
AGCCTGTATGGGTTACTCTCTTACTGATTGTCTAGATTTGATGCCTTACATTAAATCATTTTAAAACCAACTCTAGAAGTCTACTCAAATCCTG
CATTTTCTAGTGGAATAGTGTCCCATGCATAAAACCCTGTTTCGCATAGGTGTAGGCTAGCTTACAGACCCTCTTACCATGTTGAGATTATTTC
TAGAACTCAGGCTACTGAACCATCTGGTGCTCTGCCTGTGTCTTTCACATAGCTAAGAAGAAAATTTCCATTTAGCTTTCTGATATCTTGCTGT
GCAAGTCTTCATGCTCTTTTTTTAAAAAAAATTTTAATTATAAATTCTTTCAAGCATATAGAAAGTTTAAAAATTGACATAACAGACACTATGT
ACTACAACACAAATTTAATAGGTATTAGCATCTTACCTTATTTGCTTTTGATAGCTCTCTCTCTCTCTCTGTCCTCTCTCTCTCAAATAA
AATAGTTACAGCTAAAACCCCACTTATCCATCACTTTGTCCTCCTTCCTTCTCTTAGGTAAGCTGCTACTCTGAACTTTCACTCCCCAAGATGT
TTTTATATTTTTACTACATAAGAATGCATCTATAAATACTGGCATTTTCAAGAAAGTTAATTTTTACTAACTTCAACCCAAATTTGCCATTGTA
TAGGATGGCTCCTTTTCAGGGCAAACATAGGTTCAAACTGGACGCCATTGAAGATTAACTGGTACTCACTTTGATCCTATTGATTCCTCTTTGC
TGTCTAGATAAAAATGTATTTGTCACAATGTAGTTTGTACTAACTCTTATAGCAAAAAAATAATATTCAGAGAAAAATCTAGGGGAAGTAAGTAT
GCAGACTAACTCTTATATCTTGTCCTTTCATAAGAAAAATTTCCCATCATTAAACATTTAATAATCTATTATACTGCCTATAAAATTTCCCTTT
AAAGTTTTTTCCATTCTAATTTCATCACGGAGCTCCTAATAGGAGAGGCTGGCAGAAAAGCACAGGAACCTTCCTCTAGGCCAAGCTTGTCCCT
GCCTGCTTTTGACTCAGCAAGGAGTGCCAGGGAAGGCTCACTTCCCTATTTTTCCCGAAAGCCACGCGTGAAGTTTTAAAAATCAAACTGTGTT
CCCTTTCACAGAGGTGGGTGACAAGAGAAGCAGCCCCATGGGACTTCAGAAACTCTCACCAATCCTCCTCTAGAGTGACCAGAAAGTACCCCTT
CCTATCCTAACTAATGTGACACGTCCTTCTGTGTGGTCCACTCTATGCAAAACCAGAAATTGACAAGAATGACTTTGATTGTAAAGTACAAATA
GCTTACCAGTTAGTATTCTTAGTTTCTCTTTAGTTATAAATATCAAATGCAAGGGACTTGAAACCCAGCTGATAGAAGTGTAACTATTTTTAAT
CAAACATTTTCTGAAAGCTGGTTCTCACATATGTTGTCTTTCCTGAGTGTTTTATGTTGAGTGGAAGACGTGTTGAAATGTTTAGGTCAACAAC
AGCTTTTTTGTTGTCCCCTTCCACTACTGATTTAAAAAAAAAAAAAAAGGCTCCACTCTTCGTGCCTTTCCTTAAAAATCCTAAATGTTAAGT
TTCTGTCGAGGTCGAATAGAGACTACCCGATCTGCTGTGGCATTTGAGGATATCACATATCCTTGCATAATCTCCCTTTCCTTTGTATAGACTT
GTCTGATTCACGTGGTTTGGATCTATTTGGAGTACTAATTTAAAATAATTTAACCTGACTCAATTACTTAAAACAACAGGGGAGAAAATCACCA
ATAATCAGCTATGTGTGCGTATAGAACCTAGTTCATATCATTTATTAGGATTTCCATTGAACCCCTAAGCTGTTCACTGCGCAAGTATTTAATT

AGGGAAAATAACCATACCCCTATGTACATTATACTGTGTGTTTTGTAAACCATGAGAAAAGCTGCTTATTGAACAGAAGGGCTTTGTAACCTGG
GGTCTATGGATCCCTGTTGGTGGTTTCAGACGCTTTTTAGATTCCTAAATTTATATGCAGACTTACACATGTATGTATGTGCATTTTTTCTTGG
GAGATGAGTATAACTTTTTATCATATTTTCAAAGGGAAAGATTTAACATGGTTAAGAATCATGCTATAGCTTGTATCACTTTAGCTTTTTGATA
GCAGCTATCTTTTTAAATGATCTATGTAATATTTTTTAAGATTTTTTCTTTTTTTATTCTTGCATTTTAATCAATTTTAAATGAAGTGAAATG
CTTTATGTTGCTCAACACATAGCCCAGAAAGCCTCCCTTCAGTTTTCCAGTAGGTGGAAAAAAGATGAAACTGAATTGATGGCCAAAAGAGTTG
AATGGGCTTCACTGCTTTTTCTTTCTTGCTCTTCCATACATTTGCAGATTAAGCATGAAGCTCACCATTAGTGATTGAAGCCAAAAGAGAGAAG
GCAATTCATTGAACAAATATTGATTGAGCACTGTGTGTCAGGTACTGCTCTAGACAAGCAGACAAAACTCCCTCCCATATGTAACCACAATTGA
GACTTATAGGTAATTTTTGTTGCAAGTAGTTCAGAAGTTTTGTATTTTGTCCTAAAACAAAATATTACTTTGTAAAATATTTTTTTAAATAGCC
CTCTAAATCCGCTGTATATATTCAAAGTCACTATTATAAAGTGGAGAAAGCTACTCATTAGAGAAAACCTATCACACAGATAATAGCTGGGAAG
CTTAACCCTTAGAAATTATTAGGAGAGATATACACTCCTTGAATTTAAGAACTGTCTGAATTTTAAATTTTGTTTTGTCAGTTCTGGCTTGGTG
ACCTTCCTCTATTGGCCATTCCCATTTTTCTGCCCTCCACTCTTCCTTGACACATGATTATTTCTGGGACCACTGTTCAATCCGAAACAAATCT
CTGGTGGCTTCTTTTAAACCCAGTGGTCTCAGTCTGAAGGTATAGTGGGGCAACTCTCGGCATTCCATTCTGGAGTCTTGACCTCATAAAGTCA
CATATTGGCAATTCGCCTTGATAAGGTCAAGTGAACACACAGAAGCACTAAGATCCCCACATGTGTTCCACTGCCTCCTCCACAGACAAGTTGT
TTTTCAACCCATCTGCAGGTCCAGAGGTGAAGCTGGAGGCTACCCTGCAGTCTCAGTCTTTTCTCCCCACCCTCCAGATGGATTCCAAATAAGA
AGCCTCCAGACTACCTTCACCTCCCTGGGGTCTCATGGACATGGGCTGGAAAGTGCTTGCAGACTTTCACAGACAATGCTTTTTGCCTTTAGGT
CCCCTTCTACCCAACAGAATGATTATAATAATGGCTTGATGTGCTTACTTACATCATCTCATTTAATCATCACAGTAATCCACTGATGCAGGTT
CTGTGATCCGCATTTTATAAATGAGGAAATTGAAGCCTAGAGAAATTAAGAAGCTTAACTTGGGTCTCACAGGCTTTTAGAGATGGAGCCCAAG
ATTTCAGTTCATGCCATATGGTTTAAGGGCCTGCACTCTTAACCATCGTGGAATACCATTCATTATCATAATGTTAAGGATCTGTTTCTACTTT
GCAGGAATCTTTTAAATCTATGGTTCACAATCATGGGTGGGCTTCAGAATCGTCCAAAAATGTTTCAACCACAGAGACGCCTGGGAACCACTGC
ACAATTGCTAAATCACAGTGCATCATCTAGCCAATCTTGGATTCTACAATAATTCTATGACAGTTTCTAAGAATACATGCCATTATATAATGGC
AACATATTACAACAGATAATTGAATAGATATTCAATGTATACCGTGGAATAGAATATTATGCCACTGTGTTTTAAAAAGATAATTAAGAGGATA
CGGCACAACGTGGAAAACTGCTTATAACATAATATTAAGGATAAACCTCAGCTGGGCATAGTGGCTCACGCCTATAATCCCAACACTTTTGGGA
GGCCAAGGCAGGAGGATTGCTTGAGCCCAGGATTTTGAGGCCAGCATGGGCAACATAGTGAGACCCTGTCTCTATAAAAAAAATTTTTTAAAGA
AAAAAAACAGGATTTCAAATTATTGCTAATATTTGTAGTGATTACAAATATTAGCTTCTTTTTATAAAGCCTGGGTGGAAGCATATAGATGTAT
CTTTAGCTTTATTTATTCATCCATGACTTAAAGAAGATTGGTTAACACCTGACTCCACCTTGAGTAGCAGAACATTGGACTGAAGGAAAAAAAA
AAATGTGAAGCTGTCTTACTTAGCTACAGTTTCCAGCATGTTTTCTCAGGAGCTCTATGGGAGACAGTGCAGTGTGGCTCTCAAACCTTACTAC
CCATAAAAATCTGCTTCAAAACCTACTTAAAATATCGATTTTATTCCATTTCCAAAGCCTGGTAGAGTAGGTAATTCTCCCACTACAATACACT
TAGTAACACTAGAAAAAAAATATAACATTTTCTTTAATGCATAGCTGAGTTTATTAGAAAGTATGAAAACTACTGGGGCGCCGTAAGACAAAAG
AAAACTTTGGGAAAACACAATAGGATATGGGTGGACTTTGGGGCCACAGCTGCCCTGGAAATATTTGCTGACCTAGATAATCAAGAAGCTTGGT
TTTTAACAGCTTCCTAGAGACAAAAGATAAGGCCTTGGGCCTTTCCAATCTGAGGAATTGAAACTGCAATCACCCACTTAATTCAGGACTCTCT
CAGGGCTATAGTTTCTGTTGATGGGTGATCCTCAGGCAGAGAGGTGATGAGGAAGTTGCCTGTCTCAGCCTAGGGGGAATCAGAAGATAAAATG
CCTCTCTTGAGAATCAATAACTACAAGCCCAATTCTTACAGATTCAGAGTTAAGTGTATGCTCCCTGAATAGAGTAGGAAACCCCAAGTCTAGA
AATGAATATGAAGTTGTTCCACATTGGGGATACCCTCAGAGCCTTGCAGAAAAGCATAAAAATGTATGTGGCTCAAAGAATCATGAGCTCCTGA
TCAAAAATTAGAAAATATGTATGCAAATAAGCCACTCTGTTTAAGAACTGGCAGAACAATGAAAAGCAGAATTAAATCCTCAGAATCTTCAGAT
AATTGAATTACCAATTGTTTGATATATAAATACAAAATAAGTTTGGAATAGAAAACAGACCAGGCAGAATGAAAATAAAACCAAGTCGAATTTT
TAAAATTAAATGTGCGACACTGAAAATGATTCAACATAGTTAACATGGATAATTTGAAAGAAAGGATGAGCTGGCAGGTACAAAAGAAGGAGTA
AGAGGTGTCTAGTTGAAGTCCTAGAAAGAAGTATTACAACTGCAGATTTCTGGCTCTACATTTACAGTTTCTAGGTCTGGGGTGAGGTTTAGGT
GGTTGTGGACCACACTTTAGGTTTAAAGCATTGGCTCTGAAGTCATTTGGTTCAGGGCTGGGCATGATGTTGGTTCCTAGTTTTGCGACTTG
CAGTGTTACTTAACTTGGCTAAGCATCAGCTTCCTTATCTATGAAACTGAAAAAATAATACCTATGTCATAGGATATATGTGTAAATCAAGTTA
TTCAGTACATGCCACACAGTAAGCACTTAAAAATGACAGTTGCTTCTATTTTTATATAACCAAATACACTACTACAAATATTGAGTGGCAGCTT
TGCTGGTTCATTTATGGATTCATGGAGCTACACAAAACCTTCACCAGTCTATTAATTTATTTTTAGTACAGTCTCTCTAATCAGTATTGCTTCC
ACTGTATATTGACCCCATATCCTTTCTTCTGTCTGGGGTTAAGATAGGAGACTGAGATCAGCTGTGTCAAAAGCTTTCTTTTAGATGTAACACA
TGATTTCTTATGAAAATCTCATAGGTAGGATACCAGAAAGGAATTTATTAAATTCTTGTTAGGCTCCTTAGTTGTATTAGTTTTGTAGGGCAGT
GTTTTAATTTAGGATACTTATGATAGAGAGCACCCCTTCCATAATCAGGAGAAACACAAGATGGAAATAAAGATTTTATTACTTAGTGGTCCTG
GGGAGCACACAGCACTCCAGGGAAGGCCACACACCAAGATCAGGGAGCATGTGGAGAAAGAGAGAGAAAGGAACTCACGGGCCATTGCCTTTAC
TGGGTCCAGGACATTATCCAAACAGGTTTCCCACAGGGAGTTTTAATAGGTGGGTTTCAAGCAAGCAGGTATGAGTTCCAGGAGGTCACAGTGT
GATGAAGAAGAAGTCACTGTGGCATATCTGCACAGTCCATGCGAGGTGTGAGCATCAGTGAAGACCAGTCAGGTAGGCTATATGTAGCTGGCCC
ATGGGGAGGCGATCACCAGGTGGCAATTGTATAATGCAGATATCTAGATTGGCCACATAGAGGAACCGGGAGGAGGTGTAGTACTGGAAACTGC
GTCGACGGTCACTGAGCCCTGCTTTAGGTATGAGAAAGTCCAGCTTATATTCAGAATGGATGCAAAGGCAGCATAAAATTAAAAGCATTCACTG
CCAGCTGCCATAACAAGTTACCACAAACTAGGTGGTTTAAAGCAACCGAAATTTATTCTTTCACAGTTCTGGATGCTAGAAGTCCAATATCATG
GTCTTCGCAGGGCCGTGCCCCCTTTGAAGGCTCTAGGCAATAATCCTTCCTTGCCTGTTTCTAGCTTCTTGTGGTTGCTGACAATTCATGGCAG
TTTGTGACTTGCAGCTGCATCATTCCAATTTCTGTCTCCATCTTCACATGAATACTGTCTTCTCTCTGTGTCCCTGTGTCCAAATCTCCCTCTT
CTTTCTCTTAGAGACCTGTCATTGTGTTTACGGCATCCATAACCCTATGTGACCTCATCTTAACTAATCATAATTGCAACGACCCCATTTCCAG
ATAATACAATATTCTGAGGCTCTGGGTAGATGTGAATTCTGGGGGTACACCATTCAGCCCACTACAAACATATTGTGGCATTGAGGTTATAAGC
CAGTAGCCCTACAAGTATAGGATGATGCCCATTTCAGCCTGATAATACACTCCGAAAGAGATCACATGGTAACATTGTTGCCTCAGTTAATCAT
AGAAATACTCAATTAGTATAGAAATAACAAGAAAAATGCTTTGTTATTCTCATGTGTCATTTATCGAGTTCTTACTATGTATCTGTTATTGTTA
TCCTTATACACTTCTGCACAAAAGATGGTTTTATCCCAAGTTTTAGCTTAGAAACTGAGGCTTAATGAGTAACTTGACCAAGAATGGCTTCTCT
TTCTCCATTTCCTTCCTCTCATGGTGTTGTTTTATATACATAAAATAATATATATTATTCTATTAATATAGATTAATATATGTATTTATATATG
TACATTTTATATATGTATAAAACTTATGTTGTAAGTTTTATATACATATAATATATTCTGTTTATATATTGAATTTATATATATATAAAACT
TAACACTATTAAGTCTTAACACTATTAAGTTTCATGGTGTTGAGTTATATAGTTCTATTAATTATATATATATGGGGGGAGGGGTGTTTCTCCA
GCCTAGACTTCCACTTTGAAATGTAGTCTCCAGGCTCAGCCACTTGTTTGACATTGCCACTTGGATGTCTGGTAGACTTAACATATTCACAACT
GAATTTCAAATCTTCCCCACCAATCTGCTCTGCCTCATAGCTTCCCCTTTCCGGAATGTGGTTGCTCCATCCTTCCAGTTGTACAGGCCCCAAA
TCTTGGAGTTTTCCTTGACTCCTCTCTTCTTCTCAAATCCCACATGTAATCCATCAGGTAGTCTTATTGGCTGTGCCTTCACACTTTTTCAGA
AACTAATTATTCTTCAGCACCTCCAATGCTGCCACCCTGGTATAAGCTACCATCCTCAGCATCTTTCTTCCAGTGGATTTTAGCATCCATGAAT
GATTATTTCCTAAATCAATTATCAATAATTGTTATAAATTTGTGATTTTTCTATTTCTATCCTTCCTGTCACTTTTCCTGGTTTTTTTAAAAGA
GCTTTCTTCATTCTTCTTTAAAAAAAATTAAAATTAACATCAGTATGAACTCGTGGATTCTTTTGTTATTCATTGTACTATAAGCCATTCCTGT
CATTATTCATTTTGATTCTTAAATTGTCCTATTCTTGGCCAGTGGGAGTCTTTCATGCTAGCTCCTATGTCTTTTTGATATGTCCCTATCTTTT
TTTTCCTAACACTTTCCTTATTTCTGAAATTATAAGCTATTCTAGGTTCACCCTATACCTTCACTACCCCAGTCCAGGCATCGTCTGTCTCTCT
AAGAAGTCCTAGTTCCTTTTAGCAGGAGAAGTTTTTCTAGACTCTTTCATTAGGCAGAGCTACAAAATTGATTATTTTAAAAATCTCGAGTTCA
TACACTAATTCATAATTCTAATTCCAATCCAACACTGCAGGCTTCTTCCCTCCCTCCCCTCATCCCATACTTGTATTTGGATTTGAGATATGAA
ATGTGTATCTCATATCCCATATTTCTTCAGTAACTGAAAACCCTCATCATCAATGATAGCAGCATGCTTACTCATTTTGCTCAGTCCAATAATT
CACACACATTTGTAGAAAAATAGAATAGTTTTAGAATGGCTATACCAATATCTGCAAGCTTACTATATTCGGTTCAAAATTTCTTTGTAGTTCT
TTTGACCAAATGTATTCAACAGAGAGCATTCAGTCAGAGTAATGTGTACAAAAGTTACTTGGATTAAATTTTTTCCTTCTGTGTATTTATGTTT

CCATTGAGCTATAGAGTTAAGCTATTTTTTTATTTCTATTCCATTTTAGGGGTTTTCCCATCCCTGTTGATTTAGTAATTTTATTTTTTGAATA
TCAACATTTGTCAGTTTCACATCTTTCATTTATATGAGATTAACTAGACCCTTTAGAAATCATTATAAAGTCAGGTTGTTCTATTAATTTTTAA
AATAGGTGTATAAAAACCAAAGGGATCAATCAGAGCCTTGATTTAAAGTACGTTCTGAATTATTTCAGACACCCGAATCCATCTAAACCCAGAA
CATTTCATTTGTAGATTTCAAAGACTTCTTGGCCTTCCTACCTTCCTTACATTTATGTAGCATGTGTTTATCCAAGGCACACCACCTGCCAGGC
ACAGTGCTGGGCTCTGTGTTGACACACATGAATGTGATCATCTTTCTGTAGCCCCCAGGTTACATGGCACCACAGCCAAGATACAGACATGTGT
GAGAGAGTAATCAGGGTATTACTCAGGATTTGCTGGAGGAATCCCTCTTCAAAGGATATTCTAAATTGGTGTGTGTGTGTGTGTGTGCGCGCGC
GCGCGCATGTGTGTGTGTGTGTGTTGAGGTGGACTGGGAGAAAATATACCCTCCTTGAGATCACCTCCTGGCTAGATAGTCTCTCCCTTCTC
TGTTTGTGATAGAATGCAAGTGGAATTTGACAGGTGTACTTCTCAAACTAGAAACTAGAGAGCTGCTATCTCAGTCACCGTAAGAAGAACGAAT
CACACCAAACCTACATCATTGTCTTCTATGACAGGATTTCTACAAGGGTGAGATAGTGAGATGCTGGAGATCCCTGTTTTGGTAGTTCAGGGAT
TCACAGCATCTCCCATGCTGGTGATGTCAACCTGAAGAGATATTTCTAGTGATAGGTTCCAGGGATCTTTCACCGAACACTTTAATATATTTTA
TCATTGTCCTGAATACAGCCCTATAAGGTTCTTACTAAATTTGCAGGTGACATGAAGTGATAGACAACAAACAATTTGAATTCAAATTAATTTT
GAAAGCTGAGACAATGGACCCAATTCTTCAGCAATTATATTTAAAAGATATAAATACATGCAGAAAACAAATTACAAGTACAGAGTGGAAGAGA
GATGATTTAGCAGCAACGCATGCAAAGAGATCTAGGAGTTTTAGTTAATAACAGACTCAACATGAACCAGCAATGCAATGTGACTACGAAACAA
GTAATTCCTCATTAGGCTGCATTAATGGAAACACGATACATAAGACCAAGGAAGTGGTGGTCTCATTTGCACTCTGTGATGAAAGGCCACACCA
GGAATACAGTGTAGTACTGCTGGGCACCACATTTGTAGAGAAATAGAAACCAACTTGAGTGTCTTCAGAGCAGAATGGTGAGAGAACTCAAACT
TCATTCAAATGAGGAGTAGTTACTGAGCCTGAGAAATTTATAGCCTGGAGGATTTGGTTGTCTTCAAATATATGAATGGCTGTGATGGGGAAAA
AAGGATTAAATGTGTCCTGTTGTCACAAGAGGATGAAATAAGGAGCGGTGAATGGAAGCCCCAGGCGATAGAGGTTTCAGTTGCTGCTGACAGT
CAGGGCTGTCTGAGGATGGAATGTATTGCCTCAGGACAAAGTGAGTTCATTGTCACTGAATTGGTTCAAAAATGACCAGGAAGACTACAGGGCA
GGGAAGCTAACTTGTATTACAATAAGTAATTTTTTTCTTTTTTATTTGTATGCCCTTAGAAAGATGTTTACTTAACTTGATAAATCTGTAACAA
GGGATAATCAAGATTTGGTTATAGGACAATTACAATTTTCTGACAGATCCCCCAAAATAATAGAAATTAATAGCTTACACACTACTTTATCCAA
GCTGTAGAATGTATAACTTACTTCATATACTTTGTGTTTAGTCAGTTTATACAGGCTGAACAACATAAAGTTAAGACATAAAAGGGTTTTTTTT
GCAGGTTTAAAGTACTACCATTTTTCCAAATTACTGGCTGATCCTAGAACTTTGAGAAACTTTGGTGTTTCCCCCTTCCTACTTTTGTTTACA
TCATAGTACGTAGATGGTACAATATTTTGGTTAACCTCAGTCTGACACTTAGATTGTGTTCTCTTTTGCCCTATTAATGTCTAGAGTGTAAAAA
GACCAGTAAAGTAGCACCAAGAAATCAAAGAAAATTTCCCAGTTCTACTCACTTGTAATTCTCTTAATTTAGTAGGGGCTTTCCACAGGAAATC
ACAATAGAATAGTTGAAATGCTCTTTATCTTATGTACTTTCCTTCTGAAGAAAGGGACAGTTAATTGGCTTTGTTCCCAACATGGTCCAAATTT
TTATACAGGGCAGCTGTATTTACTGTAGTACAAAGGAGATTCTACACCGAATGATGTCTCTAAGTATTTTCAATAATTAAGAACCTAATTGCTT
CTCTAGCCAGTGGGTTTCAGTGAAAGTGATAAAATAGATTTTCTAAGCAAGAAAAATACATAATGAGGGTGGTTGTATACCTTTAAGAAAAAAG
AAATCAGTGATATTCAATCCCAAGTAAATTTGGATATCACAGAGTCAGAGATATTCTTAATTATTTTAAATTAAATTTGAGTCAAAAACAATGT
GTTTAAAGACTTTAAAATCATTTTAAAAGAATGTTAGAAATTTACATTAATAATTTCTATTTTCAATGAATAAATGAGAAACCTAGAATTTTTG
TTTTGGACACACTTTGATCATATCTAATGTGTTCTACTTCCTCTAATTATTTTTATGTTATTAGGATTTTTAAAAAACCTCTTAGATTAAAATT
TCTCAGTGTATCTTTGTTTGCGTGTCTTTTTTTCTCTCTCCACTTATGTAATTGAAGCATTTCTGACATATCCTCAGAACACACAGATTCTTAT
CAGGACTTAACTACCCAGGGCAGGGCCCTCCTTGGATTTACTGAAAATAAACACTTTGGGTACTCAGTCTCAGTTTTAATGACAAAAGTTGAAA
TCTTTGCCTAACATGAAGGTTTTTCTTTGTCTCTAAATTTTGATTTTCCATGCTATCAGAGGTCCCATTGCAACAGGTAATTTGAGTGTTGATT
GTATGTTTTCTCAGTTTGTAATTGTGGTGAAATGTATTTAAAATGTTCACAATTTTAAAGTTAAGTTTACCTATAAGGTTCTTTCCAACTCAGA
AATTCTGTGATGGTAAACTTTTTTTTTGTAGTTTGAAAATGTGATCTTTGGATGTTGTCTTCTGTGTCCTATGCATATGACTAGGAATCATAGA
ATTTTAGAGCTGGAAAATGAGTGAGACATTATCTAGTGATTCTGCAAATGAAGAATTAAAAGGCCCAAAGAGGTTAGGTGACTCACGCAGTATC
ATAGCAGTACCTGGTGACTAGAACTCTGGCCACCTACTGCAGCACTAAAAATTAACCCAAATGTTTTTATCTGAAAATTTGCAGACTTCAGGCT
AGGCCTGTAAATAAATAAATAAGAAGTTAAAACATATTTGAGAAAGGTAAGCTTAATATGCCACATTTGGGAAAAGATGTGCCTGACACAAATG
TATTTGGTGTAATAGAGAACATTCTTCCATTATACCGAAATGAAAATTTTGAACATTCTCAAAATTCTTGAATTTTGAGACATTTATGTTAAGC
ACAGTTTATTCAGACTCTCTATAAACTGTGCTGTCATCCCTGTTGTTTTCTCCAAGCGGAATCATACTTAAATTACAACTTTAGGGAGTTTAAT
GTTTCCTATTTTTGCACTCCTGGGATATTTTTCAGTGACTCAGAAGCATAAACTGACACTGTGAAGTTAAGGCTGTGTTCCAGTGGGAATGACA
GCATGTCTCTAGGACGCTGATGGAGAAAGCCCTCCTCATGCAGCTGTCTTGCGGAGTCTCCCTGCTGGTGGTGAATGTGAGATCACACAGGGCC
AGCAGCCAGGGCAGTACATCTCTGAGTCTCGCTTCTGGTTTTACCTAGAGCCAACCCTTGGTGATTGTTTGCCTCCTTGGCCAAGCCCCCACAC
AATAGGAAAACTGTGTCTCAAGGTCGAATTCTATTAATACCTGAGAGGTGAATTTATAAACATTTAAGATGTTTTAGCATCTCTGCAGCCAGTG
TCTCTGTAAATGAAAATTGCTTCTCGAAGTAGAAAAGCATAAGGGAGTACAAGGGCTTCAAAAAAAAATCCTTTTAGGAATAAGAATATTGCCA
GGGTTAGGTGTTCCTAACTGGTTTCAAGCAGAGGAGTTAGTAAAATTCCAAAAGTTAATCAGCTTCATGTACTCAACTTTTGCTAGGACTTTGC
AGAAACTCCTCAGGGATCCCTCAGAGTTAGATTAGGGAGATGAACCCTGCCAAAGGACAGTAACCATTCAACAGCTGGATAGCCTGTTGGGCCC
CACTGTCCTCAGCCTTTCCTAATGTTGCCTGGGAACACCACTTTTCTGCTCCCTCCTTTTTCAGTGTAGCCTGGAGACAATTATTTATTTATTC
ACTAGCTCTTTTAACAAATATTGATTAAGTAGGTACTGGTTCTGTTCTAGGGGTTGGAAAAACAGAGAAAATTAAATAGTGCCTTTGTCCTCAG
GAAACAATCCATTTAATAGAGAGACGAAGATATGCCCTTAAATACCTGAATCACCAGCATAACCAGCACCTGCGGCTGCCATGTGGGAATTGTT
GAACAAGATAATTTTTGAATGAAAGAGTAAATGACCTAATTGCTCTAATGTAAAGATAAATTTCTAAGAGTCGGCTAGTTGGGATGATTATAGA
AGGATTCAAGGGAGAGATGTATGAAGCATAGATCTAACGAGAGAAAACAGCACAGCAGAAAAGCAGCAAAGGCTCAAAAGTAGAAATCTCTG
AGATCGAATGGAGAATAGTAAATAATTTGCTGGAATGAAGAGCACGTGGAAGGCAAGGGTGGTAAGAAGGCTGGAGATAGTAGATAAGGCCAAA
TCATGCAAGGATTTAAACTGTATGTTTTTAGAAAATGGGTAAGCTATAGAAATTTTATATAGGAATGAGAAATTATCAGCAGCATTGTGCTTTA
GGACTACAAATCTGGTAGCAATCTGCTAACTGATATTGGAAGGGAAAGGCCCAGAGACACTAGTTGGAAGAATTGCAGTGATTCTTCATGAGCT
AAACTAAGAGTTCAAGCTAAGATAGATAAACTAAGGAATGAGAATGGAAGAAAGGGACAAACTGAGATTTTTGGGGTGGTACTCAGCTGAAGTT
TGGCAACTGGTTAAACATAAAAGACAAGAGACAGAGAGGAATCCAAGATGAAAAGACGATTTTGCTGCACTTTTTTAGAAGGCAGCATTTGTAT
TTCCATTTCCAGGAGGTGGAGTAGCTTTGAGAAGAAAGGTGATTAGTTCAGTTTTGGGCACATTGAGCTGTAACGGTATTATGGACAGGAAGAT
ACCCTACAAACAGCTGGAAATTTTGCACATGCTTAAAAAGAAGATGAGAACATGAGATTTCAATTTAGCCATCATCTGCATGGAGTAGACAATT
CAATCCAGGAGACTTGATAAGAATGTCAAGGGAGTGATCACGATAAAGGTGAGAAATGGACTGAGCATCGATCTCTGCTGAAACATCTCTTTGA
GCAGGAAGAAGAGTGCCTTAGCAAAAGCAGCCAGTGAAATGGGGAGTTGGGGGAGACTTTCAAGGAGGGAATGGTAACATATCCCATTCCCAAA
GAGGTCAAGTAGGGTTGAGGAATAATAAATGGCTAGTGGGTTTGGAAACATGGAATCTGTCATGACCTTTACACACTTTTTCATTTGATGGATC
GGGGGATTACTTACATTTGCAAAGGGCCTCAGATTAAGTGGTAATGGTTCAGCATTAGTAATTAGAGATTTTCTTATGTACTTTGTAGGGAGAA
ATAGAATGGCATTCAAACAGGTTTAAGTTCCTCTTAAGAACCTTTCTCATTGGATTGTAGAGAAGAGCAAATGAAAGAATCGTTCAGTATTTCT
TGGTATCATGCCCAGCCCATAGGTTTCAATTAATGTTAACCTTTACAGTTGTCATCATCATTATCCAGAAGGGGCTTTTTTTTTAGAATAAGGAA
GAAAAGCAGTGCTCATCTGTAGACAAGGGAAAAAATCCTTTGGAAGAGAGAAAGAGAAGGGTAATTCAAGAAGATCAGGAATAAACATTAAGGG
TAAAAACAGAATGGTTAGCCCTGGAAAAGGGAACAAACATGTTTCTCTGAATTAGGAGAGGATATGTGAAGTAACAGGGATGTTTTGAGCCTCA
GTAACAGTAAGGAGAAGAGAGAGTGAAGGAACTTGCACGCAGTGACTTCTACCTTCTCATTAAAGTCAAGAGAGAATCTCAACTGCAGATATCT
GCTTAAGGTAGGAAGAGAGAAATAAGAATTGCTGTCATTTATTTTGTGGTTTTGATATAGCAAAAACTGTACTAGACACTTTACCTCCTTTAAT
CCTCAGAAAACTTAGAGATTATATATTTGTATTCACATTCTACAAATGAGAAAGCAAGTAAAAAAGTTAAGTAACTCTCCCAGAGTCCCCCAGA
TGGTCATGGGAGCCCAGATTCAGAGCCAGCTATGTCTTACTCCAAAGCCTGTGCTCTTTATTGAAACATACTCCACTAGTTTGAGATCTTGGAG
GTGTACCCCTGCACTACTATCAGGACTACCCCTGATAAAGTCCTGTGGGGTAGTTGTTCCTATCCATCACCACAGTGAATATCAAAGAAGGGCC
CTCTCATTTGAGGAATAACAGACAGTGAAATTGAGATGGACCAGAAATGCAAATCCTGGATCCCTGAGGGAAACAACAAAATGAAGCATAGAGG

AAATATCTGAGTCTGGTGCCAAGACTCATCAGTACAAGAGAGAATGCCTAATGGGCAATAGCAGTTAGGGTGGGAAAAGAGAAGTACAAGGGGG
TGTCTTGGAATTTGAGGGAAGAACTGCTGCCTTAGTTTTCGAAGGATGATTATTCGAGAGTTGCCCTCCCTTCACTTTCTCACAGCTGGCAGAA
TTCCTACCTCTTAGTGGTTAGATTCCTTTTTACCAGATACTGTAGGGCCAGTGCAGCAACCAGAGCCCCCAGCCAGAAACCCTGCCTCCAATTT
AGACCAGTGTTCTGCTCTGGTGTGTAATAATCATATTCTAATTTAAATAGCCTATTGAGATGCTACATTGATATCTAGCCTTTTTTTTTTTTTT
TTTTACTTTTAAGTTTTATGTGCAGGATGTGCAGGTTTGTTACATAGGTAGACGTGTCATGGGGGTTTGTTGTACTGATTATTTCATCACTCAG
GTATTAAGCCTAATATCTGTTAGTTCTTTTTCCTGGTCCTGTCTGTCCTCCCACCCTCCACCCTTTGATAGGCCCCAGTGTGTGTTGTTTCCCT
CTATGTGGCAATGTGTTCTCATCATTTAGCTCCCACTTATAAGTGAGAATATGCAGTATCTGTAATAATGGGTTTTCTGTTCTCGTGTTAGTTT
GCTAAGGATAATGACCTCCAGCTCCATCCATGTCCCTGCAAAGGACATGATCTTGTTCTTTTTCATTTCTGCATAGTATTCAATTGGCCATTTT
TTAAAAGACAAAATAACAAAAAAAAGAGTACAGTTATCTCCACTCCTCACCCACTACCTGCCACCTAACCCAACCCTTTATATTTTAGTAATTG
CCTTCCATAAATAACATTTTATCCTGTCTTAATTATGCATTCATTAGTGTATTAATTATTGAATCCCACAATATGACAAGCATTATTTCAAGC
ACTGAGGATACAGCAGAGAATAAATCAATATCCTCACTGTTTTTATTCCATTTTTTTAAGAGACAGGGTCTCACCCTGTTGCCCAGGCTGGAGT
GCAGTGGTGCGATCATAGCCCAATGCCACCTTGAACTTCTGGGCTCAAAGGACACTCCTACCTCAGTCTCCCAAGTAGCCGGAACTACAGGTGC
ACACTACCACACCCAGCTTCCCCACTCTGAGCCTCCATCCTAATGGAGAAGAGAGGCAGTAATCAAAATACATGAAATGTGTAGTTATTAGATG
GTTATTAATGTATAGAGAAAAATTAAGCAGAGAAAGGAGCAAGGGATTAGGGGGTCAAAGTTTTGGTAGGGGTAGAGTGGTCAGTGAAGGCCAC
CTTGAGAGATGGCAATTATGTAAAGCCTGAAAGCAGGTAAGAAATATACAGGTATACAGATGTCCCTGGAAAGAGTGTTCTAGGCAGAAGAAAT
AGAAAGTGCAAAAGCTAAGATTGCTCACCTGGCAAGTTCAAGAACAGTGAGAAACTGATGTGGCTGCATAGGAGTAAGAAGAAAAAGGACGGAG
AGGACATGAGATGGTCAGATAGCCTAGGGCCTTGTAAGCCATTATAACGATTTTGTCTTTTAATATAGAGAAATATTAAAGGTTTTTGTTTTAA
CTTTTTAACATAGAAAAATGTAATCATATACAAACACAGAATAGTATAATGAGCCCCCTTGCACTAATCACTCAGCTTTAACAGCTTTCACTTT
GGGAGGATTTTGAGTGAAGGAGTGATAAGACATGGCATGGCATGACATGGCTTGAACAGGATCACTCAGGAAAATAAGCCATGGGGAGACAGGA
CAAGCAGAGGAAACACAGGAGCAAAAGCTTAGGAGACAGATGATGGTGGCTGGAAACCAAGGGAGTAGCAGTGAAGGTGGTGAGAAGTGATCAG
ATAGAGGATATTTTTTTGAAGATTTGAATTAATATTATATATTATACTTTAAAGAAGAATTTGAAAATGCATGTAGTGTAGTAAAGATGGTA
AGAAATACAGAAAAGAGGCCAGGCACAGTGGCTCATGCCAGTAATCCTAGCACTTTAGGAGGCTTAGGTGGGAAGCTCCCTTGAGGCCATGAGT
TCAAGGCCAGCCCGGGCAACATAGTGAGACTCTGTCTATATGGAAAAAAAAATTAACCAGGTGTGGTGGCATGCACCTGTAGTCCTAGCTACCT
AGGAGGCTGAGGCAGGAAGATTGCCTGAGCCAGGAGGTTGAGTCTTCAGTGAGCCATGATCATACCACTGTACTCCAGCCTGAATGGCAGAGCA
AGACCCTGTCCCTTTAAAAAAAAAAAAAAAGAAAGAAAGAAAAAGAAATATAAGAAATGGCACTAGAATATCAGTATTATATACATTATTTTCT
GTTTAAAAATCCACACAACTGGCAAAAAAAAGTGACATACATGAACATTTATAAGACAGTGCATTTATAAATTACAAACTCTCTGCTCCTCCCA
TATTATTTTGCAGTGATGAATGATTAGGCCATCCAAACGTAAAGATTTATTTGTAATTTGCTAATGATGGAATGACACCTTTTGAGGTACAAGT
TCCCAGCAATTCTTGGAATTAGCAATAGTGTGTTACTTCTTTCTCGAAAGAAGCATGATTTGTAAGCAGCTATATCTGATGTAGTAAAACTGAA
AGTTAAAATAAAAAAGGAAACCGTGGGTCAAAGTATGAGGGAAAAGATAAAACTTTCAGAGCAAAGTTATACATAGAGATTTTATTCATCGTCT
CTGTGTAACTCACGAGAACTTCTTAGCTTATTTATTATGTCAAATGGCAGTTTGCTCTTCTAATCCCAGCCTGATATCATGAGCCATATATGCT
GTTGGTCATTCAAAAAGGGCACTAAACAAGGTGAAAGAATGTCAGTGAATCAATGCAACTCCATGATGGAATGACACCTTTTGAGGTACAAGT
ACATGCCATTAATAGTGGGTCAAAGAGGATTTTTTTCATGCCATCCCCTACCTTACTGAGAATACCACATTTATATTCAGAAGACTCATAATGA
ATTCCAGAGTCCTCTGTGTCTTGGCTGTATGACTTTGGGTTATGTCACTTTGTTAATCTGTTTGAACTTCTGTTTTCTTATCTACAAAATAGGG
GTAATAGAGTCAACTCTGCCTCCCTCACAGGGACTTTCGGAGGCCCAAGGGTCTTTACAAATAATAGAGAAGGAAAGAAACTGGCACTTTAATA
GTACCTACCATGTACCAGGGACTGCGTAGTCCCCACGGCAGCCCTCTGAAGTCATGTGATTGGCCCATTGTGTAGATGTAGAGCTTAAGACTCA
GAGAGGTTATTTAATCTGTGTAAGGCCACAGAGCTAGGAGGGGGAAAAGCTGGGATTGGATCACTGACTAGATCAACTTGAAATCTCCTGCCTG
ACAGAGAAAGAAGAGACTAACTTTACTAAGCATCTTTTTATGCCAGAAACTGTGTTGGACATAATTCTGTACTATCTTATTTGGTAAAGGTCAT
TCTGTCCTTCCTGGTTGCCCTGGTTGCTCAACAAGTAATAAACAATAAAGCCTGACTGTTTTTCATCCCTGAGAGAAGAAATATTATTAAAATA
GCGTTATTCTCTTTCTTTCTTTCCTTTTTTTTTTTTTGTGTGTGTGTGTGTGCGCCTGATAATCTGACTTGCAACCTCACAGAAAAGAATG
AATGCATGGTTTCATGTCTGTGGCATGACTCTGTGAAGGAGCCTTGCAAGGGGACAGATACACCTCTACCACTTCTTATAGCCATTCCTGAGAC
CTCTCTTCTCACAACACATACCAGCAAAGCCAAACAAACAAGGTGTTTAGGAATAACTGTCATCTATCAACACTCTCTAGGCAAAGTAGAACTA
TGAAACACTGAGGAGACTGCACACACACAGAAGAAAAAATGATCATGTCACATGGTAGCACAGAGCAATGGGAAATGTGAATAGTTTGTTGAGG
TGGACAGACCCAAGCTCAAGGATTGCCTGATCGCTCCATTTATAGGAACCATGGCAACCTACCTTATCTTACTGAGCCTCAGTTCCTCCAGCTG
TGAAATGGGGTACAACCTCTGACCCCACAGGGCTGTTGTGGGGATTATCTGAGTTAGCATGTTCCATAAAACACAGTAAGTTAGAAAGTATAGC
TGTATAGGCTCTGGGAGTTTAACAAGCAAGAGAAATTTGACAGTAATCATTTAGTTACTGAACCCTGTCTTCATATTGCGCTAGGTTGCATATG
GTTTTCCTGCCTGTCCCTTCCAATCACATTTCAGAAAAAAGGAGGCAGTAGTGGAGCCTTGTGGGCTAAAGTGGTGAGGAGGGTGTCATGGAAG
ATTCAGGTTCAGGTCTTCCTCTTGAAGAATGGGTGCTTCTCAATAGGGAAGTGGAGGAACAACCTGGGAGTTGTCAGCTTGAAGAAAATCCTGA
GACGTGATAATGGGTAGGTCCAAGGAGGTCCTGAGTAGGACTCTGAGCACAGAGCCTTTCTTTGCATGTGCTGTTTTTCCTGCCAGCAAGACCC
TCTAAACCCTTTGGCCTCACCCACCCCCTTGCCTGGTTATACTCCTAGCCTTCTTTCAGATCTCCACCCTCAGTACTCCCTCAGGAAGCTTTCC
CTGACCTCCTGACCCAGTCAAGTGCTTCTTATATATCTCCTTTGTAAGCTCTTCTCAGTTACACTTTTACATTTATTTGTGAGATTATTTGATT
AGTGTCAGTCCCACTCTTTAATTCTCCACAAGAACAGAGATTGTGTCTGTTCTGCATTCACCATGCATCGCTTCATCCCCTAGTTTACTGCAGT
GTGTGGAACATAGGACGGGCTTTAAATACTCGCTGAATAAATAGAGAAATGTTGGTTATTAGTGAGGTATTACCTAGGTGGGAGAGAGGATTTA
TATTTGGGATTGCTAATCCCATTAAGTGCCAAGCACTGCATTAACTCATTTAATCCTAAAAAAAAGTCCTATGAAATCAAGTGTATTATTCCTT
TTAACTTTAAAGACAGAGAAACTGAAATCCAGAGATGTTAACCATCTTTCCCCGTTGACACAGCTAAGTGGTAACAGTCGGTCTTGAGCCGGGC
AGCCTGGCTTCAGACTTCCTAGACTTTACCACATTGTTCTGCTGCTTAGTGCAGTAGAGGACAAAGTGAGGTGCACACGTGAAGTCAGGACAGA
TTTCCGTTTGAAAATTGTGTATTTTCCCCTCCTCTTCTTCATTACCATTGTCATCATCATCATCATCAATCACTTCACAAGCAAAGCTAAGCAG
AAAAGAACTACTTCATGTATCACCTCTTACATTCATGTTAACTCTACATTCTGCCAAAGTGATTTGGCTGAATTTACCCAAAGAGCAAAGTGGA
CATTTCAAATCCTGATTCCTAGAAAATTATAGACTACATCCTGTAACCACCTTTGAAGAACCAGCATGTACTTTACCCCAACGTGACAAAATTG
TTTTAAATAAAAAGAGGTAATTTGACTAAGATTGGTATGATCTGAGACCCATGGTTTCTACATCTTATTCAAAAAGCAGATCCAGCATGTGGTC
ATCAGTAGGTATTGAGTCATAAAGCTCCTGGAAGAAAATCTTAAGTTTCATCAAGAATGCCAAGAAGTCCTGGGTGTCTCCAAGAATGATAGCT
GTTACTATAATAACATAATTACTACTGGAAAATTAGCAAAGCCCAATAAAATATGGCATGCAAAAAAATATTTACCCTGGAAATAGAAGTGACC
TAAATCAGTCGTTTATTCCAGCCACCTGCTTTTAGATAGTACTTAAAAAAAAAACTTTCAGGATGGTCATATTGTTTAAAGTTCTCTAGGTGGA
AGAGTACTTTACAGTAATAAATTAATAAATAAGACAAGTTAATGCTTTAAACTACTATTATTTGTTGAGCATTGTTGTAAAGGCTTTACATGC
ATTAATGTATTTAGTCCTCACAACAACCCTTTGAGATACTATTATCATCATCTCCCTTTTACAGATGGGGAAACTGAGCAGTGCCCAAAGTCAC
ACAACCAGGAAATGGGGAACTATCTTCAAGCCCAGCTGGTTTGCGCCTAAAGTCCATGCTCTTACAGTGTCCCTGGGTAGCTGAGTACTCAGTT
TTGTCACCTTTGTCTCCTTGACTTTAACTGAAAGCTTAACTCTTTTTTTTTTTTTTTTTTTTTAAACGGAGTCTTGCTCTGTCACCCAGGCTGG
AGGGGCAGTGTCTTGATCTTGGCTCACTGCAACCTCCACCTCCTGGGTTCAAGTGATTCTCCTGCCGCCTGCCGAATAGCTGGGATTACAGGTG
CACACCACCATGCCCGGCTAATATTTTGTATTTTTAGTAAAGACAGGGCTTCACCATGTTGGCCAGGCTGGTCTCAAACTCCTGACCTCAGGTG
ATCTACCCGTCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGCCCGGCCCGAAAGCTTAACTCTTAATAAGAGCCTGCAATG
TTCAGACGCTTTGAAAAAAACCTAACAGACACAGTTGCTCTCTATAAACTTAATTTTCAAAGGAACCACTATTCAAAGAAGTAAAAGGGAGACT
GAATAAAAAGAACTAAGTTCTCCGTAGAGCAAATGAATTTCTGAATCGATTGCAAACAGTTCTCCGTCATCATGACATCCTATGAAGTATGGTC
TCCCCCATGTTAGAGTGCCAGTGTCTTCATGTACCATATAACTTGCAAATAGTATCACTGTCTTCTCACACTTCAGCTTTCTTCTTTCATCAGT
ATTTTGGAAAGTCCACAAAACCCAGGGGGCTCCCTGTCTGTTGCCCTGTGGTCTCTGTGAAAACCAGATGATGCGATGCTGACTTGGACTCTTT

CAAATGGATCCAACAGCACATGAGTCACTGGCAGCATGTTCAGCTCCTTTACCTCAGGAATTACCCAGTTCCTCATTCTTGCCACCCTTCAGCC
GTGAAGTAGTAATATGAAAAATACATGAGTACTTTTTGAGGATACCTCGGACCTCTTTCCTTCAGTACCAGAGACTAATTGCCTCATAATGGTA
ACATTGAAGAGCCCAGTTATCTGACGTGATTGGGCTTTAATTATGGATTCCTTCTGGTGTCCTATTAAATTGGAAAGCCTAGCTGATTTCACCC
AAATGAAGCATTACCTCATGCCTTGCTCTCTTGCATTCCTGTGCTGGTGTCACTTAAAAGTGTAATTACATGGTTTATTTCGTGTTCTTTCACT
CTTGATTTATTGCTGAAGAAGCCCCTGTGGGATATATCATCATAACAAAGACTGATTTCAGATGTCAACACCAAGAAACACAACTGGCATCAGC
AATCTATAGAGAGTATCTAGGGACAGCAGTCAGCTTTGGAGAAAACCCAGAACTTCTCATTCCCCATCCCACATTTAAGGGCAAAGACTTTCTC
CTTGTTAAAGGGAAAGCACTGAGTTCATAATTAGCTTTATACCCAGAGTTTTTTTTTTTTAAATGTTATACCTGTTTAAGAAATTTTTTGTGCT
TTGAGGTGGTCAAGATCAAATTTAATTAGCAACCCTCTTCGTGATTGGCTTGCTCTGGGGACCCTGCTCTTTGAGAAGGAGGTTAGAAGGTTTA
GAAGCAAACCTTTGCAGCAGTTCTAGCCAAGTGCATGCATACAGGCCTTGAGGTGGAGCTGCACAGTTGACTGTAGGGGAGTCTGTCCTTTGTT
GACGAGTGAAACTTCTCTCCCTGCAAACCCTCTGGGGAATAATGCCAACTCTGATCAGCTTTTCGACTCTTGGATGAAATATTGGGTTGGGAAA
AAGTCCCTACTAAGAAAATTGTACCAAAACCCTGCTTCAATAAAATATGAATCCATTTAATGAAGTTTATAGTAGAAGTAGGCTAGTCGAAAAG
GATTCTGTCTCTTTCCAAGTATTATTGGCAGGTTTAGGGTCTTCCTCAAGTTTATATCATTAGGACTTCCATCAAAGAGTTATCTTTAGGTGTG
ATTCCCATCCTCCCTCCCTCTCTCCCTCCCTCCCTCCGTCCCATCGTTCCTTCCTCCCCTTTCCTCCTTCCTTTTCTACCTTTCTTTTTCTCTCT
GTCTCTCTTTCTTTCAAGCTGTGGGCTGCTTGTACAGATTTATGCATTTTGAATTACTGCATAGTTGAGAGATTTGGGGCTTAGGTTATTCAGT
TCTTCAAAAAGTACAGTATGAGCTAAGGAGATAGGGTGACCAACTAATCTAGGTTTTGGCTCCAAAAACCCTGTGTCCCAGAAAACCCCTCAGT
CCTAGGCAAACCAGGATAGTAGTTCATCTTGTGAGGAGATTATAGTGCATTTCCAAGTATTTAGCTGAATTTATCACAGGGCTCTGACTTGATA
GGATTTAAGAGGGTTAAAATAAGGTCTTTTCTGTTATGTTAGTGTGACTTTAGTCTTGGCACTTTCTCAAGGAAGGAATCCAGTCTACTACAGG
GGCTAGGTGACTAAGGAGAAGAAAGAGGATATCTAAGTGTTTTTTGCTAAAAATGTCATTATCTCCATGCTATTTCCTTTTTATTGCTATTGTC
ATCATTTTAAAGACATACCAATAAGAAATAAATTACTTTAAATAGAAAACTCTAATTTTATCAAGCAACAGCAAACAGGGGTGAAATCTAAGGA
TTTGTACTTAAGGAGTACACTTTTTTGAATTGAAGAAACTTACTATGACCTGAGCATATGTAACTCAAATGAAAAAATATCCACCTGCATGCCCACAGC
AAGGCTCAGGTTTTCTAAGAGATGACTGGAGGCCAAGTCCTCAGGCTTGAGTGTTTATAGCCAAACTTCAGAACCAGGTCCCTGGCAAGATTCT
CCTGTCTAATCACATGGCACAGAGTTAGGATGGACTGTTTCTGCTTACCTGCCTTCTTCCTTTGATTTCCATCAACCACCAGTTTCTTTCTCAT
CAATCATTTACCCAGCTTTTGTGACCAAGAATTTTGATGAGGATGCAGAGGAAGGCATGTTCTTGGTTAATAGGAAAGGAGGCTTCATGACAAC
ACAGCATCCTCTAAGATGTGTTGCTCCAACTTTCACAATACATATTGTGTTTTAAGTGGCCTGCTTCTTGGAGTGTATCTTCCCACTACACAAA
ACAACCACCATTAACATTTTCATTTACTTCCACCCTGTCATTTGTTCATCACATACTTTTAAAAACAGGGCTGTAATCATGTATATACATATAT
GAATAACTTTATATTGTACTTTTTATACTTACTGGCTTATCATAAACATGTTTCCATGTTGCTGGAGAGTCAGATATGCTAACTTTTGGAATGT
GCTTCTTATATAGATCTGCAACTATGTGGGACCAGCAAAGGTTATTGTTCAGTTGGTCACAAATGGAAAAAATATCCACCTGCATGCCCACAGC
CTGGTGGGAAAACACTGTGAGGATGGGATCTGCACTGTAACTGCTGGACCCAAGGACATGGTGGTCGGGTAAGTAGGGGTATATGATGCTGTGG
AAGGTAGGAACAGATAGAATATGGGATGCAGGAACTTAGAATGAACAGGCCCCTTTCATTAGGGACCTTTCTGAGACCCTCAGATGACCTCAAA
AAACTGTGTAAACTTGTGCTTTCATTTGGACTCCAGGAAGTAAGGTGACCACATGTCTGGATTTGCTTGAGACAGCCCAGTTTGCCCCTGACCT
AATTGTTTATAGCACCCTCTTCTACTCTTAAAGGTGGCCCAATTTGGATGATCACTTATATGTGGTCACCTACAAGGTATTTGTGCCAC
TATTAATTTTTTTTCTCCTAGAAATAAAAATAAGGACAAATTTAAAGAAACATAACTATAGCAGAAATCATCACTTTATGTATATTTTTACATT
CTTGATGATTTCTTCAGTGGATTTATGGTGTGAATATGTAGGGCTTTAAGTGAATGCATAAATATCATTTCAGCTCTCTGCTGCTTAGAAAGTA
ATGCACAGATAAGAAGCCAAGGAATGCAAATTTATTTTGGCATTCATTAGGCTTGAAATGTAAATAAAAAATGACGTATTCATTTAAGGGTTGA
TCAAATAAAACAAGCAATTTTTAATGAATGAAGTTTTATAGAAGTAATTTCAATCCAAAAGAATTAAGCTTTTAAATAAGACATATTTATTGTG
CTAAAAAACTTGTATTTTCATCTTCCTAATACACTAAAATGGCACACAGAATAATAGTGTAGCACACAATACAAACTGATATGTGCAATCAATA
ATTCTAAAAATTGTTGTTTTAAGTCTTTCTTTGGAAGTCCTTAAATGCAAAAGAAGAAATTTTTAATTTTGTTTAATTTTTAAAAACATTTTTC
AGGGTTTTCTAATCCTGGTTTAAATAGTTTATGCTGAAATCCCAGTTAATCTGGCTTATTCACTCAAAAGAAAGGAATTGTTTAAATCAACTAT
AATTAAGCTGATGGTTGCATTTCAGGCTTTGAATTCCGATCAAGTTTCAAATTGGTTATTATTTTGGAGGTTGTGCTTTCATGTTCCTAGGTAT
TTCTTTGTTTGACTGTGAAAATATTTAAGTGTGAAAAACCTAGAGAGAGAGCTTTCTTTTAAGTCACTAAAATCGGATTCTTTTGATGTTAGAA
AAAAAAAAGACTCTAGATTGAAGGAAGAAGCTTAAATTGATTTGAAAAATTAAAGTGTGCTTTATATGAACTTGTTTCAACATCCTCTTGAAAG
ACTGGCGTGTCTCCTGTTGTATGTCACAGTTTGTTCATCATGTGTTGTGGAATACCCTTCCAGTTCCTGATTGACCTAGGAGAGCTTTGAAATG
CAGGCTAATTATCACAGTTTTAGACTGATTGATCACTTAGTGTTTCTGCAGATTTATTCCAGTAGGGTTCTGTCAGTTTGAAGTGTTTATTTTC
TTTGGTCTTGTTTAATCCCTATTATAATCATATCCTTTAGAGGAAATTTTAGATGAAGTTTTCTACTAGTATTTATTATTATAAAACCTCCAGT
ATGGTGTCTATAATTTGGTGTTTCTGTGGTTTGCTTTAGTAATCTTTCAGGATTTTAGAAAGAACTAATGGTTATTTAAATTTGAGACCTTAAA
GCGGGAATAGAAGTAAATTGTTTCTAAGGAAAGTGAGGGATTCTTTCACTCTTGTAGTGCAGTGGGGTGTGGGCTCAGTAGTTGGGAGAACTCA
TCAGTCATTCACTCATTCAACAAACATTTTGAGCATCTCAGCTCCTGAATTTGATCATTATGATGTCTGGTTGTAGAGCAGTGAGATTTTCTAA
CCCTATATAATTTCAGTGAGAAATTTAATCAAGATGCCACTTGAGAGTTACAATAGACTCAGTAGTCTTAACGTTTTTAGTGTTTCCTATGAAA
AGTCAGTACTCACTTTCTAATTTGATTTTTAGCTGAGAAATTTTTGCTTACAATGTTTCCCAAAATACACTATTTCTTTCATAATTCATTTGTT
TCTATCTCTCTCTATATATACATTTTTAAGATTTTCAATGTCAAAACTTATTGCATTTATGTAGAAAGAACATCGTGCTAGCATTCTGGAAACC
AGTATTTTATTCCCAGTACTGTTGCTCTCAACAGAGGACTGGGGGCAAGTTACATGACTTCTTGGGGACCTTAATGTCTTCCCTCATAAAATGA
GAGAGTTTCACTACAGAATCTTATCTTCAGGCTGTTTACATCTCCAGAATTCTGGACTGAACTAACATTACGTAATATTATGAAATAACATGAG
CAAACTTGCCACACACATATTTATGGTATGACATTGATTATTAGTATTTAGTTCTGACTTGTAGATAAGAGTATCACATAGAGAAACTTAGGAA
GATAGCCAAAATTATGTCTTAGACTTGTCAATACTAGAAATGAAGCTAAGATAACTTGTTTTCAATAATACAGATTAGGCAAAGAGTATAGATT
CACAAGCAAGACACTAATCCAACATACCAAAAAAGATATCCAAAAAATGGCAATGAGAAGACAAATAACTTTTAAATTGTCAAAACCAAAAGAA
TTACTTTCTTTGGAGTGTTTATCTTCATCTTTCCCTCAGTATGAATTCTTAATAAACTTAGTTTCTACTTTCAAAAGGATTTTATCTATGTTAT
AAATATTCATGTTTTAAATAGCCAAGTCTTGATTCTGGTTTGATTGCTGTAATGTAGGGGATTTGTCATTTTAATATTTTTTAAGTTAGCTTTA
ATTTTGTCTTTTTTAAAATTCATTTATATAATTAGCCTTTACTGCCTTTCTTGGTAAAAAATAATAATAATAATCTTAGTTTGGTGTTTTATTT
TAAACCCTGAATATCAACAATTTGTTTCAACATATTTTAGTTCGTTGACATTTTTATTCCATGGAAAATATCTGTGTTCCTTGACTTTGCTTTA
GGCCAGTTCACTTACCAGTAATCACCACACTCTCTCTGCTTTCTGGCAGTTTAGAGACATGGAATTTTTTTCCAATTAATACATATAGCATATA
CCAACTGGTAAGCACTAGGAGTAGATATATAAATATCAAAATACAGAGGAGAAACAAGGCCTTCTTCAGTGTCTGTTGTTCCCCTTTTTGTCCA
TGAGTTCTCATCATTTAGCTCCCACTTACAAGTGAGAACATGCAGTATTTGTTTTTCTGTTCCTGCATTAGTTTGCTAAGGACAGTGGCCTCTA
GCTCCATCCATGTTCCTGCAAAACATATGATCTTATTCTTTTTTATGGCTGCATAGTATTCCATGGTATATATGTACCACATTTTCTTTATTTA
TTTATGTTATTGATAGGGAATTTAGGTTGATTCCATGTCTTTGCTATTGTGGATACTGCCGCAGTGAACATTAACATGCATGTGTCTTTATGGT
AGAATGATTTATATTCCTTTGGTTGTGTACCCAACAGTGGGATTGCTGGGTCAAATGGTAGTTCTATTTTTAGCTCTTTGAAAAATCACCACAC
TGCTACAAAATCAATGTGCAAAAATCACAAGCATTCCTATACACCAATAACAGACAAACAGAGAGCCAAATCATGAGTGAACTCCCATTCACAA
TTGCTTCAAAGAGAATAAAATACCTAGGAATCCAACTTACAGGGGATGTGAAGGACCTCTTCAAGGAGAACTACAAACCCCTGCTTAATGAAAT
AAAAGAGGACACAAACTAATGGAAGAACATTCCATGCTCATGGATAGGAAGAATCAATATCGTGAAAATGGCCATACTGCCCAAGGTAATTTAT
AGATTCAATGCCATCCCCATCAAGCTACCAATGACTTTCTTCACAGAATTGGAAAAAACTACTTTCAAGTTCATATGGAACCAAAAAGAGCCT
GCATTGCCAAGACAATCCTAAGCCAAAAGAACAAAGCTGGAGGCGTCACACTACCTGACTTCAAACTATACTACAAGGCTACAGTAACCAAAAC
AGCATGGTACTGGTACCAAAACAGAGATATAGACCAATGGAACAGAACAGAGCCCTCAGAAATAATACCGTACATCTACAACTATCTGATCTTT
GACAAACCTGACAAAAACAAGAAATGGGGAAAGGATTCCTATTTAATAAATGGTGCTGGGAAAACTGGCTAGCCATATGTAGAAAGCTGAAACT
GGATCCCTTCCTTACACCTTATACAAAAATTAATTCAAGATGGATTAAAGACTTAAATGTTATATCTAAAACCATAAAAACCCTAGAAGAAGAC

CTAGGCAATACCATTCAGCACATGGGCATGGGCAAAGACTTCATGACTAAAACACCAAAAGCAATGGCAACCAAAGCCAAAATTGACAAATGGG
ATCTAATTAAACTAAAGAGCTTCTCCGCAGCAAAAGAAACTACCATCAGAGTGAACAGGCAACCTACAGAATGGGAGAAAATTTTTACAATGTA
TCCATCTGACAAAGGGCTAATATCCAGAATCTATAAAGAACTTAAATAAATTTACAAGAAAAAATCAAACAACCCCATCAAAAAGTGGGCAAAG
GATATGAACAGACACTTCTCAAAAGAAGACATTTATGCAGCCAAAAGACACATGAAAAAATGCTCTCATTATCACTGGCCATCAGAGAAATGCC
AATCAAAACCACAATGAGATACCATCTCACACCAGTTAGAATGGCAATCATTAAAAAGTCGAAACAACAGGTGCTGGAGAGGTTGTGGAGAAAT
AGGAACACTTTTACACTGTTGGTGGGACTGTAAACTAGTTCAGCCATTGTGGAAGACAGTGTGGCGATTCCTCAAGGATCTAGAACTAGAAATG
CCATTTGACCCAGCCATCCCATTACTGGGTATATACCCAAAGGTTTATAAATCATGCTGCTATAAAGACACATGCACACTTATGTTTATTGCAG
CATTATTCACAATAGCAAAGACTTGGAACCAACCCAAATGTCCATCAGTGATAAACTGGATTAAGAAAATGTGGCATATATACATCATGGAATA
CTATGCAGCCATAAGAAAGGATGAGCTCATGTCCTTTGTAGGGACGTGGGTGAAGCTGGAAACCATCATTCTGAGCAAACTATCGCAAGGACAG
AAAACCAAACACTGCATGTTCTCACTCATAGGTGGAAATTGAACAATGAGAACACTTGGACACAGGGTGGGGAATATCACACCCCTGGGCCTGT
GGTGGGGTGGGGGGAGGGATAGCATTAGGAGATATACCTAATGTAAATGCTGAGTTACTGGGTGCAGCACACCAACATGGCACGTGTATACATA
TGTAACAAACCTGCACATTGTGCACATGTACCCTAGAACTTAAAGTATAATAAAAAATAAGCAAGTTTACAAGGGCAAAAATAAAACAAAAAAG
AAAAAGCACCACACTGCTTCCACAGTGGCTGAACTAATTTGCACTCCCACCAGCAGTATATAAGTGTACCCTCTTCTCCACAGCCGTGCCAGCA
TCTGTTATCTTTTGACTTTTTAATAAAAGCCATTCTGACAGGTGTGAGATCATATCTCATTGTGTTTTAATTTGCGTTTCTCTAGTGAGCTTTT
TCCATATGTTTGTTGGTGGCATGTGTGTCTTCTCTTGAAAAGTATCTAAAACAGTCACTTATCTTTTAAAGAAACTTTTTAAATCAGAAAAAG
GTGTTTATATTTAACCACGTATTTATCATTTGCAGTGCTGTTCATTCTGTTTCTTAGGTCAAAATTTCTATCTGGTATCATTTTCTTCTGCCTC
AGGCACTTCCTTTTATTATACTGCTGATCTGATGCTGATTAATTCTTTCAGTAGGTGTATGTTTTCATAGCTTTTTATTTTATCTTTGTTTTTC
AAAGATATTTTGAAGAGTATAGAATTTTAGGTAGACAGGCCGGGCGCAGTGGCTCACGCCTGAAATCCCAGCACTTTGGAAGGTCGAGGCGGGC
AGGTCACCTGAGGTCAGGAGTTCAAGACCAACCTGACCAACATGGAGAAACCCCGTCTCTACTAAAAATACAAAATTAGCCAGGCATGGTGGTG
CATGCCTGTAATCCCAGCTACTCGAGAGGCCGAGGCAGGAGAATCACTTGAACCTGGGAGGCAGAGGTTGCGGTGAGCCGAGATCGCACAATTG
CACTCCGGCCTGCGCAACAAGAAAGAAACTCCGTCTCAAAAAAAAAGAATTATAGGTTGACAGTATTATTCTTTCACATCCTTAAACTATGTTG
TTCCACTGTCTTCTGATTTGCCTTGTTTCCAAGAAGTCACCTGTCAATCTAATCTTTGTTCCTCTGTATATAATTTTTTTTTCTCTCTAGCAGC
TTTTCAGATTTTCTCTTCCTCACTCGTTTTAAGCAATTTGATTATATGGATATTAGCATAGTTTCCTTCATGTTGCTTGTGCTTGGGGTTCATC
GAGATCCTTAGATCTCTGGGTTTATATATTTAGTACGTTTTAAAACTTTTTGGCCATTATTTTTTCAAATATATTTTCTGTCCACTCCTCTTCA
TCTTCTTCTGGAACCCCAGTTGCACATATATTTGGCTATGTGAAATTTCCTACAGCTCACTGATGACCTGTTTTTTAAAAAATCTTTTTTTTCT
CTTTCATTTTGGAAAGTTTTATTACTGTGTCTGCACGTTCACCAATATTTTTGTCTGTAGTGTCTAATATGTTCTTAATTCCATCTAGTGTATT
TTTTCCTCTTAGACATTGTAATTTGCAATTTCTATAGATTTGTTTGGGGTCTTTTTTTTTTCATATCTGCCATGTTACTCCTTAACATACCAATG
CTTTCTTCTTTTTTCTGATCATATGGAATATATAATAGCTATTCAATGTACTTGTGTACAAATTCTGTCTTCTGGATCTATTTTTGTTTAGTTTT
TGTCCTAATTATGAATTATATTTTTCTATTTCTTTCCATGCCTGTTAGTTTTTTATTGGATGACAGGTATTTTGAATTTTGTATCGTTAAGTCT
TGGATTCCTTTTTTTTTTTTTTTTTTTTTGATGTGCTTTTAAATACGTTTGAGGATTGGGATGAAGTTAAATTTGGGAACAGTTTGATTTTTTTG
ATTCTTTCTAAACTTACTTTTAAGCTTTATCAGAGAGACCAGAGAAACCTTTACTCTAGGGTTAATTTGACATCATTGCTAAGGCAGTACCTTT
CTGAATTTTCAACCTGATGCTCCATGTATTACAAGATTTCTTGAACTATTCCAGCCCCATATGTGTTACAATAATTTTTCTGCCTCCACCTCTG
TGGTGGTTCTTTTCCCAGCTTTGACATATTTCCTCACACACAGCACTCAGCTGAAGACTCCAGTGATCTCTGAGTGTATCTCTGTTTGCGGTTT
CTTCCTTTCCGGTACTCTGCTTGTGAGTTTTAGCCTCCTTGGCTTCCTCCAATATTTAACTGTGTCTCCTCAACCTCAGAGATTGCCAGGCTCT
GTTGGGGTTCCTCCTTCCTGTGCTGCAGCCTGGGACTCTTTAGGCATTAAGCCAGAGTAATTACAGGGTTCACCTTATTTATTTCCCTTTTCTT
AAAGATTACTGTTCTGTGCTGCCTGTTTTCTAGTGTCTAAAAACCATTTCTTCATGTATTTTAGATATTTAAGGTTCAAACCAGTCTGTTTTAC
TCTATCGTTACCTGAAGCAGAAGACTGACTTCTGTACTGTTTCATTTGTTAACCAGAGTAAATCCTTCATTATTCACATAATAAATTAATAAGG
ATGATGTTTTTCTCACAGGGACTAGATTAGGCAATATACATGAAAAGCATATTATTGACAGTAAAGTGTAAGATGCTACACAGATGTTTATCAT
TGCTATTACAAAGGAGATAACCCCGTTTTCCTGCAGTTAGGGAAGTTCTATATGGGAGTAAGGCTGAAAGGGCCAAAAGATATAGGTATTGTTT
CTGAAAAACTGCCTATGCTTCTATGCATATAAGTATGTCATGTTGCATATTTTTCTGTGCTGTATTAATTCATGCATTCCTTTATCAACAGATA
CTTATTAAACACTCATATGTCAGGCATTGTTCTAGGGACTAGAGATCTCTGCCTTCAAGGAGCTTATTTTCTAGTGGTATATTTTCTGTTCTGT
GTCTTAGCTATCCACTTTTTTCATCTGCCTGGACACGTGACTTATTCTGTCTCTGGGCCTCTGGTATGAGTGCTCATTTCATTCTGCCTTATAA
CTCCTATTTTCTTCCCTACTTTATCTGACCTTCCTACCTTAGCTTGTTCATTCTTTCCTTCAATCCAGTTGTCATGAAATCTCTTTCTTTCCTC
TACTAATTTTTTTTTTCTTTCTTTCTTTCTGAGTAAAAGCCAGAGATCTGGCCCCCTGCTTACCTCTCTGAATTCTTTACTTACTTCTGACAAC
TTGCTCATTTCACTCCAGCTACATTGACCTCCTTGCCTTTGTTGTGTTTTGAAAACACCGGCGTGGTCCTACCGCAGGAATTTTGTACTTACTG
TTCCTTTTGCCACATTCATCATTCATATGTTCATGTCTTCCCCATCGCTTCCTTCAAGTTTTTGCTCAGTTGTCATCTTTTTACTGAGTGTCCT
TCCTGACCTCTCCCTACTTTAAAATGTTATGCTTTTTTCTACTACCTCTCCTGTTCCTCATTCCTACCTTATTTTTCTGGATAACACTTATTGC
CTTCTAAATTGTATCGTATAATTTACTTCTTTGTTTCTTCTCCGTTGTCACACTAGCATATAAATTCAGTGAAGGTAGAGATTCTTTTACTGCT
GACAAAAGCATCTAGGACATTTCCTGGCACTGATAAGGATCTGCATAAATATTTGTTGAGTGAATGAATCTCCTTGGTAAAGTCCTTTTTTGTT
TGCCTGTTATATTTATTGAATAGACTTCTTTGTTTCATGTACTTTAATTTCAAAAGTGAATGGCTGGAACATTTTATATATTTTCTTATAAATC
ATTTTCATTGCTTTTTAAGCTTATCACATATTTTGTTTTATAAATATGTAGCCTTCGTGAGATAAAAGATTCTCCATCCCTGTTTACGTGTATA
CTTAGATGACAACTCTAATGGTCATAAATAATTCCAACCTTATAGATAACTCAGGAGAAGATGAGATTATAAGTAGACTTTAAATCCCATTCAG
AAACCCAAGGACAATTCAAAAGGAAAATAATCATTCCAAATATAATATTCTTCTTATTCTTAAGAAGTTGTTAGTATTTTGAATTTTGAATTTT
TAATACAGCTCCCATAGAAAATACTTTAAAATGAACCCGGTAAGACTTCCTCATTAAGACATATAGACACATATGCTCCCACTCCCGTAATCAA
ATTTGGAAGTCAAATAAGCTCTGAAAACCAAAACATTCTTCCAAGTTTATTGCAGACTCATTTGGTAGTAAAAACCAATCTGACCTGATGTGTA
GCTGTTTATAGTCTTTATTTTTCCATTTGGTGAGTCCAATTATATATTTCGCTGAGGAAATACTAACATGTTTGACTACATTGTGTGCCCCAGA
CCTGCTTAGAGTATTATGTAATATGCAGTATAGGCCATATATTGCCTTTTTAACATCAAAAATACCCTAAATTCTGAAATGCATGTAGCCCCAA
GAGATTTGTATAAAGCATTGAGGGCCTGTGTATTTTTTTTTAATTTACAAGTGAAGCCAGATTCCCTAGACATTAAGTGCCTAACTTTTGGTTG
TTGTTGCTGCTGCTGTTACTGTTTTTTCTCCAGCTTCGCAAACCTGGGTATACTTCATGTGACAAAGAAAAAAGTATTTGAAACACTGGAAGCA
CGAATGACAGAGGCGTGTATAAGGGGCTATAATCCTGGACTCTTGGTGCACCCTGACCTTGCCTATTTGCAAGCAGAAGGTGGAGGGGACCGGC
AGCTGGGAGGTAAGCATCATTTTCCTGGCCTTGATCCTCCAAGGGGTCCAGGCTTTGGTTTTCATCTGTATGAATTATATGTTCATCTGCATCC
CTTCCAGTCTCTACCCCACACTGCTGTCACCTTTTCCTTGCTCAGAAACCTTTGATGGCATCCTGCTACTTCTAGGATAAAAACTATAGCTCCA
TAGCCTGTCATACAAAGCCCTGCTTCTCTGGCCCCAGCAACTTTCAGCCTCATCTCCAGCCCACCTTGCATCCTCCTCTCGCCATCTCTGCTCT
CTGAATAACTGAGGCATATTTATACCTTTGTATGTGTCTTCCTTTACCAAAAACACCCCACCGTTTCCATTTCACCCTCTCGAAAACCAATGCA
GAAATCAAGACTTTGTCTAAAGAACACCTCTGTTTTACCTTCCCCAACTCACCTTATTATAAGGCATTTTTCTTTCTTTGGGCTCTGCAGACAC
ATTATAAACTATTATCTTTATCATAAAAATTGTATGATTTTCCATTTTCTTGCCTTTTCTCAAATTTTTTTTTCAACCCCATTCCCTGTCCCAC
CACATGCCCCATTTCTACTTTTGTATTTTGTCCTTTACTCTGGCCGTCCAGTCGTCATCTGATACTCATGTGATTCAAAACCGATTATCAGTTT
TCCACTAAATATACTCCATCTTCTGATACCCAGACTCAAAACCTTCCCATCCTCACTGACTCCCCCTCCTCGCCTGTGCTGCGAGGCTGTGGTC
CAGCCATTCCGTGCTCTCTGGCATTCCACACTACATTCCATTTTCATTGTTCCACTTATAGTAGTCTTCTCCCTGGTCTCTGTCCCTCCCCACT
TCTAATCAAGTTTACATCTTGTAGCCAGATAGATATTACTGAAGTTCTGTATCTTGTTGCTGCTCCGTGTCTCCGTTTTGCCTACAAAATCCAA
ATTCTGTAAGTTGGCTTTTTGGATCTCCCAAGAGCTGGCCTCAGGCTGCATTTCCAATCTATTTCCCGTTTTGCCCCTTCAGGTCAAAGTCTAC
TACTTGGTAGGAGCACCATGATTTCTCACTTTCCTGCCTTGGCACATTCTTTCTATTTTTGCTCTCTCCTCTTCCTGGAATGCCTTTATCCACT
CTCTTATATGAATGTGTTCAAATTCTGCCACCTTTTCAATATTCAGAGCAAATACCTCTTCTGCTCCAAAGCCCTCTGAACTCTCTCCTTCTTT

GAAATCCCACATCACTTCATTTGTAGCTCTCTTGTAGTACTTGTCTCTTGAATCACTACCTTTTATGATATTATAGCTTAATTATGACTATATC
CATCAGCGTGAAAACTCCAGCAGGAGGGAAGGAAACAGATGTCCCTGAGTCATTCAGTTCCTTCAGAAGTTGTTTTTGAGTACCTACTATGTGC
CAGGCTGTCTGCTTGGCACTGTGGAATGAGCTCACTCCCTGTGCCCAAGCAGCTCTTGGAATAATTTGCACACTTCTCAATACAGCTGGTGCCT
AGTAGGGTTATTCAATTCCATTCCATCACATCCTGTGTGCCTTTAACTCTTACTGTAGAGAGGAAAGGGAAAGGTGGGGGAAGGACAGGAGAGG
AGGGAGGCGATCTGATACACGGAAGAGAGTTTTTACTGTAATCCGGAGAAAATGCAGGTCTTCTTTGATGCCTTTCATATTGGATGACATAAAT
GAGACTGTTTTTTAACACTTTATTAGCAATATGAAGAGTTTCAAAAGAGGAAAAATGGGTTTTTATTGTAAGTTTACATTTACTTGGGCTTTATAA
AAGCATGGTCTTTTAAATGTTCACACTTCCCTGGGCATGAATGGACTGTGCTGTATGGCCCTAGATCGGGAAAAAGAGCTAATCCGCCAAGCAG
CTCTGCAGCAGACCAAGGAGATGGACCTCAGCGTGGTGCGGCTCATGTTTACAGCTTTTCTTCCGGATAGCACTGGCAGCTTCACAAGGCGCCT
GGAACCCGTGGTATCAGACGCCATCTATGACAGTAGTGAGTACTTCACTTCCAACAGGGGGCACACCAAGAATAGACTTCCAGCCCTGCCCTGC
CATTTACTTGCTAGCTGAGTCCTGGGGAAGGTAACTTAATCACTTTAAGCCTCAGCTTTATCATCTGTAAAATGTGAATAGGAAAATCTAGCTT
GAAAGGTTGATGTCCAGGTTAAATGAGGTATTTTAAGAGGGGCTCAATACATGTAATTCTTTTTCCTTTGATGTACATTTTTTAGTCTTTTACA
TGAAATGTCACATCTCATCTTATTTATGAATGTCTTGCTATAAAGATATATGGTTGATACTTTTAGAAGGGAGAATAATCCCAATTTTCTTTGG
TGGTGGGGGGACTCTGGAAAGGAGTTTATAAAAGACAACTATTATTCTTACCCATTTTCTTTCCCATATGTTACTAGCTTTATCAAGAGAGAAA
CTTGAAGTTAAATGAATGAGTAGCATAGACAGCATGTGACTTCAAAATCCTATTTCAAGCCGGGTTTGGCGTCATGCCCTGTAGTCTCACCTAC
TTGGGAGGCTGAGGTGGGAGGATATGGAGTTTCAGCCCAGCATGAGCAACATAATGAGACCCTATCTCAAAAAAAAAAAATATATATATATATA
TGTATATATATATTAATTTATAGTTCCTAGGACTTTTTAAGAGTTTTACAGTAACCTTCAGCATTTACCATGCAACTTTCTTGTTTGATTATGC
ATAGGATTGATTAGACAGGTATTTTCAAAAAGCCTGCAAGCATAGTACTCAGACTCATTGAAAGTTTATAGAATTTGGCCTGTGTGGAAAACTC
TGTGCTCCAAGTACAACAACTAACTGAATTCTCTAATTTAAACAAGTTTGAAGGGAAGTGAAAGGTTATAAAATGATACAGACTCATACCGCAG
AATCACCTTAAAATGCAGCTGTTGGAGAAAAAAAAAAAGGAAGCTTTATGCTATTACCACAAGAAAGTTTTGCCTCTTCACCACACAGAATCCT
AATTTAGTTTGGGAAAAAGAAACATAACATCCCCATTTTCCTTACCTGTAAAATAAAAGGTAGTAAGTAGTTTAAGAAAACTGTACTTTTCCTA
AAGTTTTTAGGACTCTTGTAAATAGAATAATAGCAGAATCATGGAAACAAATTTGGAATTGAAGTCTTGACCTCATTGAAAGCCCAGAAATCAA
TTAGCTTGGTACTTCCCAATACATCAGAAAAGCTCTTTCTCTTTTTGTGTCAGTCTCTCTGTGTTAGAGGGAGAAACAAATACCTGTTCCTTTC
TACCTCATTTGTTTTGGTGATCATAAATGACCCATGCCCAAGAAGTGTTCCGAGAATTTCAGAAGCCATTCTTGTTTTATTTACTTTGTTAGTG
AAAGCATGTATTTAAGCTTTGTTTTGGTCATGTGTGCTAAGGGGAGGGTCCTACCTAAAGGACTGGCTTGTTGAGCTGAGGATTAATCATGTTA
TTTGTTGTTTTTTCCCCTGTGAACAGAAGCCCCCAATGCATCCAACTTGAAAATTGTAAGAATGGACAGGACAGCTGGATGTGTGACTGGAGGGG
AGGAAATTTATCTTCTTTGTGACAAAGTTCAGAAAGGTAAATACATTCTGTGATCTCTGATCTCAAGAGGTGTGATCTTGACACACTACAGTTC
TGAGTGTGTCTGTGAGTCACATTTCAGCAGTGGACAAGAAACATCCCTCTGCTGCCACAGAAAGTCTTAAAAAGCATTTACGTTTTACCTCTTC
CAAATGTAAATTGTCTGTGTTATTTTTTCCTAAGTCAACTAAATCACTTTTAGATTTCCCATGGAAGTAAAAAGAAATAAGAAAACCGTGATAA
TTATAATCAGTGACTTTCAGTATCTTTATACATTAAAATTAATATCTGTACTTTGTTAAACAAAAATAAATAATAGCCCATTCTTGACACACAT
ACAAACACACACACAGAATAATGTTTTACATAGTATTAAATTGTTTTTATTTCTTTTGCAATGCTTTGATATAACACTGAGAGAACTTCTCTGA
ACACTTCCACAGATGTGATGTTTAAGAAAAGGAAAGAAACAGGGAATACAGGGAAATTCTCAGAGCACATTTCTCTCACAATTTTCCCTTTGA
GGAAAGGTTCTTGGCGTTTATCTTTCATTAGATATATTACAACATTGATAGATTAGTAAAAGCTGAGGAAAATGTGTTATTTTCTCAAACTGCA
TTCTTTTTTTTAAATAAAATGATAGTTGGAAAGTGTAGTATAATATCTATTTACTACAGGGTGAGCATTTTCAAAGTAAGCAGATACCTAACTGA
AAATATAAATAAGTAAAATAAATCAATAAAAGACATGTGGCTTTTAAAAAAATTATCATATGAGATTAAATTCTCTGAGGTATATAGTCAGAAA
AAAATGGGATCAGATTTTAAAGTAAACACATATATACTTTATCCAAAAAAATTTACAGGCCAGGCATGGTAACTCATGCCTGTAATCCCAGCAC
TTTGGGAGGCTGAGGTGGGAGGATTGCTTGAACCCAGGAGTTTGAGGCTGTAGTGAGCTATTATCATGCTGCTGTACTCCAGCCTAGATGACAG
AGCGAGACCCTGTCTCAAAAAAAAGAAGTTTACACTTTCTCTGCCTACACTAGTGTCAGCCTTCTTCCAATCCACTCTGTCCAAGTAATACTCA
TTTCCAGATTCCTGGGTGTACATACTGTGAGTAAACACAATCTGAGTACCTTTATTTGTAAATGAGATCCTTAGTCATTATCATTACATTGGAA
TGGCTTAGTAAGAAATGTCTTGTACTTGGCTTAAAGAATCTCAATAACTAGGTCCAGTGTAGTCCTACCTGAAGGCAAAGGAGATTGTAAGATG
TTTTATCCATTCCTAGTATTTCTAAAATTCTACTTACATAGAGATAAAAACTTTGAACAAAGTCAATAGTGTGGCCCTTTCTATGAAACGGAAA
GTGAAGCCAGGAAGATGCCAACCTAAGTTACATTGTCACATTTCTGTAGAAGTGAATAGAGTATTTATAAACATGCTGAACATGGAGTATTTAT
AAACACACTCCATGACTAGAGTGTGCAATTTAAGCATTGCATTTTAATTAGAAGGGACCTGATTATTATAGTATTTTGACCAATTACTCAATAT
GAACTAAGAGACTATTATAGTGAGACAGTTTAATAGTGTGTTAAGAGCCTGGACTCTGAAATTATACTGTCTATGTTAAAATCCTGGTTCCTCC
AAGTACTAGCTGTTCAGCCTTGGATAAGTACTTAACCTCTTTGGACCCCAGTTTCTCTTTTGCAAAGTGAGGATAATAATAGTACCCATCTACA
TCACAAGGTTGTGGTGAGGATGAAATCAGTTAATATGTGTATATATGAAGCACTTAGAATAGCATCTGCCATACATTAATAGTAAAACTTATAT
AAGTTAATTATTTTTATGTACATCTATATATTGAATTGCACTGCCTCGTTGGATTCTAATATTCTTCCACCATCGTTCGTGTTTCTCAGGATTG
GCTTAAGGATGGAGAAGCAGTAAGGTCAAAGATTAAAAGAAAATTCAAGTTAACTAGGTAAATCTAGTATTCTGTCATTGTGAATGAAAGTTGG
GGCGCATTACTGTGGTAAATAATGAAAAAAGTCAGTGATTTGTGAAGATTTTAAAAGACTGAACCTTTTGATCTTGTTTTTTAAAAGTGTAAAT
AGATAGTAGGTAGAATATTAAACCAGTTTTATTTTTCAGCATGTTTATAAATACTATTTACACTATGTGAAATTACACACTTCAATGTGATTGT
TTGCAGATGACATCCAGATTCGATTTTATGAAGAGGAAGAAAATGGTGGAGTCTGGGAAGGATTTGGAGATTTTTCCCCCACAGATGTTCATAG
ACAAGTAAGTGATTTATTATTATTATTAATCCTTATTATTTTTAGAGATGGGATCTCACTCTGACACCCAGGCTGCAGTGCAGTGGTACAATCA
CAGCTCACTGTATCCCCCAACTGTTGGGCTTGAGGGATCCTCCTGTCTCAACCTACCAAATATCTGGGACTACAGGCATGCTACCATGCCCAGC
TAGTTTCTTCAGTTTTATTTTTTTTTGTAGAGATGATGTCTTGCCATCTTGCTCAGGCTCGTCTTGAACTCCTGGACTTAAGCGATTATCCCACA
TTGGCCTCCCAAAATGCTGGGATTATAGGCATGATCCATATTACTATCATCATTTTATACTTTCTGCCTTATTGAAATTTAGTACTTAGCTTCC
ATCTATAAAAAAGAAAAATCATAAATATTTAACTTCCATAAAACAGTACTATTTTTAAGACTCATGCAGGTCATCCAAAAAAGTTACCTACTGT
AGAGTTATGGGCAAGGTTCTGTTAGATCGTTTGCTCTGAGATGTTGGCAAGATATTTAATTGCTGCCTAATCCCCTAACCCATAAGACAGTGCC
CCACAGGTCCTTTAATGAAAATGTTTTTAAGTGTTCTACCAAAGTAATTATGATGAGACCTATTTTATGATAGCACCTAATTATGATAACACCT
TAAAAGGGTGTTCTAGGAGTCATCTTCTAATTGAAGCTGATGTCATCCTGTTAAATGAAGATTTCCCAATGGCAACTGATTAAATGATCAGTTT
AATCATTTAATAACATGATAATGCTGAGCCCCCACCTTAATTATTATTCTCCTATTTACAAGTAATTGAAGAGTATTCTCCTATTTACAAGTAA
TTATCTGGATTGGAAACAATCCAGATATTCATCAGTAAGTGGCCAGTTAAATTATGGTCTGTCCTTTTGATGAAATATCATGTAGTTATTCAAA
AGAATGAGTACTCTGCGAACTAATATAGAAAGATCTCAGTTATACAGTGTTAAAATATTTTAAAAGATGGGTGTAGAACAAAGTGTGTGTAGAA
ATGATTCTATGTTCATGCATAAAGAAATTCTGGAAGGATACCTAAGAAATTAATAACAGTATTTACCACTGGCTGGTACACTGTAGGAACTGCA
TGGATGGGGAACAAGAATGTCAAAGAGAATACCACTGTATGCTTTTTTATATTTTATAAGATCTTTATCCCTGTGAATATATTACATAGTCAAA
AAATCAAACTGAAAAATGCTTAAATCCCTAACATACCACCAAGAACTAATGTGTTATGATGCCAATGTAAGCAATGTTTAGTTTCTTCTCTTCA
TCACTGGCCTGTAGCCATCTCTCTCTTTCCATACCCAGTCTTTCTGATGTTGCTCTAAATAATCTTGGAGGCTTTTAAGGCTGCTTTGGAAGAG
AAGAAAGTATATGCAGTGAATTTTATAAGCATGATATTTACAACTAGAAGACATTTGAAATAGACAAATGAAATAATAAAGCTTCGTAGTACAT
TAGCATAGCATTGTATTTTGATTTTACAGTAGCAATTTCATAAAAATGTATCGGTATAGAATTCTGAGTTTGGAACTTTCTCCAGGACACGGTG
TTTTTTAGTACACTGTGTCTAAACATTGGGTATAAAGAAAAGCATAAGGAATGTGTTTAATGAGTAGCATTACTGCAAAAAAAAAAAAAATGTA
GTCCTACACCAACATGTGGTTCTTCGTATCCTGCAGTTTGCCATTGTCTTCAAAACTCCAAAGTATAAAGATATTAATATTACAAAACCAGCCT
CTGTGTTTGTCCAGCTTCGGAGGAAATCTGACTTGGAAACTAGTGAACCAAAACCTTTCCTCTACTATCCTGAAATCAAAGGTAAGTCAGTTGT
TTAAAATCTTATGCTCATATTTTATTTTATTTTATTTTTGGTTTTTGTTTTGTTTTGTTTTGAGACAGAGTCTGACTCTGTTGCCCAGG
CTGGAGTGCAATGGTGCAATCATAGCTCACTGCAACTTCGAACTCCTGGCCTCAAACAGTTCTCCTGCCCCAGCATCTCAAATAGCTGGGACTA
CAGGTGTGCGCCACCATGCCGGGCTAATTTTTTTTTTTTTTTACTTTTAATAGAAATGAGGACTTCCTACATTGTCCAGGCTGGCCTTAAACTC

CTGGCCTTAAGCAGTCCTCCGGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCTGCCATGTCTTGCCATTGTGCTTGTTCTGAGAAG
AGGACAAGCTAATTAGAAAAGATCAGTTAGTCACCTCCTTTGAACAGCTTTCTAGTAACAGGTCCCTGGATCCATGGTGCTTATTTTTAGAAGA
GACAGTAGTATATTATTTTGAGGTCATGGAATTAGTCTAGCTTTTTAAAATAATGTTATTTCCACCAAGCTTATATGAGATTTAGACATTGAGA
ATTTGTCTTTGAATTTGAGAATCTAACATTTATTGACTAACTCAGAGTTCAAGCAGCTGAGATGAAAAAATCAGGCTTGCTGTTTAGGAGAATC
AGCCAGTTAGTCAACCAGCCTCAGGCGGTGGAACAGAAACTTGGCCAACATGCACTGTGAAACTATGAAAATGAGTAAGGCATCATTCTTTCT
CTCACAAAAGATGCTTTAAGAAAGGGCACTCATAGGTTTCTTAAATAGTTATAATGTAAATTATGATTTTAATAAGTACCGAAAGTGAAGCATC
CATAAAAATATAAGAGAATGTTGAAGAGAGAGCCCTTGGTCCCTTTATTCTAAAGCAGCCTCCAAAAAGAAGGCTTCGTCAAGGAGATATCATT
TGGCCCTCAGCATTTGGGGTATATTTCAGCAGTTGGGTGTTAAACAGAGAAGGAGAGGGTTCTCTAGGTTTAAGTTACTTGAGGAGCTTAAAGA
GAGAGGTAAACACAGCGTTTATGCAGAGGGAAAAAAGTGTTCTGAGCGCTCGGATGGACATGAAGGCCAATGTGGGTAAGGAAGGCCAGGGCCA
GGCTAAAGAGGGCTGTGAATGGCAGCTTAAGAATTTTGCATTAATTCTGGAGAGGGATAGCCGGGCCTGCCTAGGTTTGGAATGATGGCTCTGA
CTTCTTTATGTCACCACTGAGGGTACCATTTAGGAGGCAGATGATGAGTCAGAAGAGTAATGCAAGAATCCAAGTGAGAAACAGTGCAGTTAGT
AAAGGTCCTAGTGCCAGGAATGAAAGGAGATGGTGGACTTAAGAGAGAGTGCAGTGATACTGTGATACAGTGATACTGTCAAGAGGGCCTAGAG
GTCGGAGGTGTAGGAGAGACGGGGAGTCATAGATGGGTCTAAGACTCCCTGACCAGGAAGCTTGTGATGTGGTTGACTTGATGAAAGGAACAAG
GGAGCAAAAGTAGATTTGGGTGGGAAAAGAAGGAGCTCAGAGTAAAACATGTTATATTTTAGGTCCCTGTGGGAAAATCAAGTGTAAGTTCTTA
GTAGGCAGATCAAAAGGCAGAACTGGAACTCAAGAGAGGACAGGGTGAGAAATTTAGCATTAGAATCATCTCAAAACGAGATATAACAGGCACC
AACTGAGTCATCATTCAAAGGTATTTCTTAACCTAGAGTCCACTGACCCCCAAAGAGTCTGTGGATAGAAATGTACTTTGATATCATCAGCTTC
TTTTATAATCCTGTTTTGTATTTTACATACTGAAAACCATGATTCTGAGAAGAGATCCATAGAGTTCACCAGACTGCAGAAGGGGCTGTGGCAC
AAACAAAATTAGAAACCCCTCAGTTGGAGGGAAGTGAGACTGGGAAGGGAGGTCAGTAAAATGATTGCCACGGGGCACCCAGATCCTTGCTGAG
GTTGGAAACCGCAAAGGTGCAGCAGCAACAAGCCACATGGGTGGGTGTTGTCTCCTGTGAGAGCAAGATGTGATAGGTAATCTTTGAAGAGGGC
TTTCCTTTCCTAGAATTCGTGCTGCCACAGGAGTGTTTAGAAAACGGTTCTACAAGTTCTTGTTTCTTTTCTGAGGTTGTGGCCTCTCCATTGT
TTGGTCAGATTTGTAGTGCACTCTATATCCTGGTGGTTTGAAAACATTGTCAGCACAATAACTTTTCTTTCTTCACATGAGATTTCATACAAAA
TCCCAGTGTATGGACATGGTAGGCTTTGATTAAAATAGGGGTGAAGGGCCCTGCCAGCTCGGCCTTCCGAGAGGCTGTCCCACCTCTCCTTACT
TCCCTATCAGGAGCTGCTGGAGGTCTTTTGAATGCTTCTGCCTACACAAAATGATGTGAAAATCACTGCTTTAATTTAAACACCCTTCTTTAAA
AGTAGACACAGAAGAAAAATATGGATAATTTTTTTAGACTTTCTGAGGAAAAAAATAGATTTCTTCTCCAGAAATATGTCTTCAAATAATGCCA
GTTTTTGCTAACACAGAGAATCATGAAGAAAGAAAACCCAGGTTACCTGTATGTGTATGAACCTAGAAACATTCAAAGCTCAGCTTGGTATCTA
GGCTGCCTGTCTCCCTTTCCCAGTGGTATCTATGCCTCAGAAAAGTATGTTATAGTGGGGGTATATTCAGGTGATTACTTTAATGCCTCGTTAT
CATAGTAGGAACTATCCAATGCAGGGATTAGAGAATGGGGTCACCTGAAAGTTCAAAATTGCACCTGTATGCTTCATGCACCTACCTTCCAGGC
TGTCATTGATGAAAAGCTTCATACAATACAAAGTTTAAGAACTGTCTGGAGAAATACTTACCCATTGAGCTCTGAAGGAAAGAATGGACAACAT
ATATATATATGAGGACAACAAATTACTTGATTCTATAGAAACCTTCTGGATTATAAAAACTCAAGATAATAGGACCAAGGAGAAATAATCTGAC
CAGGCAATATAACTGGTCAGAAAAGTAGTAGGCCATTTAGCATTAGAGTAAGTAGATAGAAATGGATCCAAACTGTACAACCCAGGGAAACATT
GCATACATTTCTCAGAAGTCATTGAACACACTTTTCCTTACCCCCAGTCTCTGT

HUMAN SEQUENCE - mRNA

GGCCACCGGAGCGGCCCGGCGACGATCGCTGACAGCTTCCCCTGCCCTTCCCGTCGGTCGGGCCGCCAGCCGCCGCAGCCCTCGGCCTGCACGC
AGCCACCGGCCCCGCTCCCGGAGCCCAGCGCCGCCGAGGCCGCAGCCGCCCGGCCAGTAAGGCGGCGCCGCCCGCGGCCACCGCGGGCCCTGCC
GTTCCCTCCGCCGCGCTGCGCCATGGCGCGGCGCTGACTGGCCTGGCCCGGCCCCGCCGCGCTCCCGCTCGCCCCGACCCGCACTCGGGCCCGC
CCGGGCTCCGGCCTGCCGCCGCCTCTTCCTTCTCCAGCCGGCAGGCCCCGCCGCTTAGGAGGGAGAGCCCACCCGCGCCAGGAGGCCGAACGCG
GACTCGCCACCCGGCTTCAGAATGGCAGAAGATGATCCATATTTGGGAAGGCCTGAACAAATGTTTCATTTGGATCCTTCTTTGACTCATACAA
TATTTAATCCAGAAGTATTTCAACCACAGATGGCACTGCCAACAGATGGCCCATACCTTCAAATATTAGAGCAACCTAAACAGAGAGGATTTCG
TTTCCGTTATGTATGTGAAGGCCCATCCCATGGTGGACTACCTGGTGCCTCTAGTGAAAAGAACAAGAAGTCTTACCCTCAGGTCAAAATCTGC
AACTATGTGGGACCAGCAAAGGTTATTGTTCAGTTGGTCACAAATGGAAAAAATATCCACCTGCATGCCCACAGCCTGGTGGGAAAACACTGTG
AGGATGGGATCTGCACTGTAACTGCTGGACCCAAGGACATGGTGGTCGGCTTCGCAAACCTGGGTATACTTCATGTGACAAAGAAAAAAGTATT
TGAAACACTGGAAGCACGAATGACAGAGGCGTGTATAAGGGGCTATAATCCTGGACTCTTGGTGCACCCTGACCTTGCCTATTTGCAAGCAGAA
GGTGGAGGGGACCGGCAGCTGGGAGATCGGGAAAAAGAGCTAATCCGCCAAGCAGCTCTGCAGCAGACCAAGGAGATGGACCTCAGCGTGGTGC
GGCTCATGTTTACAGCTTTTCTTCCGGATAGCACTGGCAGCTTCACAAGGCGCCTGGAACCCGTGGTATCAGACGCCATCTATGACAGTAAAGC
CCCCAATGCATCCAACTTGAAAATTGTAAGAATGGACAGGACAGCTGGATGTGTGACTGGAGGGGAGGAAATTTATCTTCTTTGTGACAAAGTT
CAGAAAGATGACATCCAGATTCGATTTTATGAAGAGGAAGAAAATGGTGGAGTCTGGGAAGGATTTGGAGATTTTTCCCCCACAGATGTTCATA
GACAATTTGCCATTGTCTTCAAAACTCCAAAGTATAAAGATATTAATATTACAAAACCAGCCTCTGTGTTTGTCCAGCTTCGGAGGAAATCTGA
CTTGGAAACTAGTGAACCAAAACCTTTCCTCTACTATCCTGAAATCAAAGATAAAGAAGAAGTGCAGAGGAAACGTCAGAAGCTCATGCCCAAT
TTTTCGGATAGTTTCGGCGGTGGTAGTGGTGCCGGAGCTGGAGGCGGAGGCATGTTTGGTAGTGGCGGTGGAGGAGGGGGCACTGGAAGTACAG
GTCCAGGGTATAGCTTCCCACACTATGGATTTCCTACTTATGGTGGGATTACTTTCCATCCTGGAACTACTAAATCTAATGCTGGGATGAAGCA
TGGAACCATGGACACTGAATCTAAAAAGGACCCTGAAGGTTGTGACAAAAGTGATGACAAAAACACTGTAAACCTCTTTGGGAAAGTTATTGAA
ACCACAGAGCAAGATCAGGAGCCCAGCGAGGCCACCGTTGGGAATGGTGAGGTCACTCTAACGTATGCAACAGGAACAAAAGAAGAGAGTGCTG
GAGTTCAGGATAACCTCTTTCTAGAGAAGGCTATGCAGCTTGCAAAGAGGCATGCCAATGCCCTTTTCGACTACGCGGTGACAGGAGACGTGAA
GATGCTGCTGGCCGTCCAGCGCCATCTCACTGCTGTGCAGGATGAGAATGGGGACAGTGTCTTACACTTAGCAATCATCCACCTTCATTCTCAA
CTTGTGAGGGATCTACTAGAAGTCACATCTGGTTTGATTTCTGATGACATTATCAACATGAGAAATGATCTGTACCAGACGCCCTTGCACTTGG
CAGTGATCACTAAGCAGGAAGATGTGGTGGAGGATTTGCTGAGGGCTGGGGCCGACCTGAGCCTTCTGGACCGCTTGGGTAACTCTGTTTTGCA
CCTAGCTGCCAAAGAAGGACATGATAAAGTTCTCAGTATCTTACTCAAGCACAAAAAGGCAGCACTACTTCTTGACCACCCCAACGGGGACGGT
CTGAATGCCATTCATCTAGCCATGATGAGCAATAGCCTGCCATGTTTGCTGCTGCTGGTGGCCGCTGGGGCTGACGTCAATGCTCAGGAGCAGA
AGTCCGGGCGCACAGCACTGCACCTGGCTGTGGAGCACGACAACATCTCATTGGCAGGCTGCCTGCTCCTGGAGGGTGATGCCCATGTGGACAG
TACTACCTACGATGGAACCACACCCCTGCATATAGCAGCTGGGAGAGGGTCCACCAGGCTGGCAGCTCTTCTCAAAGCAGCAGGAGCAGATCCC
CTGGTGGAGAACTTTGAGCCTCTCTATGACCTGGATGACTCTTGGGAAATGCAGGAGAGGATGAAGGAGTTGTGCCTGGAACCACGCCTCTAG
ATATGGCCACCAGCTGGCAGGTATTTGACATATTAAATGGGAAACCATATGAGCCAGAGTTTACATCTGATGATTTACTAGCACAAGGAGACAT
GAAACAGCTGGCTGAAGATGTGAAGCTGCAGCTGTATAAGTTACTAGAAATTCCTGATCCAGACAAAAACTGGGCTACTCTGGCGCAGAAATTA
GGTCTGGGGATACTTAATAATGCCTTCCGGCTGAGTCCTGCTCCTTCCAAAACACTTATGGACAACTATGAGGTCTCTGGGGGTACAGTCAGAG
AGCTGGTGGAGGCCCTGAGACAAATGGGCTACACCGAAGCAATTGAAGTGATCCAGGCAGCCTCCAGCCCAGTGAAGACCACCTCTCAGGCCCA
CTCGCTGCCTCTCTCGCCTGCCTCCACAAGGCAGCAAATAGACGAGCTCCGAGACAGTGACAGTGTCTGCGACACGGGCGTGGAGACATCCTTC
CGCAAACTCAGCTTTACCGAGTCTCTGACCAGTGGTGCCTCACTGCTAACTCTCAACAAAATGCCCCATGATTATGGGCAGGAAGGACCTCTAG
AAGGCAAAATTTAGCCTGCTGACAATTTCCCACACCGTGTAAACCAAAGCCCTAAAATTCCACTGCGTTGTCCACAAGACAGAAGCTGAAGTGC
ATCCAAAGGTGCTCAGAGAGCCGGCCCGCCTGAATCATTCTCGATTTAACTCGAGACCTTTTCAACTTGGCTTCCTTTCTTGGTTCATAAATGA
ATTTTAGTTTGGTTCACTTACAGATAGTATCTAGCAATCACAACACTGGCTGAGCGGATGCATCTGGGGATGAGGTTGCTTACTAAGCTTTGCC
AGCTGCTGCTGGATCACAGCTGCTTTCTGTTGTCATTGCTGTTGTCCCTCTGC

SAGRES DISCOVERY 02-20

HUMAN SEQUENCE - CODING

ATGGCAGAAGATGATCCATATTTGGGAAGGCCTGAACAAATGTTTCATTTGGATCCTTCTTTGACTCATACAATATTTAATCCAGAAGTATTTC
AACCACAGATGGCACTGCCAACAGATGGCCCATACCTTCAAATATTAGAGCAACCTAAACAGAGAGGATTTCGTTTCCGTTATGTATGTGAAGG
CCCATCCCATGGTGGACTACCTGGTGCCTCTAGTGAAAAGAACAAGAAGTCTTACCCTCAGGTCAAAATCTGCAACTATGTGGGACCAGCAAAG
GTTATTGTTCAGTTGGTCACAAATGGAAAAAATATCCACCTGCATGCCCACAGCCTGGTGGGAAAACACTGTGAGGATGGGATCTGCACTGTAA
CTGCTGGACCCAAGGACATGGTGGTCGGCTTCGCAAACCTGGGTATACTTCATGTGACAAAGAAAAAAGTATTTGAAACACTGGAAGCACGAAT
GACAGAGGCGTGTATAAGGGGCTATAATCCTGGACTCTTGGTGCACCCTGACCTTGCCTATTTGCAAGCAGAAGGTGGAGGGGACCGGCAGCTG
GGAGATCGGGAAAAAGAGCTAATCCGCCAAGCAGCTCTGCAGCAGACCAAGGAGATGGACCTCAGCGTGGTGCGGCTCATGTTTACAGCTTTTC
TTCCGGATAGCACTGGCAGCTTCACAAGGCGCCTGGAACCCGTGGTATCAGACGCCATCTATGACAGTAAAGCCCCCAATGCATCCAACTTGAA
AATTGTAAGAATGGACAGGACAGCTGGATGTGTGACTGGAGGGGAGGAAATTTATCTTCTTTGTGACAAAGTTCAGAAAGATGACATCCAGATT
CGATTTTATGAAGAGGAAGAAAATGGTGGAGTCTGGGAAGGATTTGGAGATTTTTCCCCCACAGATGTTCATAGACAATTTGCCATTGTCTTCA
AAACTCCAAAGTATAAAGATATTAATATTACAAAACCAGCCTCTGTGTTTGTCCAGCTTCGGAGGAAATCTGACTTGGAAACTAGTGAACCAAA
ACCTTTCCTCTACTATCCTGAAATCAAAGATAAAGAAGAAGTGCAGAGGAAACGTCAGAAGCTCATGCCCAATTTTTCGGATAGTTTCGGCGGT
GGTAGTGGTGCCGGAGCTGGAGGCGGAGGCATGTTTGGTAGTGGCGGTGGAGGAGGGGGCACTGGAAGTACAGGTCCAGGGTATAGCTTCCCAC
ACTATGGATTTCCTACTTATGGTGGGATTACTTTCCATCCTGGAACTACTAAATCTAATGCTGGGATGAAGCATGGAACCATGGACACTGAATC
TAAAAAGGACCCTGAAGGTTGTGACAAAAGTGATGACAAAAACACTGTAAACCTCTTTGGGAAAGTTATTGAAACCACAGAGCAAGATCAGGAG
CCCAGCGAGGCCACCGTTGGGAATGGTGAGGTCACTCTAACGTATGCAACAGGAACAAAAGAAGAGAGTGCTGGAGTTCAGGATAACCTCTTTC
TAGAGAAGGCTATGCAGCTTGCAAAGAGGCATGCCAATGCCCTTTTCGACTACGCGGTGACAGGAGACGTGAAGATGCTGCTGGCCGTCCAGCG
CCATCTCACTGCTGTGCAGGATGAGAATGGGGACAGTGTCTTACACTTAGCAATCATCCACCTTCATTCTCAACTTGTGAGGGATCTACTAGAA
GTCACATCTGGTTTGATTTCTGATGACATTATCAACATGAGAAATGATCTGTACCAGACGCCCTTGCACTTGGCAGTGATCACTAAGCAGGAAG
ATGTGGTGGAGGATTTGCTGAGGGCTGGGGCCGACCTGAGCCTTCTGGACCGCTTGGGTAACTCTGTTTTGCACCTAGCTGCCAAAGAAGGACA
TGATAAAGTTCTCAGTATCTTACTCAAGCACAAAAAGGCAGCACTACTTCTTGACCACCCCAACGGGGACGGTCTGAATGCCATTCATCTAGCC
ATGATGAGCAATAGCCTGCCATGTTTGCTGCTGCTGGTGGCCGCTGGGGCTGACGTCAATGCTCAGGAGCAGAAGTCCGGGCGCACAGCACTGC
ACCTGGCTGTGGAGCACGACAACATCTCATTGGCAGGCTGCCTGCTCCTGGAGGGTGATGCCCATGTGGACAGTACTACCTACGATGGAACCAC
ACCCCTGCATATAGCAGCTGGGAGAGGGTCCACCAGGCTGGCAGCTCTTCTCAAAGCAGCAGGAGCAGATCCCCTGGTGGAGAACTTTGAGCCT
CTCTATGACCTGGATGACTCTTGGGAAAATGCAGGAGAGGATGAAGGAGTTGTGCCTGGAACCACGCCTCTAGATATGGCCACCAGCTGGCAGG
TATTTGACATATTAAATGGGAAACCATATGAGCCAGAGTTTACATCTGATGATTTACTAGCACAAGGAGACATGAAACAGCTGGCTGAAGATGT
GAAGCTGCAGCTGTATAAGTTACTAGAAATTCCTGATCCAGACAAAAACTGGGCTACTCTGGCGCAGAAATTAGGTCTGGGGATACTTAATAAT
GCCTTCCGGCTGAGTCCTGCTCCTTCCAAAACACTTATGGACAACTATGAGGTCTCTGGGGGTACAGTCAGAGAGCTGGTGGAGGCCCTGAGAC
AAATGGGCTACACCGAAGCAATTGAAGTGATCCAGGCAGCCTCCAGCCCAGTGAAGACCACCTCTCAGGCCCACTCGCTGCCTCTCTCGCCTGC
CTCCACAAGGCAGCAAATAGACGAGCTCCGAGACAGTGACAGTGTCTGCGACACGGGCGTGGAGACATCCTTCCGCAAACTCAGCTTTACCGAG
TCTCTGACCAGTGGTGCCTCACTGCTAACTCTCAACAAAATGCCCCATGATTATGGGCAGGAAGGACCTCTAGAAGGCAAAATTTAG

TABLE 21

MOUSE NOMENCLATURE
ICSGNM Fyn
Celera mCG1380

HUMAN NOMENCLATURE
HGNC FYN
Celera hCG34806

MOUSE SEQUENCE - GENOMIC

CCAACACGCAGTCCCAGTGGTTGGGAGACACAGGGCTCCCTGTCATTCTTCAGAGGAGACGCCTGCCTCACTTCAGACTTGCAATGCAGATGGC
GGCTGGCAGATTCTGCTGTGGCTGTTTCCACAACCGTGCTTCCGAGCAAAGGGGCAAGCGATGGGGATGCCACGCCCACTGTCCCAAGCTTGCT
CCTTTCGATGCGCTTTTCATGTTTTGTTTTTGTTTTTTTTTTTTTTTTTTATTACACTTTTACTTAATCTGTGTGTGTGCCCGGGCAAAGCTTCCATG
CAAGGCGTGGCATGGAAGAGTGGAGGTCAGACAACTTGGGAGCCATCAGTTCTCCCCTCTAGCAGGAATCAAACTCAGACCTGTGGGCTTTGCA
GTAGGCATCCTTACTCACTGAGCCATCCCACCCTCCGGCCATCTGCTTCTGTGAGAGCTGGATCTTCGTGACTAGTGCTACTGAATTAAAGGAA
GAGAAAGAACCCCCTGTTTTCTGAAAGGCTGGGGCTCATGCAGAATCATCTGTCCAGGAACCCCCATGCTGACTGGGGGGATCTGCGGAGTGAG
GTTTTGTCCTGCCTGAGAAGGAACCTCCTGGGCTCTCATCCTCCTCCTACCTATAGAAAGGACATTGGCGATGCCTGTTCAGGCAGCCGCTTTG
TTCTAGTGTGTTTGCTTGTGCCTATGCCAGGTGACACTGTGACTCCTGGCCCACCGCCAGTCCCGCTACAACTGTTACTAAAACAGAGGAGGCC
AGAGAGCCAGGCTTTGCGACTGAGCCGCAGATGTGACACTGGCTTTCCTGCTTGTGCTAGTTTGCGACTAGAAGCCCGTGGTTCTACAGAGCAT
GTGCAGAGTGGGGGAAACAAGCCTGACTGGATATGGGCAGTGAGAAGTGATGTATCCAGCAGACCTTAGTGTTTCAGAAGAGTGCTAAGTTGTA
TAAAGTGGGGCTGCTCCCTCCTGTGCTCCACCGGGATTCAGGAAAACTAGCTCAAAAGTCAAAGCTAGCTGGGCAGTGGTGGTGCAAGCCTTTA
ATCCCAACACTTGGGAGGCAGAGGTAGGTGGATTTCTGAGTTCGAAGCCAGCCTGGTGTACAGAGTGAGTTCCAGGGCTACACAGAGAAACCCT
GTCTCAAAAAAAAAAAAAAAAAAAAAAAAAGAAAAAGAAAAAAGAAAAGTCAAAGCTGTGTCAGCTGGAAAGGGTGAAAACAACAAGCATAAGGAC
AAATCCCCCTGCCTCTACAACCAGCAGCATCCAGAGAGTGAGTGCTGGTTAGACCTCCCTTCCCTAGGGCTGGCCAGTACACAGCTCAGCCCAG
TCCAAGCCCTCAGTTCCAGGAAGAGCCTGCTTAATTAAGGATTGTCATTCCTACATGGTTAGGGTCTCCAAGCATATAGGACTTAGAACTGAAG
CATATTCATTGCCCCCACCTTGTCTGCCTGTAAGACTCTGGGGAGCCTTAGCTTACCTGGGACCCCCTGAGTGAACCACGTGAAGCCGGGATCG
ATGCAAAAAGCAAGAGGAATTTATTGCTCCAGTGCACTGGGGCCATCCCAGACCCGAAGGAGTGGTGGCTACTCCCAATATCCCAGCGAGTTCT
TATATGGTTTCCAGGGGCAGAATAGAGCATCAGCAACTAGGCACAATAAGATTGGTGGAATAGTGCACCCTTTAAACTGATTGGTCTTTAGGGA
ATGAGGTGACAAAGACTTTCCTTGTCTGAAGGTGGCAACAGTCAGTACTGTGGAATGTGTCCCCACCGGCAGGTCCGATCCTGCCATGTGGTCT
GAGAAATGGTAATTAGCCTCTCCCTTCCGGAGGGTCAGGTGTTTCATGACCTTCCCAAAGTTCCTAAGCTGACCTTTTCATGCCCAGGTCTGGC
GTGATCACCCATTGCGTCCTCAGGTTTGACATCAGTGCCTCTGCTTCCCTTGCCACAGTAAGGTTTCTGCAGCTCTCTCTGTGTGTTCTCACTG
CCTGCTTGCTGCACAACCCCTCAGCACCCAGCAAGGAGTAGAAAGCACGCTCACTGCTCTTGACTGGTTAGCTATTGTGCCTTCCAGAAGTTGC
CTCTTAATGTGCTCCCCTCCCATCTCCAGTTTTATGCTTTATTACTATGTGATTGTTTCAACTTACATACAAATTCAGTTGAGAACTGAAACAA
GGGAACTTGAACTCATCAACATGGTGCATTCTCACAGTGCAGTCTCTGTCACGCGCCTGCGGTGATTCAGCCTGTCCCCCTAAAGCGCATCGCA
GGCATCCATTTTGTAGCTGGAATGGCCCAGTGCTGCCTTGACACAGCGCACTGCTTCAGAGTACTCACCGTGTCTGTTTTCTCCTCTGCTTACC
ATTCTGTCGTAGACATACCTTATAAATTCACCACCTCTCATTAAACACTTGCATGTTTTCTAATTTCCAAAGTGATGAACAGCATTTTATAAAA
CCTCACTTAGCACATACTCACAGGCCCAAAGGCAAGCCTGTCTTAGGCCCCTTGTTGACATTACCAGTTTGGTTTACCAGAAGTCCCCACAGTA
CTGTAGGAGCAAACTCATTTCAAGGGACCCTCTGTCACTGTTGGGTAGAGGATTCATCTGTGAATTTAGTTACTAATTAAATCACTTACTAATC
TAAGTGTTTCCCTGATTACTTGTGGAAACTGGTGTTTCCCCTAAAGCTTCAGTGGTGTGGGGGGAGAGGAAGGTGCTACCAATAGTGTTCCCTC
ATTTCCTGCCTAGTTGGTTTGTCTTATCTATATAAATCCATTTTTTAAAATATCTATCTACAAAATAAACTTGTACATAAATGTGGATAACAGA
ATTATTCAAAGGAGGAAGTATCCAGGATATTCATGATTTCTAAATGGATGAGCACCTTATGATATAGTCATACAGTGACAGATATTTAGTGATT
AATGTAATGATAACTTTAATACAATGCTATATTACTACACTGCAGATGAATCTTAAATGCGTTGTGCCCTGATGAAAAATAGAACGAAACCAAG
GTTGTGTATCATGTGATTAAATCCATACCAAATATCTGGATTAGGCAAACCCACAGAGACCTAGGTAGGTTAGATGGGCGTCAGGGAAGATAGG
GGTCATTGGCAAGTGGCTGCTTAGAGCACAGGGGTTTCTTTGAGGATGAAGAATGTGTTCTGGAATTAAATGGCAGTAATGGCTCCTTTATAAA
AACCAACTGTGCCACACTCTTCTGTGGTCTGGAAGAGTTGGGGAAGGTGTGCCCTGCCTCTCCAGAATCCCTTCGTACAAACAGGGCTAATACT
CTCATTTGCATCAGCACCTTCTCTCTCTCTTCTGTCGACTCAGAGATCCAAAGCAAACTGGGCGCAAGAAGCATCTCTCCCTCTCCCTGGAGCC
CTTCCATGATTCCCTGTTAAAACTTCATTTGGCCATTTAGGTTTGGGAGCCCATCCAGTGGCTGGCTGGCTGACAGCAGTGTGAATGCTCACTC
TCGGGGGCTCACGCTTCTGTCTCCCTTCCATTAAGCCTTCAGAGCTCCAGGCGCAGTGAGGGGGGTGGGGTGGGAAAAAGGAAAAGACTGCAGT
TTCTCAGCCTAGGGGTTATCTACACAAGCATCGACAGAGCTGATTCCAGGTGCCGGGAATGCGCCTCTTTTCTGCTGTGCCATGGTGTTCTATG
AGTGATTGGTTTCATCCATTGCTGTCAGGGTGGGACAGGATCCATCCTCGTCCCCTCAGAGCCTTTGCAGTGACCACACACATGGATGATCCAG
ACACTTGCTGTTTGTGAAGTAAAGCTTTGATTTGATGCGTAGCAGGTCCAGTCTTCTGGCCACTGCATGTGGTCAGTGTCTGCGTTGTGCACAC
TCCCCTGTCCCGTGGCCTTCTCACCTGAGAGACTGCAGGGTGTCAGAAGGAGCGTTTGGTAGGGGCTTTCCTTCACAGCATTCTACCACAAGTA
CATACGTCTTTTGTGTTTGGTTGGGGGTGGGGCAGATTATACGAACACTTCACTTCATGAGTTAATTTGCCTGTAAAGTGAATCATGTCTTAAA
TGCAATAGGAGAGCTCATTTTTATACCAAGGAAACTTTCCGCTACCGCCTCCCTCGTGGTATGTATAAATACCCTTGCCACAGATAGGGAAGAC
GGGGAAATTGAGGGCTGCTTTAGTTTTGTTGGCTCAAACAGTCATTAAGATGCCAAACCATACCAAGGAAGAGGTGACTCACTGTGGTTCCAGC
ACCTCCATAGAACCCACTATTCACAGTGTGGAATGTAGATGGAGACAGAGGCACCAAGGCTAACAGAGGCACTGTGCTCTCTGTCCCTGGACGT
GGTGTCAAGAGGCGTCCTTCCCTCTGACTTTCCCGCCATGCCTCTTTTGTACACTTTTGTGTGGACTTACCAGGGCTCCATGGTACAGAAAGCA
GCTTTGTTGCAGAAGTCCTGAGTTCTGGACATGGACTCTAGTCACCTGTTGTCACCTCTCGAGCTGAGCTGTGGACACATTCC
CCTACCTCTCTATAACAGGGCCCATGTTTGAGGACTTAGAATGTGGTGGTGGGGTTGCGTTTTCCAGTGCAGTACAGTGCAGTGCCTGGCATAC
ATGAGTATGCATACATACACTTCGGATGTTGGCTATGACTGCCAGGATGTGGAACCACCACCTCTACAGTGCCCCATCCCGTAACTAGGCATTC
ATCTTCTGCAGGCTTCGGACAGCATCCGTGTATTAGCTCACCATTCTGTGGGCCGTAAGCCGGCACGTAGCATGACCGGAATCTCTGATCAGCG
AGGCTGAACTAAGGGTGTCAGCTGAGCTGTCACTGGGGCCTTGCTAGGGAAGAATCGGTTTCCTGACTCACACAGACTCTTGATCAGTCTCAGT
TGCTCTGGTTTGCTGTGGTCTTGGAACTGACATGCCAGTTCCCTGCTCTGCCAGCTGTGAGCGCTCCTCAGCAGTGGAGAGCCCACATCTGGCC
ACGTGTTAAGAGCTGCAGGAGAGAGGATCCTCACTTTGAATGCTTCTTCTCACACTTCGGCTCTGCATGTGCAAGAAGAGCCATGACCTCCAGG
GCTTACTTGATGAGGTCAGCTCACGGGGACACTGTCCTTCCTAAGGTTGGCTACGCCAAGTGACACAGCCTAACACAGGAGCGGCTGTTTAATT
CACACATCCTGGAGACTGTACAGGAAGTTGGAAGGTAGCTTACAGTTCTGCGCACCACAGCACAACCTCAGCAGGGCCAGGGACAAATGGCTCA
CTTCTTCCATCCATCTGGCAGCAAGTATACTTTGCCAAGTGGGCAGAACTGCACTGCACTGCGCTGACACAGGGTGGACCCAGCACTAAGGCTG
TCTGCGGCTCAGCCCCCAAGGTCTTACAGTTGCACAATGCAAACCCGGCTGGATCTTTCCTTTGGCTTAGGACCTCCACCAGTGCTTATGCAAC
CAAGAGGCACCAAGGCACCCTGCTTTTTCTCCATCCACCTAATTCCTAGGACCTCTCTGACTGTACCGAAAAGACAGATAAAGACCCTTAAGCT
GCCAGGGTCATCTGGCTGTGTTCTAGGAAGAAGGAACAACCCATTGGGCAGGATGGAAAGGTGTTGGTGAATCAGGAAACTTGGCTGGCAGGTT
CTGTAACCCAGCTACCACTGCTCCGGGCATAGTGTTGAGCTGCCTAAATGAGGCTCTAGCAGTTATGTGCGGAAAACTCCTAATCAGCTGCCCT

SAGRES DISCOVERY 02-21

GGCTCCTCAGGGGATTCACTGTCTGCCGAGAATCTAGTAAAGTTCCTTAAAGTCCTAGTAAAGTTACTCATCCTGTGGATGGTGTTGATTTTCT
CAGCATCAAAAGCTGTGTGCCAGGAGCCTCTCTCCTAAGGTCGCCTCACTCTGACTGTGCTCCGCCTCCTCCTGCCCTCTCTCATCCCACTGCT
GTTCATTCATGAAGCGGTCCACTTTTGCCTCTGCCCCTGACACAGTGTGAGGAGCTGCAGGGGACCTACAACTCTGCTCTGAATTCCTCATTGC
TTATGTGTCGTTGGTCCGGCTCCCATCCTTTTCTTACTCTCCATTGTCAGCTTTGCCCAAGAAAGAGCGATGCTAGAGTGGAAGGGACCATGAG
GCAAGTCGTGTCAGAGTTCTGTGGCCAGACCTCACTGTCCTTTCCCAGGCCAGCGCTGCCCACTAGGCTCCCAGGGTGAGAATGGGGCATGGGA
GGGGGATAGGGATGAAGAGCTAAGTCTAGAGCTGTCACTTCTCCCATTCCTTCTTAAGTTGGCTCCAAGGTAGCAGCCTACTCTGCTAAGATGG
CGGCTACTCATTGGCTCTTTTCCCTGTATGTTGCAGAGAAAGGCATTTGCCAGCATGCCCGGTGTCTCATCCAGGCCTTGTTACCCAGCAGCTG
TAGAACTTGATCATGGGCATTGCTCTTGGGTTGGCAGCTGAGGAAATGGAAGCTTTCTCATTGTTTGTGTGCCCAGCCTCAGAAGTTGAGAGTG
GGTACCCACCTGGGCCCACCTCTGGTCAGAACGTACCTGACCTGTGATAGCTGAGCCCCCCCCCCCATACTGCAGGGCCCCCTCTGTCACAGAAG
AACTGTGTGGAGGGTTTGAGGCCACACCATGACCGTAGTATAAAGCGATCATATCTGCTGTGCTCATGGGAGGAGGGTGTGGCTGTGTTTCAGT
GTGTCTGGCAACTCTTCCCCCTGTTGTGTAACTTAAATAGATTTGTGGGACTATGTCCATTTAAGGAAACAGGGTCCCTTAGCTTTCAAAGGGAT
GGAGAAACAGGCTATAATCTGGATATCTGGACTGGTCGCACAAGGTCAGGTTAGTGAAGACGCTCTGCTGCCAGCTCTTCTAGACAGACACATT
GACTAGGTACATGGATGTGGTGTCTTACGAGTCAGCACTCCAGGGCCCCAGTGTTGTCAGAGTGGCACTGACAGTGCTTTGCAGTGACCTACAA
ATCAAAAGCAACTAGAATAGTTAGTACACTTACTCCATGTTGGTGGACACAGAAAACACCGAATAATAGAGATATTCTTTTCTGGTTTTTTTTG
TTTGTTTTTTGTTTTTTGTTTTTGTTTATCGAGACAGGGTTTCTCTGAATAGCCCTGGCTGTCCTGGAACTCTCTTTGTAGACCAAGCTGGCCT
TGAACTCAGAAATCCACCTGCATCTGCCTCCCAAGTGCTAGGATTGCCGTGCACTACCACCGCCCGGCAGAGAGATTCTTATCTTAGTCCAAAT
GCCCAGAAGTTTGCCTCACAGTGAGGAGCCTGATGACACAGAATGCCATCTGTATAGTGTCTCCTCACACTCTGTCTAGGAGTAGTTAGGCTGC
CTGGGCCACATGGGAGGGTGAAGACCACAGATTCTCACACAGATCATCATGATGGACTCTTAGTGTCTGCATTATTTCTGTTTTGTCTTGCTCC
CATTTCTCTCGTTACTCCTGATTCTTCCTCTAAATCAGTCAAGAATAGAGCGAGATCCGAGTAGAAGCATATAGTTAACTCAGAACATCAAGGG
CATGCACTGCGTTCCCTCTGCAAAGATTACCTTCTCCAAAATTGTTTTTTGATCATTTTGGTTTAGTCACTTGATGTCTGTAGCATGCTTAGCT
CTGCACCAGGCTTGTAAGGTGCACACAGCTGGGAAGCAGAGGACCAGCAGCCAGGCCCTGACTTCAAGGGGATTATGCCTTTCATACCTTCACT
GTGAATTCTGTGTTAACACTGTGGAACTCTTTTTAGGGACTTTAGAATGTTGCCTTTTCTTTGTTACGTGAGACACGATATCCTGTTTTCTGCA
AGAGTTCTAATGAGGTGGCTTTGTTGCATTAAAAAGATGGTTTGCAGTGAAAGTTCTCATTGGTTTTAGGTTTCGGAGAAAATCAGGGTTTCTC
CCGGGTAATACCTGTGACACTGGGAATTGCTTGTTGCAGGAGACTATTCTGTGCCTTGTAAGAAGTTTGACAGAGTACAAGTACCCCTTTCCCT
AAGTTTTGGCAACTGAAAACATCTGCAAGCATTGCCTACTATGTCTCCTGGTGGACAGGGGTGCCAGGTGTGAGCGTGACCCTCTAATTCTAGG
CTCACATCTTCTGCTTAAACAAATCAATGAAATCCCCAAGAAAAAAAGCACTTGGAGCAAGTATGTTCTGTCTGGTCCTTGCCAAAGCTCAAAG
CAACGTTGTACCATGGAAGAGTTAAGACAAAGTCAGCGAGGTACATACCCATCTGATGGTGCAGCAGTGGTGGTGAAATGCCTCAGTAGATTAT
GCCTTGGCGATAGTTTCCTGTTGGAAACTCATTAAAATCCTTCGCTGTCCATAAACAAGAGAACGCCTTGGACACAGCATGCTGTAAATTCATC
TTGAATGATTTATGAGGAAATGGGTTCCAGATTTGGTGATCTCAGCTCAAGTAGTAGGCGACTGCCTGACAAACATTCTCATTCCCAAGAACTT
GAAGTCAACTCACTAAGCATTTGCTGAAGTGTAGGTTGTGAGAGCTCTGGAGTGTCTAATGTGTCCTGGTAAGACGAGCGCAGTGCTTAAGAAC
TGCCACCAGCATCTCCTCAGCCTGTGACAGCTCCTACGTGGATATGAGTTACCCTTTATGGTCTTGAATCTCTTCCTGGTCTGTGCCAGCCCTG
CCTTCCCCAGAGAGTGTATGCTATTAGACATCATGTCACGTGGTTCTTATTTGACGCTTTGGTCCCAAAGCGACTTTTCAGAGTCTTGGCAGGG
ACACTTCCTGCAAGTTCTGTCTGCCCACAGTGCACTTACAGTGGTAACATTCATTACCTTCCCTGTATGTCTGAGTTCTCACTTCTCACCTACA
TACCAGTAACATTAGAAAATGCAGGACAGTATGGTGATGCACAGCTTCCAGGTCATCCTAGTCTACATGGACAGCCAGTTACATAGTGAGACCC
TGTCCCCAAAAAGGGGGGATGGGGTCGAGGGAAGCAGGACATATTGTTGATGAAAGTCACTGGCAGAAAGGTTGGGTTTGGTACAGAGAGAAAG
AAAAAGAAATACAGCACAAAACAGACTTTTTCCTCATCCGGTTGTCACTTCTTCAGTAACTCCTGTGTGCTGGGCATTGGCCGTATATCTGTGA
AGAAATGGACCTTTGTCCATGGGGCAGAGGGACAGTAGACAGGCCACCTCTTAATGTGGCACAGTGGGTCCCAAGCTGAAGGAAAGCATAGAAG
CCAGTGGGCACTGGGACATGGTGGGTTCCTTGCTTGTCCGGAAGAAAGGGCAGATGTGGTCAAGGCCTCATCCCCAGCAGGAAGGTAAGAGCTG
ACGCAGGAAGAGTGAAGTAAACAGAGCAGCCCTGAGGAGGAGGCCCCTCAGGATTCGGATAGGAGCAGCTGGATCTTTGGGGATTTACCAGATG
AGGAGCCCTGGGAAGGCAGGAGAGAGGAGGGTGGGGCGGCATAGCTCAGCCTTTCCGTCCACCACTGCCTCTGGACCATAGCAACACTCTCTCT
AAATGAGCATTTAAGAATGTCAAACTCTAATAGAAAATTGAAATGCTAATTAGCAGCGTCAAGTGCTTGTGCTTCTGGAGGCTGTCATGACAGC
CTCTGGTCCTGCCCAGCTTTACTTTCACGCAGTCACTACTTCTCAGTTTTAATGCGGACCATCCTTTTGTGAGTAGTAAGTGCTCACAGTGGGA
GTGTCTGGTAAATAGTCCTGGGGCTGCATCCTCTCCTGTCCAGGTAACCCAGCATCCTCCTTAGAGGGCACTGTATTGGAAGGTTTTGCTCTAG
TGTTGAAAAACTCACTTTATTGCTCATATTAGTCCTTGCGGTGACTAAAGAAAAACCTAAGAAATTGGTGGCCAACTTTGGGCAGTGGTTGGCC
GAGGACTGAGATACCTCCTCATCCTTGCCCCTTGGCCCTGCTTTGATCAGCCTGATGCATCTCCTGCCCGTCTTCCGTGTTAGAGCAGCCAGGA
AACCTGCATGCTCACAGCCTCCTTTCTCTTCCATCAGGAGCTTGGATAATGGGCTGTGTGCAATGTAAGGATAAAGAAGCAGCGAAACTGACAG
AGGAGAGGGACGGCAGCCTGAACCAGAGCTCTGGGTACCGCTATGGCACAGACCCCACCCCTCAGCACTACCCCAGCTTCGGCGTGACCTCCAT
CCCGAACTACAACAACTTCCACGCAGCTGGGGGCCAGGGACTCACCGTCTTTGGGGGTGTGAACTCCTCCTCTCACACTGGGACCCTACGCACG
AGAGGAGGGACAGGTAAGCCATTGTCAATCAGGATGGGTGAGGGCACAGCTGTGCTCTTTCACAGTCATTGCTGTGTGTGGATGGGGTGGGTGC
AAGCATGCCACAGGTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNACACACACACACACACACACACACATACATATACATATACATGCTTCAGTTGACTCATTTTAACAGAGAAGTTT
TGGTCAACTTTAGGCCCAAGTTGACTATCCAAGAACCAAATGCCTGGCTTCTCAGGAGCAGGAGACCTCTTGTCACTGCTCTGAGAATTCAGCA
CCAGTTAGTGCTGCTAACTGCACTGCAGTGTCCACTGTGGCCTGTCAGCCAAGGGCTCCCAGTCCTGCCTACCCTGAATAGGGCCAGCTCTGGG
GGTACCCAAGCACTCCAGTGTGATGTACCCTTCCTGACTTACGGGGTAGTTTCTGTCCCTCTTCCCACTCTTCGGCCTGCCTGGCCAGTGTGGG
TGGTTGTCAGCATGTTCCTCATTTCCGTCTGCTTGTCAGTATTCCAGCCTGGACAGCCCTCGAGTTTTCATTCATCTCTATATTCTATTGTTAC
ATTCTCTGTGTGGGTTGTTTTGCTTTGTGTGACTTTTGAGACAGGCTGCCATTTTGTAGCCCAGGCTGTCCTCAGACTGTTAATAATCCCTCTG
CCTTAGTGAGCGTTGGGAGTACAGCCATGAAATATCACACCGGCTGTGTGAGTTTCAAGCTGAGCTCTGTGTGCCAAAACCATTTCATATTCTC
TCTCGTCCCTTCCTCCCCCAGGGCTCCTTCTGTTTCCCACCACAGGGCTGGGTTTCACCCGCACATCTATTTGCTGACTTAGCTAGTGCTCTAT
AACGTATCTGCCATACATCCTCACACACATTCCCTACAGTCTTTGTAAGCTGCCTCGTGTATTTGTAGTCTTCCAAATACTGTCCCAGAGTGTG
AACCATGGTAACCAGATATTTTGCATTATTGTTCCAAAATTGTTTATTACAAAAGTTTAAAAGAATGTAGCGTCTCTTGGCTCATCTGGGGGC
AGATGCCTCGTGTCTGCTCTGACAACCTATCATGGCTTTTTACCCGGAGAGCTGACGCTGCCGAGGCTAGGGCTCTTTCTCTGTGGACAGCTTA
TGCAGTGGAGTTGGAAGAGGGTCCTGACCGGCCTTTGGACACGTGTCTCTTCCAGCACTGCACTGTCGATGTCTACCCTGTAGAACAAACCCTA
TGCTCACCCCTGTGCTGTAATGACACCAGCTTACCCTCAAATCCAGCCTTGTATGAGGCCCTAACCAAACCTCCATGGCCTGTACCTGCCCCCC
ACCTCAGGTGCCTGGAAAGGAAACAGACAAACAGTCTAGGGCCCTCTGTCCTTAGAAAATACAGAAGAAGAAGGAAAGCCAAATGAATACTCAA
CACACATGCACCTCCACTGTGAGAGGTGTTTGTTGAGATTTTTATGTTTGCTGACTCTTAATTAAGCAAACAGAAGCATCAACCCTGTTCATTC
ATTCATGAAGGCTGGATGTGAATCCCAAGTGAACATGTCTCATTCATTAAGGTCACCAGCATGGGCTCCTTGGATAGACTTAATGGAAGAGGCC
ATCTGACTCCTTATATTATTTGAAGTGTACACCGCCAGTACCCTGGGGCTGGAGAGGTGCCCTGGCTTAGGGGTTAAGAGCCCTTACTGCTCTG
ACAGATGACCCAGGTTCTCTTCCCAGAACCTCCATCAATGGCTAATAACCACTGGCAACTCCAGTTCAGAGGAAGCCAGTGTCCTCTTCTGGCC
CCTACAGGCTCTGGCCCACATATGGTGCACATAGGCAAAAGCACATATGTTTAAAGATATATTTTCAAGAGGCAGAGCCTGGGATATGGGCGGG
CGTTCCATCTTTGGGGAGGGGGAGTGGTTGCATTGTGTGTCCTGGGCTTTCTGGATGCCTTGCTGTCAGACCCCTAAGGTCGTGAGCAGTCTTC
ATTGCTTCCTCCTCCATCCCCAGGGCATAAAACCCCCCAGTGATGGAGAAAGAGTGCAGGAAGGGCTGTTTTCCACGAGTGAAGATGGCTTGGA
TCTGCTCTTATAAAAGAAGAGACATCTGTGAATGAAGTACGGAATCAGAGTAGGCATGGCCGTAGAGGCTCCCACAGTGTGTTCTAAGCCAGAC
TCCCCTAATCTCAGAGAAACCTTAAGAAAGGAAGACTGAAGGAGCCCAGCTCCCCGGTCAGGACATGCACCTGAGACAGATGAAAGGCAGGTCC

TCCCTGGAAAGGATGATCCCCACAGCAGTGTGGCCTTGGGAGAGGGGAAGCCAGGTGGTGATAAGCCATCACACTGGGAAATGTGCCGAAATTA
AAACAAGAAGCCAAATTACAGAGAAATTCAAAGCTCCCATTAGGTATCACATCCTGTGTAACAACCACAAAATTAACAGCTTAAACAGCACATA
CATTTATGATCTATATCTATTACCTGCGTTCTGTGGGTCTGAATCTGGAAGGGAGAGCCCGGTTAGAGGCTGTAGGCATGAGTGGCAGAATCAG
GTCCCTGGCCAGGGTTAGCCAGTCTGTCATCATGCTGGCGTGACACCCTCCTTAAGGTAGTGTGGAAGTAGAGAAGTCACCTTCTTCTGAAACA
TGTGTCACACTGGGGACATCTGTCCCCTTTGTACACTGTGTTAAGTAAATCAAGTTGTTATGTTCCTAAGGAAGAGTGTGCTGAACAAGGGCAT
GAGAACCAGGCAGGAGTCACTGTGCTCTGTCTACTGCATGGGGCAAGCCCTAGACTGAGTGGAATGCTGGGCTGATTTTTGCTGTTGGAACTTC
TGGGATGTGGGACAGTCCATGGGAGTCGGCAGGTGAGAGAACCTAAGATGGACGTGAGGATGAGGGAGTAGCCAGAGTGAGAGAAGTAAATGCA
AGGCAGAGGAAGAACCAAGGGGGCAGGAAGTAGCAACAGCAAGACCCCGGAACTGACAACCATGACCACAGCTGCGGGTGGGGGCCAAGGGCAC
TGCATCTCCCACCTGGGGTGAGCATTGCAGAGACGACTCGATGTCCCCGAGCCACAGAACAAGTCTCTTCCATTCACTGCTACCTTGTGCTAGG
GATGGAAGAGTGATCCATTTACCCAGACCTTAGCTCAACCTTCAGGGAAACACGTGGGGGATAAAGTAGGCCAGTACTTGCCACAGATTGATGT
CAGTCAGAGCCTTGTCTCTTACTCAGTGCTCATCCAGAGTCCAGTCAGCTCTAGGGTTTTGTCATAAAGCCTCCTCTATACAGACCACA
TTATAAAGCCAGCCATGTGACTATGACCATATTAATTACAATGCCTCAATATGTTTATTAATGCTAAGTGTAGATTTTTAAGGATGAGACTTTA
ACAAAAATGTGATTTCTTAGTATCAATTCCCTGTGTAATAGTCTCCGCTCTTTTTTTTGGCAGGAGTGACACTGTTTGTGGCGCTTTATGACTA
TGAAGCACGGACGGAAGATGACCTGAGTTTTCACAAAGGAGAAAAATTTCAAATATTGAACAGCTCGTAAGTTTGGGGTGGAGCACACATGCTC
TTTGGTTTGGGGGAAAGGTTCTCACAGCAAATGCATGTGCTATCTGAAAGTAAGGAAAGAATGCCTTCTGCACTCACTAGCTCATGGCATTCGA
GCCTGAGCGAACTGAGGACAAAGTGCAATACTACATGGTACTAAGTGCTAAAGAGGGCACCAGAGTCCTTTTAGAGCCTACTTCTTAAGTGTGC
ACGCGAGAGAGCAAGCTTCTGTGTGTGTGTGTGTGTTGCAAGGTCAGAGGAAGCAATCGGGTGTCCACCTCCGTCACTTTGAGGCAGCGT
CTCTCCTTGATCCTGGAGCACCTAGGTTTCAGCTCGGCTGGCAGCCAGCAAGCTTAGCAGTGGCCTCCCCCCCCCTCCCCGCCCCACACCCCC
CTCGGCCAGCACTGCAGTTACAGGCTTGTGAGAGACACGCTGCTGGGATGCAGACTTGTGAGCGAGCACTCTTAACCACTGAGCATCTCTCTAG
CATCTCTCTAACCCCAGGGTCCGTGCGTTTGCATCTCAGTAAAGAACATAAAGCAGCCGTGCCCATCCCCGGGAAAAGCCGCATTCTCAGATGA
CTGGCGCACGGCTTGGGTGCCAGCCACGTGCTCTCTGCTCTGAGCTGCTCTCCATTATTCAGGTGTGGGCATTGTCAGAGGCCTCGCCCTTCAG
GCCAGCAACCAGATCCCCCCATCTTCACAACTGTGAAGCCTGTTGAGGTGGTTTCCTGAGGGAAAATATGGGAGTGTCTGTGCTCTTAAGAAGA
AAGCAGAGGCCTTTCACCGACTTGAGAATGTGACCACCAGGAACAACTGTCACCAGGGAGCAGGCAAACTTAGGGTAAAGGTTAACACCCTTTT
CAAGCCCCACAGTTAGCACCTGTGGAGGAAAAGCAGTTGTGCCTCTGCTTTCTGTCAGTGCCAGAGCATCACCTCCCTCAGCATGCATAGATGA
GAGAACGGAAGGAAAATCCACTCCCAAGGAGATGGTACTGTCGTGCCTCAGCACCTCAAGTGTGGTGATGAGTGCTCCCCACTCATGGGCAAAG
ACTGCCACCTGGGACGAGGCACCTGGGGTGAGGTGGGGTGGGCGCTGCTCTTGCTAAGAAGTCTGATTGCGATTTCTCTGGCTGAATTTCAAGG
CAGTTGAATGGCTTGAAGCTTGGCCCTTCTGCCCCCCCCCCAAAAAAAAAGAGGAACCTAGGGGTTGAGGTAAGAGGTAACACATACTGGAAAG
AGGAGGGTGTGGCAATGGAGAACCCCCTGTAACCTCAAGAGTGTCTCCATGGGAGGCCTGCCCTTCTCCAGGGTGCCCCTGGCTCTCAGCACTG
CACGGAGAACATTTTCAACAGCAAGACCCCATGCCTCCAGACACACTAGTAACTCTTCTAAATGCCAGCAGGCACTGTCTGCATAAAGCAGGAG
GCTTAAAATTAGGAGCAGTTGTCAACACCAGAAGAGAGGTGGCTGTGTTTTGGTGTTTTAATTTATTGAAATGCATGGCAAAGGTGTGTATAAC
CACGCCTGGTGCTGGTTGGGCAGCAGTGTATATGCTGACTTACTGTTTCGTAACCTCACATTTAAAAATACAAAAAGTGATACATTGATGTTAC
ATGTATTTTACCACAAATTTCAAGGACAGAATTTACTGTATTCTCACATACTAAGCATGTCCGTGCAGCCAGAATTACCTCCCCCTCCACCCCC
AGAGAGCTCCTGCAGGCACAGGGGTTTTTAAAATAGTAAATGGCTGCCATTTATTGAAAGTGCCGTATGCACTGACCATGTCATTGCTGTCGCT
GATCCTTCACAACAGCTGTCTGAAGTATGTGCCGTGACATCTGAGAGCACGGGTTAGGGAGCTGCCCAGTGCACCGTCCTGGCAGGTGGCAAAG
CCCAGGGTGAGATGTGGGGCTGAGAATTCAGAGTGTGGTGTCAGGTGTGACCTGGGAAAAGCCCAGATGCTGCCATCAAAGGCAGCTGGAGTGT
CTTAAGTGACGGTGGGAATGGAGGGAGGTGGCTGCAGCGTTGGAGAGAGGGGCGTTTGCCTTTGATCTCTTCCCGTTTATGATTGCTTATTGTT
AGTTTGAGTCTCAGATGAGCGCTGCTTGTCAGAGTCTATTGACTGGGTTTTGTGTAAAGCTCCCCAGTGGGTACAATGTCCTTTAACTGACAAG
GTCACTAGAAGTTTGAAACTCTGTAGGCCCTAGGAAGTAAGAAGTAGAGGGGTAGAAAAAGGCACATACAATTCTGGGCACCTGTGCACACTCC
CGACATAGGCCTGTTTTGAGGTTGCAGCCATGGCCCAGTTAGTCACTGGCAAAGTCAAGTCCCTGTCATTGTCCTTTGTTATGGAGGAGTCTAC
ACAGTCAACATGGAGGAGTCTACACAGTCAATAAAGCGGATTTTAGAGGAATGTTTAGGGGATGCAGCCTATCTCACTGTGCATTTTATTTGAC
TGCATAGCTTTTAACGGTTGCAGAGTTCTCTGGTCCTCTGACCCTGTTCTCCTAGAAGAGAACATTGCTAAGGGACTTTTCCTTTAAGGATAAA
ATTCTTTGTCCTACATGGTATTTAAGTGCCCCTTTTCACGGTTATGGAAAAGAAAAGTAAGGTTTGTACAGCAAAACGATATCCTGGAGTCAAG
GGTAATAACAGGGAAGGGAATACAGAGCAAAAGACAGAGCAGATGGTGTGAAGGCCTCCCTCCCTCCCTCCACCACCAGCCCTGACAGGAG
AGGAATGGGGCTCTGTCCTCCCCGGGGCAGCTGCCCCCCCATGTGTTCCTTCTGACTACCCCTCCCATCAGGACGTGCTCAGAAGGCTCCTCCC
AGTGCACACAGGGTTGGAGGGGTCCTCGCTGACCCGTTGGGAGTTCTCAGTAGTAAAAGGCTTGCGTTCACAGCACTGTAAGTTCACCTTCTCT
CCCCACCCCCGTTCTCACACTTTGTAACTGGTGATTTACCCACCTTGAAACAGCATGTCCTTAAAATGCAGTGGGTGTTTTACATAGGTGCAAT
CATGGCCTGACCCAGGACCTACTGAAAGCTAGTTTCTGTCATAATCAGGAAAAAAAAAAATTGGTTTGATTTTTTTTTTTTTTTAATAAGTTT
GGTGGTTTGGTTTGGTGTTCAAAACAGGGTTTCTCTGTGTAGTCTTGGCTGACCTGGAACTCACTCTGTAGACAAGGCTTGTGTCCAACCCAGA
GGTCCTCCTGTCTCTGCCTCCCCAGTGCTTGAGATTAAAGGCATGTGCCACCACCACCCAGCTGGGGAAAAAAAAAGTTTGTATTACCCAGACA
TGTGATAAAAGTAGTTTCAAGAGTCTTATCTTTGAGTAAGAAGTACAGCTGTGGAATGCAGGAAGAATCCAGTATCCCTGGCTGGCCAGACAGC
TCAAGGCTGGCTGCTCTTGGCAAAGCCACTTCCTGCCTCCATCTGATCTCCAAAGTATCTGGACTTCCAGCACCTGAAGCCGCAGCCCTGTGAG
GGACTTGAGGATTAAAGACGGGATGGAAGAACAGAGTCTGTTACAAAAACTTAGAAGCCATTCTCAACCAGTGTCGGATTAAATCACGGGTTTG
GGTCAGACAATAAGACAGTATCTTACCAGGTACGAGTGAATTAAAAAGCTGAACTGTAAGAACAGTTTAAAGAACTGCAGCTTTATAGGCTGGA
GAGACAGCTCAGCAGCTCAGGCCAGGGAACCTACTACAGTTCCCAGCAGCTCAGGCCTGGGAATCTAGTCCAGACCCCAGCAGTCAGTCCTAGG
AACCTTGTCTAGTCCGCAGAAAGCTGAGTGTGGCAGGCAGCACTACTTGTAACCCATTCCTGGGAAAGCAGACAGACAGGAGGAGTCACTGCTC
ACCCAGTCTCGCTAAATGAGCTAGCTGCAGGTTCAGTGAGAGTGAGAGTCCCTTTCTCAAAAACAAAGAAGAGAATAACTGAGAAAGATGCCCA
TGTAGTCCTCTGGCCTCTGTAGACATGCAAACACACTGGCAAGAATACCTGAACAGCATGCATCACACACACACACACACACACACACACACAC
ACACACACACACACACACACACACACACACACAGGCACAGATTTTCAAATGCTGATTAACTACAGTAGCTCAAGTCAAGAATAAGGGTCCTGGG
CTGGAGAGACGGCTCAACCGTTAAAGGCTAGGCTCACAACCAAAAATATAAGTGTAAGGGTCCTGTTAGAGATCCCGCTCCAAACCAACACTGT
GTGCAGGACTGTGGAGGTGAATGGGTGCTGCCAGTGAATTAAATAGTTTTTGCTTGTTTATTTACCTAACAGCTTGTAGTAGATATTTTGAGTC
TAGGACCAGTGAGAATAGAGTGTGAGAAAAATGCCACAAGATGTGACATTTGCCTTATAATGTGTGACTGTTTGTCATTTGTGTGTCACTCTTG
TGAGGGGGAAAAATGGCCCAGAAACGTTAAGTCCAGAGTGGTGCTATCTTTCTTCTGAACAACTGTTACATTCTAATGTGTGTAAACTTATTTA
GATGGCTACACCAAAACAAGACAGCTGATACTAACTTAAATTGGAAATTGCCTCATTAGTGAGTCAATTCATGATTACTCAGTCACCTGAGTAA
GACTGGGCTTGTCCCCGATTGCAGCAAGATCCCCCAACATCCTGACATCACCTGAAATTGGTGCTCGCTCTTTTTCACTTTGATTTAACTAGAA
GTAACTTGATGAAGGTTAGCATGCGTTAGGAGACAAGCCTGGGCTGCCAGCTCTTCATTCTTCTTCACTGTCTGGAGCGGTTCCCAGGCTGGGA
GCAGTGAAGGTTGGTTGCTGTGAAGAGCCAGTGGGTGATCTTTATGTTTTTCAATGATGAAATGTCTCCATCTAGTGGAATTTCAGAGCAGTAA
ACACTCACTATTAAAATGAAGGTAAAGCCTTTTTCTTAAACACATGGTGGTCAGTATAACTTCCAATATGCATTTAGATGCTAGACTTACAACT
ACATATATTTCTGTGGGGCTAGAAATGGGAACAGTGCTGACTTAAAATGTTAACTTGGTTTTCTCCTTGGGGGTGGGGATGGGCTCCTGGCCTT
GTGTGCACTAGGCAGGCACGCGGCCACAAAGCATCTACGTCATGAGATGTACAAGGCAGAGGCACACATGCACACATGCACGAATGGTAGCTAA
GAGAGATGTTCACTTGACAAAGGACATGGCTCTCCTTGGGGGAGTTTTGTCTATGTAAATTCTTTGATGTGTATAAATATTTCAAATAAGAATA
TGGACACAATGTGATTATAATTAAACAGTTTTCTGGGTAAGAGAACTACAGTATCACTCTCATGGTTGATCTGTTAGTTTAATAAGGTTAAAAA
GGAAAGATGCTAGGAGTTTCTTTGTTTGTTTGTTGTCTCACTATGTAGCCCTGACTGTCCTGGATCCCACTTTGTAGACCAGGCTGGCTTTGAA
CTCATTGAGATTCACCTGGCTCTATTTCCAAGTGCTTGGACTAAATGTGTGCTCTAACACCCCTAACCAAGAAATAGGTTTTATAATCCCTCAA

AATTAGAGAGATAGCTCAGGAGTTAAGAGTGTGCTGCCAGCACCCACATCAATAAGCTCATAACCATCTGTAGCTCCAGCAGGATAGAGGTCTC
TGGTATCCAAGGGCACCTCCACTCCTCTGCACATTACTGCATAGAGAGGCACACATGCCTACACATAATTTTTTAATATAATTTTTTAAAACTT
ATATTAGCACTTTGGGTGTGTGTGTGTATGTGTGTGTTTTCTACTGTTATTTATCTCATAGCCACACCCACTTGGATGAGTTCCCATTTTAT
TCTTTTATTCTGTGACTTTCTAAAGCCCCACCAGATGTCACTGGTCCTTGGTACCCCTGCTCAGAAGTTTTTTCTGTAGGGAACCTGAAGGAGG
GAGGACTCTGGCTTAACAGGAGGCCAGGGTGTCTACCTAATGTTGACCTGGGGAAGGTCTTCCCAGCCCAAAATCAGTACGTTTTCTTCCCTGA
CTGAGCATCAACAGAGCCCAGCCAAAGACAATTTTAAAAAAAAGAAAAAGAAAAGAAAGGCCTGAGGTTTCTCTTGTTACCTTCACAGACTAAA
AAAAGAAGAAAAGGAGGTGATGTGTCTGTAATGGTCAGAGGCTGAGGCGCCTAATATGGTGACCGGCAGGCCTGTTTCCCTGGCCCTCATAGAT
AGAGAGGCTTTCATTTGGTGCAAGTCACAGCTAAACTCCACGCACATGATCATTGGCCCACCCACTGTTAATGGGAGGAAGCTCACATGCCATA
AACCTTCATGAATCCAAGCGTATGGATAATAGTTCTATATATAGTGACTGTAAACTGAGAGTCGGAAGTGCCCTTCCTGATTCACACTCTGAGA
ATTTTGCTGCAGTGGCTCAGAGATCTCTTCTGCCCTCCAGCTACACAACTGCCTGGCCTCCATCTGAATCTGGGGGTGGGGGTGGGGGGAGCTA
TGAATGTTTAATAGAGTAACATCCTGTTGAGAGTGTCTGAGGAAATCCTGTTATGTGGTGTTCTTATACTACCTGCAGAAGGTCATGTCTTCTT
CCTACTTCGTCAAGAGCAAGCTTGATAGGTCCACTAAGCATACATCCAACCCTCACTGGGCCTCCTACTGCTTCTCCAAAGTAAACTGAGGCTG
GTGTGTGTACTCCACACACACACACACACACACACACACACACACACACCCCTCATTCAAGATTGCCTCCTACCCAGAAAGATGCTCCTCCCCGAG
CCCTAAGTGGGAAAGTTTCCGTTTCAGGATCTCCTGATGATGCCCTTGAACTCCTCAACCTCCTACTGGGATTTCCACCCTTAGCTTATGTGGG
GCCGGGTATTGAACCTAGAGCCTCGTGCACGTAAGAAAAGCACTCTGACTTCAGCGCGTGGTGCTTTGGATTTCTTAGGGCCCGTGTTGAAAGT
TTGCAGAAGGGGGCACAAGGCTACAGAAAAGGCATAGGGTCGGCCTGCAGAATTCCCAGCTGGATGGTGCGTTCAATTCATGTCCCTTCTTTTC
CTTTGCAGGGAAGGAGACTGGTGGGAAGCCCGCTCCTTGACAACCGGGGAAACTGGTTACATTCCCAGCAATTACGTGGCTCCAGTTGACTCCA
TCCAGGCAGAAGAGTATGTTGTTGTTGTTGTTGTTGTCTGTCTAAATATCTGCTTTTAATTGTCACATAAAATGCCAGTGACACAGCACAGGAG
CGAGAAGACCTTTCCCAGTGGTTAAGGGTTGAGAGGCTACAGTCCTGCTGTGCTGTCGAGTCTGCGCAGTACACTGTTATTCACTTCGTGGTTT
CCTTTGAGCCCGTCCGTTTTCTGATTGAGAAGCTCTATGTGAGTACCCTAGATGAAAACCCAGTAACTTGCTCCAGATGAAAAACCAATGTGGG
GAAACCACAGCTGCAGTGTGTGTTACTGAGAGCCCACCGTGCGCCTGCAGTCTGCTCCCTGAGCACTTGGGAGGCAGATAATTATGAGAGATTA
AGCCCACACACACACACAGGAGTCCTCTGCTTGATAATCAGAAATACTGAGCCTTCTGAAAAGACATAGCTTTTTGTTCCCCAGGCAGAAGAGC
AACTTGGAAACTACTGCAGTTGTGGGCTTCGAGGGATATTTTCCTTGGACTGAGGTCTCGGTTGGTGTTGTGGCTGGTCGACCTTGACCAGCAG
TTATTTGGCCCCACCCTCCCACTGGAGGGAGGCAGTTTTGGAAAGTGGTAGGAGTCTGGGGCTCTCAAAGGATGGCTGACTGGTCATTGTTCAT
TCTCTTTCCAGAGAAACCTGTAGGAACTCTTAGGAAATGGGGAGGGAGGTTGATGTCCCAAGCTCAGGAACATGGATGGCCTCTACCCCACCTA
CAGGGACAGACCTCACCAGAAAGAGAAAGGAGTCACTGTCGGTTGCTCACGGCCTGCAGCCTGCTGTGGATTTGCGGAGGCACAGCACAGAGGA
GTAGACCTTCACCCTAGCCTAATCCTCATGCGTCCATCATTCTTCTTTAAGTCTTTTGTACTCCTACACTTCGATCTGTTTCTGCTTCTCCAGC
ACTGTGTTTTGAGCTGTTTTACCCCCTTCGTTACTAGTGTGTTTCATTATCAGAAAATAGGAAATATGTGTATTTGTATTGAATTTTTAGGACA
GATTGGTAAATATCTCCTGTGTCTTTTCGGAATTTAAAACTTAACTACAAAGTAACATTCCTTTGATTTAACTGAGAATCCACTTGGGGGTGCA
TATTTAAGTCATATTTATAATGATAAGGTTTTTTTTTAATATTTTGGGCTTTTTAGAGTATAAGTTAGCTTTTTAAAATACAGCCTGTGGTTTT
TACACGTGCAATTAATCGGTATTTTGCACAAGCAGCGTGTGGTTAAGTGTAACCTCTTGTTCTGCAGGCCTTCCTCTCACCAGTTTTACACAGC
ATTTTAATTGAGTTACTGATACAAACCAAAAAAAGACATTTCTCACATAGCTGGTGTCGTATCCTTTACAGCAGCTATTGCTACGCTGGGATTG
TGGAGAGTTTGGGTACTTCTCAAGTCACTGAAGGTGACGCTCCTTCGGTGAAATTCTTTGACTCACAGAAGGATCTGATGGTGAACTTCCTAGC
TACATTCAGGCATGGTGAATTGAAGCTTCATTTTTAAAACCATTTGCTTTCATAGATGAATACTGTGATGGTTTGGTCCTGAAAGCTGCTCCTA
CTCACAGATTCTGGTGGAATGTTCCAGAACTCTCCCTTGGGCTCTTGGCATACTTATCCTCTCATATACAATCCAGTGCTGAAATGTGAACGGA
TTGCCGGGCGTTGGTTAGGACTCAGCAGCTCAAGTGGAGAGACAAAAGACGCATTCCGGTCCTGAGGAGGCCTGTGAGGCTTCCTGCCACGGCA
CAAGTGTGCTGTCAGTGCTGTTGCAAGGGAATGTTAAAATGTCTGCACCACCGACTCATTTTTATGGACATGCCCATTAACCGTGCACAGCTTT
CTCTCAGATGTGCAGTAAGCAATCCCTGCAGCTGTGTCAGAGAAGCGCAACTGCAGGGCACAGGCCAGGTACTTGGTAAACGCTCCTCACGAAT
GCTGGACAGGGAGAGAAAATCAAACCAGGCTTCCAAGAACAGCAGCCATCTCAGATCAGGGGTAGAGCTGAGTTCCCGTCTTCAGAATTCCTGT
AGGTAGAGACTAAGTAGAAGTGTTATCTGTCTTCCTTCTTTATCCATCCTGAGTGGGCTCCTTTAAAAAAAAAATCATGCTTGATTGATGATCC
TTATACTAGAGCTGAGTCTTGGTATTTCCCAGGAGTTGTAATTATGCTCAGAAATCAAGGGTCGTACAGCTGAGCTATGGAATCGTCCCCTGCA
GTTGGCATTTCAAACAAGGTGGTGGGTTTCTCTCTGTGCGTGCAGGTGGCATTTCACACACACATCCCTGTCGTCCTGGAGGGAAGGAACACAA
TCCATGATTCAAGATTTTTTTTTTTTTTAAGAATGGAAGAGATGCAGAGTGGATAGAATCAGGAAAGATTGAAAAAGGACTGAATGAAGCTAGAA
AAAACTAGTTTGGGGCAGTGGAAGCAACATTAGAGGCGAAGGAATTTGTGGAGGAAAAGCTAGCTACATTGCTCAGTCACAAGTGTATTTATTT
TCTTGCCTGTGTCTCCCTTGAAGGTGGTACTTTGGAAAACTTGGCCGCAAAGATGCTGAGAGACAGCTCCTGTCCTTTGGAAACCCAAGAGGTA
CCTTTCTTATCCGCGAGAGCGAAACCACCAAAGGTAAGCTAAGGAGAGGGCAAAACTGATGTGCTGTTCAGATCTGAAGGTCTTTGGGATCGGA
AGGCGTGGCTCTTGCCTGGTCCGGGGCCTTCTAGCCTGAGCCTCCTGCTGCTCTCCAGCTCCCCTGAAGACGCTGGAACTGCATTTAGCTCCCA
GAGATGATCGGGCTCAGAGGGAGGCGCCTCCAGAAACAGAGGCCAGGCTTCCGCCTCAGCTCAGACTCCGTCCTGTTCTCCTGTTCGAGTGAAG
GGCGGGAACTTGGTTTTTCTTACCTTTTTGATTTGGGGTGTGTGTGTGTGTGTGTGTGTGTGTATTTTCAAGACAGTGTTTCTCTGTG
TAGCCCTAACTGTCTTAGAACTCACACTGTAGACCAGGCTGGCCTTGAACTCAGAGATCCACCTGCCTCTGCCTCCCAAGTGCTAAAATCAAAG
GTCTGCCTGCCCTACCACCACCCAGTTTAAATTTGTTTTTCTTTCCTTCCACTCTGTTTTGTTAGTGGAGGACTCCTTCCTCTTCCCTCTGTTT
AATAACTCACTTCAGCAGGCAGAGGGGCAGAGAACCATGCTGCCACACACTGGTGACCTGTCCCTGTGCAGATTGCCAAGCAGAGCTTTGGAGC
TTCCTGCTAGGGGATAGACTTCCATTTCTTTTGTTCCCACCCTCTGTTCCTCCCGCACCCCTGCCTCCCATCAACCACCTCTGTCCCCACCCCT
GCCTCTCCACCAACCACCTCTGTCCCTACCCCTGCCTCTCCACCAACCACCTCTGCCCCCACCATCCCTGCCTCACACACACACACACACACAC
CCACAGCCCCACCACACACACACACACACATATGCCATCCCTGTCTCCCAGCCCCTCACTATCCCTGCCTCTCAGCTAGGCCACAGGAAATGAA
AGCAGGAGGCAAGCTCACCTGGAGTCTGCTCTTCATCTATCCCAGTGGGATTTGGTCTGTGCAATATTAGACAACACAAGAAACTGAAAGGAAA
CTTTGAGAAAAACCAGAAGTTTTTAGTTCCAAGAGCAAAGTCAACTGTATTGCTAACATCTCTGAACACTGGCAGGATAGCAAAAGTTGTCTTT
GTCCTGTTACAGAGTGGAGATATATCTGTCTCTTTCGTATGTGTGTGTGTGTGTGTGTGTGTGTGTGCGCGTGCGCATATGGTTTGTAATAATT
ATTAATCAGAATAGTCACATAAATGAGGCCTGCAGAGCAGACTGGGGCTCCGATGATTGGTGTGGCTAATGCTTGCACGTTTACCAGGTGCCTA
CTCACTTTCCATCCGTGATTGGGATGATATGAAAGGGGACCACGTCAAACATTATAAAATCCGCAAGCTTGACAATGGTGGATACTATATCACA
ACGCGGGCCCAGTTTGAAACACTTCAGCAACTGGTACAGCATTACTCAGGTAACCCCAGTGCCGTCACCGTCACCGTCACCGTCACCGGTTAGA
AACTGGAGGCTGTGAGGGAGGAGGAGGAGATACGGGACAGAGTCACTAGGTAGAGCTGTCCTCTGCCCGCCCACCCCCACAGTCAGACAGACAG
ATGGAGTCCGGGGTTCTGTTGCTCTTCTGCCCCAGATAGGATTTTCCTCCTGTGTTTTCCAGAAGTTCCCCCCAGTAGAAGGCAGTAGTTTAAA
TCTTGAAAGCTGTATTTGTATATTAATTTTCATAATAAAAATCCTTGCACGTTCTTTACCTTTGCCTTCATTGCCATGCAGAACTGTGAGAGGA
AAGGAGGAAAGGAGCTGTCCCTAGGCAGGCTCAGACGGCCCCCAGGGAGCCTCACTTGATCCTTCACCGCAGCAGAGGGAAGCACATTCTTGCA
CTCTGTAGAAGAAAATCTGTGCTGCTGCAGGGTTCCCCTCCGCCCCGCCCCCACTCCCCCCCCCCCCCCCAGCTTGCCTGCTGAGGCCACAGCTC
CCTTACCTCCATCTCCTGGACTTTCTTGGTTTTTTGTTTGTTTGTTTGTTTTTGTTTTTTCAATTTTTAAAGACTGGGTCTCGCTATAGC
CCTGGTGGCCTCCAACTCAGAAATCCCCCTGCCTCTGCCTCCTACTGCTGAGACTGAAGGTGTGCGCCACCATACCCGGCTACTGTGATGACTT
TAAACAAAGATTAGACTTTGTCTTTACGTCCCATAATCCTGTTCTTCTGCTGTTCTTGGCCATTCAGTTATTGGGTGTATGTGCGTTCATGTGC
GTCTTATGTAAATATGTAGCTCTATGCGCAGTGTTTAGTGTGCGCCGCTTGCCCTCCTTGGTTAACAAGTGTGTCCTGCTAAACAATGCATGTG
TACATGACCCCTCCTTTTTTTCCAAGGTAAGGTCTCACTTGTAGCCCTAGGGAGCCCAGTATCCACTTTGTAGCCCAGGGTGGACTTTCAGAGTT
TGAGCAATCCTCTAGTGTCAGCATCCCAAATGCTGGGATTACGGACGGAGCCACCACACCCTTTTTACCACCATTGAAAAATACCTGTGCTGTT
TCTGCCACACCAAAGAGACTTGTAGCCTTTTAAAAATAACAATACGAAATGCCTATGTACTGATTCTGGCCACTGATGAGCAGTTAAGAAATTA

ACAGTGGCTGAGCCAGTGATTTGGGCATTAGCTCTCTCACTCTATGTGGATTCTAATGAAATACTGAGAGAAATGGAGCAGAAAACCTCCTTGC
ACTTCAGTGATATACACAAAACGCCTGTATGTTATAAGGATTTTTTTCAAATGCTGAAATATATTTCATTACAGGCAAACATCCGCAGGGTCCC
CAGGGTTTGGATCATTTGAAAATAGTGTGCTGGAAAGGGCACCTTAATAACATCATAAAGCTGAAGGAGGGAGCCGATGTGAAGCACCCTAGAC
GAGTTTTAATCTCAGGGAAAAAAATCCATCTTGAGTTAGATTTGTTTTTATATTGGCTTTTCCTCTTTCCTCTTCTCTCTTGCACATAGAATGC
CTTTGAAATACCGACACATAAATAATTTCCTGCCTAAACATCTCAGAAACAGATTTAAAAAAAAAAAAAAAGGAATGAAAAGTAAGTTAAGAAT
TCCCAGAAAAGAGACAGCCACAGTTTGTGCTTAGAATCCAAGAGGCTTCCAGGGACGTAGGGGGCTTTGGCCCCCTCGGTTCAGGGTCTCTCTG
GCCCCCATCTTTCCCTGCCTGCTTACTCTCTGTTGGCGTTTAGTCAGTCTCCCCATACCTTTGCTAGATTCTCAAAGGAATATTCTTTTCAAAA
AGAAGGGGTGGGGGAAGACCAAGTTCCCAGTAACCTGAATGGAAGCTACTGTTTCCCTGCTTTTCATGTCACTGAGTTTCTGTGAATGTTGTTA
ATTTCCATTACTTCTTTAAATCCAGACTCCTAAATTATGCATAGAAAGCTGTTTAAAAGGTCGTGTTTTTGTTTTTGTTTGCTTTTAGTGGAAA
ATTGCAAAAAAGCAATGTGAGCACACAGGAGCAGTAGAGTCAGAAGGACTGCAGAGAATGTGACATCCTCTCCCGCTGCAGGTGTCCTCCTGAG
ACCGGCTAGCTCTAACAGACCAGAGGTCTGTGGGAGGCTCCTATGCCAAAGTCACATTTTAAACAGACATTTACCAGGGAGAGTCCCTCAGTCC
CTAGATACCGGAAGGGACAGGGACAGTTTTTATTTTTATATGTACTTTTTGAAAGTAGCAAGGGCATTTTGAATTTGAGGCAGTGAATACGAGT
TCATTAGACTAAAGTACACAGAAGCCAAAGCAGGCCGTGCCTGTGAGCAGCGAGCATGCCCGATGGTACAGCGGTGTCCATATCTGACACATCC
TCATCTGCCTCCAGCAAATGTTTGCTCATGTGCGTCGAATCTCCTGTGGCCTGTGCGTGTTGTCGTTACATATTCTGCTCTTCTCTCCCTCACC
GCTGCCCTGCTCCTCCAGAGAGAGCCGCAGGTCTCTGCTGCCGCCTAGTAGTTCCCTGTCACAAAGGGATGCCAAGGCTTACCGATCTGTCTGT
CAAAACCAAAGATGTCTGGGAAATCCCTCGAGAATCCCTGCAGTTGATCAAGAGACTGGGAAATGGGCAGTTTGGGGAAGTATGGATGGGTATG
CTGAGATTCAATTACTCTCTTATTAGCTTCCTCGTTTGGAAAATCCCAAACATCAAGATGGAAGGTGGAAATAAAGATATTTTATGATCAGGAC
AAACAGACAGTTTGAATTATTCAACTTTTATTTGGAAAAATTTGGAATCTCTCAAAGAGAGCTAGAAACAGGCAAGAACTACAGCTGTCTCCAG
TTGTGCTACAGTGTTCCAACCTGGCTCAATGTTGCCGTCAGGGAAGTCACCTTCCATCTTTCCTAGTGCATGCATGATTATGGATTATAAGGAC
TGTTTTCTTTATTAATTCCCTTTCCTGTAGAGAAAGCTGATGGTTTGTGTTTTAACTTAACTGTGGTTTCATCAAGTTGTACCCCACAAACTTC
TGGATTGGCTAAAGATGCTTGGGAAGTTGCACGTGACTCGTTGTTTCTGGAGAAGAAGCTGGGGCAGGGGTGTTTCGCTGAAGTGTGGCTTGGT
AAGGCAGAGGGCACATTCTGTTTTGGCTGCATCTCAAAGCCAATGAAAAGGACAGTTTTGAACAGAAATGTGTATGTGGCCGTTGGGACAAAGA
CCCTTAACCTTTGTGACTAGATGGGCTCAAGCCACCCAGGTTTGCAGAAGTCAGTGGCACCTCGCTGTGTTCACCTGTCCTATTTCATGTGGCT
CATTAAACACCTGCAGGACAGGAACCCAGTGATGGTGACGCTTTCTCTTCCTGTGAAATGGGATGGTAAGATGCCATAGAGTAAGGTCCTGGGC
TTTCTTCACACCAAGCCTGGGTCTAAACCCTTGCTGGGTGATTAAGTATAAATGCAGGGCCTGTTTAACTCCTCTGGCTCCAGTCCTCATCTGT
AAACTTGGAATAGTACCTGCTTCGCTGGATTATTTAAGGATTATATCAGACATGGTTAAAATCTCCTGTAGATCTTGGATCCATGCACACATAT
CTTCATTGTGTGCACATTCTTCAGTAACGGCAACTGCACTGGGCCCTTGAGATGGCTTTCATAGCCCTCTGGGTCAGTTGCAACTTTACTTACA
GACAGACTATAAACTTAGACCCCTCCCCAAAATGTTTGTCCATAAAATGATAACAAAGTGTATTGGGGTCTCCCTTCCTTAGAGTCTACAAGAA
TACÁACATGTACAGATGGTCGTAAGGTGTCAATCTTAAGCCATTACATAAGCACCAGGGTGTTTCCCACAGGACATCAGAGCTGGCGTAGGTGC
CTAGGCAGTTACCCAAGCTGTGAGGAGTGGAGATGGCACTATGCTTAAAGTTACAAAATGTTATCAGTCAGATCCCGTAGACCACCTAAATGAT
GTCAGAGTTCCCGTTACACCAAAAGGCAGACACTCTCTGAGATAGAAGAACTCTTTACACCTGCCACTGGTTCTTTTTCACTTGTTTTTCCCCT
GTAGGATGCATGTTGTAATTTTATGTTTTAACAGAATAATAAATGCTTCAGATATAGACCCCTTAGAGTGGAAAGTCATAGATGACACCTAGGT
AAATCTTAGTGTGAACCTGGATTCTCTTTCAAATTGTAAGCAATAGAATCTCAAATTAGATTTTTATTTTCCTTTTATAAAATTATCCTTCAAA
GCCATTGGTTAGAAATAGAACAAGCCAGAATTCTGTCTTTTTATTTGAGAACAGAAAGCCAAGCTAGTTCATTCCTGTTTTACTGATGAACTGA
CAGTGGCCATGAGCCAGGTCTGGCCTTTGGGTCAGCTTGATTTTAAAGACGTACTTAAACATGTCACATGTACGTACTTTTCTTTCCTGGCTG
CTCTTTGATTTCCCAGCCCACCTGATAGAAGGCATTGTTCCTGTGGCTAACTCATGGGAAGCTGGAGAAATTGACCTTACCTGGGAAAGTATGG
GCAAGGAGATGGTGTGCTCCTGGCCTGTGCTTAAGGGTGCACTTAGCTTGTCTTCTGAAGGACTCAGTCAAGTGTCTCATCCAGTAGACAGTTG
AAAGCCTACTCCAAGCATCCTTGGTATGGCCAGATTTTTATAGCCTCTAAGATGGAATTTAATCTAATTTCTCTCAGGCTTTTCCTTTATCTAA
GGGACAGCTGTTGGATACTCAGGCCAATTCTAAATCCTAGACTGTCATGACTTAAATAAGAGCCCAGAGCTTTCTGGTGTAAATTCACAATTAT
ATGCATAAGCCATAAAAAGAGTGATACATATCAAATGGGAAAAGTTAGTGAATTATTAAACAGCTGTGAGTAAACTTGCTTTTCCTTAAATACT
TGACAGAGTCCTTGCCATTATCTTTGCTCGTAAGAACTACTTTAAGGTTTCAAAATTTAAAGTCTGATTTTATGCACAAAGTTGCTGGTCAAAA
TTATTTTTCCCATCAAAAGAGTACCTTTGGATTGACTTACTGTTGTGGGGTATCTGTAGGTACCTGGAATGGAAATACAAAAGTAGCCATAAAG
ACCCTTAAGCCAGGCACCATGTCTCCGGAGTCCTTCCTGGAGGAGGCGCAGATCATGAAGAAGCTGAAGCATGACAAGCTGGTGCAGCTCTACG
CGGTCGTGTCTGAGGAGCCCATTTACATCGTCACGGAGTACATGAGCAAAGGTCAGCCGCACCCCTCCCCCTCCCCTCCTCTCNNNNNNNNNNN
NNNNNNNNNTCCCTCCTCCCCTCCTCTCCCTCCTCCCCTCACAGGGCTGCCGGGGACCGGAATCCTCAGGGATTCCACTCTGCTCACTCAGGAT
AACACTTAGAAAAGGGGAACATGGAGTTTGCCCCTGGATTCCTGAGAAGTGCAGTGCCTTTTGCATGTTCCACATCAGGAACGTTCCTCTGCAC
AGTTAAAACATCCATCTTTCTATCCAAGCTAATGCAGAGCTGAGGCTGTGAGAGCTGCTGCCATTTTGAATGGGTGGCTTCTGTTCGGTTTCCC
TTTTTAGCGCTAAGTAATCAATAGCAGATGGTTGCTGAGTTAAGTTCTGTCCCCATCTCAACATCCTTCCCCCCAGCTTTCCCCTTAAACATCA
GGTGAAGAGGTGACACGCAGTCATGACCTCCCTCCCTCCCCTCTCGGCGCATGCATGTGTTGACGCACACGTGAGCATGCGTACATCATTATAA
TCAAACCGGCATTGTTGGGGAATGAAGCCAGAGATCATTTTGTTTTGGAAAAATAAATGAGCCAAACAAGAAACAGCCTTAAAAGGCTGTGTGC
ATTGTACATCAGAAGACACCAGGGTAATTTTTCTTCTCTGTGTACTTTCTTTTAAAATATAATTGGAATTTTTTCCTGGCAGATTATATGCCCT
TTGGATCCAGGGTTATTTTGTAAATAACTTTGTGATTAAAGCATTAAAAAAAAAAAAAAAAAAAAAAAAAACACTGACAGCCATCCAGCCCCTGC
AAATGATTATCTCCGCCTCGGTGTCAGATCCGTGCCTCCTCACTCAGCCTCACACGAGTGGCTCTGAAGCTCTGGCTGTCCGAGGCACAGGCGT
GACTGGCTGGGATCTAATTAGGAAGCTCCTGCCCCACCCATATTCCTTGGATGCTTAAAATCTGAAAATAAGTCAGCAGTTCTGAAAGTCCCTT
GTACCTGAGGCACCTAGAGAGCTTCTAAAAATACGGGCATCTGTGTCTGACTCTGGGATTCCTGATGTAGTGGATAGAGCCTGAGGACACGCCC
TTCCAGCAAATACTGTCACTACTGTTGCTACTTGTCGGAGCCTCAGCCTGCTCACCTGAGCTGGCTCTCCACATCAGTCGCCTGTACGTCGTCG
GTTACTGGGACATGAAGGATGGTTTGGTTCCTCCTGGTGACAACATAAAAGGAGACGTTCATTTCTTCTGGTTTTACTAACTCCTTTCTCACTG
CTTATTTTCAGAAGCTACAACTCGCTTCTTAAAACATAAACTTGATTTCTTGGTTTTTGTTCAAAGCTTTCTTTTTCCATTGATGCAATTATCC
TTTTCATCTCCCTTTTACTTCCACTAAGGAAATCAAATACAGCCACTATTGAGAATCTTTGCCTCTCTGAGTAAACTAAAATTGTTTTGTTTCA
TTCATAGGAAGTTTGCTTGACTTCTTAAAAGATGGTGAAGGAAGAGCTCTGAAGTTGCCAAACCTTGTGGACATGGCGGCACAGGTGGGCCTGG
GGTCTTAATTCAGGCTGTGGCTGTACCAGCACGGACTCTCAAGGTGTTGTGGTGTAACAGCTGTGCCCCCTTCCCTGGGTTTCCACAGGTTGCT
GCAGGAATGGCTTACATCGAGCGCATGAATTATATCCACAGAGATCTGCGATCAGCAAACATTCTAGTGGGGAATGGACTAATTTGCAAGATTG
CTGACTTTGGATTGGCTCGGTTGATTGAAGACAATGAATACACAGCAAGACAAGGTGGGCACTTCCAGGGCAGTGGCTCCTGATTGATCTTTGC
CTGCACAGCCTTCTCCTTACCTTCATTTCCTCCCTCTTCCCTTTGTTTGTCTGATCTGGCGCGAGCTGCACAGTTCTCAGGTGGGAGCTAGTGG
ATCTAGTTGGCGTGTGCAGTGCTGGTCTAGTAAGTGGGCGTCTGTTCCCATGGCTTGCCTGGCTTTTGGGAAGTATCTAGGCCCACGGTGTTCC
ACTTTTGGAGAAAGAAGGCTTTGAGAAGCCAAGTTATAGCTCATTCTCCATTAGCCACCTCTGAGCAGAAATCAGGTGACACTCCAAGTCAGAC
AAGTTCCTTTACAAAGGAACAGGCGTGGTGTTGGAAAACGGAGAACATAATAAATAGCAGGGGAGCCAAGGCTCAGAATGCAACAGGAGTAGGT
AGCGCCAGAGCAAAGACACCTCCTGGTAGAGAGCCTGCACATGGAGGCGATTCCTGATCTCAGTCAGCAGCTGCCTGCCAGGCCCAGCCAGGAC
CAGCTGGGACCAGCCTGAGACTGAGCTCTGCAGAGCGCTGAGGAGAAAGAAATGGTCTGGAGGGCCTGGAGGACTGCAGTGCTGGAGAAGCCG
TCTCTTCTCCTGCCTCACCCACCCCCTGCAAAGGGTCAAAGACATTAGTTTTATGTAAACCACGTACCAGACCAGAAGCCAACCCACTTGGGGA
GGAGGGATTGTTTGTCAAGCACCAGATGTCAGGAAAGAATTCCCAAGGTGTTTTCTGCCTTCCTGGCTGGCTGCTTGCATGGCAGTGTCCAGGC
ATAGCACTGAGGAACTAGCAACAGTGGAGGCCTCTGTGTGGGTTTTAAAGCCGGAACTCAGGCAGGGAGTAGGTTTCCTTGGTGAAACTAACCG
AAGCCTGGCCACCCCAGCCAAGCTGAGCAGTAGTGGGGATGGATTACAGGATGGTGCATTCTGCAGTTTTATGTTGAATAGTAGTTGTTTCGCT

CATTTTTGGCAATTCCTTCCGCCTTTCACTTGCCTCAGAATGGAAGTGCAGTGAATGATGTGAGAAAATGTTAAACTGGGGCCCTGCCTAGGTA
CTGACACTATCCAAGTGCTCGGTTGCATGTCGGACAAACCGCCCAGCTATTTGAATTCCCCACTCCCACCCCTGGCACACGCCATCTCTTGCCC
TTGTGGGATCCTGGGGGGTACGGGGGGGGGGGGTATGCACACAGACACACACCCAAAGTCAGGGGTCACAAAAGCAGGCTGTATCTCTAAGCAG
AGAGGAATACAGACGTGACTTGGTGACAGGGCATGCCAAGAGGGTCTGAGTGAATATGATCAGAGGCCTTGCCCTGAGGGAGAGCCTGTGAGGG
TTGATAACCAGCATGTTCCATTTAGGAAATGGCTCCAAAGAAACTCAGGAGCTTCCGTCTGTGTGTGAGAAAGTCTCCGTGGCAGAGGGAGCAG
TGCAAGACTGTTTACTTTTAACTAGACTTTGAACTCTGTAGAGTCTATGGTTAACACCCTTGACCCATCTGTGAATGAGAGGTGTCAGGCCAGG
AGCTAACAGATGCTACCAGAGTACTGTTGGGATGGACTGGGTACATAAGTCATGCATCATTCATAAAGGGTGCCTAAGACTGTGGCCTCAGGCGG
CTGGCACCTCTCATGTCAGGTTCTGCACTGGAACCCATCCAGGGCCCTCTCAGCCTGGCCATGCAGCCTTCCTTCCCACTTCCCACCATGACTG
CCTCTCTGCCCTGCCTCCCCCCCATGACATCCAGACCACAGTCTGAGGCCCTTTCCAAGGACAAGCCTCAGTCCTTTGTTCAGCATTTCCTTGA
CAGAAGAGTCCACCTTTCCCTCTTAGAATATTATTTCTTCTTTCTTATCTTTGTCAACTGTCTTCAGATGCATACCAAACACTGAAAAGGGTAA
GCAATAAGGGTTACAGGAGCTAGAGTATGACAGGAGAGACGGGCAGTCTGTGCTGTCCTGAAGCTGAGAACCAGGAAAGGCCAAGGCACGTCAG
GACCTGGAAGGGGCAGGAAATAGACCCATAGTTAGCATATTTGTTCATACAAATCACAAAGCTCACAAGTGGAAGGTCCGGATTTGAAAACAGT
ACAGCCCACCTGACCAGGTGTGCTCTTGAGCTGTGCCCACTGTCTCCCCCCAAGACAGTGAATCAGAGAATAGAATGGAAAACCAGAGAGAATT
AGTCCTAAGTCCCACTTCCCCTTTATTTTATGGAAAAAGCCTCAAGGGACAACCTCTCAGATTCACATGTGTCAGGGGACCAGAGAGACTTTTC
CTTTTGCAGCCTTGGCTAGCCCAGCTGTTCCTACAGTTCCTTCACTGTGCCTGCCCTGCCCTGGCCTGTCCACGAGATGGAAAGGTCCGGCATG
TGTTTGCCAATGTATTCTGCAGATGGCATGTGTGCTGCATGCCGGCGTTCCTGCCGGGGATTAATAAGCTCCTCTAGACAGCTGGTCCATGTGC
CTAATAATATTTGCAAGTCGGGTTTTATGTCACCCGCAGGCCACAGCCGTGCCGCGTGTTGATTATGGGAGTGCAGGCAGTGTTCTGAAACATG
TGCCAAATGTAGCTATTTTAGGACCATGAATGACAAATTGTTTGCAAAACAGTTGTGAGTTTCCCATCTCAAGGTGCTCTGAAATGTCTGTCAC
CACGGACAGACACACACACAAGGTGTGACAGCACAGGACACAAGGACACTGCAGTATGGAGCTCTGTTACAGGTCTTCCATGTGTCTTTGTCTC
CTACAAGCCCCATACTCACCCCCTGCCTGCCTGGCTTGTGAGGAGAAGCCCAGTGTCAAAGAAGAATTCAAGACCAGGCCTAGTGCCTATGAAG
GTTACCCTTCACTTGACAGCATTCTAGAAGCAACTAGAATCATTTGGGGTTCCTTGTAATGGCCTGGACACTTCAAAATAAGAACTAGTTCTTG
TTTAGTCATAAGCTCTGCACTAAATTCTGTCCATCTGGAGTCGCTTAAATAATCCATAGCAAGTGTTTGAATAGTTTGTTTATCAAAGGAACTT
GGCTAAAAGTTGTTAAGGAGATACCCAGGCCAAAGCAGAGGCCCTGTGTGGTCTCAGCTCCTCTGGGGACTGAAGAGGGAAGATCTCATCAGCC
CAGGAGTTCGAGACTGGCATGCACAAAACTGTAAGATTCCACGTCGAAGGAAGAAAGGAGGGAGGGGGGAACGCAGAGGAAGCCTAAGGGCACA
TAAGGACAGTTGGCTAGCATGAGAAAGAACACAAGAACATTAAACTCATGCAGCAAAGCCCAGCAATACCCACTGACTTGGGCCCTGGGCAAGC
TGGGTGATTCGTCCATGGGCAGATTACTTATTTTTAACTGCAAATGCATCTTCCCTGTCTGTGCGTGTTTGCAGCTACTGGAAAGCACTTGTGT
GTCTAACCTAGCCCCAGCGAGTAGGAACTGGACAGTGTCGCTTGCTGCTGTTCTGTTTTTACTATACAGAGGACCAGGCTGCTAGAGAATAAAC
AAATGGGTAGGTTGCAGTTGTACTGGAAAGAGCCAATTACCATTCAGGGTTAAAAAAGAAGCTAAAGGCCCTTTCCAGGAGGCAGGTGTAGGCT
ATGGTTAGAGTGGCACTGTCAGCAGCAGAGAAGGGAGAACGTCGGGGCCATCTTAACATCTCAGCGAGAGAGAATGAGTATGAGTTGGGATTTG
TTGTATTTGAGGTGTCTGTGCCGGTGCATCTAAGCCCAGAGAAGCTGCTGCAGCATCGCAGCTGATCCACTGCCACAGCAGGGTCCTCTGACCC
TCATCCTTCCCACTCTGTCACCTACGCCTCTCCTAGAACTCTACTGACAGCCACCTCTCTACCCCCAGTCCCACGATCCTTCCAGAAGTTACTG
GAGCCCCCAGCTGGGCCCAGGGCTTCGAGGTGAGGCTGTGCTCTTGAGCCACACCCTCTCCTCAGCATCAGTTGTTTGCTCCTCTGTCACAGCC
CCTGGCCATCCGTTCCTTCTCATGGAAAATGAAAATGGGTGGGAGAACTCTCCACAGACTTGGTCTTTTTCCTCATTCCTCAAGCAGCTGAGAG
CTGGCTAATGCTGATTTGAACCTGGCACACTCAGCTCAGCTAGACCTGGCCATGTTTAGCAATGACTTGCTCTTGTGGACACTTGATTTCTCTT
CTCTTCTCTTCTCTTTCTCTTATCTTCTCTTCTCTTCTTTTTTTTTTCTATTTTCTTTTTTAAAATTTACATTCATCCAGTAAAGTA
GACAAATCTGGTATGCAACTGGGTATGTGTTTACATAGTTTTGAAAGCACCTCACAGAGAAAGACAGACCTATAAAGACCATTTCATTCCACTC
TAGTCCACAATCGGCCCCAGAGAGGGCTGTTTTCTGTTGCTTCAGATTCCCTCTGCCTGTAAGGAAGTTCATGAGTGTGACTTCACAGATCCCT
TCCTTAGTAAGCCACCACTCTCAGGAATAGCCTCGCCTAGCCGTGACGTACTCTTTGATCTGCTTCTTGCTTCCTGTAACAGGCCTTGGCTTCT
CACAGCAGACTGATATTTCACTGAGCAGAGGTACCATGTGCCCCATCACTGTACGGAGGAGCAGTAGGGCAAACTCTACTTGGGCTGGTACAGA
TGAAGCTGCCGGGCGGGAGACACACCCCTATCTCCCGGGTACTCACCCTGTCAGAAGGGCTGGTACTGGCTTGTCAGCAGCAGGTGCTGTCCCA
AGAACACCGATTTAAAAGGCAACTGCAGCTAGGTGACTTGCCTGGTTTGGAAATCAGAACCCCCAGGTTTAAACCACTTCTGTCACTGACACAC
AGGGTGGCCTCAAGCAAATCAGCTACCTCTTTGGAGCATCATGTTTATCCTCTGTAAAATAGATAGTAACAGGGCCTGCCTCACATGGATACTA
TATGATTGAGTAAGCAATCTATAAAAATTTGAGGGTGGTAAAATATGAAGAATTATTTTAAAACTTCAATTTTTTGTGATTGACATGTTTTCCA
TAGAGAGGGTTTTATGGTATTAAAAATCATTTAAAGAGAAAAAAATGTTAGTAATCAATAGAGGAAAGGTACTTATAAAGCCATAATACACAGC
CAGATAGGTGGATGATTGATTGATTGACTGATTGATAGATGATAGATAGGTGAGTGGATGTGTGTGGAATGTGTGCATATGAATGTGCATGTGT
ACAAGAGCACACACATATCATTATTTATAGCCCAGACCAGTCTATTTTTCTGGTTCTATCTACATGTCCCACAGACCCTCTGTTCTGAACTCAA
CGAAGGGAGAGTCAACTAACCCTGCCCCTCCATTGTCTTGGGCAGGCCTTCATTCTTTCCTCCTGTTAAGAACCATTCATGGCTGGGTGGGTAT
GGTGGTACACACCTTTAATCTCAGCACTAGGAAGTCAAAGGCAGGCAGATCTATTGAGTTTGAGGCCAGCCTGGTCTGAGTTCCAGGGCAACCA
GGGCTACATAGAGAGACTGCCCACTCCCACCCCCACCCTCACCCCCACCCCCAAAAAAGAAAGAAAAGAACTATCCACAGCCCCGAGCTGCATG
CACATGGTTTTTATTTATATTTATTATATATCATTATTGTGTCTGACATCACATATGTACATAAGTTCTCACATGAATCCTGGTAGCAATTCTC
CTGGATATCACTAACACAGGTCTCGCTGTTCCTCTGTGGGGATGGGGGCCTAAAGACTGAATACAGCCCTCATGAGCACGGAACATTTATTGGC
ACTGTCTGTGTACAGCAGTGGACATAGCTCTTATCACTGCCCTTCTCCTCGCTCTCTGCAGACACACTTTTCTGCTCTCTGTGCAGTATGTACA
GGCTTCCCAGAAATGGAGTGCTAGAATTCTGTAATCCTGCAAGAACCCTTAGAGAAGGTTGTTGCTTATGTCGGTGTTTGCTGCACACTGTGAG
CTGGTCTCTGGGGGAAGTTCAGGAGCTAGCTTCCCAGCTAGATAGACCTGTGCTCAGATGCTAGCCTAGCTCTGCCTTCCCTTGGGTTGCAGCC
TCTCTGGGCCTCAGCATAGTCATCTGGGACCCCCTCTCTGGTGGCTGTGGCTTAGAAAGGGCAGAGCTGTTTGGTGTCCTTTGCTTCTGTTCTC
CCTCACAGGACTTTCTCCTCCCAGACCTCCTACCTCCTTTCTCTGTATTCCTCACTCTGTTCAAAAAGATGGCCAGGCCTGGGCTGACTCTGAG
CCTGGCCGGAGAAGTCGTGGCATTATCTTAGTATGAGTCCTGGAATCTCTGCAGATCTGCTCGGGCACCTGGGATAAGTTGCTTTGAACCTGCC
TTCTTCTGCAAACAAAATTGTCACACGGTCTGAGAACAGACAGGAAGCACTCACCACAGAGGACTTAGTGCAGTTGGCAGTGGCATTAACAAAA
GCAGTGATAAGTTGACCCTATAGACACATACAGCCGTCCTCTGCATACACGCCCACAGATAGTACCCACGAGCCATGCTGTACAGGGCCTTCCC
ACTGCCTCCTGCCAGGCCTTGTCCCCATTTGAATCATGAAGAGCAGGAACATGGAGTTTCTCTGTGGGTTTGGTGGGTTTGGTTGATTTGTTCCA
AGGCAGCAACCAAACGAGCATATAGGAAACACATGTCAAAACGATGTAATCTTTGAGTCTGTGGACTATTTGGACAAAAGGAGAACACTCAGAA
CTCTGGGTAACTTTGTTACTGGTTTATATATTAAGTAGAACAAGAAAAATGTGTCTGTTCAAATACTCCCAGTATTGAGCATTTAAATTGAATA
GATTATTGTCTAGAGTAAAATTCACTTATAAATTAGACTACAAAGAATTCATAATTGTTACAGTTTCCATGTTCATTCGTTCACGTTAAAAATT
GTTACTGCATAAATTAACACGTTCTTTCTTGGAGAACATATTTTAGAAAGATTTGTTACTTTAATAACTCTTTGTGTATTAGAAATCCCAGATG
CCGGTGCTAATTAAATGTAATCAGATTTTGGATTCAAAAAGCACAGTAGCCATTTAGCACAAAGGAGCAGGCAGCTAGGTTGACAAACACGGTC
AGGAAGGACTGGGTCCCTGATTCTTTTAGCTTTCCAGTTTCACAATGCAGAGCTGTGAATGCAGTTCCTGTCTTTCCTTTGTTCTGATGACTGG
GGATTATTAGACTCAGGCCGCCCGCCGCTGTTCCAGCTCAAGGACTCCTGCAGAATTATTAATCAGCTGCTTCAGAGGCCCTGTAATCCAGTGG
CAGATCAAGGCTGATCTCACCACGAGGTGCCCTCCCTCTGCTCCCCTCAGCGTATGAATTTCTTGTTCTCTGTCAACAACAGCATCGCCATTCC
CACACTGTGTGCTGTGACCTGAACAGCAAATGTCAGCAGAGAAGGGGGGAGGTGGAATCCTGTTAATTGTTGAATTTAATTTAATTCTTTCCTT
GCTAAAGAACTGAACCCATCTTTTAAGAAAAGCAAACCTCTTCCCGTCTCTTATTCCCCAGGCAGAGCTTTTAAAAGGCTGTAGTGAAGTGACC
AGGCCACACCACCCCACAGGCCCACACGGGGAGTTTATCATCCCCAGAGCTGCCAGAAGCCATGTGCTGAGCCCCACGTGCAGAACTGAGCCAA
GCTGCCTCCCTGAACTGTCCAGGGCCAGAGTTTGGTGCACCTCTGTCCCTGGGCAGAAGTCGGCTTCATTTGTATTCCGCTGCCTCTGTCTCTA
GGCTTCCTACCACTGGTGTCTCTGGGAGGGACAGCTTTGTTCATCTGCTGTAGCTTCCGCCTAGATTAGTAGTCAGGGGAGCAGGGCAGATGCT

GGGAAATGGAGATGAACTGTTGGGAGCATCATCCCCTCCTAGCAAGGCTGTGCTGACAGCCAGATGAAATAAACGAAGGGGGCTTTTAAATCAC
TCATTTCTCCCTAGTCCCTTTTAAGATTAAAAATGCTTGCAGGGTGGCAGGAAACTGATTTCTACCACTTCCATCCTTGGACAGCTCTGTGAGG
TGGCCTAGGGAATGCAGACAGGGCCTGGTGCCAGCACAGGTCCCTGAGCCGACTCTGAGCACCTTCCTCTGTCTGCCCAGCCCACCAGTAGTCC
TGCTTTGTGCTCACAGGGGCATCGTCCTCTCCTCTGTGCTGTTTTGGGCAGAGCTGCCTGGCAGTTGTTTATGAATGGTCAGGAGCAAGCCCTC
ACTTTGTACAGCCCACGTTTCTTGGTAATCGTCACTAAGGAAGCAGATGGTCACCCTCTGTGATTTTAAAGTGTTTAAATAGGAACTGCAGACT
GCCATCAAACATCAGAAACGTCTTCTGGCTTCCTTGTCGTACTCTGCTGGCTGGCAGAAGGAGCCTGCATTTGCATCAGCTGGAGAGTGAGGGA
CAGGCAGAGCACATGCACACTGCCTGCAGCTACGAGCCTTTCTCCTAACCAAAGGAAGGTACCTGGGCCCAACACACTGCTCTCCACAGGGTCC
CAGAAACATAGGCACTTTGCCAGATTGGAAAGCAGAAGACAGTTTAAACCAACCTGTGGTCATGCTTGTCTTCTGTACGTCCCCTCCTCTTGGG
ACGTTTTTTCTAGACTCAGAGCCAAGCCCCAGTATGATGAGCCTGTCCCACTCAGTATCCCCACTGTCCACACTGCCTAGCACAGTGTGGCCTG
GCGTCGCCCAGGTCCCTCTGGTGGGTGGCTCACTCTGTCTGTGTTCTGCTACATTCTTAACCGAGTAATGGGCCTGCCAAGAACCCTCTCTATC
CATGCTCACTGTTCAGCCCCCGGGGAGCTTGCTCACGCTTTCAGCTTGAACGTTTCTTCCATGGATTTATCCCAAACAGACCTTGGATCTGCGC
CTAGTTAATCAGCCCAGAGTTTTACATTATGTTCAGGCCCAACTCCTGTCTCCTGGCACTCAGGTTTCACTCATCTCTCCCCTCTCAGAGTCCC
TGATGAGACAGCACTGTCTTAATCCTTGTCACCTTCTCTGTCAGACTCCTTCCTCCACGCCCCATCCCCAGCCCCGTAAGCTAAAAATTTCAAA
TGGAATATCAATCATCCTTTCGTGCAGCTGGATTTTCCTTTATATTTATTCTCAAAACATGACGCTAAACTCTATGAACTTAGAGTGGAAATTT
CAGCAGAATATGTTACCAGGGGTAACTGGAAACACTCAGTTTATGATTTCAGAAGCATTTGGGAAATTTGAACGTCATCCTTGGCCTATTATGA
GAATTAGGAGTTTTCCTCTGCCAAATTTGACCGGGTTTGAAATTATTATTGTACTTGAATCACCACCAAATTCCAGGTTGGGTCAGCTTTGCTT
CAGCTCCTAACACAGGATATCCTGTCCTAGACTTCTTGCTGTCTCCACCATCCAGTCAGCTTACTGTTACTGCCATAGTCATGGCTGCTGTTCT
TCTCTAGGGTGACTGTACAGTCAAAGTACTACATACTGTTCAGCATTGTATAGGATAATTCGCACAGTCTGTGGCTTTGGAGTTAAAGAGGCTT
TGGGGGTGGCTCTTTGGTTTAGAAACCTAGGCTCTATTGTTGAAGCCAGTGCATTGGATGGCTTCCTCTGCTGCCCTGGTTCTTTGGATCGCTT
CCTCCGATGCCCTGCTTCTTTAGCTGGAGGAGATAATCTCTGAGACAGTGCAGTGGAACTGTCACCGACAGTCCCAGGCTGGACTGAGCTTGTG
GTGTGTGATGGCCCCAACAGGCTTGTATTGACCCCAGCTGTGATCCGTTCTGTGTCTGGGGAAGTCATGAGTCACACTGGTCCCTTCTCTGTCC
CCCATCTCCCTCATCTCCTCCATGGCCCGAGCCATCATCTTCGAGACAAACCACTTTGTAGCTCTGTAGGTTCAGCCCAGTAGCTGCATTCCTC
CAGCTTTAGAACATTCCTACAGGAGGCTCCCTCCTCCTGGCGACCCTGGAGTGCCCCACGCTGTGCTCAGGGACTCGGCGGCTCCCTCCTCCTG
GCGACCCTGGAGTGCCCCACGCTGTGCTCAGGGACTCAGTGGCTGTCCTCCTCCTGGCGACCCTGGAGTGCCCCACGCTGTGCTCAGGGACTCGG
CGGAGGACACTTGGAATTCTCGGTGGCTGATGGATGAGTGTGGGGATTCTCTGCATCCTCTTTCCAGCTTTTGGAAGTTTCGAAGGGCAGTGAT
GCTGAGGGCCTTTGTCAGTGCAACTCCATCAAAGCATTTTCTCAGCTCTCAGCTTGTTACTTACTGGGCATCAGACACTCTGCTGAGACCTGTG
TACCTCCTGCCATCCCAAGTTACAGACAGGAAACTAACACTGGGGCTTTTTTTTTTTTTTTTTTTTTGGTTTTTCAAGACAGGGTTTCTCTGT
GTAGCCCTGGCTGTCCTGGAACTCACTTTGTAGATCAGGCTGGCCTGGAACTCAGAAACCCGCCTGCCTCTGCCTCCCAAGTGCTGGGATTAAA
GGCATGCGCCACCACTGCCCGGCTGACAATTGGGCTTTTAAGGGTCTGGCAAACCCAGTCTGCAAGCCCAGGTTTGCCTCACTCCAAAACTCCT
TTTCTTCATTTATTTTAACGTCATTAAATTCCGTCTTTACCAGCTCCACTCGTATCTGCAGAGCCTGATTTCTACATGACCATTCTTGCCCTTT
GGAAGAACATTCTAGCCCAGCCCACCGTCGGGCTTGCTGCCACTGTCACTACAGAGAGGTGGTCCTTTTTCCTAGCTCTTCCTTTTACATCATT
CAGAAAGCAGCCTTGGGACAAAAGGTATCTGGAGTGTCCCTGTGAGCATTTCAAACATTGTCACCATCTTAACGTATGAAGGAGAGTCCGCTAC
AGGAAGCTACTAAGTCAAGACCCGTTTCTGTCTGAGGCAGAAGTAGAGGACAGGTTTCCTGGCTGACCATTGGGCATGCAGCCATTCCTTTAAC
TGGACTGTGACTTGGGCTTGGAGTGGCCCATCCTGATGTGACTCTAACCGGACATCGCGTCTTCACTTAAAGCAGAGAGCACTAGGCTGGGTAG
GCTGAGAAAAGCCATCATCTCTTACATTATTATATCGCTAGTATTTTCTTTGTAGTCAGTTTTTTTTTTTGTTGTTTTGGGGTTTTTT
TTGTTTTTTGTTTTTTTGGGTTTTTTGTTTTGTTTTGTTTTGTTTTTTTTAAATCTTGGTCAAAGAAGACAACATATTTGGCCATTGGGGATTG
AGTAAGTCACTGCTCAAGTGGGCCTTTGTTGTTTTGTTGTTGTCGCTGCTGCTGCTGAGCAGTTGTGGTTTAACAGCTTTAGCCAAAGTACTGG
GACAGTGTAAGTATAGAATACGCCAACCTTGAAGGTCTGCGCTGTGCTCGGAGCTACACTCAGCAGCATGGAGCACGGGGTCTAAGTGCTCTGA
CGCTGCAGCCAGTCTCCTTCCACACATCCCGTTTCCATGCCTTACACTTGTTCCTCGACGTGTTGTTCTCTCAGCTGAAGAACAGAAACGTCTG
CGTGTGTCAGATGTGCGGCACACAGAGCTAGTACCGATGATCTGTTCCATAATAGCAGGCGCTTGTAGTGTCCAGCATTAAATTGCCACTTCTG
ATCAGGTTCCTCCCAGAAGACTTCAGGAAGAAGTCTTGAGGAGACAGACAGAAGGCTGCAGCTAGGCAAGTGGAGGGAAAGATGGCATTTCAAA
CAAGCCGATACAACAGAAGGTCTGTGATCACGCCAGGTGTGGTACCTGCTACAGGAGCGAAACGCAAACTAACCTGGATTAGCTGTATGTTTGC
AATAGGAAAAACCGAGGCTGACTGGATATGTGCGCCCTGGAAACCAGGTGGTGGATTCTGATTTAATTCAGTTGGGACCCTCCCACATGGCTAC
AGAAGCTGCCATTTACAAGGATTAATTGGAGGGGCACTGCTGAAGGCTAGGTACCAAGGCAGGGGGACTCGGCAGGGGCACTGCTGAAGGCTAG
GTACCGAGGCAGGAGGACTCAGCGGGACTGGTGACTAGAATCTGGGTAATTTTGAGAGACAGGTCAAAGAGCAGAACCAAGGTGCCAGGTTAAC
AGCAAGAGGACAGTGGTCTGGAAAGAGCAAGGGGAAGAAAAGTCCCAGCTTAAGGTTTCTGCCCTGAAGCCTAGCAACACAGTGACCAAACCCC
AGAAAGGGATAGTAAAACACAAACAAATGAAGGGATTTTGTTCCTTTCTTAGATGTAAAAAGTAAGAATTAATTTCTTTTTTTCCATTTTTTAT
TAGATACTTTCTTTATTTACATTTCAAGTGTTATCCCCTTTCCTGGTTTCCCCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAACCCTTTCC
CCATCCCCTTCTCCCTCCTCAAAAAAAATTAATTTCTAACTCAGTCATTTGGTGACATTTTTCTGCCCACTGCAAGACTCTCTTATAATCTTGC
ACATAGTAAGATGATATACTGAACAATAAATTAAGCTTACAGTTGCTGTATTTTAGGTAAAGCCAGGAGACCCTAGAAACCCATAAATATTTGG
AAATAAAGAGCCAGGAGTTCAAATGAGAAACATCTGAATGTGCCCATCCCCCTCACACACGCAGCAGGAAAAATTAGTGACAAGAGAGGACATA
GTGGAGAGAAGAGTCGGGAACACTGAAGCCCCAATGGCTGTGGTTAGAGTGAGTGGAAGAAAATTGGACATTGGAGACGAGAGAGACAGGAAGA
GGCTATGCGTAGATCAGATGCTAGGCCTGTGGGGAAAACTCCAGGCTCACTTATGGTGGGAAGGAGAGAGCAAGCCAGCTCAGCAGCGGTCAGG
TGGGGTCTTGTTGTTGTTACTGTTCTTAGGGACAAACTTAGGTAATTGAGTAAGACCTGCCATGCCTCTTCCCCTGACTAGGCACACAGATGAT
TACAAACCTGCTTCGATGGTAAGGACCAGTGCCCAGCAAGCCAGAAATGACTACTGCCCACTTCGTCTTGCTATGACTACTGCAAGGCCCCCTG
TTGCCTGCTCTTTCTGCCACCAAAACCACTAACATCCCAGTAGCAGCCCAGGAACTGCCCCCTCCCTGGTCCCCTGAAGCATAGCTATGGCTCC
CTCTACATCTCTCAGATTCACTCTGACACTAAGGGGCTCTGAGTACTCTGCATTTGGTATTAAAATTCGGAATCTGCAAGTGTTTAGGTTTCAT
TAGTGTGTGGCAGATGCTTTCTCATTGTAGTTAATTAGCAGTTGTTAGACCCTTAAACAGCCATCCAGACATGACACTAGTACTGTCAACAAGA
ACAAGGGAAGACACCTCAGAGACAAGAGACCAAATAAGTTACCCATAGGAAACCAAGGCTAGTCAGCAGGAAGGAGAGCTGGACAGCTAACGCA
CTGCCCAGCTCTGCTCTCATCCAGTTGGTTCTCTCAGGAGTCTTCTGTGTACCAGACATGCCAGGCTCTGAGCTGGAGACACACACAGTTGTCC
CAAAGACATGTTCCAACCCTCAGAGACAGTGCTGCCAAGAGATACACTAATGATAACCTATGCATCTGTCACATTTCAAGCTATAATAACTCGG
AAAAACAGGCTGCTATGGCAGCATGGAGTTGGGGAACCTGTCCAAATGTTATTGATCAGGCAAAGTCTTTAAGCACGTAGCACTCAGGCCAAGA
GCAGAGGGGTGGGGAGGGTGGCACAGCAGGGAGTTTCATCTCCTTCTGAGTCTCTAAGCTCTCTAATTTGGCCCAAATGAAGCACTTACTCCAG
CCCCTAGCAGGACCCCTTATGTGCCCCATTGCTGGGTGACCTTAGACATACCCTTCTCAGTCTCAGGTTTTACCCCTGCACCCTGCATAGGCAT
ATGCAGAGAGACCAGGAGAAACCAACTCTCTGACATCCCACTCTCAGAACCACACTGTCAGGCCTGGGACTTTGTACCCTCTGGAGGGAGGAAG
CTAAGACAAGAGCAAATAGAAGTCGGAAACTAAGCACTGCTTACTTCTTTTCAGTAATAGCTTGTCATTGCTTCATTTTAACCTTTTGTCTTGA
AAAAGAAAACATTAATTTTATTTTTTTTTTTAAAAATCTGAAAACCAATACAAACAAACAAAAACTACACCTTTAATCCTGCCAAGGCAGAGGCT
GGTGGATCTCTTGAGTTCAAGACCAGCCTCATGTATATTGTGACTTCCGGGCAGTAAGCGACACAGAGAAACCTTGTCTCAATAAACAAAAGAA
CAAACAAAAGTTGTGTTGAGGCTGGAGAGATGGCTCACTGTTCAGGCTCCAGAAGCCCTCAGTTCAGTCCCAGTACCCAAGTCAAGTGGTTTTA
CAACCTCCTATCACTCAGACTCCAAGTGAGTCCACATTCTCCTTCCGCCTCAGAGGGCACCAGCACACAAGTGCATAGACTTACACACAAATAA
AAGAAATGTTTTTAAGCTTGTGTTGAAGGTAGCTACTAAAAATATGGACAAAGCCATTCTTTAAATTTTATCCTTTTAAATACTTGTTGCTTGG
TGTGAAAAATACTTTGTCTTACAAAGCAATAATGCAAACTGACTGTATGTAAGTCCCCTCCCACCCATCACATGCATACTCACTAATGCCCTCC
TGTCAGAAACCCTCAGATGATGCAGACTCTGTTCTTTATGTAAATTTTGCGTATCTTTTTTGTCATTGTTTTGTCTTTGTTTTGTGATTTTTCT

GTGTAACAGCCTGGCTGTCCTAGAACTTGCTCTGTAGACCACGCTGGTCTAGAACTCAGAGATCCACCTGCCTCTGCCTCCCAGGTGCTGAGAT
TAAAGACATGTGCCACCACTGCCTGGTTTAATATCTTTATTATACCTTAGAAAATGAGAAAATGAGAAAGCAGATTAGTATAGCTGGCTGATAC
ATTTACTTTTTAAAACCTGAAATCTTAAAAAATCTTTACTCAGAAAATCAGAGTGAAAGCCACAGGTTACCACATCTGTAATCCCAGGACTCGA
GCCACAGAGGCAGGAAGGACCAGGAGTTGGTGGGCACAGCATCTTCAGCTACATGAGTCTGTCTCAAAGAAGGGAGACCAAGATAACTGTCTGA
ATTGTGCGTAGTTTACTGCCAGAACCCCATCCACTGGCCATTGTTGCAGGAGTCTGAGGAGGACCCCAGGATTCTTTTCCTGCCATTTATGGTA
CAGGGTTTTTATGTATGCCAGAGAGAAATATCCCATTTTACTTTAGATATTGTCAGATTATAGAGCCATGGATTGCTCTAAGTGAGGATGTATT
TAATATCTGTCCATCCATTCATTTATTTATGAACAAGAGAATTCCAGCTGAGGTGCGGTCCTGGCTGTACACTCGACACTGAGGAAAGCCTGAC
CCCCTGACCCCAGTGGCTTGGAGTTGAAGCTGGACGGACAGAATACCAAGGACAGAGAGCTGTGTAAAGAATGCTTTTAACGAAATGTTAAAAC
AAAATGACTGCTCAGAGAATCCCAGATCATGCAGGCGGTCGCCAGCACTTAAGGAAAGAGAGAAACTCACTTTAAATGGAATGCATAAGAGTGG
AAGAGAGTGATAAGCACTTGCCTGCTCCAGTGTTAGGGTGAGATGCCACAGAGAGAAATCAGAGGATTTTCTGCAATTTTGATTTCATACTGGC
ATGAAAGAGATGGAAAAGAAAATTGCATTGCTGGAAAACGCCAGGGTATATTTGTTAACATTGCTATGGTGTACTGTATTTAAAGCAAAAATGT
AATTGCTGTAATTTATCACGTCTGGCTATTAAAACCTCCATAATTTAAAGATTTTAATCATTTGCCACTTTTGCACATAGTGACTTTTCGTAGA
TGATGCTGTGACAATTCTGATTTTTATCAGCCTTTATATGCTTTGTGGCAGCTCCTAAGCATCATTAGTGTGATTTCAGCATGCTATTGTTTGC
ATAACTAATACAAAATCCTTGTGTTTTTTTCCTTTGGGCTGTTCAAGCAGTGCCCAGAACTGCTTTATAGTTGCTGACCCTAACATGAAAACGC
AGGCTGCTAGGTCCATCTTCATCTGTCCACATCTTTCTAACTCTGAGACAAGCAGGGTGGGCTGTGCCTGTCCTTTAGATGTGGAAAGCGGATT
CTTCTAATAACCAGAGACTCTTGAAAGTGTCTCTGCCTTTGAAATGAGTGTGTGTGTGTGTGTAATGTGTGTTCAGGTGTGTGTGTGTCTATGT
GTGTGTTCATTTGAATAAGAATGGTCCCCCACAGGCTCATATATTTAAATGTTAGCCATCAGACTCATAAGCTGCCATCCAGGCATGCCCTGTC
TAGTAGTGTTATTCACTTGAACCCTCTCTGGCTGGTAGGAGAAAAATAGGAGGAAAGCAGTCACACAGTGCAGAATGAAAACGTCCCAGGAATA
AAGATGGACAGAATGGGTAGGAGGAAGTGAGAAGTCAGCCACGGGCAAAATCATTTCCCCATGGTATGTGTAAGAAATAGAAAATATGGCCCAT
TTCAGTATAATGTATGGGCTCTATCCATTCACTCCATCCTAGGGGAAGCTGGAACTTCTGTGATTTGTGGCACCTCATAAGACCAATTTGTGAC
TTTATATACCTCAGGACACAGGAGAATAGTATGATGACCTAATCCTGTGTGTATTTATTAAAATATAGCATTATTTGAGAGAGATATGGGAGTA
TTCATGTATACATACATATTATCTTAGACACTGTTCTGTTGCTATGAGAGACACCATGACCAAGGCAACTCTTATAAAGGAAAGCATTTAATTG
CGGATGACTTACGGTTCAGAGGTTTAGTTCATTATCATCATGGTGGGAAGCATGATAGTGTGCAGTCAGATATGGTGCTGGAGCGGTAGCTGAG
AGTTCTACATGCAGATCCACAGGCATCAGGAAGAATACCACTAGCCTGCCTTGGGCTTTGAAACCCCAGAGCCCACTGACACACTCCATCCATA
AGGGCCACACCTACCCCAGCAAGGCCACACCTCCTAATCTTTATAAGTAGTGTCACTGCCTGCTGACTAAGCATTCAAATGCAGGACCCTCTGG
GGGCCATTCTTATTCAAATCACACACACACACACACACACATGCACAAATCAGGAATCATACTCCAGACCAAGCACATACCATTCAGTGTGATCAT
GGAATCGTGTTCAGAAAGCTAGCTAGCTCTTCTCTTTACTGACATACAAGAGTTTTGAAGTCCAACTCTTTGAAGAAAGATTTAAAGTTATTTG
CTTAAAGTCACTGAGCCAGGCCCAGGGCATAATTCATCGCCACACCCGCTATTCCTTCACCATCTTCTTCCTGTTCTCGTCCCCCAACCTGTCC
CCTGCAGATGACTTTCCAATACTTCGTCTTCCCTCTTCACCCCAGTGTAGGATCTCCGGCTCGTGAGTAACCGCGTCTCCATTCTGCAGGTGCG
AAGTTTCCCATTAAGTGGACAGCCCCCGAAGCGGCCCTGTATGGAAGGTTCACAATCAAGTCTGACGTATGGTCTTTTGGAATCTTACTCACAG
AGCTGGTCACCAAAGGAAGAGTGCCATACCCAGGTAAGGACACAGACCCGAGAAACGGTTGTCTGTTGGGTTCTATTTTAACTTCATTTTACA
GGAGTCTTGCCCAGCTGCCTTTCTAAGCCCTGTGCTCAGCCTTCTGCCAAGGTATTTAGCCAGGGGAATGCAGAACTCAGAATTGCCGTGACCT
GTACACCAAATTCAATGTGCTAAGCAGCTGGTATAAATGTTCCAGTTCCCACAGGTCATGGAATTTGTCCTGTCTCAGTAGGTGCATGTGTCAT
GGCTCCCACAGCAGAAATGTCCCTGGCAGAGCCTGTGCCCAAATGGAGCTTGTAGACACGTCTGGGAAAGGGAAGGAGAAAGGGTCCTGTTGCC
TTTTGATCTCGTAGCACTGACCCACAGAGCAAGCCTGGCAGGAAGATGCCCGTCCTGTTCTCTCTGAGGCTCCAGCCCCAGATGGCCCCAGGCG
GAGGTGCAGGAAAGGCAGTTTAGGCTGACCAACCCATTCTCTGCCTGTGGCTGAATGGCCAAGATACACAAAATGGAGTGTATTATGAGGGTGC
GGGGGCCTCTGGGAGCCTGCAGTTGTTCTGGGCTGTCAGATGCTCCCTCTGTGAAGAAGCTGTGGGTTAAGGTTGCCCATGCTTAAATTCATTA
ACTTAGCCAGACGGAGACATAAAGGACACGCACCATTTCGCCTCCACACTTTACTGGTTTCAGGGCAGGGACGGTCTGCTTTGTGAAATGTTAA
GGACATATTTTTCAGTTACTGCTGAGCAAAGAAAGAGCATAGCTGGCTCACTCCCTTCATTCCCTGCCTCTTAAAAAGGGAGAAAAGAAAAGGC
CCACAGTGATGGCACCGATAGTAGAGATTAATGAGGAATGTAGGGCTCTTGCAAATCCTGGGCTTGTAATCATATCTCTGCAGTCAGAGGAGCC
AGCGAGAGCCGATTAATTTGTAATCCCTTTGTTCATTTTGTCTGATTGTTTCTGGTCATCATCAGAGAACAGAGAAGTGTTCATAAAGAGCCCC
TCTGTCTAGGCTAGTACAGCCTCAAGACCTCTAAGGGAGGAAGATTGGCACTGAGGCAGGATTCACAAGTGCCAGGCTCTGAAGCCCCAGCCCA
GCATTGGGAGGTGTGGGTGTGTGCGTCTTCTTTATTGCTGCTGCTGCTGCTGCTGTGGCTGCGGCTGCTGCAGCGGCTGCTGCTTCCGGCATGC
ACAAGTGGGCAGACACTCTGGGAATAGTCAACTGGCAGAGAAGAAAGGGCTGCCCAGGAGGGGGTGGGGCCCAGCAGGGGTGCTTTTGAATTGC
TTCTCAAGGATGAAAATATACCGTCTCCAGGTTTTAAAAGTGAGAAGGCACTTTTTAAAAATTATTATTGTCTATATTTTGAACTAATTTCTTC
CTGATCTCCCCAGGTTTATAGACACCCGGTGTGTTAAAAGCAATCACAGGAAAAGGTTAATGTTGTTTTGCATTTCCGTGAAGCTTTCTCTTAC
AGTAACACAAAGATGCTTTTTGTTCTTGGGTCACACACACACACACACACACACACACACACACACAGAGGCCAAGACAAAGAGGTGGGTGTGGGG
GCTCAGAAGAGGAAGTATTTGGAGACCGGGGTTTTGTCAGGTTGGGTTTTAGCACAAAGAAAATAACCTAGGTTTACAAGTCTGAGTGGATGCC
TTCACTCAGCATCATTTTGTGTGGCCTGGCCTAGCATTTGTTCCCTTGGGAAGTAGCACAAATGAGCCATTCAGCTCTCAGGTGGCACTGATGA
GTTCCTGTCCCCGAGCAGGTACTATTCGAGCTGGAGGGAAAACCATGAGCCACTAAATAGTCCTGCCCTCACGGAGCGTTACTGCGGGAGAGTG
TTTGTGCCGTGCTTATGGAGGGAGGTTACTTAGATGGGCAGACTGTGTGTGCTCCCCGACCTGAGTTCTCATTATATATATGGCAGAATCGGG
GACACAAGATAGCCCTTCATTGAGAGACCCATGAAGAGAGCAGAGGAGTTAAGTGAGAACTGGGTCCAGCAGAGTATGTGTATTTACTATGCCT
TCCATGACTGCAGCTGCCTGCAGGGGCCATGGGCAAGGGAGAAGGCAAGTAAATGAGACCATGGAGAGCAAGAGGCTCGCTCACGATGAACAAG
ATGTGTCGTCCTGCCTGTCACCCGGAAAAGCTGCAGAGACTGTAGGGAGGGTCTGAGACGATGGATGAGGTGACGTCCTTGATGGCCTTAGAAA
GGGGACCGAGCCAGTTGTGAGGGGTCTGTGTGCTGCCGTGAAGAGCCATTGGAGCCTGGCAGGTTGACTTGATGGCCCAGAGAGCTGCCTGCAG
CAGAGAGGCCATTCCAGACCTGTTCTCATAGCCACGGACACTGCTTAGTTTTATTTTGTAACTCAGCTACTCAGTTGGGCTTCTGAAAGTGACA
GAAACTCTAAGGGAGGAGCTCCTGCAGAGACATTATAGTTACAGGGTTGCTAGCCTAGCAGAGGGTAGCACTTAGCATTGTCCACATGTCACCA
TGGTTGTCGCTGTGGCCCAGTCGGCCAGCCTGTGCTGAGTGCTCACCTTGCTTCAGCCCTCCTGCACTGGATCTCCCATTCCCTGCTGGTGGGA
GTCCAGGAGAAAGTCCAGGTCTCTGTGTATCAGATGCTTCCATTATGCACTTTGACACACTAATTTCTCAGTTTCCTAGAACATATTTTCATGT
AATTCTCTTCTCAAGAATGGAAGGTGGTGATAAACTTGCCTGAGTTCTTTCATACCTGAGATTGGCCCTTTGTCCCCACGTCACATAGGAAAGT
GCTCTGGCTCATAAGTGACAGTGAAAGGAGATGGGGGCTGACTTACAAATGAGCTTGGCAAAGATCCCCAGACATTTCCACCCAGCATGTAAGT
CAGTGCAGTCAGCGTAGAAGGGAGCCTTGGAGAAGAACTGAGTGATGCTAGAGGCGTGGCCAGATGAAGGGCAACCTAGCACTGAGTAGGCGCT
GCTGGTGTCCTCAGGCTGTGCTCACTGAACTGACCAGAGACGGAGGAAGGAAAGAAGGACACACTGAAACTGAACAAGGCCTTGAAGCCGTAGA
GGAATATTGAAGTGTTGTCCTGAGGTTAAAGGGAGCTGGTCAGGTCCCTATCCACTTCCAAGATGGGTGACAGAGACGGACACCATTGCAACGC
ACAGCTCGCCTGCTGCAGCCCTGTGGGCTAAAAATGGGGTCCCGCATCCTGCCCAGGGCTCAGGCTGCTGGGTAAGGCAGGACATGGGAAGTCT
GACTTGGTGCACCCCATGCCACTGTCAGGCTTGAGAAGCTGCAGGACCCTGCTCTGGGGGCAGGGTAGCTCATTCTGAGGTCTCTGCGGACCTG
CCGGGGTTGGCTTGGGGTCCCCGGGCCTGCACAGAGGCTGAGGACAGCAGGTTCTAGCTCTTGGGTACCACAGAATGCCTCAGAAGAGCTGAGA
ACAGAGTAGGGGCCTTAGGGGCTGGCTCTGGAAAAGAGTGGGAAGAGAGCTCAGGCTGGTTCCCGAGGGGAGGAGAGTCTTTGGCTTGCTCAGT
GGTCAACTCAGGTTGGTTAAAAGGGTGGCTGAGAATGCAGAGAGGCCTTCTGTGTGAGATTAGGTTCTGTTCTTTAGAGCATTGTTCCCCACTG
CGGGTCCCCATGAGAAGAGACAGTCCATGGTCTTAAGGTGTTTAAAGAGAAGGAAGAGACTAGGGAAGTAGAGACCGGCCATGGCCACATTGGA
GGGAGGGGGGTGCGGAGAGGAGAGCAAGAGAGAAGCAACCCAGAAACAGGAGTAAGAGAGGGAGTAGGGGGCAAACATCCCTTTTGAAACCTGA
GCTTGCCAGGTAACGGTGGGGAGGAGCATATCTGGCTGTTGCCAAGTAACCGTGGGGGTGGAGTCCAGACAGAATACCAGGAGCTTGGGGCCCT
GTGTGACTGGTGGCCACAGAATTATGGAGCTGGGGCCTCATGTCAGGAGCCCAGTGTCTGGGGGCGTAGCAAACGCCTTCTGTCCCTTGCAGGA

ACACCTGCTGGGTCTCCAGGGTTTAAACCTAACTCAACCAGAAAACAGGCTGCCTTTCACAGTCCTAGACAGCCTATCAGCTGTGCCATCCTTG
CTGGAGTCCAGCCTGCTTTCTGTATGCAGCGCTTTAAGTGTTCTTTGCATCGAGATTAGAACTGTGTTTAGGCTAAGGGATTGTTGTATGTGCG
CAATGGTAATGCTGGCGCCAAAGCTGTTTCCTGAGCTTGCTGAGTAAAATCGTAGCTTTGCATTTTAGCATGACATTTCACCTCTAGAAGCTTT
CTCAAATTCTTTCCCCCTCCGCCTTCCCTGCCCCTGCCTGTATCAGGCTGTCACCACTGGGTGGTGACCTCCTAATGGAACTTCCTGCCCCCCC
CACCCCGTTCCTCTCCCTTCCTCCCCTCATCCTCCACCATTTTGTCATTGTCGCCAGCAGAAATGTTATCCTGGAAAACAGATGAATTATCTCA
CTCTGGTCCTGATTAAAGATGCCAAGGGCTCTTGCCCTTGCCCTCCAGATAACTCCAGAAGGCCGCACCCTGCACAAGTCCACAAATATTTATT
GAATGCCTGTTATGCATTGAGTGCTTTTCCAGACCCAAGGATTATAGCAGTGAAGTAACACGAGAGTTCCTGCCCTCAGGAACGTTTTTTTTTT
CTTGAAGAATATAGGCAATACAAACCAACAAACTACACTCACCCTGGCTAGTAGCATTGAGTGGAGCAAAAGAGGAATGTGGTTAGGAGATGGT
GACAGTGGAAGTCACTAAGAGGTGCTCGCTGACTATAACTCTGATAGGAGCTAGCCTTGGGCCAGGTGGGTGTCTAGGGGCACTGTGCCACCTG
CAGGGAGCCAAGGAGCCAGGGAGCCAGAGGCCTGGAGCGATGACTGGTGGCTTGTGGGGTTGTAAGCAAGCATGCTTTTTACTCTTTTTGTTGG
GGTTTAGTTTTGAGCTTGTATTCTCGTTACAATGTTTCTCCTTGGCCTTTCCTCCTTCTAAACCTTCCTAGTTACCCCTCCCCACACACTCTTT
CAAACTCATAGCCTCTTTTTTCATCAGTTGATATTGCATGCATAGATGTGTCTGTATACACATGCATATATATTTCTAAATACAGCCTGCTAAG
TCCATACAGGGTTGCTTGTGTCACCATTCCACACTAGATGACGAGTTGGTGTGCTTTTCCCTGGGGAGGGCCACCTCTCGCTCCAGCTTCACTC
AGTTGCCAATAGTTTTTGTGTAGGGTTCAGGTCTCATTGGGCTTTTTTTCCATTCAGTTGACATAACCATTGGTGTCCTCCTTCGTCAGGTCAT
GTTTAGGCAGTGATGCTGGTGAGACTTTACAGGCGTAGCTTCTGATGTTACTAGGAGACAAAACCTCACAGAATGCTGGTCCCCTGGCTCTTAG
AGTCTTTCTGCCTCCTCTTTGCAGTGTCCGGAGCCTTAGGTGTAGCTGTGTATTGTAGGTGTGAGTGTTCTCCTAACGTGTGTGCAGTGAGCAG
TGTGAGGGGAAGACTTGACTTCGGGTGTCTCTGCTGTCTCTCTCCCTTTACATCTTGGACACCCCAAGGAATTTGTCTATGACAGCATCTCACT
GGGTTAGCCGAGAAGTGGCTATGTAGACCAAGCTGACATCAACCTCACAGAGGTCTCTCTGCCTGCCTCTGTCTGGAACTCCCGGCAGCTCTGC
CTTCCTTGAGAGGAACGGGGCATCTTCCATGTTCTGATTCCCAGCAGTGTCTGCCCACAGTAGACTCTGTAGAAGCAAATAAAGGGAATGTGTG
AATAAAAGGGGAAACATTTGAACTTTTTTTTTTAAAAAAAAAAAAAAGGAAGACTCATAGGTTTTTAAACATTTTTAAAGCTGCCCCATAGCCTC
CAGAGCCTTATAACTCTGCCCGGTTATCCTCACATATGGCCAACACGGGGTGAGTGTTCCCAGCCGCAAGGTAGCCTCTGTCCCCAGAGTTCTG
AGAAGTTGACCCCACGTTCAAATTTCATATTCCAGTAACCCGATAGGCAGAATGTCCTGGCCATGCCAAGCCGTGGCCCTCGACTGAACACCTG
CTTGTGTGCTGGCGGGATCTGGCAGAACAGGGCTCTTCTCTTAAGCAAATCTGTTTGTCTGTGCATTGGAAGCCTCCTCAAATCGTTCTTTCAG
CAAGTGTCAGCTGCTTAACTTCCTTGAGCAGAACTAGTCACTTGGTAATGACCTGGAGGAGTAAGGTGAGCAAGCAAAACTGCTCGCACCTCCT
GTAAAAGCCCAAGCGCCGCTTTTTGCCCCCTTCCTTCCCCCCCCNNNNNNNNNNNNNNNNNGCATGATCACATGCCATGAAGACAGGTATT
CTTGTGTTCAAGCTGCTGACAGGGGCAGACTCCCTCAAGGAGGCAAGTGTGGACTGTCCAGGTAGAGGGGCCATGAGAAACAGTCTGAAAACAG
CTGACCTTAGCAGTGCATGATGGGTCCTCTGCCTCCGCAGCCCATGGGCCCCAGGGCCAAAGCACTGCAGTACACTGTGTTCCTTCAGAGAGCT
CGGAATGCTGTCTCCTCCCCTGCAAGGTTTCTCTTGGCTGACGTGGCTGATAAGGGGAAGAAAGGATAGGAGGCTGTCCGTGAAGCTGGAGGGC
ATAAGAAGGGGCAGTCTCCCAGTACAGCCTGAGCGCAGCGCTCTGCCGCTGTCTGGTCTTAGCTGTGGTCAGGCCCCTGCCTCCCACACTGGCA
CCTTCACCCTCTTTTTTCACTCCTCTCTTCAGAGGACAGAGGAGTTCTTTGTAGCACTGTATTATCGAAAGCTCAGGCTTGGAATCCCAGCACT
TGGGAGACAGGAGCAGGATTATTACTGTTAGTTTCAGGTCAGCCTGGGCTACGTAGCAAGCCCTTGTCTCCAAAAATAAAGAAAAAGAAAACAA
GAAAGGAAAAGCCCAGAAAGTATAATGCTGCATTATCCACTTCAAATCACCTTTGTGTGCCGCAGCTCTCCCAACCAGCATTTCTGATTTTATT
AATACAGCGGTTTTAATAAAAACTGCTGCCCCAGGTGACTGGTGAGGGGGCTAACAGTAAACAAAACTAGTAATTATTGTCTTCTCAGGGTCAG
TCCTTCATCTCCATCTGTACCCTCTGGTCAGTATCCCTCTGCTCCACATTTGTACTCTGATCCATGGAGTGGCTCTCCAAACCTCCTGGTTGTT
CCTGTAAGATAAGGGAAAACACTGGGTAATCTGATAACACATGCAGCGGTGCACTGCAGGCTCGCTGAGCAAGCACCATTAACTCCACTGGCCT
CTCTCTCAGCACCCGTGTGGCAGCTCACAACAGCAAGCAGACAGATGGGTTTTTAAGAGAGCTTATACAGGGAAGCAAGGGGCCTGAGACAGAA
GGCCCCATCCATACACAATATAGTATCATTCTCTTTGAATGAAAAGCTCAGTTCGAAAAAGAAATTTGATATCAGATAGCCTGAGTATCATCTC
CATTGTTAAAACATTTATTTACACCATGCAGTTGTCCCGATTCCCACAGCCATGGTGAAGTCCACGCATGACTAGAAAATAAACCACAGACTAC
AGGTACGTCTGCTCTGAGGTCCCTTGAGAAGCCACACAAGTGGGAAGCAGTAAAGTATTAATACTTTTTTGGTGAGACCTTGTGCTAAGGTGAT
GGATAAGGTGTTCTGTTAACAAAAGGAGGCGCTGAGGCTGGAGCAAATCGGGTCCCCTGCCAAGAGGTACAGAGTCTGGAAGTGACATCTGTTC
GGCGTTCTGCCTGTTGAAGTGGCTTTTGTTCCTTTCCTCAAGAGCCAGAAAGAAAAGTGAGGAGGGTCTACTGAGTTCTTGGACAGCTCAAAGA
ATAATACTGATGCCTACAAGAAGAGGAGAGGCAAGGACCCAAAGGATAAGGGAAAGAAAACATGGGTACATATGACAGTCTGCGTGGCAACTGC
ACAATGTCTGAGTTTGAAGGAAGAGTTGGAGAGCTGACTTCTCGTGTTTGAGAAGGAAGCCAGCAAAATGACTCAGAAAGAATAATACAGAGAT
CATGTCAGGAAGTGAGTGCAGTCCACTTGGCCAGAGGCTCGCAGCTACAATGTTTTAGGCAGAAGGACTGGAGCTGTTACAGCCATGACCATGT
TTGAAAACATGAAAGAAGGAGTTGAAGGGACATCTCAGAGCAGCAGGTTGTGGAGTTCTGTGAACTCAGGCCCATCACCTGGGTCCTCGGAAAG
AGTGGAGACATGCTGTTCTCCTGAGCTCTGGAGCAGAGGAGAGCTGAGATCAAACTGGGTAACGGAAGGGTATTTTTTAAGAATATTATCATGC
ATGGTGTACTTAATTGAAGTACTGTTTATGAATGGCAAACTCACTGAGTCCTTGCTGAGCCAGAACATCTTGACCATTGCAAAGGTTCACTGCA
GAAGTGGCAGGTTTGCAGGGCCGCCCACCCACGTGTGTTCTGGCCTTTGGTTGGTTGGAAGACAGCTATTCTGTTGCACTCGTCACTCAGTCAG
TTGCAGTGTCTACTCTTTTGACAAAGCTGCCGTTGGTATGTGTCTGTTTCAGCCAGTGCGTAGAATTGTTCATATATTCCCTGGACTTTGGGAG
GTCTGGAGAGAGTACCTGGAAAAATAAAAGGAGAAATGGGGTGGGGGTTGGGTGCTGCAGGAAAGGAGGCAGCAAGCTAAGAATGCATATCAAA
GCTGACAGTGTGGCCTTGCAGTCTAGTCCAGTCCTCACTCTGCATATACTGAGTATACTGCATATATTCTGTCCCATGGACGGAGGCCTTCTCA
GCAAATGTGACATGCTGTTTTGGGTTGTCACATGTACTATGTCCAAGTCTTGGGTGGAGCACTGGAAAAATAGGCTTGACCCAAATGGCCAGTT
AAACTTTCCATTGGCAGAGACTGAATTAAACGTTTAAAGAAAAGAAGTATTTCCATTTGAGGAATTTGGATTTTTAATGAAATAAACCATTTAC
TGACAAAAAATTCACGGAATTCTGGGAAAGTAGTTAATTGAATCCTGTGGTGCTGTGCTGTGCACTCAGGGCCAGGTTAAAGCCTTGAGATGTA
TTTGGGGAGCGGTTGGAGCGGTTGGAGCTGCTCCCTAGAAGCCAGATTCTAGGGAGAGTCTACTGTCATACCTCTGAGCTTCAGGCCTCTATGG
ACCTTTCCTCCAGGGGCTCCTGGCAGGAGCCAGAACAAGGGAGATTCCTGCAGACCCAAGCTGTGTAGTTCCAGAAGCACCATGAAACTAAGAG
GTTTATCTACTTAATTGTGCAGCAAGGAATTGCCTGAGAGAATACCAGCCCCTATGTATGGCTGTGTTCTTGTCTTGGCCCTTTAGGCTTCCTG
GAATAGAGACAGGTGGCTGTCTTGGAGCCCAGCTTCTCAGCTAACCTCCCATGGGAGCAAATGCACATTGGAATCAGACATTGTTTTAAAGGC
AGTGCACTGATGTGTTACATAACACAGAAGGGGAGTCTGGGATGGAACATAGGAAGGAAGTGCCATCAGGGCTTCACAACACAGAGGGTTTATG
GCTGCTTCATGTTTGTAGAAATTTTAATCCCAGTCCAATGTTTCTAGCCACTTTTGACCATTTAGTTAGCAGGTAAAAGATGCACACAACCTC
TATATTTAGAGTAAGCCTCAATCAGCACTAGAGCTGGGCAGATACCTACCATCTATGCTATTAAGCCTACTTTCCTATCGATAACCCTGAGCTA
TTACTTACTGTTTCATTTGAGCTGCACTTAATTCCAATTGGCCAACCCTCAGGGCCACAGTTTCAGGCCTCCTAACCCATGGCACTTCTCCTTC
CTCCTCCACCTTCTCCTCTTCCTCATTCCCCCTTGTCCCCCACCCCAGGCCCAGGAAACCTGAACCCCACCTATGTCTCTTCTGTCCAGCTATT
GGCTGTTGGCATTTTTATTTACCAATCAAAAATAACTTGGGGGCAGAGTCACAGGTCTACATGAAAACTCCAGGTCTTGCCCCACACACACACA
CACACACAATATTACAATAGACAAGAAGACCAAACCCCAACAGGTTCAGCTCTGTTATTCTGCCGAGTGCCATTTCCTGAGCTTACTGGGGTTT
GAACTGTTCCTGAGGAAGTGCTGGCCTCCGTTCCTTCCCTTTCTGTCTGGAGTATCTCAGAAGAGAGCTGCAATCCGTGTACCTTCCCTTGCCT
TCAGCTCTCCATCCTAGATCCTGGCTCCTCAGTATCTGGGGGAGGAATTGAGCTCGTTGGCTCCAGGGAACACCCAACAGAAAAAGGTACTCCC
ACACTGGCCTCAGCATTCTCCCAAGGCAAGGGGCTTGCCTGGCTAGAGTGAAATTATTTGGTCATATTAAAGGTCTACTTAAACACAGTCAAAG
GAATGCTAAATTTTGTCACCACCAGAAATTATAAGTACAGAGAATAAAAGAGCATCCTACAAGGACTTAGACAAACAGATGACTGAAATAGTTG
TCATCCAGGAAGACCTAGCTAGGATAGGTCCAGCTTCAAAGATGAGAGCAACCCAGAAGCCTGGATGCTCCCTCCAGAGGGAAACAGGAATGTG
ACCTCTGGCCAAGTGACAGGTTCTGACCCAGTGGTCACCTCCCCCAGAATTAAAGAAGGCTGTGTTGAATATTATGTCGATTCCTTACTAGTGA
CAACCCTGAGACTCATGCTGTAAATTACAGCAGATTCTTGCTGCTGTAAACTAACTGTCAAGAGTTAGGGAAGATTTTAGATGTCAGGCTCACA
AGGTCTTGGCAGAGAGAGGGAGAAGGAAGGGAGGAAAGGGAGGGAGGGTAGGCGGGTGGGCGGACAAGGGAGAGAGTACCTGGAAGCAGCTGAG

AAGGGAGCACACTGAGTGATGCCTGCTTCAGCTTCCCATGATGCCTTCTGCTCTGCAGCCTGAGAATGTCAGCATTAGGCAGCTCCTGCAGAGG
GGCAGGGAGGTCTCAGATGATAGATGGCCGGATGCTGTCATTCATAAGCAAAGGCCCCAGAGACACCCTGCCTCCCTGTCACAGTTCCCAAACC
TCAGAGCACTGTGAGGGTCACCAGGCCAGATGGTGCCAAGCCCTGCTGGCATGAAGGCAAACCTCAGACGCCATGCCTAAGCATGAGGAAACT
GTGACATTCACTGTAGCTCTGCACATAGAAGACCTGTTGCTTTTATTCTACAGGGTGTTTGTGTGCTTTAGTCATACAAACATTTCTTTTTTAA
TTTCTTTAACTTTACATTGGTGTTCTGCCTCCATGTCTGTCTCTGTGGGGGTGTCAGGTCCTCTGGAACTGGAACTACAGGCAGTTGAACTAAC
TGCCATGTGGGTGCTGGGATTTGAACCTGGGTCCTTTGGAAGACTGAGTCATCTTTCCATCTCCCGAAGATTCCTTTTTAATTATGTTTCTTGT
TAATTGTGTGAGGATATGTGCACGTATGTACCAGTATCTCCTGAAACCAGAGGTGTCAGTTGCTCTGGAACTGGAATGACAGGCCGCCTAGTAT
GAATGCATGCTGAGAATTGAACTTGGGTACTTTGCAACTCTAAGCAACATTCTAGCAACATTAAGCCCCTTCCCCTAGTCCTGTGTTTTACCTT
TCCTAGTGAGTATAATTTACACATAACAAAGGTTAATTTAAAAGTATACTCCCATGAGTTTTGACTAGTGAAATTTGATTGTTCACACGGACTA
ACTACACTGGGGTCATGGACTGCAGCCTGAGTTATTTCTCATGGCAGAGCATGGCTCCCAACCTGGCTTTGTTTTAAACTGTTTCAGTGACAGA
AATAAGACAGAGCTTGCATGTAGCCCACACAAACAAAATATTTGCTGTTGGCCTTTCACAGGAAAAACATGGGCATTCAACCATGGCTTCTGTC
ACCTCTCAGCTCCCTCTGCCCTTTCACCCGTGGCCCCCACCCCAACCCCAACCCCCATCCGTGCGCAGCAACCTCTGATCTGGTTTCTATCATG
CAGTCTCTGGCCTTTCTAGGGTCTCATCCAGGTGAAATCGTACAGTGCGCTGCCTCTTGTGTCTGGCTTCTTTCACGTGTAGTGCTTTGAGAGT
CACTGTCTGGGCTTTTGCATCTATGAGTTCTCCATTCCTTTGTTCCACTCCTTCGTGCTGTGATAGCCTATTACAGGCATGGTTCCCCTCCTGA
GAGGGAGGACGGCCTCCTTATGCTTTAACCTTAGCCACGTGCCCATTCTCACTGGCCCCTGTCTTCGCAGGCATGAACAACCGGGAGGTGCTGG
AGCAGGTGGAGAGAGGCTATAGGATGCCCTGCCCACAGGACTGCCCGATCTCCCTGCACGAGCTCATGATCCACTGCTGGAAAAAGGATCCGGA
AGAGCGCCCGACCTTCGAGTACTTGCAGGGCTTCCTGGAGGACTACTTTACGGCCACAGAGCCCCAGTATCAGCCCGGTGAAAACCTGTGAGAG
CCTGCGCTTCAGACGCCTCTTCCCGAGGCCTCCCTACCCCTCCCCATTAGCTTCCAATTCTGTAGCCAGCTGCCCCAGAGCAGCGAGAACCGTC
CAGGATCAGATTGCATGTGACTCTGAAGCTGAACTTCCACGGCCCTCATTAATGACACTTGTCCCCCAGTCCGAACCTCCTCTGTGAACCATCT
GAGACAGAAGCGTGTTATTTCTCAGACTTGGAAATGCATTGTATCGATGTTATGTCAAAGGCCAAACCTCTGTTCAGTGTAAATAGCTGCTCCT
GTGCCAACAATCCCAGTGCTTTCCTTTTTAAAAAAGAAAAAGCAAATCCTATGTGATTTTAACTCTGTCTTCACCTGATTCAACTAAAAAAAA
AAAAGTATTATTTTCCAAAAGTGGCCTCTTTGTCTAAAACAATAAAATTTTTTTTCATGTTTTAACAAAAAATGATCAGGACAGGTGTTTGGGT
TTTTTTTCCCTTTTTTATACATATGATATATATGTTAACATATGTTCCTGTACATACACCATGTGGGTGCTACCATGGAGACTGGCCAGCGTAG
GCCACATAGCTACAGGACCGGAGTGGGGATTACTGCAGAACCCTGCCAGCAAAGCACTGGTGTCAGCCTGCAAGCCGGTGGCCTCATTTTTTGA
CTTCTACGAAGCATGACGTCCTCTCCATTTGGACTGCACTTTTTTGGTTCCTAATCATACCTATAGATTGTTCATGTGACTTTTTTCAGGTCCC
AGGGCCTAGTCACGAGTTTTAGTGCCAGTTTTTGCTCCAGCGAACTGTGATTCGTTCTTGAAACTTAGGAGTGAGCATTTTAAGCAAAAAGCAG
CCAGCCAGTTCTACCACAAGAGCTGCAAGACGGAGACCACACAAACTTCCTGTATAAATATGAATGCTGAAGGGTTCAGGTGTTTTCCTTTTAT
TTAATAAATCTTGTAACCACATTTAAATGGTCTAAACCCATAGCATTGTAGTCATGGCAACCTACTAAACTTTCTCAACTAAAAATTATG
GGAAGGCAAGGGTGGGGGGTTGTACACGTCCCATTGTAAAATAAGTGTTTTACTGTCCTGTACTGCTAATGAGTGACTCTCCGTGTCAGGAGTG
CTCCAGTGAATAACTATGCACTACTTTACATTTCATGGGGGTGCACAAAAAAAAAAAAAGTATTACATTTTTAGTTGCTGTTTGTACCAACCTCG
AATTACGTATGTTTAACAACAAATCAATTCCTATTTCTATTGAGTTTTTTAATACTGACTAGCAATTCTGAAGTCTTAATTCCTTTTTTTTGTT
AATGATTTACTTGTGAGTTTACATTTTTAAATTGTTTAACTTTCCTAATTTAGTAATTAAAAAGAGAGCATTTTACATTTGAAAAAAAAATTTT
TGTTTATTTGTGTACACCACAGAAGGTACCCTAGGCGTTCTGTGACATACCTGGCCCGTCCCAGATGGTGAGGAAGCACCTGGTAAATCGGGCC
ACTGTGCAGCGATTTCCAAACGACAGAAACATGCAGAGCATCTGGAGACCCTCCCCACCAAAAGGCAAAGCAGTTATCTGGCTAACTCAGAGTG
GCTAAAGCAAAACTGGGCGTACTTGAGCGCCATAGTGTATCCCGCACTGTCCTCTCGCTGGAATTCACCGTGTCCTATTTGTACAGGAGACAGTA
GTCTTTCTTGGTCTCAAGTCATAAATACATTTCCAAGTATCCTACTTCTAAAATGAAGTTGCTAAGCATGTGACCATGTGGTATGGGGGAGAGG
GGGAGGGGGGACTGGGTAGCCATCCAGGCCTGGATCTACCATGGTTCCCTGCAGAACTCCGAACCTCCCCTGCAGGCCAGTGTGTCTGGAGACA
AAGTACAGACAAGATGCTCTCCCAGCCTCTGGCAGCCCTGCCTTCTTACAACTCTAAGTCCACCGTGTCATATGGAGCCATATAAGGAGGAAAA
TCTTTCATTGTTGTGGAAATAATTACCTTTAGAAAAGATTATAGCGTTTTGGGGAGGAAGATGAAACATTTTTTAAATCAAAATTGTTACTATT
TTGGATATGAATACCATTGATAGAGTTTTGAAAACTTACGAGGTGCAGTTTTTATCACATAGGATTAGTCATTAGCAGGTTTTAGATTTTTGTT
AAGATAATTTTATTTTCAATCCTCACTTTGCATTAGACAATTTGCAAATATTCCCTGGAGGGTTTTTGTTTTGACTCATTGAAAGTCTTTGAGG
GAAAAAAAAATGCACTTTTAATTTCATACAGCTTTTTAAATTTCATCAAGTGAGTTCTCTGTGGGTTCCTGTATATAAAAGAAAACTAAGGACA
TGCATCACTGAGAGAGCACGCTTACGAGGTCAGAGTCCTGGAGCACTCTAGAATAGAAGAACTACAGTCAGGAAGAAACCAAAGAAATGTACAG
GTTTTTCCAAGAGTCCAGTGTGCTTTCTAGGGAGGCTCAACTCCCATCTGGAAGTGTCTGCTTCGTAAGTGATAGACACTGGGATCGGGAAACT
GAAGTTGCTCACCAGAAAGTTCTCTTATGACAAAGGAAAAATAGCACTTACTGTGAAGCAGGTGAAAATGTTTGGGGAGAAAACCTCTTTGTTG
TTTCTCTTTAAAAAAAAAATAATAACATTTTTATGTGTATTGGTGTAAGGGCGTCGGATCCCCTGGAACTGGAGTTACAGACAGTTGTGAGCTG
TCATGATGGGAACTGAACCTGGGTCCTCTGGAAGAGCAGCTAGTGTTCTTGACCACTGAGCCATCTCTCCAGCCCCTGTTGCTTTCCTTTAGTA
ACCCAGAATGAGGACTAAGGACTTACTCTCTGAGAGCCAACTGGGGTTACCTAGTTTGCACTTGGATACCTTTTTAATAAGCTATTCTCTTAAA
AGCTCACATAGGAAGCTCACTGGAGAAGGCCATTTTCATAACACAAGAGTAAACATTGGTTCACTCCACTGTCGTTGCACCACACACTCAGGCT
GCTGCGTTGAGGGACCTGATAGGATCCCAGCAGATGCGGGGTGCCACATGTCAGCAGCGACTCAGTGGACTTTAAGGGCCCTGCCCCAGTGACC
AGGTGTTTCCATGGGGAAAGCCAAGGGTAACCATGGTCCCTCGAAACCTGCCGTGTGACTCAAGATCTCCAGGCACCTGGCTGTGTTTACTCAC
CCGGAGACGACAGGAATCCTGTGAGTAAAGTCTTGGCAGCAGAGGATTCTCTAGTACCAGCAGAGCTATGAAATCTATCTATGATTTCTCACGG
GGCTATAACAGCGCCCGCCGTATTAATTGGGATGGTTCTTTCCTGGGAAGGTAAGATGCTCAGCGGTACACCCAGGAGAAAAGCGCCATAGCTT
TGCTGCAGAAAAGATGCCATGTCTATTGTTGGCCCTGACGCAGAACAAGGCGGCCCACAGGGTGGGCGTTTCCTAATGGTGTATTTGAGTAAAA
TGGTATTTGGTCAGTTTGTTCTGGAAGATATTTTAATACATTCAGATGGCTTTTGTTGGCTTTCTTGCCACTGTGTGTTACACTGACCTTCTTT
CTGTTAGGCTAGTGTCAGAAATATACTTTCTGGAAGGGAGATGAGACGGAGGGAAGGAAGGAGATTAGCTTTGATCCTGAAAGAAGGGGAAAAA
CAGCCTGTGGCATCATTATCTAAGTTTAATTTTTTTTTTAATTCTCAAATGTAGATTCCAACTCTACAGAATGTAATAAAAATGCCTTTATTAT
CTTCTAAATATCAAATGAACCTTCACAACTGTGTTTATATCAATATTCCATGAAGTTTTATGACAAACATCCAAACTATTCCTCATTTTTCCCG
ATGTATGAAATATACAGAATCCTATGGGAAGGACATGGAGACCTCTTTATATATCTTTATTTTAAAATAAAAGCGGGAGAATATAGCTAAGTGG
TAAGCCACTTACTTTGCATGCCTTTGTCTCTTGTCTCTCTCTGACTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT
CTCTCTCTCTCTCACCCTCTCACCCTCTCACCCCACCCCTCTCAAACTCTAGGCATTGAAATATAAAGCGGTTTGTGATTTTGTAGGAACCACC
CTGTAAGAATGCAGTCCTAGACAGCAGCCAGAACAAGCAGACTTCCTCTCTGGAGTCCTCAGAACTCATGTCACTGTGTGCTTCAAACCACCCG
TGTGTTCAGTAACACTTCTCTTCTTTCAGTGGGTTTTCTGTGGCAGACTGAGCACTCCTGGAGACCAGAAACTGCCCAGCATTAACGATTCTCC
TCTCCCTCACCTTGAACGGAGATGAGCTTCTGGCAGATGTGGGGCCAATGCATGAGTGGATGGTTAGATGGATGGTGCCTACCACCCAGTGGGG
TGGCGCTTTGCCTTCAGATGACACGCTTATCTCAGAGCCTGCTGGGTGTGGGGGAGCTGCGGCATGCGGCCCCAGCACTAGCCTGGCCTGCTAC
AACTCGAAGTCATCAGTCTTCAGGATAACTGTGAAAGCTTTCTCTCCAGCCTGAACCAGGCACAACCAGTGACCCCACTCCTTCCCCCAGGTCT
CGGCACAACACCCTCGGTAGAAAGTCAGACTTCTTGGACCGTGCTAGGTGACTGCCCAGAGTAAAAGACCAAGTGAGGTATAGTTCACAATGCA
TGCAAGTGAGGTGCCATTTGAATTTGATAATTTTATGACAACTGGATATTCCAGTTCCTAAGATAACCATCTTTGTGTTCATATAAAAATGTAT
CTCAACTGGGCGTGATGGTACACGCCTTTAATTCCAGCACTTGGGAGGCAGAGGCAGGCGGATTTCTGAGTTCGAGTCCGGCCTGGTCTACAGA
GTGAGTTCCAGGACAGCCAAGGCTATACAGAGAAACCCTGTCTTGAAAAATTAAAAAAAAAAAAAAAAAGTATCTCCATGCCCTCCAGATGTT
CAGTGTCCACGGCCTGTGGCTTGCAATGCCCCTATTGCAGCTCTCATGACCCAGGTACTTCTGGCCTACGTGAGAAGCTCTGTATGAAGTGGTA
ACTTATTGTAGTGTGAAGACTAAACGTGAAAAAGGTATTGTTGCCCCCTACGCATGGGGCTTTCCTGACTTCCCCACTCAAACAAGAACAGCCT
CATGGTTGAGTGGGAGGGAAGCCAAGGGAGAGCTTTATGACAGAAAGGAAAAGATAAGCCAGCTGGAGCCTCTGGAAGCAGAGGTCAGATCAGC

TTTCCTGGCCAGTCTGTTGCAAATCAGAGCAGGAGGGATGGAAACCTTAAATAAAGGAGAAGACTGAGCTGGGAAGAGAGGCGCCCTGGTCATC
ACTCTCTGGAAGAGTGGGAGGAAGGCAGACATGACAGGAGGTACACATGAGGACTAGTTATTCCTTGCTTTAAACTTCTGATGAACGTTCACTC
CGAGCTAGACCACGTGTACCAGAAACTCAAAGGTGTATGTTAATATTCACACCCCAGTGAAGACAGAGACCCAGAGCTGTCTGTAGATGGGAAG
CCCAGGGCTGAGTCGAAGGGAGGCACCCGTGCAGCATGGGGTCTGCAGGGCAGGCAGCACACCGTGGAGTGGGTTAGGTGTCACATAATAGGGA
CAGAACTTCTTGCTTTCAAGGTGACACCTGATTCTCATGCATTGAACACAGAAGCTGGTCAGTAAATGGATCTGAACAAAGAAAAAGCAAAGCT
ACATGCATCACCTCCCCACACACATCTGTCCTTCTAGATGGAGGTGTGGTAAATGGCTGCAGTCAAAGACGGGTAAGGTGCTTCGATGTGTGGG
TGGGGGAGGTGTAGCGAGTGCATATGGAACCTTCCTTACCTGCCAGCCTGTCAGAGATGCGGTGTCACTGTGCGCCTGTCTCTGCCTCCTGCCT
TGTGCAAAGAATGTTGGGATTACAGACATATGCCTCTGCCTCCAAATTTACATGGGCACAAGAGACCCAAATTCAGTTCCTCACAAAGGCAAAG
CAAGCACTTTTTTACCCAGTGAGTCATCTCTCCAGTCCCAAGAATAAGGGACCAGACAGGGTGTTGATTCCCAGGGTCCCTGCTGGAGTATGAC
TAGGAATATAGAATCCAAGAATTGCTGGCAAAGAACTTGTACTAACTCGGTCGCTCTCCCTGGGACATTTGACAGAGCTCTCCTGTTTGTCCGT
TCTTCGCTTGTTGGCCGCTTCATTTGCTCTGTCATACAATTTGCAAATTTATAAAAGTTACTGCTCAGAGTCACAAGGTGCTCTGGTTGTTTTG
TTCTGGGTATTTTTCCTTTAGTTAATTATCTAGTGCTTGCTCTGTAATAATCAATGGGTAGCTAATTGGAAGCAAGAGAGAATGAAATGAGTAT
TATTTGAATAGTGTTTTTAATGAAAAGCACACATGAAATACTATAGGGAAACAGCACAAGAGAATTTTTTTTCTTTTTTTTTTTTTTTTTTTTT
TGCATGTGTTTACAAACAGATTCACATAAGCTTGTCACAAACCAAATCCAAGTGTATGGATCATTTTGTTTCATTTTCCAGATCCCCCCCCCCC
CAAGGGGGTGAGTGGGCATTGGAGGATACCAGGCGGAGGCCAGGCCTCAGGAGATGGAGAACTAGAGCCCCAGCCGTCCTAAATGAAGCTGAAG
GGCTGTCAGTTCCCAAAGAGTGCATGAGGAAATGGTTAGCACGAGACAGCACTTGCATAGAGAATCAGAGATGAGTAACAATGGTTCCTGGTAA
ATTAGCCATATTACATCATGCACACAGTAACGGAGGGACGATTAGGAAAAATGAATACTAATTTGCCCAAATCCTTTACATAAAATGCATTGAC
TCTTTTTTTAATTTGATAGACTTTTTGATTTTTTAAAAACATGGGCAGCTCCAGGAAGCTCCCAGCAGAGCATCATTGTGAGAGGAGGAGGAGG
AGGGGGAGGAGGAGGAGGAGGAAGATAAACCATCGAAGGCCTTCATAAGCCATTTCACCCCCCTCCTCTCAACCTGCGAATATCAGAAAAT
ATTTGTTTGTACATTCCTGAAGGTCTCTAAGTGAAAATGGAAGGCATTAATCATTGTCTCTGCTATCACTAAACCATGACCTCACCATGTTGGA
GGGCAGGAAAGTGATGCTTCCTTCTATCTGTATGTCTGCGCTGACTCAGACGGTCTCTGGGTTTTGAGTAGTAGGGGGAGGATTGGAATGGAGC
AGAGCTGTACTTAAAACGGCAAAGGCAAGAACAAAAGCAGCATGCGTGCAGCCAAAGGGGACCTTGGAAGTTACACAGATGAAACAAAACGCTA
TGCTTGCCTGAGAGTCTGGTTTCCAAAGCAAACGCAAAATGGAGAGCCTTGTTCCAACCATAAAGGTCTCACCATCTATAGTTCCTTTGCAATA
AAAGGGGCCCTGTAATCTACTGTGACAGCCAGAAGCTGCACTGGTGCTCTGAATTATGATATTTGCTCACGACTAATACAGATTTTTCCAAAGC
AGCGTAGCATTTGTAGCTATAGCATCCTCTGCCCTTTGGCAGAACACAGCCATGTCCGCCAGCTTTCCCTGCTTCCGTTCCTTCCTGTCCCAGC
CCCCACGCCTTTCCACCTCTTCCCATTACAATCAGACCATTCTTGCTTCCTCCTTTGTTTGCTTCGGCACACCTCCCTTCATAGGATCCCTGTT
AATTTATTAAAATCAGACTTTTTTTTCTTTCTTTTTTAAGATGTATTCTCACTATGCATCCCAGGCTGACCTCAAACTCAAGACCTGCCTGCCT
CAGCCTCCCTCCCAACTGCTAGGATCTGGGGCGTGTATCCCTTAGGTCTCTACCCTTCAAGGCAAACCTGTGGCTGCTGGACTGCATCCTGAGC
AGGCATCCTGTAGGAGAGTTGCCCAGTCTCCTCTGGAAACTTACTGGTCTCAAAGTTGAACTTTGTAACCCTCAAATCTCAACACTTCTCTCCT
GGGAGCCCATTTTAGGTAGGCAGTTCCCTGACCCCAGTTCTCCTCCCTGCCTCGCCCCCAGCCCCCAGCCCCCAGCCCTGCCCCCGACCTATGA
TTTATCAGACTTTATACCTGAGTCTCCAGCGACTTGCTATCAATCAGCTTTATGCAAATAGAAAAGGCGACCCTACCTCAACAAGCTTTGCTGC
CATCTGCCAGGAAATTGCTACAATAAATATGCAAAAGGATAATGATTCAAATGTGAATGCCACCCTTTCAAATCCTGCAGTACAAAAAAACGGC
ACAAACTGGGGTGTCAATCCTGCAGTGTGAAATCACCGGAGCTGTCCTGAAACCCTGCATAAAATCATGGCCCCATGAAGTCAGCCTTGCCTGT
TCGTAGCAATTTTAAAATCTAAGCCTTTCAACCGTGATCAGAAACTGTGGAGAGGCGGTCCCCAGGTAGCAGCCTGTAACAATGACAGACTTCT
TTCTAGAACTCAGCCAGAGCGTGGACTCTAGTGTAGGGCACACAAAAGCATCCAAGTTAAGGAGTGGGCACACTTGACCATGAGGGTGCTAGGG
CAGAGACCATGCTCAACCAGGGTGGGGCAGGGGGTGCACCACACCCCTCTGCCTTCTCACTAATCACTCCAGCATCACCTCCACTTTCTGGTAA
TCTACAACACAAATCAACCCCAAAACCTCATGGCAGAAATAGATGCACATGGGTGCATTTTGTACAGAACTCTGCAGTTCAGAGGGACTTCTAG
CTACGACTGGCCTCTGCTCCTCAGGGCCGCAGCTGGGACTGCATGGAGGAGGCTGGGCATCTTTCACAATAGCTCCTAGCTGCTGAGCAAGAAC
CCAGCTGGGACTGTGGGTGAGGACCTGAGCTCCCAGGTGGCCCGTGGGCTGGCTCACACCGTGGGGATCAACCGTGTTGAGACATCCCAGCTGA
CTCATGGCAAAGCAGAGACAAGCTGCTCCCACCAAGCCCCGCCCAAACCAAGTTTCTAAACAAAAGAAATGACTGAGGACTCTAGCTATGAGGT
TTGGGGTTGTTTTATAGCAGCTCATCACCAGAATGTGTAGGCTATCACAGCTCCCTCGTATGCCTCCCCTCATGCTGTGTCTAGGAAAATGAAA
ACCGAATCTCCCAGGCTGCTATACTGTTTGCACCACAACCGTGAATTAGACTATACCGGTCAGATGTAGTTGTGGAAAGTTTGTAAGGCCAAAG
GGAGGTATATGCCAGGCCCCTGAAGCTTGTGCTTGTGTATGCCCTAGGAAGCAAGAACATGTAGCCACAGCTCTGTAGCAGCAGCTCCAACATT
GGTTTTCTGTCTCTCACCCTCCTGGTTCATGCAGGAGACCACAGTTCCGCTGTCTGAGTGGTTCCCTTGGTGAACCTCTTCCAGCCCTTCCAGT
AAGTCCATAAATTGTTACATTACATCTCTCTTCACTTAAAAGCCATAGGGTGGGGCATGCATCCTAGGCTGACCTGAGTCAGCATCCCCAGGTG
AGCCCCACTGTTCCATCTCCTATCTCTCTGTCCTTGCTTGCTTGCTCGTTTTCTCTCACTGGGCACTCTTGTTTTCTTTCCATGCTGAGGATGG
AACCGAAGCCTCCAATACAATACACTTATCAAGCACTCTCAGCCCGCTGGTCTTTCTTTTAGTATTTATCTATACTTGTGCCGGTGGGTTATTT
CTCTGCCCGTTGAAATGAGCCAGTTCAAGCCAGATTAGATTATATATAGGCAGGTTTATTTGGGTGGGGAGGAAGGGTGGNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNCTTCACCCCCACCTCCACACACAATCCTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCTCCTCCAAAAAAAAATGTCTGGAT
TGTATAGGGAGTAGCCTCTGGGGGAAGGGCAGCCCAGCCCCTGGGCTGGAAAGTTCAGGGTTGGGGGCAGGGTATGCCAGGTAGGAACTGAGAG
ATGCTGGGAGAACCTGCAGGCCAGGTCTGCTTTGATGTGTAAAACATGCACCTAAGTCCCTAAACCCAACAGTGCCAACCCAAGTTTCTCATGG
CTGAGAAAAAAGTCCATTAGCTAATGGGAGACAAGGAGTGAGGACTAGAAAAGGACACCCTCCGGGGGCCTGTTGGGTTGCTTTCTTTTGTATGT
AAAGTTTTCTAGAAACACAGCCATCCCCATTTGATTCTGTCCTGTCCAGAGCTGGCTTCACTCAACACTGACAATGTTGGGTGACTGGTTGACC
CAAAACTCTGAAAATACTTAGAATTGTCTCTCTGTGGATTCTGTAGGCACTGTGGGTCAAGTACCGCCGCGTTCGGGCTAAGCACTTCCTGAAC
ATCCCCGCTGTCATGGGGACTTCCATCTGTCATCACTATTAGTCTTTTTCTGCTGCTTTGTTTTGTTTCTGTGCAAACAAAACAAAGACTATTC
TGGAACTCACTCTGTAGACCAGCCAGGCTGTGAACTCAGAGATCTGCCTGCCTCTGCCTCCCTTACTAGTCATGGGAGTAACAAGTAATAACTT
ACTTGTCAGTTATTACTGACAAGGAAACCAATTTAGAGAGATCTGGGCCCAGTTGATTGAGCACATGGCGATGCTGTTAGCAGGGATACAAGAG
CCAAAGGAACAGAAAGGACTCATGGACTGGTGACTGGTGAGGCACCTGCAGCCCCATGTGCTGGGCTGTGCCCTCTCATGTCTTGCTACATGGC
TAGGAAGGGTTTCAAATCAATACAGCATTGGGATTCAAAGCACAGTTCTGTCACCAGCTAGCTGTGTGACTCTGGGCAAGCTATTTGACCTCTG
AGCCTCTTGCTTAGCTTCAGGGTCCTCAGTTAGTAAAGGGGACTTTTGAGGAAAAAAAAAAAGTCCTATGTGTAGGATATGAAAGCAGAAATGG
ATAGTGTGTGGAGGTGGGGTGAGGATGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAGGTCAGGACAGGGCAGGGTGGGAGTGGGGTGGGATGGGGACTGGGTGAGGTGAGATAGGGGTGAGG
TAGGAATGAGCTGGGGCCGGGGTGGCATGGGGATGAGGTAGGGTGGGGTAAGAGTGAGGATAGGAGTGAGGTGGGGTGGGATGGAGTAGGGTGG
GGATGGGATAGGGGTGGGGTGGGAGATCAGCA

MOUSE SEQUENCE - mRNA
CCTGGGCCCCGCCGCGGACGCGCGGAGCCGCCTGGGCCGCGCCGGAGGAGGGCGGGGAGAGGACCATGTGAATGTGCTCCGGAGCTGAGCGCCA
AGCCAAGCAGTGTTTGAAAGGAAGCAGGATGCTGATCTAATCGTGGCAAAAAGTCAGTCCGACCGCTGGTTTCGAAGACATGTGGTGTATATAA
AGTTTGTGATAGTTGGTGGAAATTTGGGAGCTTGGATAATGGGCTGTGTGCAATGTAAGGATAAAGAAGCAGCGAAACTGACAGAGGAGAGGGA
CGGCAGCCTGAACCAGAGCTCTGGGTACCGCTATGGCACAGACCCCACCCCTCAGCACTACCCCAGCTTCGGCGTGACCTCCATCCCGAACTAC
AACAACTTCCACGCAGCTGGGGGCCAGGGACTCACCGTCTTTGGGGGTGTGAACTCCTCCTCTCACACTGGGACCCTACGCACGAGAGGAGGGA

CAGGAGTGACACTGTTTGTGGCGCTTTATGACTATGAAGCACGGACGGAAGATGACCTGAGTTTTCACAAAGGAGAAAAATTTCAAATATTGAA
CAGCTCGGAAGGAGATTGGTGGGAAGCCCGCTCCTTGACAACCGGGGAAACTGGTTACATTCCCAGCAATTACGTGGCTCCAGTTGACTCCATC
CAGGCAGAAGAGTGGTACTTTGGAAAACTTGGCCGCAAAGATGCTGAGAGACAGCTCCTGTCCTTTGGAAACCCAAGAGGTACCTTTCTTATCC
GCGAGAGCCAAACCACCAAAGGTGCCTACTCACTTTCCATCCGTGATTGGGATGATATGAAAGGGGACCACGTCAAACATTATAAAATCCGCAA
GCTTGACAATGGTGGATACTATATCACAACGCGGGCCCAGTTTGAAACACTTCAGCAACTGGTACAGCATTACTCAGAGAAAGCTGATGGTTTG
TGTTTTAACTTAACTGTGGTTTCATCAAGTTGTACCCCACAAACTTCTGGATTGGCTAAAGATGCTTGGGAAGTTGCACGTGACTCGTTGTTTC
TGGAGAAGAAGCTGGGGCAGGGGTGTTTCGCTGAAGTGTGGCTTGGTACCTGGAATGGAAATACAAAAGTAGCCATAAAGACCCTTAAGCCAGG
CACCATGTCTCCGGAGTCCTTCCTGGAGGAGGCGCAGATCATGAAGAAGCTGAAGCATGACAAGCTGGTGCAGCTCTACGCGGTCGTGTCTGAG
GAGCCCATTTACATCGTCACGGAGTACATGAGCAAAGGAAGTTTGCTTGACTTCTTAAAAGATGGTGAAGGAAGAGCTCTGAAGTTGCCAAACC
TTGTGGACATGGCGGCACAGGTTGCTGCAGGAATGGCTTACATCGAGCGCATGAATTATATCCACAGAGATCTGCGATCAGCAAACATTCTAGT
GGGGAATGGACTAATTTGCAAGATTGCTGACTTTGGATTGGCTCGGTTGATTGAAGACAATGAATACACAGCAAGACAAGGTGCGAAGTTTCCC
ATTAAGTGGACAGCCCCCGAAGCGGCCCTGTATGGAAGGTTCACAATCAAGTCTGACGTATGGTCTTTTGGAATCTTACTCACAGAGCTGGTCA
CCAAAGGAAGAGTGCCATACCCAGGCATGAACAACCGGGAGGTGCTGGAGCAGGTGGAGAGAGGCTATAGGATGCCCTGCCCACAGGACTGCCC
GATCTCCCTGCACGAGCTCATGATCCACTGCTGGAAAAAGGATCCGGAAGAGCGCCCGACCTTCGAGTACTTGCAGGGCTTCCTGGAGGACTAC
TTTACGGCCACAGAGCCCCAGTATCAGCCCGGTGAAAACCTGTGAGAGCCTGCGCTTCAGACGCCTCTTCCCGAGGCCTCCCTACCCCTCCCCA
TTAGCTTCCAATTCTGTAGCCAGCTGCCCCAGAGCAGGAGAACCGTCCAGGATCAGATTGCATGTGACTCTTGAAGCTGAACTTCCACGGCCCT
CATTAATGACACTTGTCCCCCAGTCCGAACCTCCTCTGTGAACCATCTGAGACAGAAGCGTGTTATTTCTCAGACTTGGAAATGCATTGTATCG
ATGTTATGTCAAAGGCCAAACCTCTGTTCAGTGTAAATAGCTGCTCCTGTGCCAACAATCCCAGTGCTTTCCTTTTTTAAAAAAGAAAAAGCAA
ATCCTATGTGATTTTAACTCTGATTTCACCTGATTCAACTAAAAAAAAAAAAGTATTATTTTCCAAAAGTGGCCTCTTTGTCTAAAACAATAAA
ATTTTTTTTCATGTTTTAACAAAAAAATGATCAGGACAGGTGTTTGGGTTTTTTTTCCCTTTTTATACATATGATATATATGTTAACATATGT
TCCTGTACATACACCATGTGGGTGCTACCATGGAGACTGGCCAGCGTAGGCCACATAGCTACAGGACCGGAGTGGGGATTACTGCAGCGTGATC
ATGCAAGCTCACCCCCTTCCAGCAAAACACTGGTGTCAGCCTGCAAGCCGGTGGCTCATTTTTTGACTTCTACGAAGCATGACGTCCTCTCCAT
TTGGACTTTTTAATAACCTAATCATACCTATAGATTGTTCATGTGACTTTTTTCAGGTCCAGGGCCTAGTCACGAGTTTTAGTGCCAGTTTTTA
GTCCAGCTCAACTGTGATTCGTCTTGAAACTTAGGAGTGAGCATTTTAGCAAAAAGCAGCCAGCCAGTTCTACCACAAGAGCTGCAAGACGGAG
ACCACACTAACTTCCTGTATAAATATGAATGCTGAAGGGTTCAGGTGTTTCCTTTTATTTAATAAATCTTGTAACCACATTTAAATGGTCTAA
ACCCATAGCATTGGTCATGGGCAACCTAAACTTTTCTCATGCAACTAAAATTATGGGAAGGCTAAGGGTGGGGGGTTGGTACACGTCCCATTGT
AAAATAAGTGTTTTACTGTCCTGTACTGCTAATGACTGACTCTCCGTGTCAGGAGTGCTCCAGTGAATAACTATGCACTACTTTACATTTCATG
GGGGTGCACAAAAAAAAAAAGGTATTACAGTTTTTAGTTGCTGTTTGTACCAACCTCGAATTACGTATGTTTAACAACAAATCAATTCCTATTC
TATTGAGTTTTAATACTGACTAGCAATTCTGAAGTCTTAATTCCTTTTTTTTTGTTAATGATTTACTTGTGAGTTTACATTTTTAAATTGTTTAA
CTTTCCTAATTTAGTAATTAAAAAGAGAGCATTTTACATTTGAAAAAAAAAAAAAAAAAAAA

MOUSE SEQUENCE - CODING

ATGGGCTGTGTGCAATGTAAGGATAAAGAAGCAGCGAAACTGACAGAGGAGAGGGACGGCAGCCTGAACCAGAGCTCTGGGTACCGCTATGGCA
CAGACCCCACCCCTCAGCACTACCCCAGCTTCGGCGTGACCTCCATCCCGAACTACAACAACTTCCACGCAGCTGGGGGCCAGGGACTCACCGT
CTTTGGGGGTGTGAACTCCTCCTCTCACACTGGGACCCTACGCACGAGAGGAGGGACAGGAGTGACACTGTTTGTGGCGCTTTATGACTATGAA
GCACGGACGGAAGATGACCTGAGTTTTCACAAAGGAGAAAAATTTCAAATATTGAACAGCTCGGAAGGAGATTGGTGGGAAGCCCGCTCCTTGA
CAACCGGGGAAACTGGTTACATTCCCAGCAATTACGTGGCTCCAGTTGACTCCATCCAGGCAGAAGAGTGGTACTTTGGAAAACTTGGCCGCAA
AGATGCTGAGAGACAGCTCCTGTCCTTTGGAAACCCAAGAGGTACCTTTCTTATCCGCGAGAGCCAAACCACCAAAGGTGCCTACTCACTTTCC
ATCCGTGATTGGGATGATATGAAAGGGGACCACGTCAAACATTATAAAATCCGCAAGCTTGACAATGGTGGATACTATATCACAACGCGGGCCC
AGTTTGAAACACTTCAGCAACTGGTACAGCATTACTCAGAGAAAGCTGATGGTTTGTGTTTTAACTTAACTGTGGTTTCATCAAGTTGTACCCC
ACAAACTTCTGGATTGGCTAAAGATGCTTGGGAAGTTGCACGTGACTCGTTGTTTCTGGAGAAGAAGCTGGGGCAGGGGTGTTTCGCTGAAGTG
TGGCTTGGTACCTGGAATGGAAATACAAAAGTAGCCATAAAGACCCTTAAGCCAGGCACCATGTCTCCGGAGTCCTTCCTGGAGGAGGCGCAGA
TCATGAAGAAGCTGAAGCATGACAAGCTGGTGCAGCTCTACGCGGTCGTGTCTGAGGAGCCCATTTACATCGTCACGGAGTACATGAGCAAAGG
AAGTTTGCTTGACTTCTTAAAAGATGGTGAAGGAAGAGCTCTGAAGTTGCCAAACCTTGTGGACATGGCGGCACAGGTTGCTGCAGGAATGGCT
TACATCGAGCGCATGAATTATATCCACAGAGATCTGCGATCAGCAAACATTCTAGTGGGGAATGGACTAATTTGCAAGATTGCTGACTTTGGAT
TGGCTCGGTTGATTGAAGACAATGAATACACAGCAAGACAAGGTGCGAAGTTTCCCATTAAGTGGACAGCCCCGAAGCGGCCCTGTATGGAAG
GTTCACAATCAAGTCTGACGTATGGTCTTTTGGAATCTTACTCACAGAGCTGGTCACCAAAGGAAGAGTGCCATACCCAGGCATGAACAACCGG
GAGGTGCTGGAGCAGGTGGAGAGAGGCTATAGGATGCCCTGCCCACAGGACTGCCCGATCTCCCTGCACGAGCTCATGATCCACTGCTGGAAAA
AGGATCCGGAAGAGCGCCCGACCTTCGAGTACTTGCAGGGCTTCCTGGAGGACTACTTTACGGCCACAGAGCCCCAGTATCAGCCCGGTGAAAA
CCTGTGA

HUMAN SEQUENCE - GENOMIC

TCTCTCCCTCTTAATTTTTCAGTTGACAAAGTATACTTCATCAATGTGTAGTTGTTTCAACTTACATACAAATTCAATCAGTAACTGATAATAT
TAAAGGGAACTTTCTTATAGAAAAATAAAGGTGATTTATTCTCATTATAAAAAAAGTACATTCTTGGTATAGACAAATCTGAGAAAAAAGACAC
AGAGAGCAAAGAAAGAACAGTTGCCCATAGTGTTATCATCTGCACACCACCATAATCTCAGCATGTTTCCTTCCAAAGAGTTTTCTAGGCATTT
GTTATATAGTTGCAATCATGTGATCCTTCCTAATATAACATGAACATCTTTCCATATTGCTGATAATTTCAGTAAATGTAAGTTTTAATTTCTG
CTTAACTTGTCTTTATGGGCATACCTTACAATTTACTTTAGCCATTGCCCTCATGCTAAACAACTAACAAGTTTTCTAATTTTTCAAATGATAA
ATAATACTTCATAGAACCTCTTCATGTCATTTTTTTAAAAGGCGTGTCTTTAGCACACATTTACAGGTTAAAGGACATGCCACCCCCGACACCC
TTTTTTTTTTTTTTTGAGGCAGTCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGCGCCATCTCAGCTCACTGCAAACCTCTGCTTTCCTGGTT
CAAGCGATTCTCATGCCTCAGCCACTCGAGTAGCTAGGTTTACAGGTGCCTGCCACCACACCCATCTAATTTTTGTATTTTTAGTAGAGTTGGG
GTTTCACTATGTTGGCTAGGCTGGTCTTGAACTCCTGGCCTCAAGTGATCCACCCACTTCAGCCTCCCAAAGTGCTGGAATTACAGGTGTGAAC
CACCACACCTGGCCGAGTATGCCCATTTTTAAGAATTTTTTATATTGCCAAATTGGTTTACCAAATGGTTTTACACTGATTTCTGGTCTTCTAT
CAGCAATGTAAGAGAGTCATATTCATTTCAAGGAAACTTCATCACTATTGAGTATACTTATTTTTTTAATGTGTGAATTTAGAAGTGATACATA
GTATCTCACTAATCTAAATTGTATTTCTCTGATTACTACCAAAGGCAATATTCTCCCATATGTTTCACAAATTGTTTTTCCTTTTTTTGTTGCC
AATATATGTTTCTGTTTCCTAAACTTAGAGTTTCTCTTATCTGTATAAATTTCTTATATATTGAAATATTAATCTAAGAGAGTTGAAAACATAT
CTCCACAGAAAAACTTGAGCATGAATGTTTGTTGCAGTATTATTCATAAGAGCCAAAACGTAAAAACCCAAATGTCCATCAGTTGATGAATAGA
TAAACAACATCTGGTATATCCATACAGTAGAATATCTTTTAGCCATAAAAAGGAATGAAGTACTAATACATGTTACATGAATGAACCTGGAGAA
CATTATACCAAGCAAAGGAAGCCAATCACAAAAGACCACATATGATGTGACTCTGTTGATATGAAATGTCAAGAATAGGCAAATCCATAGAGAC
AGAAATTAGATTCGTGGTTGCCAGGGGCTGGGGAGAGAAGGGAGTGGGTAGCGATTGCTTAATGGGCATGGGTTTCTTTCTGGAGCAATGAAAA
TGTTCTGGAATTAGATAATGGAAATGGTCTCCTTTGTAAATGTACTAAAAACCATTGGACTGTGTGCTTCAAGAGGGTGAATTTTATGGTATAT
GAATTATATCTCACTTTAAATGAAATTTTAAAAATATTAACTACAAGGGGCTTTTCTATGGTCCAAAAAGGCTTGCGGGCAGGGGGTGGAGCCT
GAAAAAACTTTACAACCTGTGCTCTAATTCTTTCTGAAACCTTTGGCATAGATGGGGTTAAAACATATCATCCTTGTTTTCATCACCATTTCAC
TCTTGTCTTAACCCTGAGATCCAGAGCAAAATGAATTTAAGAAGAAAATGTTCTTACTCTTTTCTTGGAGCCTTTCCATGGTTTGGTGTTAAAG

CCTCATTTGGCCATTTAGGTTTGGGACTGGTTCCAGCATTCAGTTGACTGCAGTCTTAAATCTCACCACTGGGGTCTGATGCTTCCATTTCTCT
TTTATTGAGCGCTTTTGAGTCTTCGGGCTCGAGAAATGGAAGGCTATGCAGAAAGGAAAGAACATGTTTGTTGCAGGGATGTGAGCAGCTGCCT
CTTAGCCTGGGGGCCATTTGAACAAGAAAAGCCAGAGATGGGGACCCACAAAAATATTCTAGGTGCCAGCAGTATGGCTTATTCTTAAAGTAAC
ATGACATTTTTAAGAGTGATTTATATTACTTTGGTTCCCTTGCTGTGCGGTATGAGAGAAGGTTGATCCTCTTCCCCCTCCAGAGAACCTTTGC
AAAGTCATGCGTAAATGATCGAATGGGTTCAACTCCACTTATTTCTGAAGCAAAGCTTGGGTTTGATTTTTAAGTAGGCTCTGTTCTCCCATGA
TTGCATGTGGCTAGTGTCTGCATTGTGTATATTCCCACTTTTACATCTATCTTCTCACCTCAGAGACTGTAATATTTTAATACTTGCATTTGGC
GAGGGGCTCTCCCTCACAGGCTTCACCAAGAGTAGAAAGCTGTTATTTTGTGCTTGGTGGAGGCATTATATGTGTATCTCAGTTTATGCAGTAA
ATATGTTCCAGAAAGTTTTGCCTGTAAAGCAAATCATATTTTAAGTGCAATAGGAAAGCTGATTTTTATACCAAGGAAACCAGTGCCAACTCCT
TCATGGTACTTATGAATACCCTTGCCATGACTAGGAAAGATGAGGAAATTAAGGGCTGCTTCAGTGTCATCGGCCCAAATAGTCATTAATATGC
CAAACCGCACGAAGGAAGATGGTGACTCACTGCACCTAGTATGGTCCAGCATCTCTACAGAATCCACTGTCTTGGGGGAATGGAATGTGCATTG
GGGATGGAGGTGAGACCTAGTCCCTGAAATCAGTGCCTCCGTTAGTAATGTGTACTAGTCCATTCTCACACTGCTGTGAAGAAATACCTGAGAC
CGGGTAATTTATAAAGGAAAGAGGTTTAATTGACTTGCAGTTCCGCATTGCTGGGAAGGCCTCAGGAAGCTTACAATTATGGCAGAAGGCAAAG
GAGAAGCAGGCACCTTCTTCACAGGGCGGCAGGACGGAGTAAGTGCAAGCAGTGGAAATGCCAGATGCTTATAAAACCAACCATCAGATCTCAT
GAGAACTCACTCACTATCACGAGAACAGCATGAGGGAACTGCCCCCATAATTCGATTACCTCCACCTGGTCCTGCCCTTGACACATGGAGATTA
TAGGGATTACAATTTGAGGTGAGATTTGGCTGGGGACACAACCAAACCATATCATAATGTGTGAGATATTGAGCTCTGTGGAACCAATTCTTCC
CTATAGGATTTTTCCCTCAACACCTCCAGCCCTCACACCCACACCCTTGCATGGACTGGCCAGGATTCCATGGTCAGGAAATAGCTCTAGTATA
GAGACTCTGTGTGTTGGCCATGGAATCAGGCTATCTGGTTTCAAATCCCATCTCTATGACTGACATAGCTGTGGACAAATTCCCCAACCCCTCT
TTTCCTCCCTTGTAAAGTGTGGGGAAATAGTAATACCTGTGTTTTAGAGTTGTTACTAGATTTTAATGGGACAGCATTTTGCAGAGTCCAGCCT
GCACCTAGGCTACAGGGAACACTGATTGGATATTGGTCATGACTGCTGAAATTGGAGCCATCATCCCCATGGTGCCCATCCCACCAAAACATGT
ATTAGTTTTCTGCTGCTGCCTAACAAAGTACTACAAACTTAGTAGCTTAAAACAACATCCATCTGTTAGCTCACATTTCTGTCAGTCACAAATC
CAGGCACGGAGGGGATTCTCTGCTCAGCAAAGCCGAAATCAAATGTTAGCTGATTATGTTGTTGTTTGAAGGCTTGACTAGGGAGGAATCCATT
TCCAGGTTCATTCAGGTTCTTGACCGAGCTGTTCTCAGCTCTGACCACCCATGTGTCTGGCCACATAGCCCCTTCATCTTTAAAGGCAGCTGTG
GAGAATCTCCCCCACAATGAAGGCCTCTCTCACTTTTAATCTACTTTTCCAGGAACTGGCATACCGTTCACGGGTTCACCTGATTAGGTCAGGT
CCACCCAGGATGATCTCTCAAAGTCGGCTGTGCCAAATAACAACCCGATGATGGAGTGACTACCCCATCATTCATAAATCCTAGGGATTTGCAG
GGCACATACACCGGGAGTAGGAGTCCTGGGGGACAGCTCAGAATTCTCCCTACCACAATGTCATTTAGCAAGGCACATATTTTCACTCCCTCCA
GTTGGCAGCAAAGAGAGGACTTTCCCACATTGGCAGAGTCCTGCATGCTTTTTTTCATAGCTGGGCTGGGGCCATTGGCTGAACCCAGCATCAG
TGCTGAAAGTGTTTCATCCCTCAAGTATTAACATCTCCAGAGGGCCAACCCAGCAGTGACTTTTTCTCTGCTTCAGTACCTTGGGAAATGCTTG
TGATCCCAAGAGTGGCCAGCATAGCCCTGCTTTCTGTCCAGCCTCCCCAGTCCTCCCTGGCCCTTCTGTCCCGTCTGTCCCCAGAAGGCAGCAC
TGCCTGCACTCTCTCATGGGGTGTCAGGATCATCTGATGCAGTATGCTACAGAGGAGAAAAGCCCCATTGTAAAGGATTGAAAGGTGCTGGGAA
ATTAGGAAATTTGGGTGACAGTTTCTGTGGCCCAACCTCATTGCTGCTGATGTGGTACTCAACTGTCTCTGAATGTCCTTCTGCTCCCAGTAAT
GACAGGGGAAAACTAAAGAAGGCTTTCCTAGGCTTTCAATGGATTAACTCTCTCCACTGAGAATGTAGCAAAAGTCCCCAAGTAGATTCTTATG
GGTGTTTCTAATTTTGCGAGGATCAAGAGCCCTCTGCCATGAATCTTCTATCCTGAAGTCAAATAATTTCAGATGTGTCTCTGCCACATCTTAT
CCTTTTCCTAATGCTATTCCTGCTGACTGAAAAAGTGTGTTTGCTTGATAAGCTTCCAGTTTTTGCTTTTTTCCGAGAAAAGTGTGAAACCATG
CAGTTGATCTGCAGTTCAGCTTTAAATTCTTTTTTCAACTGCCCCCATCTCAGTTGCTTGCATTTGGTTTCTAGGTTCTTAGTTCAGTTCCCTT
CCTTGTTCTTATACTTCCATTATGATACCAGGAAACATGCCACCTCTAAGTACGGGCCAAATGTGGCTTTACCTGTCACTCTCCAAAGTCTGCT
GGAGGCTGTCAGAAGCAGGGATTATGCCTAAGGGCTGTCACTTCTTCACACCCACCTAGGTTGGCTTCTGAGACAAAAGAGCATACACCCCTGA
AATTAAAGTTATTTGTTGTCGGTTTCACTTCCTCTTCCTGCCATTCCTCCTCTGCCTGCAAGTGTATGTGTCTCAAGAGAAAGTAATTTGCTTG
TGCAGAAGACTGCCAGTGGCCTTTTTCCCATTTTGGTACCTAGCTCCTGCACACACCTGAAATCTTATCACACGTCCTGCAAGCTTATAACTTG
GGCTTACTGGCATTGCTTTATTGATTGGCACATGACGAAATATGAATGTGTCTGTGTTTAATGTGCATCTTGTAGACTGGACTGTGGTCTGTCT
ACATCAGGAGGAGGGAGTGTATGTTCAACCAGACTCATCTTGGATCGAAGCACCCTGTGCCTGTGGTAGTAAAGGATTGAATCTATCCTTTAGG
TCAGTTTCCGTCAATCACTACAGGGCTATGTGGAGAAGCATATCTCCCATAGCATGGCAGCAGAAAGGGCTGTGATCTGTTGATAATGTCTGCC
CTGCTTATGGGAGCAGGGTGCGGCGTTCCTTGAATCCTGTGTCCGGCAATTCTTCCCAGGTTGCTTAACACTATTGGCACATCTGTAAAGAACC
ACAGGACTAGGGAAATTTTAAATAGATCAAGTTTTATTTGCTTAGTAGAAAAAGGGCCCCTCCCTTTGCAAAAGGATTGGAGAATAGAGGCTTC
ACAGCTGTAATCCAGACACCTTGATCACAGGCACAGGATCCAATTGGTGAAAATGCCCTTCACCAGTTTTTCTAGGCATGATAACTTGCAGAAG
ACTATAGCCATGAGTTCATGGCGTGTGGTATTTTCCTGATCAGAGTAACTCCAGGGCTCCACATTCACGATGGCATCATTCAGTGTTTCCCGGT
GCCCCAGAGATCTATAGCAAGTGAATTAGTACATTCTATGTCACGATGCACTTACAGCATTGGACATTAAAGCCACAGCACATAACTCTGCATA
ATAAAGGATACTTTTATTTTAGCATGAATGATCAAAAGTTTGCCTTGTAGCAAGGAGCCTGGGCACACTGAATACAGCTCATGTAGCGTCTTCT
GACTCTTCTGTCACGAAGCAGTTAGTCTGACTGCCCCACGGGGGAGAAAGAAGACCACAAGTTCCTACATAAATATTTTCATTGTGATTAACTT
TTAATGACTTGAAACTGCATTTACTGATTTATTTTCACTTCTTCCTATGTGTCATTGAAGAGAAAAGAGTAAGCAAGATCTGTATAGAAACATT
ACTTAACTCAGAATGTCAAATGCGTGAAGTGGTGATGGTGCTGTCTCTTCTATAAAAGAGGATTGTTTTCTCCAAAATGATTTTGATTATTTTT
AATTTATTTATTTAACTAATATTTATTGAGTGACTACTGTGTGCCAGGCACTGTTCTGGCCACGCAAGATGCAGCAGTTAAAAAAAAACAAAAA
TTCCTGCCTTCAAGGAGCTGATGATTTTTCTTCTCTATTACTTCATAAAATTATAGATAAGCTGCTAGTTGCTTATTATAGTATATTTCTTTTT
TAAAGTGGATTTTGAAAGATTATTTTTTCTTAGTTTGGTTAAATGTAGGATCCTGTTTTCTTCAGGGTTCTTATATGGGGCTTATTTTGTTTTG
CTGGAGTTGGAAGAGTGGTTTGCAATGAGTGTTCTCATTACTTCCAGGTTCTGTTTCTCTATCACAGTGCACAAGCTTCTAGAGAAAATCAGAG
CACTTCATGTCACTCTTTAAAACTGCCTGCTTCTACCTAACATGCCTGTTCGCCTGAAGAAAGCATGATGGGTTGCATGTTAATCACATCCATG
TAAGGGAAACAGCTGTTAAACTGCTTCAAAGATGTAGATATAAATTCTTTCCTTCGTGTAAATCAGGATTTCTTGACCTTGACACTATTAACAT
TTGGGGCCAGGTAACTCTTGTTTGTAGGAGGCTGTCCTGTGCATTGCAGGAAGTTTTAGCAGCATTCTTGGCCTCTACCCAGTAGGTATCAGGA
GTATCCCTCCCCTCTGAGTGTGACAACCCAAAATGTCTCCAGACATTGCCCAATATGTCTCTTGCAGGGGAGTGGTAAAGTTACCCCCAGCTGA
GAACCACTGCTGTAAGTGATATGAGTCTGTGATTCAGGTCTCACATTCTCTAATTACAGTAGATCAGTGAAATTCATGGAAAAAAAGAAAAAAC
ATCTGGGACAAGAAGTGTTTTCTGTCTGGTCTTTGCAGAAATGTGGAGCAACTTTCCACCACGAAAGAGTTAATATTATAGAGCAAGTTATCA
GTCTGATGAAGCAACATCAACAACAAATGATGAAATTCCTTTAGTACATCATGCCTTGGAAATAGCTTGCATTTCCTATTGGAAACTTGTTAAA
ATCATATCCATTTACCATAAGTTACAAAGCATGTTGGGCACGGTATACTGTAAGTTAATCTCAAATGATTTAGGAGTAAATGTGTTCCAGATTT
GGTGAGCTCAGCTCAAGCAGTAGGCGTCTCTTTTCCAAACATTTTCATTCTCAAGAACTGACATTCAATTCAATAAGTATTTATTGAAATGTGT
AATATGAGAGAGCTTTAGAACAGTCTGATACTGCTCCCATCACCCAGTCCAGCAGAAAAGCAGTGCTCAGAAGAGTGCCCAGGGAGCACTCTTC
TGATATGGCACCTCCTGCATTGGTTTGCAAGATAGTATAGAAAAGCATGCCTTCTCCTTTGCTGCCTCAAGCCCTTCCCATCCTGTGCCAGCTG
TGCCCTCCCCAGTGAATAAATGTTATTACACATGATGGCATGTGTTTCTTATGTGATTCTTTGGTCCCAAATGGGCTAGTTTGCGGTTTTGGCA
GGGACCTCCACTGGCCTGTTCTACCTGACCCCTGTTGGCTTGTTGGGGTATTGCAAGTCCAAAGGGGGACCATTTAACCAACTTGTATTTCTGA
ATCTTCTTCACTTCTCACACACATACCAGTAGATTTTAAAATGCAAGGTACACTGCTGATAAAAGTCACAGGAGGGGCCTGTCACGGTGGTTCA
CGCCTGTAATCCCAGTACTTTGGGAGGCCGAGGCGGGCGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGACCAACATGGTGAAACCCCAT
CTCTACTAAAAATACAAAAAATTAGCTGGGTGTGGTGGCAGGCACCTGTAATCCCAGCTACTTGTGAGGCTGAGGCAGAGGTTGTAGTGAGCCA
AGATCGCTCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTCCATCTCAAAGTCACAGGAGGGATCGGCTTTAATACAGAGAGGGTAAAAGA
GAAACATAATAGGCTACAGAATCTTCACTCATCTGGTTGCTATTTATTGTTCCAGGCACTGGCAATGTAGCTGTGATGAAAACAGACAGGGTCC
CGCTTTCCTGGAACTTGCAGTCCATTGGGCAATGAGACAAATAAACAGGCCCTGTTTTAATATGGCGCCAAGGGTGCCAGAAGGAGGGAGATGA

GGATGCCATGGGAGCACTTCAGAAAGCACAACCCAGCCTGGAAGGGCAGGGCAGTCGGAGAACGCCTTGCAGAGGAAGCGGTGCCTTATTAACT
AGGACATGGATACGTCACATATCAAAGAGGAAGGGGAAAAAGTGTTCAAGGTTATGTTCCAAGGCCCGAAGCGGGTGGGGGAATGGAGTCTTTG
AGGATCTGAGAAGTTGGGCGTGTTTGAATAGGAGAGCCGAGACAGGAAGAGTGGGAAGTAAACAAGGAGGAGGAAATGAGGATGCTTCTCAGGA
TGCTGACTGGAGCAACTGGGACACTGGTGGTCCCATTTACTTAGATGAGGAGCCTGGGAGAAGAGGGTTTGAGGAGGGTGGGGTGGCAACAACT
CGAGTTTTTAATCCGCCACTAACTCTGTAACATGGGAATGATTTTTTTTTAATGTTTTTGAAGGATGTCAAAAGCTAATGGAAATTTGAAAAGT
TAATTAGCAGCTTTAAGTGATTTCATTACTGTAGACTATCATGACATCCTGCAAATATACTCTGACCTCTTAGGTTCTGCCGATTTTATTTTTC
ATCCAGTAACTAGTTCTTAGTTTTGATACTTAGCATCATCTTAGTGCTTAAAATTGACCAGTTTTGTGCCTGAAGATGTGGTACCCATGAGTGA
AGCAGTCTAGTGACTTGATTGAAGGTTGTATTCTGGCTTATCCAACACTCCTGTGCCCTCTTCCTTAAATTTCCTGTGCCCTGATGGAAGTTTT
TATTCTAATGTTGCATAGACTCATTCTACAGAGCATGTATTATTTTTTTTAGATGGCTAAAGGCAGAATTGGTAAATATGATTGGACCGTCTGT
AGGCAGGTGTATGCTGTTACAGAATTTTACGAGATACAGGCCTTATTCGAGGAAAGTTGCTGCATGGTGAACATTGTGCTCCGTGATGATGCTG
TCATCCAGAACATATGGGGAACAAATGCGATTGTGGGGTCAAGGAACTGAACTTCCTCCTAACCATCTCCCCAGCCACTGCCTTTCCTCATGCC
CCCTAATAGGCCTGAAATAGCCAACAGTGAGCCTTGTCAATTACTCCTCGTTTACTGTAGAGCAACCCAGCAACTAGGGAGCATCCCAGCTTAC
GTGCCCCCTTTTTTGTCTTTGGCAGGAATTTAGATAATGGGCTGTGTGCAATGTAAGGATAAAGAAGCAACAAAACTGACGGAGGAGAGGGACG
GCAGCCTGAACCAGAGCTCTGGGTACCGCTATGGCACAGACCCCACCCCTCAGCACTACCCCAGCTTCGGTGTGACCTCCATCCCCAACTACAA
CAACTTCCACGCAGCCGGGGGCCAAGGACTCACCGTCTTTGGAGGTGTGAACTCTTCGTCTCATACGGGGACCTTGCGTACGAGAGGAGGAACA
GGTAAGCCCCCAAAGTCACAGAGTGCAGAGAGGGGGCAGCCACCCTTAAATCTTTTGGCAATTGAACATCTGGGTTCCCATCACTTCCCTTTGA
CTAGGGGTTTCACATGTAAGTTTCTAATCTGTCTCCTCTACTAGATGAGGGGTTGTAAGAAAAGCCAGAGTTTGATGTACAAACAAAATGCTTG
GCTACAGGGTTGCAAGGTGCCCCAAGTTGCTGCTTTCTGAGGATTCTATATGGGTTAGTGAGCTACAACATTCTACTGAGGCACTGTAGGTCAA
TGACTCTCAGCCTCACCTGGCTGGTTGGCACAGAAGAACTAGGGCAGCCTTTTCAAAACACGGATGCCTGAGCCATGTCCCAGTCTTTTGAATT
AGAGGCTCCAGGACTGGGTCTGGGTGTGTGTATTTTGAGTTCTCTAGATATTAATGTACTCCCTCTTCCCACTCACTTCTTCCTAATCCTCAGC
CTGCCTTTCTTTTTTTTTTTTTTTTTTGGAAGTTTCCTTGTCTTTCATACCACAAGGCTATATTCTGCTGCCATGTGTATTTGCTGACTTAGCTAA
TACTTTGTAAAATATCTGGCGTACGTTCTCAGACATATGTTTTCCGAAATATTTGTAAGTTATGTCATGCATCCCTAGTCATCCAAATTTTCTC
TGAGTATGTGAACCATGGTAACTAGATATTTCACATTATTTGTTCCAGAATTATTTTGTTTATTGCAAAAGTTTGAAAGAATGCAGCATCTCTC
AGTTCATCTGGCAGCAGATGTCTTATATAAAAGTTTGAAAGAATCCAGTATCTCTCAGCCCATCTGGCAGCAGGTACCTTTTCACCTAGGGAGG
AGGCACTACTAAGGCATTAGCAAGTTTTTTTTCCCTCTGCACCCAACACACATCACACATCAGTGTAGTTGTATCAAGGAGCCTGACCCTGAGC
CTTTGGACATTATCTACTTCTCTTCTGCTAGCATAGCACACTCTGCCCAGTAGAAGAAGTATTTATGTTCACCCTCATGCTGTGGTGACTCTAG
CTTTCCTTTTAACCCAGGCCTTGCATGGGTTGAATACGTGCTAAGTACCTTTACCCATCCTTCCCACCTTCCCAAAGGTGCCTGAAGAGACACA
GACAGGCAGTCTAAGGCCATCTGTCTTCTGATGATGCAGGAGAAAAAAAGAGGCAAACACAACCCCATCCTTGTGCCTACCGTGAGAAGCATA
AGGGCTTTGCCAGCCCAGACTGTTAATTCTACTGACACAGCCATTGTCCTTGTTCATTCATTCACGAGTGCTGGATATGGACCCCTGGGTCTGC
AGGTATCATTCATTAAAGTCACTAGAGAGGGCCACTTGTGTTGAGCATGTGGGTCTCCACCGTAGTCAGGAGGAGTCTTTGTTTAAGAGGCTAC
CTGATCCCTTATAAAATTTGAAAGTTAAAACACAGTACTCCCAAATGTTGGCAGATTTTTCTGCCTTGAGTTATTTGGTTTTAATATATATGCA
TGTCCTTTCTCCCAATACTGCCTTCAGTCCTGTAAGGCCAAGAACAACGTCTGTGTTTCTCTGTAACCTCCTTTGATTCTCCCCTCAGCTCCTG
GAACATGGAACATAAAAGCCCTCAGTGAGAACTTGTCAGCTGATGCAAGGAGAGAGTGGGGTGCTGGTCTTCATGTGCCTTGCCTTCCACACAG
TGGGGCTGGCTTGGCTTCATTTTTAAATTGTTTTTAAAGAAGGGAATCTGGTCATGGAGTGTTAAATAAGAATAGGCATGACCTTACGGGCACC
CACATTTTTGTTTTAAGCCAATCTCTTTTCTTACCTTTCAAAGAAATCTAAGGAAAGAAGGAAAGTTGCCAAATGAGCCTAGCTTTGCATGGTC
AGACCTCTGAATGCTAACTCTCCTGAGGAAAGTCCCACTTGGGATGGGGCAGAAAGACAAGCCCCACTCTTCTCTGTGGTCCTTGAATAGTGCC
ATGACACATTTCTTCCCTTGGAACTACCTACACAGCAAATTGGCAGCTTGGTAAAAAAGGTGGACTCTGGCCGGGTGCAGTAGCTCATGCCTGT
AATCCCAGCACTTTGGAAGGCTGAGGTGGGTGGATCACTTGAGCGCAGGAGTTTGAGACCATCCTGGCCAACATGGCGAAACCCCGTCTCTACT
AAAAAATACAAAAAATTAGCCAGGCGTGGTGGTGGGCGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAAGTGCTTAAACCCGGGAG
GCGGAGGCTGCAGTGAGCCGAGATCACGCCATTGCACTCCAGCTTGGGCAACAAGAGTGAATCTCCATCTCAAAAGAAAAAAAAAAAAGTGGGC
TCCCTGTCATTTCTGTAGGTCATAGCAGGCACTCTGAAGTGCAGAGAGACCAGAATGAAAAGGCAGACTGCAGGGAACTACTATTAGTTATCAA
CTGCTGTATAACAAATTGCCACAAAACTTAGCAGCTTAAAACAAAACACATTTAATTTCTTTTTTTTTTCAATTTCAGATGTTTTTTATTCAGA
GGTTCTTAAAAGAAATAAAACAGAAAAGCTAACAGTCTGATCAAACATACAGCTCAAAAATGTCTTTTGACGTTTAACAACAAGTCCTAGGAAA
GAAAACTACAGAGTTATCTTGAATGGGGTAAATAAGTTACCACTGGCAAGTCTGTGGCACTAGTAAAACAAAAATAAAAAATTAAATCTCGGCC
AGGCGCAGTGGCTTACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGCAGGCAGATCACGATGTCAGGAGTTCAAGACCAGCCTGCCCAACAT
GGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCTGGGCATGGTGGCAGGCACCTGTAATCTCAGCTACTCGGGAGGCTGAGGCAGGAG
AATCACTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCTGAGATTATGCCACTGCACTCCAGCCTGGGCGACAAGAGTGAAACTCCATCTCAAAA
AAAAAAAAAAAAAATTAACTCTCTTGATCATATAGATATCTCTATATCTCTTTTTTTCAATCGGGTACAAAAGATCTTTCTTCATAATTTTTTT
TATAATTTAATGGCTATCTACTATATGATGTTTAACTAATTTTTTTTTTAATATACAGAGGTTATGTTTCCCAAATCTTACCCAGACGAGTATG
GCACTTAGTTAGACATTTCTGGCAACAGATTTCCCCTCCCCTCTAACCAAACTATCAAATTTCTGCCTTAACTAATGCAGAAGTATCAACTAGT
GGGAGACCCAGGTTTATAACTGTACTAGGTACACAGAGGGTGCTGCGTTCAGCCTGGGCTTTCACAAAGCAGTAATATTCCAGGGAGCATAGAA
CCAGTGATACCGTGACTTTTAAAAAATAAAACAAAAACAAATTTATCTTATGACTATGTAATTTTCACTAGAATCTACACTTCTCAGAGCAGCC
AGGACTTTGGAAACTATGAAATGTCACTGACATTTATCATCAAATACAAGCATAAAATGTAAGAACTAAAAAATACTCAAAAGAAATAACTGCT
TAGCCCTAGCTTCTGAGCTAGGAGGATTTGGGCTGTGGAAACAGGGAGGGCCAGCAACCTGTCCCAGCACAAAAGAAAATAGACTCTGAGGTAG
ATAACTGATCATACACAGCTGACCAGACAAGTACACAGTTTTGGAAGGCAACTTAATTTACCATTGCTTTTAAGACATATGCAATTGCCTTAAT
AAAAGAGCTTTAATAACAGTGTATTATCTTATATGTACTAAAGTAGAAATAACTGTGTATTTATGAATCAGGAATTTCATAGTTTCAAAACTGG
TTTTCTTTACACTTGAACACTTGTAGTGATGACATAAAGTGTGGCACCGCTTGGATCCAAATCTTCCTTCATGCTTTTTTGTTTATGTGTGTCC
ATACATCAATTAAAATTATAAAACCTAAATTTACAGTTTCTGTGGGTCAGGAATCTGCGAATGGTCAGTTCGGTCCTTCAGAATCTCTCACAGG
CTGTAATCAAGGTACGTTGGCTGGGCTATAGTCATCTCACAGTTTAGCTGAGAATGATCTGCTTCCAAACTCATGTAGTGCTGGCAGGATTCGG
TGCCTCGCTGGCTGTTGGCCAGAGGCCACCCTCAGTTCTTGGTCACATGGGCCTCACCAGCATGGCGCCTTGCTTCATCAAAGTACACAAGCTG
AAGTGGCAATAGAGAGAGTCTGCTAGAAAGACGGAAGTCACCATCTTTTGAAGCCTAGTCACTTAAGGGACTGCACATTCTGTTGAGTAGAAGC
AAGTCGTTAGATCCAGCCCACACTCAAGGGGAGGGGCTTGCACGAGACTGAATACTAGGAGGCAGGAGTCACTGGGGACTATGCTAGAATTATG
CCTGTTGGGTTGGGCACAGTAGGTCACACCTATAATCCCAGCACTTTGGGAGGCCAAGCCAGGGGGATCACTTGCACCCAGGAATTCGAGACCA
GCCTGGGCAACATAGTGAGACCCCCGTCTCTATTTGAAAAAAAAAAAAGAATTATGCCTAATTATATGGAGGAAATCCTAGGCCAAATGACACT
GGATATTCTCTGCTGCTGCTAGCAAACTTCTGTAAACCAGGAAGGGCCTCTCTAGAGAGCCAGATGAGAGGACATAGGGTGGGTGTGAGGAAGA
GTGAGTGCTACAAGACAGTGTGAGGAGAGGTGAGTTCAAGGTAGGGGGAGGACAAGGGAGAGGGTTCCATTTTCAGCAGTGGGGCGAGCAGCAC
AAAACTGCAAAATGAACTGCAGATGCCAAGGGCAGTACATCCTCTAATTGGGGTGAATATTACAGAAACGGTCTTCTCTAAATTTCCCCAAGCT
GCAGGAGGCATTTCCTATTACGTTCTATGTTACTGTTTTACCAGGAGAAAGGGTGGTGCATTTTACCCAGAAACTAACATAGGCTCCAAGTGGA
GGAGAAGATACGACCAGCAAAGGATGTCAGTAACTGCTGCAGAGCCCTGCAAACCTGAACCCTGACGCTGACGCTGCCCTTTTGTTTGGGATGC
AATTTTAATATTTCCCTGCTCCTCAGCCCTCATTAAAAGCTATTACAGAAAGAAGCCCTTCAGGTCTAGGTTTCTTTCAGATACAGTAAGGCTT
CCCCTACAAAGACCAAGGCATAAACACAGCCCTGTGACTGTGGTTTTGACACGTTAATTACAACACTTCATCATGTTATTAGTGCTGGCTAGAT
GTAGATTGTGAGAATGAGATTTTAGTGAAGATTTAATTTCTTGGAATTAATTTCCCCTTGTGTAATAATCTCCCTTCTTGTGAATTTCGTTTCG
GCAGGAGTGACACTCTTTGTGGCCCTTTATGACTATGAAGCACGGACAGAAGATGACCTGAGTTTTCACAAAGGAGAAAAATTTCAAATATTGA

ACAGCTCGTAAGTTTGGAGAGGGAGGAGAAGCATGTATACCTTTCAGGTTGGGAAGGGGTCTTGCATTTCTGGTCTGCATCTCTTCAGATGTCT
GAAATGCTAAAAGAACATTTGCTAAATTCACTGGTTTACAACAATATACTTTGAGAAAAAGAAGAGTCAGTGACACAGTGCAGTATTTTATGGC
ACTGTGTGTCCAAGGAGATTTTTGGAGAGTACCAAAAATACTAGCACAGTCCATGTTTATTGGTTTTGGTTTAGGTTTAAAGGTTGTAAAATCA
CCAGCATCGCTCTCCACAGCCCTGAGTGTTTCTACAAACCTACAGTTTCAAGTGATTGGCACAAGCCTTGGCTACCCACGTTTCGTGCTCTCTG
CCTTGAGATTTTCTTCACATTTCAGATGTTACACTAGCTAAGCCCTCACTTGAGGCTTGCAACAAGTTCTTTATTTTATAAACTGCTAAACATT
TCTTTGGTGAAGCCTGTGGAGGCGTTTCCCTATAACAAAAATTTGGGAGTGACTGGAATCTTTTGGAGCTAGAAGAAGTGATTTCACCCACTCT
TGAATGAATATGCTGCATGGTTGTTTAATGTTGGCCAGGAGGAACAACAGTTAAACAAGCAGTGGGGAGATTTCAAGAGTGAGGATCACTCACT
TTTCAAATCCTACATTCAGTACCTCCATAAGAAGAGTAAACACGGGTCAGATTTTCTTAGGGTTTATAAATACTGCCTCTATTAGATTGAGGCA
GTGTATGTGGATGAGGCCCTTCAGAAAAAAATCTAGGTTCTGAAGAAAGTGTGGGGGGGTGGGGTTCCACATCAGCAAGCCAGGCATCTCCAGC
GTCCCTATGAGTGCTCCCGGTGGTTGGGAAAGAATGCCACCCAGGGGCTGAGGGGCACACCAGGAAGTTCTTCTATGCCACCAAGTCTGGTTGC
TTCTCCTCTGCTCTCTGAGCAAATCAGATTCCATGTTGGCAGAAGGACTTGGAGCCAGGCTCCTCAGCTTTCCCAGAAGGATATGCCAGAGGGA
GTAAGAGGCAGCCCTGGTCACACTGCACATCCCAGGAAAGAGGAGTGCTGATTGCCACAGGGACCTCCTTCAGGCCTGAAAACTGCCTCCTTGG
AAAGCCCACCCTTTTCTTGAATGCCCCCTGGCTCACAGAACCATGCAGTGAGAATATGCCGCCTTTCAACAGCAAGAACTGAATACTGCCATAA
AGGGCCAACGACTCTCTTCGAGACATCAGAAGGCACAGTCTACATAGCCACAGGGTTTTCAAACATATATTAGGATTGTCATCATTAACAAAGG
TGTGGGGTGGTGTTTTTTTAACTTTTTGTTGGAACACATGCAGAAAAGTGCACGTATCAAAAGTGTACACAGTGATGTTGCACAACAGTGTGAA
CGTACTTACTGCCGCTCAACTGTACACTTAAAAATGATTAAAATGATAAATTTTATGTTGCCTATATTTTACCACAATTTTCAAAAAGTATACA
GTTTGCTGAATTTTCACAAGCTGAACATGCCTGTGTGGCCACCAGCCAGGTCAAGAAGAGTGTTACCTGCCCCCCAGGAGTCCTCCTCCTGTAG
CCACAGGAAGTTTTTAAAAAATAATAAACAGCTACCATTCATTGAAGGCTCCTGATGTACCAGCCATGAGCTAAGTTACAAACATTCTCATGCA
TTCTTCCACTACTGTCTGAGGTATGCATCGACGTCATCGTTTGATATCTGAGGAGCCAGAGGCCCAGATTAGGAAACTGCCCCAGAGCACAGAG
CTGGCAGGTGGCAGAGCCCAGGGCGAGGTGCAGGGAGGCATCCTGAGAACAGTGTCAGGTTTGATCTGGGAAAGGCCCAGATACTTTATCAAAG
GGGATGGGAACCTTCAAGTGACAGGAAGCTTTGGAGAGTTGACTGGGGCTGGGGAGGAGGGGATTGGGCTTTGATCTCTCTGGGTATACCTCCT
TGCTGTTATTTTGCTGCTTGTTGGAGTCCATTAACTTTGAATTCTGAAATCCTCCGCCCCTTAGCCTCCCCTACATGCCAAGGTTGATTAGAAA
TTTCAAGACTATTTGTAAACTTTCAACTGCAAGAACCAAGGAATAGTAAGAGTGCAGACCCAGCTCTCAGGAGGCTTTGTCCACACTGCACGTG
CGTCTGTGCATTACGCTGGAGGGCGTTGGAAAGTCAGTCCCTGCCAGTGTCAGTCCCATGGCTTCTTCCTTTGTTAATCTGGAAACGATCTGCA
GTGTCACCAAATTGAAATTTTAGAGAAACACTTAAGGAGGATCCAATCCGTCTCAATCTCTATTTTGTGACTTCCATGCACGGCCTTTGATGTT
TACGGAGTCCTTTGAGCCTCCAACCCTGTTCTTGTAGAGGAAAATATTACAAAGGTTCTCTTCCTCTTAATGTTCTTCCTTTCTGCCAATGGAA
TTCCATATCAGTGGAATTTTAAAATTCCCTTTCTCAAGGTTATAGAAAAGAAAAATAAGGTTTGTGTAACAAGACAATATCCTGAAGTCAAGGG
TAATAACAGGGAAGAGAAAATCGTGAAGGAAAAACAAAGCAATAATACAGAAGCAGATGGCACACGGCTCCCTCCCCTCCCCCATCCTCTCCCGC
CTCTGGCTCTGGTCCTCAGAGGAGAGGGAGGAATGGGGCTCTGTTCTGCCAGGGCAGCTGCCACACCTCCTAGTGTGTGTCCTCCCACTCCCTT
CCCTGGTGGAGCCCTGGTGGCGCTGGAGGCCACAGGGCTGGCTTTGTTAAAGTACAACATACACCGTGGGATGTGCATGTATGTATGTACCCAG
AGGCGGTGTTCCTGCTACCCAGCAAGGGGCAAAGGTGCTTCATTGACCCGTTGTAAGTGCTCAGTGTCATGTATTAGGACATTATTAAATTTGA
ACCCCTTTTGCAAAGTATTTAAGTTCATCCATTTTATTCCTTGTTTTCACATTTCAAGACTAGTCGTTTACCATCTACGAACAGTGACTCTTTA
AAATGTAATACATGTTTTACACAGAGTGGAGTATTGGTCACAGCTGAGGGTAGGTTTGTTGTTTTTTTTTTCCTATTGTGATAAAAAGAAATCC
TGGTTTAGAGCCCCACCCAAGCATTTGATAAAATTGTTACCGACATAAAATGCTACACTACTGAGCAGATCAAGGCTGACTTCTGTTGGCAAAT
AACTACTCCCTGGCTCCAAGGCTCTAGGGCTCCCAGCTCCGGGGCCCACAAGCCTACGAGCAACTTTGGGGTTTGGGGGTAGACACTTTTCTTG
GTGTGGGGTGTGGTGGGGGCACAGAATCTTTTAGCAAGTCTTTAAATCAGAGGAACAGAGACAGCTGTTATAAAACCTTAAAAGCCATTCTAAA
CCAGCGCCAGGCTTTAAATCATATATTTGAATTAGAGCAAGATAACAAAGAATATCTCACCAAGTGCAAACTGAAAAATCTGAACTATAAGAAC
CGTTTAAAGAAATACAGCTTTAACAATGCTAATTACCCACAGTAACTCAAGAAATAAAAGATAACATAGTAGAGATCCTATTTTCCTAAATCAA
CATGAATATAGAGTATATCTATTTATAGGTGAATTGGTGCTTCTAGTGTATCAAAAAGATGACTTAATTCACTCGCTCAACGGCTCTCAATGAA
TATTTTGAGTCTGTACCAGCCTCTCTAGGCTCAACATGTGAGGTTTACTACATAATAAACATTGAATCTTTGTCACTTTATGTCTCCTTTGATG
AAGAAGATGACCCTAGAAAGCCTAGAAAAAGAGAAATCAAGGATTTTATCTTTCTCATGAGTAGCTGAAAACCCTTGTGAGATTAATAGGGTCA
AGTGAGAAAATCATGAATTCCTGATTCATGACTTCAGAATGAGCTGATAATTGCATTCTGATCTGTGCTACACTATTTAGGTACCTAGACCAAA
ATGAGATAGTTAATGCTAGATTTGAATTGGAAATGACTTCATTAATGCCAGATCACCTGAATAAGGCTGGGCTTGTCCCAACCTGCAGCAAAAT
GTATTGGCTTCCCGCCCCTATTGACAGTCTCAGATACCCTAAAATTGATGCTAGCCATTTTTTTCTTAATTTAATTCAATTAGAACTAACTTGA
TGAAGGTTATCTTGCATTAAAAAACAATAAGCCTCTGCTACAAGCACTTAATTTTTTCCTCGCCATTTTGGAGCATTTCCCAGGCTGGGCGGGA
GAGGGTGGAGGGGGAGGAGCTGGGTATTGTTATTTTTAATGATGAAATGTCTCCATCTAGTGGAACTTCAGAGCAGTAAACCTTGTCACTATAT
TAAAGTGAAGATTATGTCTCCAAAGCCATTTTCCTTAAACACATACAGTGTTTAAAGAAAAAAATAAACTTCCACATATGTTCTTAGATGATAT
CCTTACAACTGTATGTATTCCTTTTGGAAGGCATAGAAATGAGACCAGTACAAACTGTTAACATTTTTAATGTCATGATTTGAACCTCAAAGAG
AGGGGTGCTTACAATAGGGGAGCAGCACAGTGCAGATCCCACCCAGTTGGTAACGATCTAGCTCTTAAGTTGGGCAGTGGGTTCACGGGGTTCA
TATATACTGTACCTATATTCTTCAGTATGTATAAATATTTCCTAACAAAGATCTAGACATGAACTAAATTTAAGATTATGAATAAATCTAGACA
TGAACTAAATTTTATGAATAAAGAACTTTCTGAATATGAGTACTGTACTTTTGCTGGATTTGTAATAGGGTAAAAAGGAGAGATTAGGAAACTA
AATTAAAGCATAAGGTTTTAAAAACCTTTGCTGGCACCTTGGTTTTTTTTTGTGGGCTATTCTGTTACTTATGCCACCAAACATTTTCCCACAGC
AGCACCCCCAGCACATGCTGGCTGGTCACCTTTGTTCTGTTGCTCTATTAAATCCTATCTGGAGGCGTTGCTCACTGCTCACCTTGCTCAGAGA
GTCCAGCTTTAGAGAGCGGCCTCTGGAGTAATGCTTGAGTTTAATGTGGAGGCTGATTATTCTCTACCTGATTAAATCTGTCTGGGGAGCATCT
TTACCATGGCCAGAAGCTAACACATTTTTTTTTCCCCTGGCTGAAAGCTTTGACACAGAACTCAGCCAAAAGAACGATTTTTTTTTAAAATGC
CTGAAGTTTTGCTTGCTGCCTCCAAGGACCAAAAAAGGAGGAAAAGAAGGTCCTGAGCCCCAGGAGATCAGATTTGCTGGGAGGTCTGATTTGC
TTGAGGGCAATCATGTCGTTGACTGCAGGCTGGTGGAAGGTTCTGCAGATACTCAGTGGATGTCAGAGCCGCAGCGCCACATCCATGGCCTCCC
CGATGTTAATGGGAAGAGGTACACACTCCATTCCTGCTCTTCATCACAGGTAGCCCTGTTTGAATCTAAGCAGATGAATTTGAACTGCTTAATG
TACTCACTGGCTTTAAGATGAGAGTAGCTACAAGATCCCCTTTCACCTCCTCTGAGAGCTCCCCAGATTGATACCACACTGCTGTGCTGTGGCA
TGGAGCCTAAGGCAGTACAAAGTGGCGTGACTAAAAATCTCACTCCCTTGCCGAGTTTCTGTGCTTCACCTGTGCGAGCACACGCAGCCATTCC
CATCCTCACCCCTTGCCCATGAGCCTCAGGCCAGTGCTCTGGACATTTGATGGAATCACTTCAGACTGAAAATGCCTGGGGAAGGTGATCCTAC
TGTAGCATCATTCTACCTGCAGAGAGGTGTCTCCCCATCTTTTTGAGAGCAAGCCAGGCACGTGTTTAGAGCATGCCTTCATCCCTCATCAGAC
CTCCTAACCTCCCAATGTTAAGATGTTAACATTTCTAATGTCATGATTTGAACTTGAAAGAGAGGGGTGCTTACAATAGGGAAGCAGTACTGTG
CAGCTCATATTGACCTCAGACCTCCTAAAAAGCTTCCCTTCCCAGATGATCTGCAGCTAACATGTTCTGCTTAATTAGGCTGAGGCTGGATTCC
TTTTCCATCCATCCAAGTTAAGGACACTAACCAAGCAAAATGCCCCCTACCAAGAGAGACTTCTCATGGCCAGGATTCCACATTCTTAATTCAC
AAATAAGGCAAGAGACAACTGTGGGTTCATCTCATGGCTGACTCGAACTGGAACCTTCTGACCTTCACAGGGGGACTATGTTGGAGTTCAGAGT
AAAGGAATAGGTTGGAGAAATCGGGTGGCAGGATGATTAGGTGACAGTTATACACTTCAGACCACAGTGAGTCTCTAACTGCAAGCTGTTGAAA
TGGTCAACATATTTACTTTTCTTTTTTATTTACAGGGAAGGAGATTGGTGGGAAGCCCGCTCCTTGACAACTGGAGAGACAGGTTACATTCCCA
GCAATTATGTGGCTCCAGTTGACTCTATCCAGGCAGAAGAGTATGTTTCATTTTGTTTTCACTTAACTACTTGATTTTAAAAGTTGATTGCCGC
AATAAAATGCCATCAGCATTGGGCAGGAGGGAGAAGAAATTCACAGCAGTGATTAAGGCTGAGTTTTTCAGGCTTTCTGCCCCGGTTTTTACCC
TGTGTAATACTTGCACTATTATTAACTTAATGTTTCTCTTGAAGCCTGCTCACTTATTTTGAAAGAAAACTTTCTATCAATACCCTAAATGAAA
AGCCAGTAAAACTTGTCATAGATTAAAAGTAGCCATAAAAATATGAAATGCTAGCTAGAGCATATATTATTGCCAACCCAAGTTTCTAAGCCCG
CAGTCCACTCCCTCTGTTGGGAAGAGAGGGAGAGTAGCAAGTAATTGCCACAGATTAAACTAAGATTTTTCTCCTAAGTGTGATCAGAAATAT

TAAAAGAGTGCTGAAAAGACACCTTCTATGCCCGGTAAAAGTGACTCACATACAGTGTGTCCCCCCAACTTGGGAAATACTACAGTGATTTGGA
ACCTCAGTTGGCTTCTTTGGTAGTAAACAGTGACGAGCAGTTATTTGGCCCAACTATTCAACTGGTAGCAGTTTAGGAAGGTGTTCAGTAGGCT
GAAGGGATCTAAAAGGGATAACCTTTCTCCCTTCTTCTGACCCATGAGGATTAACAGGCACTCCCAAGGGGAAGAACTGCCAGTGGCTGTTTGC
CAGCCCTGAGGGAAGGAGAGATGGAGCCATGATTTCCCAAATGCAGGAACTTGGCCTCCTCCTGACACCTTGGGTCTTGCCTCTCTAAAAAGGA
AGTTGAGAAAAGTCAGTCACCAAGCCCAACCTTTGGCTCTGCTATTTAATTTCACCATGGATTTGTTTAAGTAGTGCAAGAGGGATTAGACTCC
ACACCCTAGCCAAATCCCCAGTTGGATTGTTCTATTCTTTAATTCCTTTGTATTTCCTCTAAGAGGATCTGTTTTGTTTCCCACTCTCAAATAC
TCAGTGGTTCTTAGTTGTTTCTTTCTCCTAGTGACTGTGTTTCGTCATCAGTGAATCAAGGTATTTGTATTTAATTTGTATTTTAGGGCAGATT
TGCAAACATCTTTGTGTTCTTTCAGAATAAAAAGTACCACCAAAATGTAGCATTACCCTGATTTAACTGGGAATTTGTCAGCTATATATTTAAG
TTATTTTTATAATGGTCAACTTTTTAAATATTTTGTTTTTAAAGAATATTATTTTTTAAAATAATGCCTTCGGTTTTACATATGCAATTAACTA
TCATTATCTTAAAATACTATTGTTTTGGTGCAATCCATTGTTCTAACAATTCCTTTTTCACCACTGTTTTACACGGCATTCTAATTGGGTTATT
GGTACAAACCCAGAAAGCCATTTCTCACAAATAATTGACGTACTAGTCTTTACGCCACCTAATGCTAGATTAAGAATTGTTGCACATTTTGGTG
TTTCTAAAAGTCACTGAGGAGCTAATACGCAATGTCTCTTTTCTTCAGTGAAACTTAATTCACAAAAGAATTTGACAGTGAACTCATGATACCT
ATATTCAAGCATAATGAATTGAAATTTCATTTTAGAATCTGGATTCTTTCACAGTTAAATATTCTAAAAATGGTTCCCACACACAGATTCCAAT
TGAATGCTCCAGCATTCTCCCTTGGGTTTTGGGGGCACCTGCTGCTCATTCAGCACCTAGTGCTGAAATAGTAACTAATTGCCAGGCTTGGTTA
AGGCTTGAAAGTGCAGGGGGAGGATATAAGGCAAATAACAAAAGTCTTGAGGTGACTTAATGTGATGCCTCCTAAAGTGGCACAGAGTATCATT
AGTTTCTTCAGGGATAATATATTGAAATATCTGCAACACCAAGTCATTTTAAGGGCATGCTTTTTGACTGGGCACAGATCTCAAAGGTGTACAG
TAACCAGTTCTTACAGTTGTGCCAAAGAAAAGATGTACAGGGTCCACCGTGATGGCTCCCTCCTGTAATCCCAGCACTTGGGAGGCCAGGGCGA
GAGGATCACTTGAGCCCAGGAGTTTGAGACCATGCTGGGCAACATAGGGAGACAGTCTCACTCTGTCCCCAGGCTAGAGTGCAGTGGCCCTGTC
TCGGCTCACTGCAACCTCCACATCCCTGGTTCAAGCAATTCTCGTGCCCCAGCCTCCCGAATAGCTGAGATTACAGGCACATGCCACCATGCCC
AGCTAATTTTTGTATTTTCAGTAGAGTTGGGATTTCACCATGTTGGCCAGGGTGGCCTCGAACTCCAGACCTCAGGTGATCTGCCTGCCTCAGC
CTCCCAAAGTGCTGGAATTACAATCATGAGCCACCACTCTTAGCCTCTACAAAAAAAATTTTTTTAGTTAGCAGGTGTGGTGATGTGCACCTTT
AGTCCCAGGAGGCTGAGGTAGGAAGATTGCTTGAGCCTGGAGAGGTCAAGGCTGCAGTGAGCTATGATTATGCCACTGCACTCCAGCCTGGGTG
ACAGAGTGAGACCCTGTCTCAAGAAAAAAAAAAAAAAAAAGAAGAAGAAGATGATGAACACAGATCACAATCCAGGTGCTTGGTAAATAAATGCC
TTTACTTATCCAAGTCCTCACACACCTAGGGGAGGAAAACAAAATACAAGTAAGTACTCATGGGCGTTTTTCTCAGAATTCTTATAGGGAGGAA
GTTATTGAAAATACTATTCCTTTATTCATATCATATCTATCTAATCTGACTTTTTTTAATGCTTGATTATCTTCATATACATTAAGACTGTGTT
TTGTTATTTCCCAGCAGTTACAATAATGCTTAGATATCAAGAGATTCAAGAGTTTTGTTTTTTTTGTTTATTTTTTGTTATGAGACAGAGTCTCG
CTCTGTTGCCCAGGCTGGAGTGCAGTGGCGCAATCCTGGCTCACTGCAACCTCCACCTTCCAGATTCAAGCAATTCTCCTGCCTCAGCCTCCTG
AGTAGCTGGGATTACAGGTGCATGCCACCACACCCAGCTAATTTTTTGTATTTTTAGTGGAGATGGGGTTTCACCATGATAGCCAGCATTGTCT
CCATCTCCTGACTTCATGATCCACCCACCTTGGCCTCCCAAAGTGCTAGGATTACAGGCATGAGCCACCATGCCTGGCGTTTGTTTTTTTTGTT
TTGTTTTGTTTTGAGACACGGCTTTGCTCTGTCACCCAGGCTGGAATACTATGGCACAATCTCAGCTCACTGCAGCCTGGGCCTCCCAGGTTCA
AGTGATTCTCCTGCCTCAGCCTCCCGAGTACCTGGGATTACAGGTGCCCACCACCACACCAAGCTAATTTTTGTATTTTTAGTAGAGCTGGGGT
TTCACCATGTTGGCCAGGCTGATCTCAAACTCCTGACCTCAGGTGATCTGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGTATGAGCCA
CCATGCCCAGACTAGAGTCTTTTAGATAAGTGTGGAAAGGGTCTCCTGCAGTAACCATTTCAAATCAAGGTCTTAGATTTCTGGTTTTTTGCAT
ACAGGTGGCAGTTTTAACACAAACCAGTTCTGGTCATGTCTAGAGGGGAGGAAAACAACCCACAACTCAAATCTGATTTTTTTTAAAGAGTGAA
AGAGATGAATTAGGGATAGAATCCAGGATAGATTGAAAAGGAACTGAATTAAGCTAGAAAAAAAATACATCCAGGGAAAGGTTAAGGACTAAAT
TGGAGGAGAGGGGAATTCATGGGCAAAAAAAAAGCCTATGCTGTTGCATTTTGTAAATGACTATTTCAAAATATTTTCTTTCCTTGATCTAATT
TAAAGGTGGTACTTTGGAAAACTTGGCCGAAAAGATGCTGAGCGACAGCTATTGTCCTTTGGAAACCCAAGAGGTACCTTTCTTATCCGCGAGA
GTGAAACCACCAAAGGTAAGATAACGAGTTGAAGAAGTTGGCTTGTCATTCAAATCTGTGGATTAGTCAGAGGGGATGAAAGGCTTATCTCTAA
TGTACAAGGATTTTAAAATGGCACATACCCTCCCTGCCTTGTGAGTGGAGTCCTGTTTTCAGTCTTCCCTCCAGGCTCTAAAACTGCAGACAGC
ACCAAAAGAACTACAGAGGCCCCAAATCAAGACCTTCCTCCTGAAACGGGCTGGATGCAGCTACACTGCTCCAGGCACACAAGATCGTAGAATT
TTCAGAAGTCCTTTAGAATTTTGATTTTCTGAAATCTTAGTTCCTCAGGTGCCAGTCATACAGGTTGTTTTTGCTTTCCTTTTGTTTTTTAAAT
AACTGAGGACTTCACTTCTCTTCCTCCAACTGTTGGACTTTTCATTATTTAACAACTCCTTACAACCCACAAGAGGAGACAGGTCAAGGAAGAA
AAGAGTAGTGGCCTCTAGCTTAATTTGCCAGATTATCCATTCCTGTAAAAAGTGTTGTAAAGCAGAAGCTTGAAGCTCACTTCTAGAGAAACAA
GCCTTAGATTTCTTTTGCACATGCTGCTGCTACCTCCCAGTATGCCCCTGGGTAGAGAAGACAAGGGAAGCAAGCTCAGCCATTCATCGTGGTC
CTTCTTTACCCTTGGGGGAAAGGAGTGTTGGAATTGAGTCTACGCTGTATTATGCAACAAGGGGTACCGAACAGTGTGTTTAAGAAAAATGTCC
AGGAAGCTTTCAGTCTCAAGGGCAGAATCATTTTATTGCTAATATATTCTGACATTTGCAGAACATCAAGAAGCATCTTCTTCCTGTTACTGAG
TGGAGATGCTGTGTGTGTGTACATGTGTGTGTGCATCCTTGGTAATTATTAATCAGAGTCAAGAAAATGAGGCCTAAAAAGCAAGCTGATACTC
TAAATGATTGGAGCTGCTAATGCTTTCCACGTTTACCAGGTGCCTATTCACTTTCTATCCGTGATTGGGATGATATGAAAGGAGACCATGTCAA
ACATTATAAAATTCGCAAACTTGACAATGGTGGATACTACATTACCACCCGGGCCCAGTTTGAAACACTTCAGCAGCTTGTACAACATTACTCA
GGTAACCTTAATTCTAACTACCTACTAACCATTTGGATGCTGGAGGGAGTGGATAGGCCCAGAGCAGGAAAGTGGAAAGGGGTAAAACTAATAT
GTACAAAATCACTTATAGAGTATGTTTTCTTTGCCAGCCCTTAATGGTAGGGCTTGGCTGTATAGGTTCTATTGCTATTGTTCTACTGTTGTTA
TTATTAGTTCCACATGTTTGTCCGAAGATTCTATAATATTTTTGTTTCCCAAGTAGAAAGCAATAGGTTAAATTTTAAAAGTTGTTTGTTTTTT
CATCTTCAAGTTGTCTTTTCCCATTCCCCGCGTTGCATGTGAGAAAGCAGTCTCTCGGAGGGCGCTTACATGGGGACTCCTACAAGGAATATTG
TGTTTCCACTATCACTTTACCCTCAGCACTGTTGCAGGAATAGCTGCACGTACATTTCATTCTCATGCAAGCCATTTATCATGTTCCCCACCAA
TACTGCTGTTTCCTAACTAGGCTTAGACTTACACAACCCACAGCTCTTAGATCTATTATGTCTATTGTGTTAAATTAAACTTTTATAATGTACA
TCAGTTTCTGTCCTAACACCCAGATATCACCATTATTTTGTTCTTTCTGAAAACATATAATTATTAGATATGCAGTTTATACATTTTATCAAAG
ACTGGTTTTATGTGCAATTGTTAAAATGATTGCTTTCTTTCCTAGATTAGCAAGTATTATATGCCACTATATAATACATGTTCACATGTGCCTA
TAGATATAGGTGCACATGTATAGACACATGTCTATATCCTATTAAGCCTAGAGATATTTTTTTGTGTGACCCATTTCTCCATTTTCTATTGTTC
TCCAGGACAAAGGCAAGACTCAAAAATAGTATATGATTTACCTCTACTATTGCTCTGTGCACAATCATTGAAATATGTATGTATAATTTTTGGC
ATGAAAAAGCAATCTTTCGAAAATGACAATAAGAAATGTCTGTTGATCCCTTGCACTAATGAACAATAGAAAATATTAACAGCACTTGCAGTAC
TAGTTGATTATGGCATTGGCTAACTCGGTTTATGTGGATTCTAATGAAACATTTGGGAGAAATGGAACAAAATATCTCCCTGAGCTTAAGTGAT
ATACTCAAAATGCCTGCATGTTGTAAGGATTTTTCAAATGCTGAAATATATTTCATTACAGCCAAACATCAGCAGGATCCCCAGGGTTTGGATC
ATTTGAAAATACTGTGTTCGAAAGGGCACCTTAATAACATTGTAAAGCTGGAAGGAAAGAGGGGATATGAACAATAGACACTTTTTTTAATCTC
GGGGAAAAAAAATCCATCTCACGTTAGACTTGTTTTTATATTGGCTTTCCCTCTTCCCTCTTTCTCTCTCACACAATAAAATGCCTTTGAAATG
CTGACACATAAATAATTTCCTACCTAAACATCTCAGAGCCTGATTCCATCAAAAAGAAAGGAGTAAAAAGCAAGTTACAGCCCAGCAGCACATC
TGCTTTCCCTGGGTCCGGGGGGCTGCCAGGAGGGAGCGGGAGGTCTGTCCACCTCACAAGGCAGGCTCTGTCAGCTTTTGTCACTCCCTGATTTC
TTATTCTTTGTTACCTTTTTTCGCCTGACTGATTTTTACTTGGCATTTAAGTTCCCCTTAGCACTGCCAGATTCTAAAAGGTTATATTCTTTTT
AAAAAAGAAGAGAAAGAAAGAAGGAAAGAAGACAAAGAAAGAATAAAAACCTCCGAGTGTTAACTACTTTTTCCTTTCTTCTTTTTTTTATAAA
GAATACATTCTTTCACATCTTGAATTTCTGTGAATTTTAGTTTCCATTCTTTCTCCTTTCAAACCAGACACCTAAATTATACGTCGAAGACTGT
TAAAAAGTTGTTTTTTTTTTTTTTAATGGAAAATATCCAAGAAGCAGCCCAGGAGTATCTGACATGGTGGAATGGAATCAGTTAGAAAGCGAAGA
AATCACTAAAAAAAGTTACTTCTTTTTTTCCCCACCAGTTATAATCTTCAACCTTACTAGTTTATAACAGTTTAATGTCCTATAGAAGGATCCT
CCACTAAAGTTATAATTTTAAGTATAGTCATATAGAGAGATCCCTAATCCCCTGGGTAATCTAGATACTAAAGGTGGGGAAGAACAGTCATATT
GACATTCTTTAATCCAAAACCACTGTTTGAAATTAGTAAGGATATTTTCAGCATTCCCAAAAACATGTTATTAGCACGTTGAGCTGAAAACGTT

TTTCTTCCTCAGTGAGTACAGAAACCAAAGCAGTCTGCGTGTATGTCTATGTATAGACTGTATCGTACCTGGGCTCATGGAGTAGTCTAAATTT
AAAACGTCCTCTCTTCTACCTCCAATGAAAATGTTTCCGTGTGTGGCGTCTGATCTTCCACCGTGTGTGTGGTCGTCTGCTGGTGTAGCGCTGT
TTAAGGAGCGCTGTGTGCTGCTAGTGTTCCACGATGTGTGTGGTCGTCTGCTGGTGTAGTAGCACTGTTTGAGGAGCACTGTGCGCCGCTAGTG
TGGGTTTACACTTATGAGTGTTGTCATTACATGTGTTCTGCTCTTCTCTCCCTCTCCTGCCCCTGCCCTGCTCCATCAGAGAGAGCTGCAGGTC
TCTGCTGCCGCCTAGTAGTTCCCTGTCACAAAGGGATGCCAAGGCTTACCGATCTGTCTGTCAAAACCAAAGATGTCTGGGAAATCCCTCGAGA
ATCCCTGCAGTTGATCAAGAGACTGGGAAATGGGCAGTTTGGGGAAGTATGGATGGGTATGCTGAGACTCAATTACTCTCTTATTAGCTTCCCC
GTTTGGAAGATCCCAAACACCAAAGATGGAAGGTGAAAATAAAGACTGCGTGACCGGGAAGAAAGTTTGAATTACTAATAGTGGGGAATAATAA
TTTCAGTTTTGGTTTTAACATTCTGGAATTCCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAGATAGTAAGTGGGCAAAATTGGCAAATGGCTCAAGT
TGTACTATTACATGACTCTCAATTCATAAACCAGCAAATGGTCCAAGGAATGTTCCAGCTGCCATAAAATATCTTGCTCTTCATTTCCAAAAGC
AAATATTTGTTGAGTGTCATCCTAACGGGCAAGTCACCTTCCATCTTTCCTAGTGCATGCATAATTATGGATTATAAGGACTGTGTTTTCTTTA
TTAATTCCCTTTCCTGTAGAGAAAGCTGATGGTTTGTGTTTTAACTTAACTGTGATTGCATCGAGTTGTACCCCACAAACTTCTGGATTGGCTA
AAGATGCTTGGGAAGTTGCACGTCGTTCGTTGTGTCTGGAGAAGAAGCTGGGTCAGGGGTGTTTCGCTGAAGTGTGGCTTGGTAAGGCAGAGGG
CACATTTTGTTTTGGCTGCATCTCAAAGCCGATTAAAAGGATGGTTTTGAACAAAAATGCACACACAGCCGTTGGGACAAAGACACTTAACCTG
GATAACTAGACGGGCACAGGCCATCCAGATTTTCAGAATATGCTGATACCTTGCTGTGCTCATCTGTCCTACTTCATGTGGTTAATTAAGGCAC
CCGCAGAACAGGAAACCAGTACACTATGAATCTGGTGTTTCCTCTTCCTAAGAAATGGGAAGGTAAGATACTGTATATGGGCAGCCATAAGAAA
GACCATGGGCGTTTTGCTCAATGGGCCTGGGTTTGAATCCTTACTAGCTAATTAACCACGAACAAGGGGCATATTTAACTCCTTTAAGCCTCAG
TTTTTTCATCTGTAAAATTGGAATGATACCTTTTTGTTGTTGTTGAGACGGAGTCTTGCTCTATCACTAGGCTGGAGTGCAATGGCGCGATATT
GGCTCACTGCAACCTCCACCTCCCAGGTTCGAGTGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGTGCCTGCCACCACGCCCAG
CTAATTTTTGTATTTTTAGTAGAGACGGAGTTTCACCATGTTGGCCAGAATGGTCTCGATCTCCTGACCTGGTGGTCTGCCAGCTTCATCCTCC
CAAAGTGCTGGGATTACAGGCGTGAGCCACCACGCCCGGCTGGAATGATACTTATTTAAAGGATTATTTTTAGGATTACATGGGTTAATATGTT
TAAAGTCCCTTGCAGATAGTAGATATTCAGTAGAGATACATACTTCTCTTTATTTGATTGTCATTGATAAGGCTGGCTGCACTGGGCCTTTGTA
ATTTCTTTTTATAGCCCTTTTGGGTCAGTTACAGCTTTGCTTAGAAACAATTCATGGGTTTAGGCCCCACTCAAAAACATGTTTCAGTAAAACAA
TATTAATACTTATGGAATCCTCTATCTTCCTTCCTCAGAACTCATTAAAAACAATATCGATCAGTACCCTTTGCTACGTGTGGGTATAGATCTT
TAGGTGTGGTCTGCATTAAAAGAGTTAATACAGGTGGCCGGGCACAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGCAG
ATCACCTGAGGTCAGGAGTTTGAGACCAGCCTGACCAGCATGGAGAAACCCTGCCTCTACTAAAAATACAAAAATTAGCCGGGCATGGTGGTGCA
TGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCTGGGAGGTGGAGGTTGCGGTGAGCGGAGATCGCACCATTGCA
CTCCAGCCTGGGCAACAAAAGCGAAACTCCGTCTCAAGAAAAGGAAAAAAAAGGAGTTAATACAGTTAAAGCACTTAAAACATAGCCCAGCAAA
TGATAAGTACTACAAAGATGTATGTAGGTATGTTAGGTGGATAAATAGGTAGTAGACAGACATACACATATATGTATGAGTTAGCTAGTTTA
ATAAATCCACATTATTGTGTCCATCTCTCTCTGGACTTAATCTCAAGTATCGTAAAATATATGACCTCCTTCTTCCTCATTCACCCTCTAATAA
TAGAGGATTTTAGTCAAATTACTCACACAATCACAGAGAATTGGACCCTATTAGAAAATTTATTTTCAAATTTTACAAATATCAACTTTAAATC
ATTACATATACTGTTCACATTTTGTTTTCCAATAAACACAAGACAACATGCCCATCAGAATTGGGATGGATGTCTGTGTAATTGACGAAGTTTG
TATTACAGAGGAAGATCTTAATGTATTTAGAATTTTGGGTGCTGACTCTTAAATAGCAAAGATCACTTATAAATTGTCAAATTTCCCATGAATG
CTTAGTGGGCAGATATTTTATGAAGTTTAAATGAACTTTTCTTTAAGCCACTTGTTTTTTCATAATTTATATTTTGTAGGTTGCATGTTGTAAT
TGTATGAACCATGTCTTTAACAGGATAATAAGAACTCCAATTTACAGAATCCTTAAATTCCAAAGTCAGTTATATTAAATATAAAAATCTTAAT
TTAAACCAGTCTTCTTTTTCAAATAGAAAATAATCTAAATTAGCAGATTTCTTCCCCTTTATAAAGTTATTCTTAAGCATCATAGGTCTAATAA
TGGAATACACAAAGAACCTAGGTATGGTTTTGTTTTTTGAATGCTGGGGCTGAAAGAGACCCAAAAGATAATCCAGTTCCATTCCTATATTTTA
CAGATGAGGTAACTGAGGACAATCATAATCCAGGCCTTGCCTTCAGATTTGCTAGATTTTTTTTTTAACATGCTAAATTTAAATATTTCTGTTCC
CTCTCAGCTGCTGTTTAATTTCCCCTGTCTACCTACCTGACAGAAGCCATTGTCTTGTGGCTAGCCATCAGTAAAGCTGAGGAAATTTGCCTT
ACCTTGTTGAAGTATTGGCAAGCAGACTGTGAGCTCCTTGCCAGTGCTTATCAGCATGCTTGGCACACCTGTGCAAGGACTCAGTCAAGTAACT
TGTCCATTGCAGACATTGAAAGTCTAGAGGTAATTTCCAGACATCCTCATGTGGTGCCATATTTTTAAATGGCACACCCCATAAACTTAAATAA
TCTAATTTCTTCCATGCACACTGTACTCCCTAAGGGACAGCTATTAGATGGCCAGGCCTGTTCCAACCCCTGGACTTTCATCACTGTATGGTGC
AGAGCTTTTGGTATAAATGTGTAATCATATGACTGAGCCAAAAAAAGAGAGAGTGGTAATATATCAAAATTTAAAAAAATTTTAATGAGTTATA
AATCTTAATATAGCCATCTTAGCCATAACCACAAATAAACTCATTTTTTTCTGTTAAAATACTTGACAGAGTCCTTGCAATTGAATGTCTTTGTT
CAACAAAAACTGTATTAAGTGTTTTAAATTTAAAATCTAATCTTATGCAAATAGCTGGTGGTCAAAACCTTTTTCCATCAAAAGAAGATCTTTG
GTTTGACTTCATATTCTGGGATGTTTGTAGGTACCTGGAATGGAAACACAAAAGTAGCCATAAAGACTCTTAAACCAGGCACAATGTCCCCCGA
ATCATTCCTTGAGGAAGCGCAGATCATGAAGAAGCTGAAGCACGACAAGCTGGTCCAGCTCTATGCAGTGGTGTCTGAGGAGCCCATCTACATC
GTCACCGAGTATATGAACAAAGGTTGGGCAACACCTCTCCTGTCTCCAGCTCACAGTGCCTTAAGGGGTTGTTTAGGGGAGAGAAATGGAAGTT
TCCTACTTGCTACTTTTCTAGTTTCTGCCTGGGTCAAGTATTCCCATTAGGAACCACCAGTTATGTGCTCGTTAATGAAAACATTTTTTAAAAC
AGACTAACCTTGCGTTTACCCCACCCCAAATCCTTATGAAATGCCAAATACTTTTTACATGTTATGTGTGTCAGAAATTCAAGCTCCTCTCCAT
AATTAAAACATTCATTTTTAATATCAGGGTGGTACGGAGGGTTATGATAGTTTGCTGTTATTTTGAATGTAGTAGCTTTTGTTACATTTCCTTT
TTGCAGGGCTAAACAATTAATATCAGACACTGGTCTCTAAGCTAAGTTTAGTCTCCATCATTTCAACATCTTTTTTATTTCCAGCTCTCTTCTT
AAACGTCAGGCGATGAAATTACATGCTTTCAGAGACCACATTTATTCTCACATTCTCTCCCCTACAACCCCTCTGTCTTCCTAATCAAACCAGC
ATTGTTAGGGATAAGGCCAGAGATCATTTTGTTTTGGAAAAATAGATGAACCAAACAAGAAACAGCCTTAAAAGGCAATACATTGTTTATCAGA
GGATACCAGTGTAATTTTTCTTTTCCATGTACTTTCTTTTAAAATTTAATGGGAATTTTTTTTTCTGGCAAACGGTTTGTCCTTTGTATCCAGG
GTTATTTTGTAAATAACTTTGTGATTAAAGCATAAAATATCACTGATGACCATCATAAGCCTCCAGCTTCTGCAAATGATTATCCCTGCTTTGG
TGTTAGTTCTAAGCCTTCTTAGGCTGTGTTATAATAGTGGCTCTGAAGCTTCCAATGTTTCATTTCAGATGTCTGATTTAAGGCTTGGCTGGCT
GTGATCTAATTAAGGGGAACCATCTGCCCCACCCATATTCTTCAGATTGTCTTTTCTTGATTCAAAATCTGTAAATAAGCTAAGCTAGTGAGTC
TCAAACTTTACCTTGTATTATTAGAATCACCTGTAGGCCTTCTTAAAACCCAAGTTTCTGGACCCAACCTTCAAAGTTTCTGATTTACTCGATC
TGGGATGGGACCTGAGAATTTGCATATCTAACAAGTTCCCTTGTTATTGTAGCTGCTGGTCCCAGGACCACAGTTTTGGACCACTCAGCTGG
GCTGTATTTTCCCCACATCAATTCTTTGTGCAGGGGTGATTGGGGAATGGGATTGAAGAGGTGCAGTTCTTCATAGGTTCCTCTTTATGACATA
CAGGGAGATTGAGTCCCATTTCTTCTAGTTTTATCAAATATATGTTGTTATTCCTAGAAATGGAATTAATGCTGTTTGTTTTTAAAAGGTAACT
GTTACTTCTCCATGCCTATACTTTTTTCTACCCTGCTTTTTTATATAAACCTTTTTGTCCCCCCATGTGGATGGCATTATTCCATTTGACTACC
TTATTACTTTTAATAAGAAAACCAAATACAGCTCTCTGTTGGGAATTATCTTTCAAAGTAAATTGAAATTTATGTTTTGTTCATAGGAAG
TTTACTGGATTTCTTAAAAGATGGAGAAGGAAGAGCTCTGAAATTACCAAATCTTGTGGACATGGCAGCACAGGTAGGCCCTGCAGGGTAACTT
GATGTGCCATAGATTTAATGACGTGTCTAAGTACATTGGGTCGTGGTGTAACATGTCCTGTTCCCTGGGTTTCCACAGGTGGCTGCAGGAATGG
CTTACATCGAGCGCATGAATTATATCCATAGAGATCTGCGATCAGCAAACATTCTAGTGGGGAATGGACTCATATGCAAGATTGCTGACTTCGG
ATTGGCCCGATTGATAGAAGACAATGAGTACACAGCAAGACAAGGTGGGCACTTGAATGACAATGGCTCGTGATCACAGCTGTGAGAACAGTCA
CTTACTGCACAGCCCTTCCTTCCTCCTTCCCTTCCCTTCCTTCAGAAAATACTTGAAATGTCATTCTTCAGCTTGGTTTGGACACCTTCATCTG
GCAGGAATTTGACAGCTCTGCAGGTGGGAGACTGTTGTGGGCCCAGTGGAGGGATGAGATATTGGTTTTTGGTGGGTGGGTGGGTATTGGTATT
TGCTGCTGTGGTCCTCTTGGCTCATGCTGGTCTCCTCACAGCGTCCAGGCCTAGAATACTCTGTTTTTGGAGAAAGAGACCACATTTATTCTCA
CATTCTCACATGCCTGTGTTTTTTACAAAGGCACAGGCAGGGTTTCAGAAAGCCAACAGGGCATGGTGCAGTGTCTCAGAGCTTGTAACAGCAA
CAGAACTAAGGCCTCAAAGGTAAGGGGGCAGAGAAGTGGGCACAAGAAGTCAGAATGGGCCACTGCACAGAGAGGGCCTCCTCAGTAAAGAGAG
ACGTCAGGGATGGATCTGGGGATTCACACCCAACCCCACTCTAGCCCACTTCTGGGTCTTCTGCCAGACCCAACCAGAAGTAGAGGTCACAGGA

GCTCAGCGATGAATCCTTATGGGTCCAGAGCAGGGAGAGGGAGAGTGGAGAGTGGACTTACACTACAGATGGTAACAGCATAGTTACTCGAAAA
TCTCTACCTCCTTTCATCATCCCCGCCATCCCACCCTCTGCAAAAATTTATAGAAATTAGCCTTTAAGTAAAATATATCCCAACTCAGCAGCCA
TTCCAGTGGGGCAGCTTTTCAGGTGCTATTAGAGCACCAGATACTAGAAAGGAGTTTTTAGGAATATTTTCCTTCTTCCCAGATACTGACAAAG
TGGTCACCAGGTAAAAGTGTGTGATTAAGTATGTGGTTTGCAATCGAGTATAGGCTCCTCATGTAGAATATAATGTTTATAGCTGGGGCAAGGG
GGAACTTTCATTGTTGGTGTTTCTAACCAAAGCCTAGTCATCCCAAGCAAAGCGGAGCAGTGACTGGAATGTATTACAGGGTGATGCTTTCTAC
TGCATTTCATAATGGCCAGCTCTGGAGTCCTTTTCTTTCTCTTTTTCCTTCTCCTTCTCTTGCCCCTGTTCCTCCTCCTCTTGATTCTTTCATT
TCATGCCAATTATCCTCTCCCTTCATTTGATCTGAGAATGGAAGCATTCTTAGCAGCCTCAAGTGATGAGGAAAAATGTTAAACTAAGACCCTG
GCTGCTACCGATACTGTCCAAATGCTGAATTACATGTCGGTCAGACAGCTCAGCTATTTGAATTTCCCCAACACGTGGCAGTTCTTGTCCTGGA
GCCAAATGCCCACACAGCAAGCATACCCGTGCGTTACACACACACATACACCCCCGGTGCTGGGCCAGATGGCATGCTGTATCTCTAATCAAAG
GCGCACTGCAGCTTTGATTGGCACTGGCCGTCCAGAGAGGAATGTGCATGTGAATTTGAGGCAAGGTGAGCCGAGAGGACCTGAGTGCCAGTGG
ATCTGAGACTTGCCCTGAATGAGGGACTTTATCCTGAGGCAAGTCTGTCAGATCCCAGCTCCTCAGACTCAGAAGGAGAGTGGGCAAAGGTTGT
GAGACATGAATATTTGATTAAGGAAAGGGCTAGAATAGAGCCGTGTGCTCACCCTTCTGTGTGTGAGTCGAGTTTTTCCCCTTTTCCTGGACTT
TGAACTCTACAGGGTTTGTGGTTAACGCTCATGAACCATGGGTAAATGAAAAGGTTGCCAGGCCAGGAGCCAGAGGATGCTGGCAGGGGTGCTG
TTAATAGGGCCTGGGGGTTTAGTCCACGCCTTATTCACTGGAGTGAGGCTCCTCAGGCTGTGGCCCTAGGTGATTGGCACCCTCGCTGGTTCCC
CTCCCATCAGGCTGCTGCCCTGAGCGGGTCCCAGGCTGCTGCCCTCAGCCTGGCCCCCAGCCGTTCCTCTGCATTAGCTGTCCTGATTGCCCTT
CTGCCGGCTGCCCAGCTGCACCATCATGTCCCCAGGTGCCGTCAGAGCCCCTTTCAAAAGGCCAACCTTGTTCTTTTAGCCTTTGTACTGCGTT
TCCTTACTTAATTTCCAAATCGAGGGTCCCGTCCTTCCTTCTTCAAACATTTTTCTTCTTTCCTCCCTTTCCCAAACACCTTCAAATCCATGCC
AAACACTAGAAAGAGAGAAGTAAGAAGTAAGTGAACTGGAGAGCTGAACTGGGGGGGGGGGGAAATGAAGCTTGGCAAGGCAGGTCCCAGGATGT
CCCAGGAGAATAAAAGACATGCTGTCCTGCAGCAGAGGGGTAGGGAGTGGCAGAGCCATTTATAAAACACCTTCCAAGTGCCAGGCCTGAGAGG
AAACGTGAGGACCAAGCAGGGAAACAATAGGAATAGACTCAGAGGGGTTAAGTAACTTGTACAAAGTCACACAGCTAGGAAAATAGCAGAGCCA
GGATTTGAATCCAGAAATGGCTGACCCTGTTGCATCTACCATTCTAAGCTATGCTGACCACATCTCATCAAGTCAGTGATCAAAAGAACAGAAA
ATAAAGATAGAGAGGATTAGTCATACATCCCTTTTCCCCTTTATTTTATGGGACTGTTTTTAAGGAGCACCTTCTAGTGTGTCTGTATGAGGGA
GTTGGAGAGACCTTCCTTTTCCAGCACTGGGACAACCCAGCTGTTTATAAAATTCCTCCCGAGGGCCTGCCCTGCCCTGGCTGCTTTACGAGGC
AGAAAGGGCCTGGTGTGTGTCTGCTGGTGTACTCTGCAGATGGCATGTGTGCTGTGTGCTGAAGTTTCTGCTGGGAATTAATCAGCTCCTCCAG
ACAGCTGGTCCGCATGCCTAATAATATTTGCAAGTCGGGTTTTATGTTACCCACAGGCCACAGCCATGCTGCATCTTGATTATGGGAATGCAGG
CGGCATTCGGAAACATGCACCAAACACAGATATTTTAGGACCATGAATGACAATTGTTTTCAAAACAGTTGTGAGTTTCCCATCTCAGCGTGCA
CGGAAATATCTGTCACCCCTTGGGCAGATGAGGTGGCATTGCATAGGGCACAAGCAGAATTGGAGTGTGGAGCTGGGTTCCACAGTCCTTCCTG
TGCTCCTTACTTCGCACCATCCCAGCTACCCAGGACTGAGCAGCAGCCCATGTCAGGGAGGTGGTCAAGGCCAGGCCCTGAGCCTGTGAGGTGG
TCTTCCACTGACAGCACTCTAGAAGCAACTAGAAATTTGGGGCGATTGCTTATTCTCTATTCCCTGGACATCTCACTCAATTACAGCAGATAGT
TCGTCTTTAGTTACAAACACTTTGCTAAATTCTGCCCAATCAGAGTCTCTAAATAATGCCAACATCAGTTATTTGAGTGCCTTATCTATGAAAG
GACTTTACTAGGAGCTACTGATATCAAGAAGCCTAAGACTGCACGACAGTCAGCAAGCATGAGGAGGAAGACGTGGGGGATTGTTGAAGTCAGA
TGGAACTGGTTTTGAAATCCAGCGCTACCACCTGATGTTCTGGGGTCTTAGGCAAGTTATTTAACTTTTGCCTACCTCAGTTTACTTATCTGTA
AAATGGAAAGACATTTTGTCTGCTGTATGCATTTTTGCAAAGATTAAGTGAAACAATGCATGTAAAGTGTTTAACAGGGTACCCAGCACATAGT
GATAAATGTTGCTTGTTACTGTTGGTATATCTGGTACAATACTAAGTTCTTGGGGAATAAACAAATGAGTGAATGGATTGTAGATACATGGAAA
GTCTCAAACACTATTCAGGAAAGGGAGAGAAGAATCAAAGATAATTCCCAAGTAGTCAGATGCAGGTGATTGTGAGAATGGCATTACCAATAAC
AGAAATGAGTACTTGGGAAGATCTTACTTTCAGAGAAAGAGGATGCATTTGGGTTTGGATCTGTTGAGGTGGTGGTCTTGGTCCTCCA
AGCCCAGAAAGATGAGTCGGGGTGCCCTCACTGGGTCTCACTGCCACAGCTGGGCCCTCAGCCTTCCAGCCCTCCCCTGAGTTCTGGTCACAGC
CACCTCCCTACCCCACCACTGCACCTTCTTCCCAGAATCATTCCAGAACTCACCACAGGCACCACAAGGATCTGCTGTCCATCTTCTTGTCCAT
ACCACACCTGTCTCCTGTGACCCCCGACATAGGCAATGTCACAAGCCTTGCTTCTGGAAATTCACAGCCCCTCCAGCCCTCACTTCCTTCAGAG
ATTGCACAAGCAGGAGAGAAGCAGTGGGAAAATCCTCTGCAGACTCTAGTTTTTTCTTCATGAGCTTTCAGTGCCGACTAATGTTGATTTAAAC
CTAACAAGTTCAGACAGACATGGCTGTGTGTAAGCATAACTTCCTTTTGTGGATACCTTTTTGTTCTTTATGAGCTATAACACACATACAGTAA
AACGAACAAATCTGAAGTGTGCAGCCCGATGAATTTTTATGTACATATATGCCCCTGAATCCACCCCGAAGATAAAGATACAGAATACCTCCAG
CACTCCAGAAGACCCCTTATTCCCACTCCCAGTCAGTAACCACCCCCACAAATAGCCTTTTTTCCCCTTTTCACCATAGATTGGTAAGTTTTGC
CTGTAAATGAACATCACAGACATGAATCCTATAGTATTACTCTTGTGTCTGGCTTCTTTCCCATTATGTCTGTGAGATTCTTCCATATTGCTGC
ATGGAACAGTAGTTCTTTTCATGGCTGAGTAGTATTCCACTGTACAAATATATCACAGAGCCTCCATTCTACTGTTCCTGAACATTTGGGGTTA
TTTCCAAATTGGGGCCATTATAAATACGGCTGCTGTGGTGATACACACATGCCCTCATCTCTCTGGGCTGTGTTCTCCAGTGGAATTGGTAATT
ACAGGGCAAACCTAGGTTAGCAATTGCAGTTACTGCCTAACAGATTTTGTGGACATATTTTTAAAAAGGTGAATACACACTTAGTGTGTCATTT
GCCAGTACTGTACTTGCCTCTAAGCTGCTAGTGAGGCAGCCTAGTGAGACTGAGGAACCAGGGGTTGGACATTAGGATCCCTGGCTTTGAATCA
GCTCTGTCACTTACAAGCTTGGTGTCCGCAGGCCAGTTACTTAAGCTCTTTGAGCCTCATTTTTATCATCTGTAAAATGGTGATAATAAAAATG
ATCACCTCACATCATTAGTGTGAAACTTACATGGGCTATCTATAAAAGTTCTTTGAGAGTTGTGAAATGTAAAAATCATCCTTATCACCTCAAC
TTTTTGTATTTGACATACATTTTCCTTGAAAACAGTCTAAAAAGTTTTTAAAGAGAATCACTATTAGTAATAAATAGGGAAAAAATCAATCTTT
CAAGAAAAAAAATACTGTCTCCCTATTTTATAGCCTAGGCCAGTCAGTGGATCTGGGCAGTCACCACTTTGATATACCTGCATGCTCCAAGGGC
CCCCTCACCCCGGACACAGCGGGGAGTCACACATCCACTGTCCTCATCTCCGGCCAGCTTGCCTATTTTCTCATATTTGCATTCTCTGTTGAGA
ACTATCCCTGCCTCTGCGCTGCCTCTCTTGTTTTTAATCTTGTGAAGTCTGAATATCAGATGGGCCTTCTCAGCATTTTCACTGAGGCATGTGC
ATACACACATCAACATGAGCACACATGAGCACACACACGCTGCATGAGCACACACACGCTGCGTGGGCACGGCTGGAGCAGTTCTCCCGAGTAT
CTGTGGAGTCGGTCTTACTGCTTCTCTATAGAAGTGATTTAGTTTAAAGACTAGCAGCGGGCCCTTGTAGACACAGAGCACATAGTAGTATTTA
ATAAATATTTGTTTACAGCAATGGAAATAACCAAGGTCACCAACCCCCCCACACTCTTGTGAGACATGCTCTCCTGCTGTCTCTCATCAATGTG
CATGGCTCTCTCTGGGAATCAAATGCTGTTGTGGCTGCAGGAACCTCCAGAAAGGGTTGTTTATTGCATTGATATTCCTTGCACACTCCAAGAT
TGTCTTTGGAGTGATGGGAAGCACAAGAGCTTTGGAGCTAGATAAGCCTGTGTTCACATCCTGACGCCGTATTCCTAGAGCATAAGTTCTGGCC
CCTCTGAGCCTCACCTTTCTCATCATAAAATAGGATTGGTGTTGGTTACCTTTAAGGTGGTTGTAAGAATTCAAGAAGACAATTAGTAGAAGTT
GTTGGTATTATTCACTTCTTCCAGCTCCTCCCCACAACACTTTGGAGTTTTTTTGTTCTGTTTTATTTTGGTTTGTTTTTTGTTTTTTGGGTTT
TTTTTGGATAGCTTGACCTCTTTTCTTCTTCCCACATACACCTCAGTCCCCTCCCAAAGAGGGCAGGGCCTGGACTGGTTAAGAGCATGACCCA
TGAGATCAAAGTGTCTTGGTATAAATCCTAGCATTGCTGCCAATTCACTGTGAGACCTTGAACAAGTTGCTTAACCTGTCTGAGCTTTTATTTC
TTCCTCTTAAAATAGGGATAATAATAGTTATCTATATCATAGAATTGTATGGCTTCCCTGTGAATAACCATAAAGCAGTTGGCACAAAGCCAAC
ACTGAGCTGATAGTGGTAGTTGGCAGTAGTAGTAATAGTAATATTATTATAATATTGATCCAATGGATGCCAATAGCTGTGTTTCTCTCTCTCT
CTCTCTCTGACACACACATACACACACACACACACACACACCCACCCACCCACCCCACTTTGGGTTTTCCTGATCGCTCCCATCAGGGCTCC
TTCCACATGGAGGCTCTGCCTCTATCATCCTTTCTCCTGATTTGAATCCTCATGAAGGACAGGAACTGGGGTTGCTCTATGGTTTTGGTTGGTT
TGTTTTTTAAGTTCAAAATTAATGAAACAAATGTCAAGGAAACATAATCTTTGGATCTTTGGACTGTAAATAAAAATAGGAACATTCGGGTCTT
TGTATAAGACTGCTGTAAGTTTAGGCTTATGTATTAAATAGAAGAAGAAAAATGTGTCTGTTCAAATGCTCCCAGTATTGAGGGTTTAAATTGA
ATAGATTATTGTCTGGAGGAAAATTCAAGTATAAATTAGACTACGAAGAATTACTAACTGTTGCAGTTTTCATGTTAATTATTTCATGTTAAAA
AATTGTTACCGCATAAATTAACACATTCTTTCATAGAAAACATATTTTAGAAAGATTTGTTACTTTAATAACTCTTTGTGTATTAGAAATCCCA
GATGCCTGTACTAATTAAATATAATCAGATTTTAGATTCAAAAAGCACAGTAGCCATTTAACACAAACAAGCAGGCAGCTAGGTTGACAAACAC
ACTCAGGAAGAAGTGGATCCCTGTTTCTTTCGAATTTTGAATTTCACAATCCAGAACTGTGAATTCAATTCCTGTCCTTCCTTTGTATTACAAC

GACTGGGGATTATTAGACTCAGAGCGCCAGCTTTCCAGCTCAAGGGCTCCTGCAGAATTATTAATCAGCCGCTTCTGAGGCCCCTGTAATCCGG
TGGCAGATCAAGGCTGATCTCGCCATGAGATGCCCTCCCTCTGCCCCCGTCAGCACATGAATTTCTTGTTCTCTGTCAACAACAGCATTGCCAT
TCCCGCACAGTGTGCTGTGACCTGAACAGCAAATATCAGGAGAGAGAAAAGGAAGAAAAAAAAAACCTTTTTAATTACTGAATTTAATCTAATT
CTTCCCATGCTAGAGAAGCAAACCATCCTTTCATGAAAAGCAAACCCTTTAAAATGCAAGCCATTGTCTTAAGCACCGACTAGTGTGTTCCCAA
CTCAGTGGTGCCGCCATAAAATGACCATGCCAACCCCCACCTCCCCAGCCCACATTGAGAGTCTATCATCCTGAGGGCTGTCTAGGGAGAGACC
CCAGGGGACTTGCCCGACAGAATGCCCTGCCCTCCGAGGTCAGACACGGCTTTCCCGCTGAGCTGAGTCGCATGCCTGAACCGTGCTGCTTGTA
ATCAAGCTTCCCGGATCCGAGTTTGGTACACTTCAGTCACTAAGCAGAAAAGCTCCTTCATTTGTATTCTGTCGCTTCAAGCTCTGAGCTTCCA
CCTCGTTTCTGGGAGGGACGGCTTTGTTTATCTGCTGAGCCACCGTGGAGCTTCGGGGCCCAGATTAATAGTTAGGGGGAGCAGGTCAAATTGG
CAGGGAAATGGAGATGAATTGTAGAGCGCATCCATTTTCCTCCCGGAAAGGGTGTGTTGAAAGCCAAAGATTAAAATTAAAAGAAAAGGGACTC
TAAATCACCCTTTCCTACTACAGTCTCTCTTTAAAGATTAAAACTGTTTCAGGTCGGAGATGGGACCAATTTCTTTCATTCCCACCCTCGGGCA
GCTCTGACTCTGCCCAGAGGATACAAATGGATTGGAGGTAAGCAGTGGTCACCTCAAGCCCAGCTTCTTTGCACACCTTTCCCCTTTATCTGTG
CTGGTCAGTCCCATTTTGTATTCTGTGTGAGCATCTCTTTCTCCTTTGTGCTGTTTTGGGCAGAGCCTTTTGATGGTTGTTTATGAATGGTCAA
GAGCAAGTCCTCAGTCTGTGCAGCCCACGTTTCTTGGTAATCATCAAGAAGGAAGCAGATGGTCACCCTCTGTGATTTTAAAGTGTGTAAATAG
GAACTGTAGACTGCCATCAAACATCAAAAATGTCAGTTGGCTTCCTTGTCTTGCCTTGCTGGCAAAAGGAACTCCTGCATTTGCATCATCTGGG
TAATCATGGACACGCAGTACATTTGTAAACTGCCCCAAGTTCTGAAGCCTCATTTCTTACAGCCAAAGGAGGGGGCTCAGTGGCATTGCTCTGC
CATCCCCAGGGTGGCTCCCCCATTGGCACAGACACTGTACCAGATTGAAAAGGGGAGCGGTTTGAAAAAGCCACCCCAAAGTGGTGTTTGTCTT
CTGTATATCCTATTATCCTTTGATATGTTCTGAGCTCCCAGTCAAACCCCATGACCTCCAACTGTTCCCACACAGTATCCCCAAACCCAGTGCT
GCCCATGCAGCCCAGCTCGTCATGTGGCATGAAGTCAGACTGACACGGGCCCTCTGCCCCTTCTGGGGGTGGCTGGATTCTTGGCATCATTTCT
GTGTTGAGCTACATCCCACACATCCGTTGATCACTCAGGTGAGTTCCTCTCACCACCCTGGGCAGCAGTGTGCAGTTGGTTACAAAGCTCTTGT
CTTTTGTTCTGGATTGAAAGTCCGCAAACATAGCGTTTATGCTGTTGAAGCTGTGAATCAGAATTTTTATTCTGTTTGTTTTGTTTTGTTTTGT
TTTCTCTTTACAGAGGTAATCAAGTTACAGAAATTTTTATTCTGATATTACTTCCTTTCTGGCTCTTCGGAAACTGGAAGGATAATTGGAATTAT
TCAGAGCCTCAGTATTCTAGAACAGCAAGCAGGGCTCCTTTTTTCTTCAGTCCCACCCAAGATAACCACTTAAATAAGCCTCCATAACACAGTC
TGTACTCCAAGGAAAGTCCCTTCGATGGTTCTCAGATTTCCTTCTTAAAAGGACTAAATACCCACAGTTTCAGGAGATGCCCATTAATGTTATC
CTCTACTTTTGTGTTGCCCCCATAAGTTACCCTGGGTTTGTCATTGGTCACCGTTGCAAGGAGGGTGATGGAGAAAGGCAAGCAGCCCAGAGTT
TCCTCCCTTCACTTCCTGGCTCCTCTAGGGATATTTGGAAGGAATGTCACAGTTTACCTTCTGGTAGCCTCCATGTCTGGATCGAATGCCCTTC
CACAATTTATCCTGCCTATCCTTCCCCGACTGCAAAACCCCAGGATTAATACCTAGAGTCCAGCCTTGCCCCTGCATTCTCCCTGGTAGCTGAG
CCTACTCCCCTGTGTCCTCTAGTTGTCCTGGGTTCAATTTTTAATACCCACTGATGGACCTTCTGTCTCTTCTCTGTCCAGTCTTGAACTCTGG
GCTCTCTTGGAACTTTCCTCACCCCTCTCAGCCTGAATATTCCTTCCATGGATTCCACTCAACCAGACTTTGGATCTGTGCCTACTTAATCAAC
CTTATCTTTGCAATATGTTCGGGCCCACCTTCCACTCCTTGGTTCTTGTCCTCCTTGGCCTAACTTGTCCCTTCTCCACTCACATCCCCGGTGG
GACAGCATTCCTCCTTCCTCCCAACCTCCCTCCTTCTCAAACTTCTTGCTCAACATTATGAAATTTCAGATGGAATATAATCTTAACCCATTGT
AACATATACTTTTCAAAAAAACATGATGCTAAAACTTTATGAACTTGAAGTAGAAGTTTCAACAGAGTGCGTCACCGGGGATAACTGGAAAACA
CCCAGTTGTATTACTTCAGAAGCATTTGGGAAATCTGAAAGTCATTCCTTTGGCCTAGTGTGAAAATTCTGAGTTTTGCTTTGCCAAGTTTCAT
TGGGTTTGAAATCATTGTTTTGTTTAAATAACCACAAAGTTCCAGGTCAGGTCAGCTTTGATTTTGCTTCTTTCACAGGATATCCTGTCCTGGT
ACCGCCTTGTCACCTCCCCCTCCTGTAAACCAAATTTCTGTTATTGGCATTGTTTGTGATTTTTTTTTTTTTGTTTTATTACCCAGAGTAACTTT
CAAGTTGAATTATTGCATACTATTAAATATTGGATATAATAATTTGCAGAGTTAGTGGCTTTATAATTAAAAAGGGCTCTGGGTGGCTCTTTGG
TTCAGAAAAACAGTGTCTATTGTTGAAGTTAATGGGTTTCCTCCTTGAAAATGCTATTAGGGCACAGCTCAGATTCTCTGTAGGAAGGATTTGG
CTTCTTTTATTCAATACTGACTTCACCTTCTCCACCTTGGCCTAGTTTTTTAGCCAGAGGGGATATTCTCTGAGACTATGGAATTGGCCTGGTC
ACCAAGAAAAATAAAAAAGAGAGAGACTTGGCAGTTCAGCTCTCCGGAGATGTGAGCTGGGCCCACCCAGGCCTGTCCTGGCCCCTGCCGTGAC
CCTCCCCACCGCAAGGAGAGCCATGGGTCATGCTGCATCATTCCAATGCGGCTGCCTCTCCCTGAAGCCCTCATCTCCTGCTTATGTTCTCTTT
TCCTGTCTCTGCTGAGCCCTCTTCTTCCTAAAGGCAGTGCCACCATTTAGTTCTCTGTTGGGTTTGCCCGTGAAGTCTGTCTCCCTGGCTGCCT
AGAAACCCCAAGGGCGGAGGCAACCTGTGCTTGGTTTTCCCAGGAGCGCCTCACAGGGTGCTGGGGACATCATGGACCCTCAGAAGATTCTCAG
TGATTGGTTGATGAGTGTTTTGATTAGGAGGGTTTTTTCATCTTCTTTTCCTCTTCTGATGTTTGGAGAGCTTTGGCATTGCTGATGGCATTTG
CCAGTGCAACTCAGGGACTTTAGGCCTTTACTATCTGAATAAAATAACAGCTGGTATTTATTCAGCTATTACCAGGTACCAGACGCTGTGCTGA
GCCTTTTACATCAACTGTTCTTCCCACCACAACCTTAGGAGGTTATCATCCCCAGTTTACAGACAAGGAAACTGAGACTTAGGGATGTTTTAAA
TGATCAACCAGCAAATCCAGTGTGCAAGCACAGGGATACCTGACTCGGAAGCTCCTTTCCTAAATGATCATAGTGGTCCTTCCACAAGTGACCA
CTCAATCCCAGCTCAGCCCACAATCGGACCACTTTGCATTGTCACTGAAGAGCATCCACTCCTCGTTTCCTGGCCGGCTTATGTACTCTTACTG
CAGGAGGTGATTTGGCAGCAAAAGTATCTGCGGTCTTCATTGGAGCATTTGAAATGCCCATGCCATCATCTTAATGTATGAAAACACATAAAGA
ACAGGAAGTAACTGAGTCAAGTAAGCTATTTCTATTTGAGGCAGAAGTGAAAAACAGATTACCTGGCCACTAGGGATAGAGGGACTTCATTAAC
TGGAATGTGGCCTGGGGCTTGGGATGGGCCATCCTGACATGATGACTTTGGGCAGTCATCCTGTTGGCACTGAAAAACCGAGAGCATCAGTCAG
GCTGTGCTGTCGTATGAAAGGAAGATTTTATTCCTATAACTTTTAAGAGTGAAGAAAATTATTAGTTTATTACACCACTGTATTGACACTCTTT
GCGTTTAGTTTGATTAAGTCTGTGTAAAGGAAGAGAATTACTTTGACCGTCAGGGTGTCAGATAACTTACTGCCTGGCTGGACCCTTTAGCTAG
TTAGAGCATTTATTGCTGTTTAACCAGCCTTAGGCAAGTTGCTATGAAGAAATATGTGTCTCCAACCTCAAAGGATTTGCATTCTATTTAAGGA
GATTTTTTAAATAACTTATGAAAGAACTAGTAAAAGGACACAGAGGAGACATGGACACAGTGGAACAGTGTATAGTGTTTATGCAGTCAGGCTC
TGGCACCTTCGGTTCAAATCCCAGTTCTGTCATCTACACTTGTCCTTTGTTTGGCACATTGCTTTCCTCTCGGTGTTCCGTTTTCTCATCTGTA
GAACAAGACTATTGCTGGCATCCACCTCATGTGCCCAGTGCTTTGCATGCCTGACTCTTAGCAAGCGCTCAGTGTATGTTTAGCTATTGTGGTA
GCTGCTATTATCAAGCATTAAACTGTTGTTTCTAGCACTGGCGCTAGGTGCATTGGAGAGATTAGTGAAGGCTGGAGTAATCACAGATGGCTTC
ATGAAGGAGGTGGGACTGGAGCTGAGGAGGCTGTAGCTAAGCAGGTGAAGAGAAAGAGAGCATTTCCAAAGCCAATGTAAAAGAAACAAGTGTG
AGCATGCTAAGTGCAGGACACAGGTTATAGTAAAGCAAACTGAACTAGATTAACTGTGTTTGGGGTAGCAAGAACCAAGTTAGGTCAGGCACGG
TGGCTCACATCTGTAGTCCCAGCACTTTGGGAGACCAAGGCAGGAGGACCACTTGAGCCCAGGAATTCGAGACTAGCCTGGGCAACATAGCAAG
ATCCCATCTCTACAAAACATAAAATTAAACTAGGTGCAGTGGCTCATGCCTGTAATTGCAGCACTTTGGGAGGCCGAGGTGGGTGGATCACCTG
AGGTCAGGAGTTCAAGAGCAGCCTGACCAATATGGTGAAACACCGCCTCTACTAAAAATACAAAAATTAGCCAGGCATGGTGGCGTGCACCAAT
AGTCCCAGCTACTCAGGAGGCTGAGACAGGAGAATTGCTTGTACCCATGAGGTGGAGGTTGCAGTAAGTCAAGATTGCACCACTGCACTCCAGC
CTGGGCAACAGAGTGAGACTGTCTCAAAAAAAAAAAAAAATTAAATTAAATCATTAGCCAGGCATGGTGGTGCACATCTAGCATCCTAGC
TACTCAGGAGAGGCAGGAAACTTGCTTGAGTAAGCCCAAGCAAGAAGAAGAGCCCACAGGGGAGACACACAAAATGCTTGGAAAGAAAGGAAGG
ACATGGGGAAGAATAAACTCAGAAAAATAATTCATGCATTTCTCATAGAAATGTTTGAGCTTTGCGGGTTGGAATATGCTAAGTTTTACTGCTT
TGTTACCGAAATTATTGGTATTATTCACATGTGAGAAGTGTGCTAAAATAGTACAAATGTACCCAGAGCCACTCGTTAAGTAAACATGACAGAA
GTGACAATGGAAGCATCATCTACCCAATTGCTAATTGCTGATAGACACCCATGGGCCTTGAAATGTCACGATGCTTTTGAAGAGTTTTGAAAAG
TCAAAACACTTTTCCCATTCTGTCTCATCATAAGTCATTCTCAAGGTAATGATGTGTTATCTTCCATGTTTTAAAAGACAAGGGGAAAGAACGA
CGTGGGAAGTCATCGCACTTCTGCTCACAGCCCAGTGACTTTCTGTTGCGCTTAGGATGGAATCCAAAATCCTAGTACAGGTTACAGAGTCCCA
CAAAATCTGTCCTTGTACCCCATCTTATTATTCTTCATAGCACTTTATTGTAGTTGACATATATAATAGCCATTCATTTATTTTATCTCCCTCA
AACTAAGCTTCCAGCTCCATGACTGCCAGAGACTGTGTTCCCTTTCGTCCTCCTGGCACCGAGTGCAGTGCCAGGCACTGGGGAATACTCCAGA
AATACTTGTGGTAGGAAGAAAGAACAAGCCAGCCCAGCAGTGGTGGGTGTTTGTGTTGTTATTTCTGTGGACAAACTTTGATAACTGAATAAAT
CCACAGCCCTCTCCTTTCTCTTGCTTGAAGCATGGATGATTATTAACTTTATTTTAAATGAGGAAGACCAGGGCTTGGTGAGGTCAAAATGGTT

GATGTCTAGTCACTTGCATTCATCCCAGTCTATTAAGAATTTATTCTTAATCCAGTCTATTAAGGATTTTCCACTTTGTTTCACTGTGAACTCT
CCCAAGGCCCCTTGCCACCTCGTCTTTCTGCTGTTGTAACTAACCACCCCCATCCCCAGCTGCAGCCCCAGTGAACTGGGCCCCCTTGTCCTCA
GAGAACAAAGTATGGGGCTCCCCCACTCAGATACATTCACTCCGACCCAAAGGGGATCTGAACACACTTCCTTTGGCAGTGAAAATGCAGGGTT
CTCCAGGTGTTTTAAGTTTCATTAGTGTGTGGCTGTTGCTTTTCTATTTCAATTGGCAATTCTTAGACTCTTAAAAGGACATCCAGACAGTGAC
ACTGGTGCTGTCACCAAGGACAAGTAGAAGACTCACCAGAGGGCAGGGAACTGATAATACGCTCTGTAAGGAACTGTGGTTATTCAGCCAAAAA
GGGAAGGGCTGGGAGGGCTGACCAGCTACTCATTCATTCATTCAGCACCTGTTTATCAAGTGCTTTCTCTGCAGCAGACACTGTACTCAGTACT
GGAGATGTGGCCATCTGGGAAGACATGCTCCAGCACTCAAGCACAGTATTTATCTGGGGCAGAGACAGCCTTCAGACAATTCATGCATTCATTG
CCCTTTAATAATAACAGCTTCGTTAGGCAATATTTACTGAAAAAAAGTAGTGACAACTACAAAGAGGGAGGTGCTCTGGCAGCATAGAAGTAGG
AAACCTACCGCAGTCTTTAGTGATCAGGCAAAGGTTCCCTGTGCAAGTAACACTTTGGCTAGGAGCAAAAGAGAAGTAAGAATTAGCCATGGGT
TAAGGGCTTTTGATAAAGGAAATAGCCTGTCCGTGAAGCAGGTAGGAGCTTGGCATTTGCAAAGCAGTCAAAGAAGGGCAATGGAGAGGTTGCA
GAGGAGAGAGGAGGGAAGCAGAGGAGAACAAGTCTGGGATGATAAGAAGCAGCTGGGGAAGTAGGTAGGGACCAGATTATGCATGTAGATTCTA
TTAGAAGGCTACTATAGAAACCCAGGGGGGGACATGCTGAGCAAGTGAGGACTAGAGGAAGGGTAGTGAATTCAAGATCATGAAATGGTCAGGA
TGTAATGGACCTGACACGGGCAGGGACAAAGCAGGAGAGCACAGAGATCATTCAGTAAAGATGTATTGACCTCCTTCAATAGGCAGGCCCTGTG
CTGGGATCTGAGTGCACAGTGATGAAAAATAGAGTGTCCAGGTGAGGATGATTCTCAGGATTCTGTTGTCACCAACTGGGTGGTTTACAAAGTC
ACCAAGGATTGAGAAGCCAAATTGTGGGGAAGATAAATTTTGGATGTTGCATTTGAGGGGCACTGACTTGTATAACCAATTTCATGGAGAGACA
ATTGAGAGGGAAATTGGTTATGCAAGTCAGGGACTCGAGAGAGAGGTCCCATCTGGTGATATAAATGCAGGCATCATTGGGGTCAAGATAGTCA
TTGGAGCCATGGGATTGAATAAGATCCCTGATATTACACAGAGTTTGTGACCACTTATTTCATATCTCAACAGAATTCAGAGAAACAGGATTGA
GCTGTATATCAGAAATTATTTAAAACATCGACACATTTATTCATTACAGGAATAATTCAGCCTAAGGCTAACTGGTCTTATATATGTTCCTGGG
AGTTAAATGACTAAGGCACAAAGATCCTCTTACATGGAAGTTCTAGGACATGGGTACCAGTGACAACACCAGGTTGTCAAGTTTTCACAATGAC
AAGTCGAGGTTTCGGCAATGAGTTTACCTTGGGAGTTTGGTAAAATTTGCAAATAGTACCTGGAAAACATTCAGTGGAAAAGATGCTTCCAAGT
ACACACACCACACACACACACACACACACACACACACACACACACACATATTATGGCCTTCGTGTATTGGCTTATCCTAAAGAATCCTAAAC
TGTTAAGCTAATTCAGTAAGAAATGACAGAGTGGTCACTTCTTTTTTTGAATTCATGTAAACATGGAACAAGTACAGTAAGTGTTACAGTGAAG
CTCAAGATATCAGTGACATAGATGATCATTACCTGCATAGTTTGCTCTGTTTCCTCTAAATAAAATGCAAGGAGGAGAAAACTGTTTTCATATC
TAAATCCTGCTCCCAAGCAGAAGAATTTCAAAGTGTGAATCAGCTAGTTACATAACAATACCAAGTTAACTGCATTGCGGTTCTCCTGATGTTT
TCTCCGTTGTTCTGTAAGTCCATACTACTTAGAAGACCACTTTGATTCTGACTTTTTGCCTGTCAGAACTTTACTTTCAAGGGAAAGGCAACGT
TTACACCCAGGAGATCCTTCCTTCAAGGTGTCTGAAGTCTCCTAACTTACAGAGCTCACTGCAGCAGCCCTGCAGCAGGGACATCTGTGGGATT
GTATAGGTTATGTACTACACAACCTTAGGGATGCTGTTTTCATAGACTGGGATTTTACACTGTGCAACCTGCAAGGCTAGTTTTAAAGACACCT
GCCAAAAATCCCCAGTTAACTCCACCACATTTAGAGCTGCATTTTAGGGCCAATAGCTTTGTACCCTCAGGAGGTGGGAAGCCAAGATAAGGGG
AAACAGAAGTAATGAGATGTGTCCAAGAGGAAGCAGGGATTAGCTCTTTTCAGTAGAAACCTCAGTTAATCATTAATACCTTATTGCTGCTTTG
ATTTAACCTTTTGTCTTCCTTGAAAAGGAAAATGAGTTATCTATAAAGAAGCTTCTTTTGTTGAAAGCAGCTGCTGTTTTAAGACAGAGAAGAA
GCAGGAGAAGTTGGACAAAGACATTATGTTTTATTCCTCCAAATACATTATAAATACATTGTTTGGTGTAAATATATTGCTTGCCTTAGAAAGA
AAATTAATACAAAACAAATTTAAGTAAGTTCCGACTAGTAGTAACTCAGACCACATATCTACAAATGACTTCCTTTCAAAGATTCCTTACATTA
ATGCAGCCTTTGTTTTAACATTTTTTGAAGGTTTATATATTATAATCCTTATTGTAGATTATAAAATGAGAAAATAATAAAGCTGACTAATGCA
ACTGGCTGATATTGCCGTTGGTTTTTTTTAATCTGAAATTATGAAATCCCTTGGAAAATCTAACATGACAGTATCCAAATTTTAAATAGTCACT
TTCAGCAACACACACACCTTCACCAATGTTGAGTGATTCAAAGAAGGGGAAAAACAACTCCTTTGGTTGTCATTTTATTTACAGGATTTGTCTG
CACAGCAGAGAAAAATGTTCCATTTACTTCAGAGATGGTCAGAGATTTCCAAGCCATTTGGCTCAAGAGATGGTTTAAATAGGAATGAATGTAG
TATACCTTTAATTCTCTGAAGTAAGAGAACTCCAGCTGAGGTTTGGTCCAGAGCAAAGTCTGCTCTCAACATTGAAGAAAATCTATCACATTAA
TCCCAGTGGCTCAGAGTCCAAAGCTGCGTGAACAGAATGCTAAAGGATAGGAAGTGTGAGAAGAATGCTTTGAAAGAAACCTTAAAAACAAAAC
AACTGACTATTCAGAGAATACCAGGTCTTATGTGGAATCATCTAGCACGTAAGGAAAGATATAAATAATTATGCCTGAGAAACATAACTAATTA
AAAATAACTCCATGCATAAAAGGAAAACTATAGAATAACTTTTCTGCTCCAGTGTTAATGTGAGATGCCTCATAATGAAATAGTAGGATTTTTT
TCTTTCATTTCATTTCACACAGACACATGAGAGATGGAGAGGAAAATTATATTGCCTGAAAATGCCAGGGTAGATTTACTAAAGATGTTATCAT
ATGCTGTATTTAAGACAAAAATCTAATTGCTGTAATTTATCATACCTCTGGCTATTAAAACTGTGCCAATTTAAATATTTTAATCATTCGCCAC
TTTTGTACATAGTGACTTTTTATAGAAGATTCTATGAAATGTTCTGATTTTGTCAGCCTTTGTATGATTTTCAGGAGCTCCTTAAGCAGAATGA
ACATGCTTTAAGCATGTAACTGTGTTTCCATAAGTAATAAAAATTCCTTGTGTTTTTCTTTTAGTTTGTTCAGTAAAATACCTGGAACTGCTTT
ATAATTGCTGAGCTGAATGTTTGAGAGCACAAGCTGCTGAATCCCTTTATTTTATTTTATTTTATTTATTTATTTATTTATTTTTATTT
TATTTCATTTTTTTCTGAGACGGACTCTTGCTCTGTCACCTAGGCTGGAGTATAATGGCACGATCTCGGCTCACTGCAACCTCTGCCTCCTGGG
TTCAAGTGATTCTCCCGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCTCGTGCCACCATGCCTGGCTAATTTTTGTATTTTTAGTAGAGACG
AGGTTTCACCCTGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAAATGACCGCCCGCCTCTGCCTTGTAAGGTGCTGGGATTACAGGTGTGAG
CCACCACACCCGGCCTGAATCCCTTTTAATTCCCTGCACACACATCAAGCTTGTAGAAAGCAAGGTGGACCACACCCTTCCTTTTGGTTTAGAG
ACAGGATTCTTTCAATGATCAAATAAATTTTTGAAAAAAAGGACTCCACTGACTTTGACATGAATTTGCACCTTGGTCTTGAAAAGTCAGAGAC
TCATAAGACAGTCATGGAGGCAGAACTGCTCTTTAAAAAACAAACATTAAATAGTACTCTTGCTGGGTGGTAGAAGAAAAAGTGGTAAGAAAGT
GATCTTACAGTATGGAAGAAAAAACTATCCCAGGAGTAAAGATGGCTACTACAGGGAGAAAGAATGGAGGAAAAACAGCAAATGTGGAGAGAGA
AGGAGCTGGAGGCAGATTCCTTTCCCTGCTGTGGGTGTGGGAGGCCTTTGGGAAATCTAACACATTTCAGCAGAACACATGGGCAGTATCCAGT
TGTCCCCACCCTGGGAGCAGCTCAGTGGTTTAATCAGGTTTTGTGTACCCAGTGAGACCACACTATCTTATATACCCGAGGACTCATGAGAGCA
GCATTATGACTAAATCCTATGTATGTTTATTAAAACATAGCATTATTTCAAAGTTAAATATATATATAATTTTCCTAAATCATAAGAAACCAGG
GCTTCTTCCCCCCTTTATTGAGGTACTAAGGTGCTTTGAGCTGGATTACTTACGGTCACACAGTCAAGACCAGACCCTACATCTTCCCAATCCC
AGCCCATTCCTGCTTCACCTCCTTTCTGTCTTCCCCTCTAAACCTGCTCTCAGGAAAGTAGCTTGCCAAGTGCCTTTCCCTCCCACACCCCATG
CCCATTGCAGTGCCCTCTGCCTGATGAATAACCAAGTGTTCATTCTGCAGGTGCAAAGTTCCCCATCAAGTGGACGGCCCCCGAGGCAGCCCTG
TACGGGAGGTTCACAATCAAGTCTGACGTGTGGTCTTTTGGAATCTTACTCACAGAGCTGGTCACCAAAGGAAGAGTGCCATACCCAGGTAAGA
GCAGGGCCTCACAGACATGGGCCTGAGATTGGAGGCTTTTTTGACACCATTTGGGAAAACTTCATCCACTTTGCTTTCTAAGCCCATCCTCAG
CTTTCTGCTGAGCTTGAGTTTGAAGAACATGGCCAGGTATTCAGCGAGAGAAAAGCAGAACTGGGAGCCACCATGTATGTAGACAAGCAGCCAC
CATGAACTGTGTGCCAGGATTAATGTAAGTAGCAGCTGGTCTAAATGCTTCAGTCCCCCTCCAGTTCATAGAATCTCTCCTCTCTCAGTAGGAG
TATGTGTCTGTGGTTCCCAGAGCAGAAATGTCACTGGCAGTGCCTCTGCCCAAATGGAGTTTGCAGACATGTCTGGGAAAGAGAAGGAGAAAAG
CCCCACTGCTTTTTGATTACACTGTAGCACTGACCCATGGAGTGAGCCTGGCAGGAAGGTGCCAGGACCTGTTCTCTCCACAGGACCCAGCTCC
AGATGGCCAAAGAGAGCAGAGGCACATGTGAAATGCAATTTAGAGCCCACTCACTGCCTGTTGCTGAACAGTCAAAACATGCTATACCAAAGCA
AGTATAATGTAAAGAAATTGGAAATTCTTAGACTCTGGAATGTTTCTGTATTATCAGATTTATGCTCTCCAAAGAAACCACGAGTTTGGCTTAT
CCATGCTTAAATTGATTAACGTCGACAGATGGTGACATAAAGGACACCCATGCCATTTCACCTCCACGCTTTAGTGGTTATAGCACAGGGACGA
TCTGCTTTTTTGAAATGTTAAGGACATATTTTTCAGTTACTGCTGAGTGAAGAAAGAACATAGCTCCCCCTCATTCCCTGCGTAAGAAAGGAGC
TTAAAGAAAAAAAAAAAAAAAAAAACAATGATAGAAACGATAGTGACGATTAATGAGGAATTTAGGTCTCTTGCAAATCCTGGGTTTGTAATCA
TAGCTTTGCAGTCAGAGGAGCTAGCGAAGGCAGATTAATTTGTAATCCCTTTGTTCCTTTTTTATGATTGTTTCTGGTCATCTTCAGAGAACAC
AGAGAGGGGCACATCAAGATAATCTCGTTCTGGGTTGGTGTAGCCTTGAGACTCCTAGGAGAGCCAAGTTGACATGGAGGCAAAATTGACAAAT
TCCCAGTCTCTGAAGTGCCGGCACTGGGCGTTTAGAGATGCGGGTGTAAGTCAGTTTTATTGATGCTGCGGTGACTGCTGCTCCCGGCATGCAC
ACACGGGCAGACACTCCGGGAATCGCCAACCAGCACAGAAGAAAGGGCCGCCCTGGGGGATGGAGCACAGCGTGGGTGTTTCTGAATTGCTTCT

CAAGGGGGGAAATGTGCGGGTCTCAGGAGGGCGAGGATGTGAAGGCATCTCTTCTTTATTTATTGTCTGAATTTTGAACTGATTTCTTCCTGAT
CCCTCCCAGGTTTATAGTCACCCTGTGTGTTTAAATGCAACTGGGGAGAAAAGGTTAATGTTGTTTTGCGTTTCTGTGAAGCCTTCCCTTCCAGT
AATACAAAGCAGCTTTTTGTTTCTCAGGGTCTCACACAGAAACCAAGACAAAGGGGTGGAGGTGGGGGCCTTGGAGAAGGAAGGCAGGTGCGTG
TTTCTGAGGGAGTCTTTTGTCAGGTTTGGTTTTAGCATAAAGAAAATGCCCTCATTTTACCACTTAGACCAGGATTCATTCATTCAGCGTAGCT
TCAGTCACTGTGAACTGTGCCAGGCATTTTCCTCTATCGGGGAGATAGTGCAAATAAGACCCTCATACTCTAAACAAGCCTTGATTAGTACCTG
CCTCAGGCTAGGCATTGTTAGCACAGTGGGCAAGTAAATAAATTTAGTCCCTATGTTCATGGATATTACAGTCAGATAGATAAAATATGCATCA
AATCCAGGAAGAAACCAGCCTTCTTTATTCCTTGTTTATTATCAGAGGGAGTCATCCTGAAAGGATGGACTACTTGGCTTTACCTACTATGGGG
CCTAGATCTTCATTCTGATAATGGGGTCAGGGACACCTGATCCAGGTATCCACACACAGCAGGTCCTGAGAGGGACTCTTCAAGCTGAGTCCTG
TGAGGATGGCAGAGGAGTTTGAAGTGAGAACTAACTCCAGCGGCTCCTGCAGAGAGAGCTGTGAGCAAGTGCTGGTCTGCAGTGGGCTGTGATA
ACTGCCTCTAGCTGTGGAGGAGTGCTGGAGAGGGGGCTGTGTAGGGAAGGCAAGTAAGCCAGACCTTGGAAGCCAAGTAGGTTTCCTCAAGCCC
AGAAGGCGGGAAGAGCATCCCAAGGTCTGGCACGTGGGAAGGCACATAGGCCTGGGAGGACAGTTCCAGGGACCACAGGATGAATCTGAGAAGA
TGCCATGTGCAGGGGCACACCTGGAGATGTGACTGGAAGGGTGGCCGAGAGCCTGCGTTGGGGCCTTGCTGGTTGGCAGTGGCAACCAGGGAAC
CGTGTCCTCATTGGGGGTGTCGTGAGCTGGTCCTCATTCAAAGAAAGCCACAAAAAATTGTTCCCAGGCCTGTTCCTAGCCATGGGTTCTTCCT
GGGTTTTGCTTTTTAACATAGCTATAATCCTATTTAATTGGGTTTGTGAATCCAACAGAAAACTCTTCTTGAGGGAGAAGCTTTTACAGAGGGA
TTCCAATTATAGGATTATTACCCTAACGAAGGATAATAATTCCTAAGGAACAAGAGGTTTCACGAAGCTTCCTTCAGATGTCACTGTGAAGGCA
AAGAAGGACCTTCCTCTCTGCATTCTTGCTATTTGTTGGTGTGGCAAGTCAGTCAGTGTGCGCTGAGGGGTCCTTCTCAGCTTCCCACGTTGCG
TCTTTGTGCCTGTTGCTGGTACCTCAGGACAGACTCCCAGTCCCGGTCCATCATGATTTCCATTCTGCATTTTGATGTAGTCATGTCTCATGTC
TCAGTTGGCTAGAGTATATTTTGAAGTAATTCTTTTTTTGGAGAACAGTAGATGGTGGTACATTTTTCTGAGTCTTCCATACCTGAGAATAGCCT
GCTGTTTCCTTGACACATAAGAAAGCTCCTTTGCCTGGTAGGTGAAGATGGAGGTGCGGGAGGAGGGGGTGACATATAAATTGGTTTTATAAAA
GCTTTCCAGGCATCTTTGCCCAGCGTGAAAGAAGGTCCAGAAGTGACAATCCCAGAAGGAACTTAGAGTGGAGTATGTGAGGTGTGACCAAATA
AAGGGCAAAGGGAGGCGGAGATGTTAGAACATTGGCAAGTTGTGTGAGAGGAGTGGACAAAAGAAGGGAAGACGACAATCTCAAACTGAATGAT
AACCTGGAAGCCGAAGGAAAAAATACTGAAATATGATGCTGAGATTAACGGGGGTGGTAGAGAAAAGTTACATCACCTTACCAGATGAGGAAGG
TTGCTTTCGAGATGTGTAACAAGTATGGATGCAGTTCCAAAGAAGAGCTCCATCAGTTCCCCGCTAGCAGCCTGAGCTGAACGCATTCTCTGCA
TTGCAGTCTAGCTTGCTTTTCTGCAAGCAAGAGTTCAGAAGCTTTCTTTACTTCAAGATTAGAACTGATTTCATACTGATGGATTGTTGTATGT
GAGAAATAAAAACACTTAAGTAAAAGCAGTTTTCTGGGGTTGATGCATAAAATCAGTTATGCATTTTTACCTGTCATTTCACCTTAATACCTTT
CTCAAATCCTTCTTTTCCCCTCTGCTTCCAGTTTCTCCCCGCCTCCCCACCACCCACCCACCCACCATTCTATCATTGTTGCCAACAGAGTTAG
TATTCTAGAAAACACAGACCTGGTTATCTCACCCTGCTAGTTAAAAACGTCCACGGCTTCCCTTTGCCTTTCAGATAAATCCTAGAAAACGTAA
TTCTACATAGTTCTTCATAACTCTTTTTCTGTAGTCATTCCACAAATATTTATTGTGCACCTACTATATGCCAGGTACTGTTGCAAGCACCAAG
AATACAGCAGTGAAGCAATAGACAAATGCTGCTGCCCTCATAGACTTCCATTCTTCTTTGAGGAGACAAACAATAAACAAAGATAAATAAGCAA
AATATATTGAATGTTTGCTGCTGGTAACAGCTAGGGAGAAAAATAAAACAGGGAAGGGGAGAGAGGGGAGAGTGGCAAAGGAGCACCTCACTGG
TGAGTAGAAGACCTAAAGGAAGCAAGAATCCAGCCAGGTGGGTATCTGGGAGCACAGCCTTCCATCAGGGGAAGGGAGAGTGCAGAGACCCTCC
AGAATCAAAGGAGGCCAGCATGGCTGGAGCAGAGGAGCAGGAGGTCCCAGAGGCCCCAGGGGCAAATCAGATAAGGCCTTTCTAGCTCATGGT
TGAAACTTTTGCTTTTAGTCTTAGTGAGGTGGGAAGTGAGGGGATTTGAGCAGGAGAGTGACATGATTTCTCTCTTGCTGTCTTCCATCCTTCA
CACGTTACCAAGACACATCAAGAGATGTCTCTTGAACATGCAGGTCTCTCTTTGTGGCTCCCCTGTCTGCCTCAGAACCCTTCAAAGCCCAACT
GAACATCATCTGCTTTGGAAAGCCTTCCCCATGTCCAGACCAAATGGGGTGCTCCTTCTGCTTGCCTCCATGACACCTAGCATATTTCTGTTGG
GCCCCCCGTTTGTGTGTATTTCTCAGCAGCTTCAGAGAAGGGAGTCCCTTTGATGGATTCCCGAGGTCCAGCACAGGGTCCACCCCATAGTAGA
CTGTCAGTAAGTATAAGCAAATAAATGAGTGAATGAAACAGAAAAAAAAGAACTCACCTATGAGGTTTTTGAAACAAGGTTTTTAAATTTAGCC
CATAGCCTGCAAAGCCTTTTAACTGCATTCCATCATCTTCACACATGGATATATATTTTCCTAGCCACAAGGTAGCCTCTGTCCTCAAAGTTCT
TCTGGAAAATTGACCCTGTGATCATTTCAAACATCATGTTCCAACACTATTCTAGGCAGAGTGTCCTGGCTATTCTGTGCCCTGGCTCTTAACC
GAACACCTGTTTTGTGGATTTGGCAGGACCTGGTAGAACAGGAACACTTTCTTTTTTTTTTTTTTTTTTTTTTTGAGATGGATGGAATCTT
GCTCTGTCAGCCAGACGGGAATGCAGTGGCATGATCTTGGTTCACTGCAACCTCTGCCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCC
AAGAAGCTGGGATTACAGGCACCCGCCACCACGCCCGGCTAATTTTTGCATTTTTAGTAGAGCCAGGGTTTCGCCATGTTGGCCAGGCTGGTCT
CAAACTCCTGACCTCAGGTGATCCACTCTCCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGCACCAGGCCAGGAACACTTTCT
TAAGCAAACCACACTTATTCATTCATTGGAAGCACTTTCAAATCATTCAACAGGTGACTTTCTTGAATACATCTAGTCGCTTGATAATGACCTG
AAGAAATAAGGGAAATTAATGAAACTGGTGGCTTTTTCCTTAAAGGATTCCAAATGCCACTCTGGTCCTCCCTCTGCCTTAGAGCCCTGAACCG
TAGATACATTTTCCTTTGTGTTCAACATAACAACAGGAGCAGGTTTTTCATGGGAGAAGAAAGGGTTAGGACTCTCCAACCAGGAGGAGACTGG
GAAGCCGAATGAAAGCTCTCATCTTAGCCGAGGGTGCGTGTCTCTCCCTGGCTCGTCCACAGTCCCTGGGGTTTTTCCTGCAGCTCATGATGTC
CCCTCAGAGAGGGAACCCTGCCTGGAATGCCCAGAGGTCATGCTGTCACCTCCTTCTACAAGATTTCTCTTGGCCAGCATGTCTAGTGAGAGGA
GGAGGGAGACCAGGGGAGAATGCGTGTGAAGAGGGTGGCCAAAGAGGGACTTTCGGCCCCCAGTCCTGTGTTCCAGCCTCACGTGCTCCTTGTT
CTCAGGGGTGCAGTTCCGGGGCCTTCCTCATGGGCACCCTGCCTCTCTTTTTCACTCCTTTTTTTTTTTTTTTTTTTTTTTGGGACAAAGGAGTTCTCTA
TGATACTGTATTATCAACTTCAAATACAGAAATACCTGTGTATTCAGTTACATGAGTAGCTGTCTTTCTGTGTTTATTAATACAATGGGCTGAA
TAAAAACAGCTGTCCTGAGGTTATCTGGCAAGATGAGGAAAGAGAAACAAAGCAAGTCATTATTGTACCTTCTCAAGATAAGTTCTTTATTCTC
ATCCACACTCTTCCATCAGCATCTCCCTGCCCAGAATTTTCAACAATGATCCTATACTAAAACCTAACTCAGTGTCACGGTTATTAACCAGTACG
ATAGCAAGGACACATGAGAATCTGTTAATACAAGCACATGCGATGGCGCAGGCTCATGCTGAGCAAGCACCATTAACACCCCTCCTCCTTCCCA
GCGCCAGCACAGCACTGCTCAACAGACATGTAAACACCGGGCCTTTTATGCACAGAAGCAAGGGGAGCCTCAGACCCAAGGCCCTATGCACAAC
GTTGTGTGATTCCCTTTGAACGGAAAGCTCAGTTAGCAAAAGGAATTTGGGTATCTGATAATCTAAACATCATTCCCATTGTTAAAGTGCTTAA
TTATTCACATGGCACAAAAACCCAGGTTTTGCAACCCATAGTCAAATCCAGATGCAAACATGGACGGGTAACACTTAAAATCCCTGATTGTACA
GATATGGCCCATCTGAGATCCATATTGGGAAGCTGCACAAATGGAAAGCTATAAAACACAAACACTCTTCTTTCATAAAAGACATTTTTTCAGA
TAGCTGAAAGCACAATGAATGTTGAGGTATTTTGTTAACAAATGGAGAAGCCAAGTTCAAGGGAAGTCAAGTCACTTGCTAAAAGATGCAAAGT
TAGAAGTCAAGAAGTGACATCTATTTCGGTGCTCTGCCAATGAAAGTGATTTTTATTCCTTCCCTATAGAATCTAAAAGAAGACCAGGTATAGT
GGCTCACAGCTGTAATTCCAGTGCTTTGGGAGGCTGAAGCAGGGAGGATCGCTTGAGGCCAGAAGTTCAAGATCAGCCTGGGCAACATAGCAAG
ATGCTATCTCTACAAAAAAAAAATAAATAAAAATAAAAATCAGCCAGGCATGGTGGTGCATACCTATAGTCCTAGCTGCTTGGGAGACTGAAGT
GTGAGGAGGATCGCTTGAGCCCAGGAGTTCAAGGCTGCAGTGAGCCATGATCATGCCACTGCACTCCAGGCTGGGTGACAGAGCAAGACCTTGT
CCCTTAAAAAATTTTTTTTCAAAGAATCTAAAAGGAAAAAGGGAAGACTACTGAGTTCATGTACAGCTCAAAGAAGTGGAATAGGGAAGTTTAA
AAGAAAAGGGAAAAGAAAACACACACACAAGAATAGACACTGTTGGCAACCCTACAGAGTCAGAGTTTGAAAGTGAGAGTTGGAAACTTGACCT
CTGAGTTTGCTGGAGGAAGCCAGCAACATGATTTAGAAAGGATAATATAATCATAATGGCAGGAAGTGAGCACAGTCTTCTTGGCTGGAGAATC
TCAGTTGCAGTGTTTGGGGCAGACTGACTGGAAATGATGCTATGTCGGGGACCATGTTTGAAAGCCTAAAATCTGAGTTGACAAGGAGATGTTC
CATGGAGGCTCTGGGAAAGAGGGACTCGAAGGCAGACCCCCACACAGCGGACTAGTAAGGTCTCGCTCTGTCACCCAGGCTGGAGTGCAGTGGC
ACCATTTCAGCTCACTACAGCCTCAACCTCCTGGGCTCAAGCAATCTTTCCACCTCAGCCTCCTGAACAGCTGGGACCACAGGTACATGCCACC
ATGCCCAGGTAATTTTTGTACTTTTTGTACAGACAGGGTTTTAACATGTTGCCCACGCTGGTCTCGAACTCCTGAGCTCAAGCGGTCTGCCTGC
CTCAGCTTCCCGAAGTGCTGGAGGTGTTTTATGGATTGAGTACTGTTCAGTTGTACCCTATGAAAGTGACCCACCACAATGGCCTGTTTTCCTG
AGCAATTCTAGAGAGACAGCAGAAGGGGCTGGTGGCTCCCGTGAGGCTAGAAGGGCAGAACAGCAGAGGAGGAGAGGGTTGGAACAAAATTGGG
CAGTGGCCTCTGTGCTTGCTGGCTCCCCAGCCCCAAGCCGCCTCTCTGTGGGAACCAGGGAACATTCATACTGCTCGAACGTGGCTCTTCCCAC

AGTCAGACACCACTGGCCAGCCAGGATCTCCCCTCCTGTTGAAAAATGCTCTCCCTTGCAGCTCCCACTAGGAAACCTGGAAGGCCAAACTGTT
TATGACATTGTTTCCCTAAAATGTGCTCAGACACCATGTTTTATAAAGTTTCTGTCTCTTCTTTCTGTTAAGAAAGGAGAAAAAGGATCCCAGC
TACTCAGGAGGCTGAGGCATGAGAATTGCTTGAACCAGGGAGGTGGAGGTTGCAGTGAGCCGAGATTGTGCCACTGCACTCCAGCCTGGGCAAC
AGAGCGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAGGAGAAAAAGGAAAAACATTTCCAGCACTCTTGTCCACCTCCTCAGTTGGAA
GTGTAATAAAAAGATTCTTCTGGCTGGGCATGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCAGATCACTTGAAGCCA
AGAATTCAAGACCAGCCTGGCCAACATAGTGAAACCCTGTCTCTACTAAAAATATAAAAAATTAGCCAGGTGTAGTGGCATGCACCTGTAGTCC
CAGCTACTCAGGAGGCTGAGACAGGAGAATTGCTTGAACCTGGGAGGTGGAGGCTGCAGTGAGCCGAGATCACACCACTGCACTCCACCCCAGA
TGACAGAGCCACGCTTCATCTCAAAAAAAAATAAATAAATAAAAAATAAAAGGATTCCTCTCTCTAGTGTACCCATGTCTCTCAAGACACTCTC
CCAACTGCCCTGGTGCCCAAACTCGTGTTTATTCCCTTCCTATTCACTATCCTTCACCTCTCAGGTATTAGGTAAAGCCAATGTCTTGGGGAAA
AGTGGCTAAAAAGAGGAAATGACAGTTTTCTTTCTAACAAAAATATGAAACCATCTAAGAAGAAAAAAATGAAGTAGACCTATCTTTTTGTTAG
TGTGCAGAGTAAAAGCCATTTAAAAAAAATTATTTAAAAAAACCATGATTTTCAAAATTCATATAGCTGAGAATACTGTATTTTAAATACAGGT
TAAGTATCCCTAATCCAAAAATATGAAATTCAAAATGCACCAAAATCTGGAGCTTCTTGAGCACTGACATAACACGCAAAGGGAATGCTCAACT
TACTGGTTGAGCAGCCCTATAATGCAAATATTTCAAAATCCTAAAAAATCTGAAATTTAAAACACTCCTGATCATAAGCATTTCAGAGAAGGGA
TACTCACCCTGAATTAACACAATCCATTCAATTTAGCTATTGTTTATAAAATAAAAACTAGCCCAAGCCTTGCTGAGTGGGCATATCTTGATTG
CCACCGTTATTGTTGCAGAGGTACATTGTGAAGTTGCCAGGTCTGCAGGTCAGCCCGTTGCAGGTCCTGGTTTATGGATGGTTGGAAAAGAGCT
AGTCCCATTCCAATTGTCATTGTCAGCCAAGTGCATTGTCAAAATATCCCACTTTCCTGGCAAAGCCCTCATTGGTATGTTTCCACTTGGCCCA
GTGCGTGGAATTGTTTTCATATACTCCCCTTGCTTTGAGAGGTCTGGGCAGAAGAAAGCAGGAGAAGAAGAGGAGTGGGGAAGAGCGGAGGGGT
GCAGACAGGAAAGGGAGAGCGAGAAGGAGCCTGACCATGTGGGTCTGCCAGGACCCTGCATGGGCCAGCTTATGCCCTGTCCCCTGGCTCCAA
ATGCCCAGGAAAGACTGCCTCGGGAGACGCTACATGTTGAGGTTCACATCACCAAGTGTGCTGTGTCTGAGGCTTGGACCGAGCACTGGAAAAA
TGACCCAGTGGCCAATTAAACTTTCCATTGGCAGACATTGGATGAAAACTTTTTTTTTAAGTGAAATCTTTCCATTTGAGTAGTTTGTTTTTTA
ATGAAATGAAACATGTACTGACATGCGCTCTGTGGAGCAATAGGAGAGTGATTAATTAAACTCTGTGCTGCCATTTTGGAGGGAGGCACTCAGA
GCCAGAGTCAAGCATTAGGAGGCGTTTCAGGGGCTGTAACCGCACCCAGAAGGATCTGTCAGGCCCTTCTGCCTGTTTCCCCTCAGTTCCTGTG
GACTCCTGGAAGGGACAGAGACAAGGGAGATTTCTGCTGGTCCAAGCTCTGTCATTGCTGAAATATGAAACCAAGGACAGTACTAAAAGATGCG
GCAAGGCAAATGCTTTGGAGAGTGCCAGTTCTGCTACGTGATTACACACTCTTCCTAATCTTTCTGGGCAATATGTATGAAGAAATAAAAACAG
TAAATAGCCTCGTAATCAGTTCAGGTTTTGTGGCCAGATGAGGTCAGTTCAGATCAGTTCTGTAGTCAAGTGAGTTACAAAAACTTGATGGTGT
TCAGAGCTCGTTGGATGGTGGAATTGTGGAGAAGGAAATGCTGGCCTCTGTCCGCGTTTATCTAGAGCCGGAGGAGGCTGCCTTTCATTCCCGA
GCATGCTCCAGTTCCTCCCTTGCTTCCAGCTCCCCGCCCCCATCCCCCATTTTCAGCCATTGGAGGAGGATGTAGGCTAATTAGCCACAGCGCT
GCCTCTCACTCCTCCCATGCAACTGAGGAAGTCGCTGGTAAAGGCATGCATGGCACAGAGGCAGGGACCCTGACTCCTTCACCAAACCTCTCTC
CCTAAAATAAGGGGTCGCCCTGACACGTGAGTGAGGTTATTTTACAATAATTGCATTGAAGGCCTACTTCAGTACAGCAGAAACAATATGTGAA
TTTTTATTACCTCAAGAAATGATAATGGCAGAGAATAAGAAAGCATCCTGAAAAGGTCTGGAGAGACATGTGACTGACAGGCTGTGGTTGACAG
CCAGGAGGAGCCAGGATACACTCAGCTCCACAAGTAACAACACAACCAAGAGGACTGGCAACAGACCCCGAAGTCCGAGTGTTCCCTCTGCAGG
GGGACAGGCTGTGCTCTGGCCCAGCGCCTCTGGCTGTGCTGACAAGTTTCTAGCTAACGGGTCGCCACCTCCCCTAGAAGTAAAGGAAGCTCCA
TGCATATGGTGTGTGCTCCTGCTGGCTGTAGCCCTGGGAAATAGGGGAAGAAATCTTGGTTTCTATATGGCTTGACATCGGGTTCTTGCTCCTG
CAAATTAACCGGGTCAGATACTGGGGAGGATTCCAGATGACAGCCTCACCGGCCAGGAAGCAACCAAAGCACAGCACAGCTTGACGGGGAGCTG
GCAGAAGGTGATACAATGAAAAAGGGAAGCAAAACTAGAGAATAGTGGCTGGCAGTAGTTGGGAGGAGGTCAGGACACTGGCCACCCCCTAAGC
ATGGTAGTTCCTGTAGTGTTAAGGCAGCCAGTGTGCAGGAGGCCGCACTCTCTAAGGAGTTAGCGATCTGTCTTCTGTTAGTGCTATGCAGCCC
AGTGTTTCAACAGCTTCCCAAGAGTCAGAAAAACCTCAAATGATGGATGGCCTGGCTGAAGTCATCAGTAGAGATAGGCCCCGGACATGGTCTA
TCTCCCCATCAAATTCACCAAACCTCAGGGCACTGTGGGGTTGCAGGGCCAGACAGTGCCCAGCCACGCTGGCATGATGGCAGATCTCCAACAG
TGGGGAACTAAGAGTTTGCCCAGGCATGAAGAAAACGAATTTATGAAGTTCATAAATGGAGTTTATAAATGCTATAAACAAGGGGCAGCATGCT
TTCATTCTGTGTGGATTTTTTTGTCTGCTTTATTCATACATTGTTGTCAGTTTAATTGAAGTATAATCTACACACAATAAAATTCAACAATTTT
AAGGATGCAGTTTATTGAGTTTTGACAAACATAAACAGTCACACCACCCCATACATAATATAGAACAGGGGTTGGCAGGTCTGGCTCCCAACCT
GTGTTTGTTTTGTACGTTTTTAAAGGGTTGTTAAAAAGAAGAAGACAGGGATCATATGTGACCCGCAAAGCCAAAAATATTTACTGTCTGGCCT
TTTACAGGAAAAGTTTGTTGACCCGTTGACCCTGACAGAACATTCCCATCCCACTTGGAGTTCCCTCTGGCCCCTTGGCAGGGATTCCTCCCCT
CCCCCAGGCAGCCACTGATCTGCTTTCTATAGATGTAGTTGCGCCTTTTCTAGAATTTCGCATGAATGAAATCATACCGTATGTTGCCTGTTGT
GTCTGGCTTCCTTCACTTATCATGTTTTGAGAGTCATTCTGAATTTTTCATGTCTCAGTTCTGCACTCCTTCTTTACTCCTGAGTAGCATGGCA
GGGTTTGACTCCTGGGGGGATGGGAGTACTCCGCATGTTTTAGCCACATGCAGACGCAAAGAAGAAGAAAGGGGATCTGCAAGTGCGGCGGTCA
GGGCCTGGATCCCCGGGGTGCCCACTCTCACTGCGCTTGTCTTTGCAGGCATGAACAACCGGGAGGTGCTGGAGCAGGTGGAGCGAGGCTACAG
GATGCCCTGCCCGCAGGACTGCCCCATCTCTCTGCATGAGCTCATGATCCACTGCTGGAAAAAGGACCCTGAAGAACGCCCCACTTTTGAGTAC
TTGCAGAGCTTCCTGGAAGACTACTTTACCGCGACAGAGCCCCAGTACCAACCTGGTGAAAACCTGTAAGGCCCGGGTCTGCGGAGAGAGGCCT
TGTCCCAGAGGCTGCCCCACCCCTCCCCATTAGCTTTCAATTCCGTAGCCAGCTGCTCCCCAGCAGCGGAACCGCCCAGGATCAGATTGCATGT
GACTCTGAAGCTGACGAACTTCCATGGCCCTCATTAATGACACTTGTCCCCAAATCCGAACCTCCTCTGTGAAGCATTCGAGACAGAACCTTGT
TATTTCTCAGACTTTGGAAAATGCATTGTATCGATGTTATGTAAAAGGCCAAACCTCTGTTCAGTGTAAATAGTTACTCCAGTGCCAACAATCC
TAGTGCTTTCCTTTTTTAAAAATGCAAATCCTATGTGATTTTAACTCTGTCTTCACCTGATTCAACTAAAAAAAAAAAAGTATTATTTTCCAAA
AGTGGCCTCTTTGTCTAAAACAATAAAATTTTTTTTCATGTTTTAACAAAAACCAATCAGGACAGGTGTTTGTTTTTGTTTTCTTTTTTATAAA
TATGAATATATATAATATATATGTCCCTGTACATATACAATGTGGGTGCTAATGTGGAGACTGTGGCCGGCCTGAGCCACCAAGCTGCGGGACC
CAGAGGGAGGATTTTACTGCAAGTCAGCATCAAAGCACCGGTGTTATTCTGAAAACACCAGTGGCCTCATTTTTGGCTTTTGCAAAGCATGAAT
TTTTTCATTTGGATTGCACTTTCCTGGTTCATGACTGTACCTGTAGGTGGTTGTTACTTTGACTCTTTTCAGGAACCACCCCCCAAGCTGAATT
TACAAGTTCTGTTAGCACTATTTGCTTCAACTTACTGCGATTTGTTCTCAAAACTTAAAAATAAGCAAGCAAATGGCTGATACTACCAAGAGAA
CTGGAAGATGGATACCACACAAACTTCTTGTATAAAAATATGAATGCTGAAATGTTTCAGACATTTTTAATTTAATAAACCTGTAACCACATTT
AAGTGATCTAAAACCATAGCATTGTAGTCATGGCAACCCGCTAAACTTTCTCATGCAACTAAAATTTCTGGGGGAAATGAGGGTGGGGGTTGT
ACATTTCCCATTGTAAAATAAGTGTTTTAAATGTCCTGTACTGCTAACGAATGACTTTCTATATGTCCAGGAGTTCTCCAGTGGAATAACTATG
CACTACTTTACATTTCATGGGGATGCACAAAAACAAAAAAGTATTACATTTTTAGTTGCTGTTTGTACCAACCTTAAATTACATATGTTTAACA
ACAACAAATCAAAAATCCTATTTCTATTGAGTTTTTAATACTGACTAGCAACTCTGAAGTCTTAATTCCTTTTTTTGTTATGATTTATTTGTGAG
TTTACATTTTTAAATTGTTTAACTTTCTTAATTTAGTAATTAAAAAGAGAGCATTTTACATTTGAATTTTTTTTTTGTTTATTTGTTTAAATCA
TGGAAGGTACTCGTAGTTCTGTGGCACATCTGTCCCACACCAGATGGTATGGAATCACCTGGTGAATTTAGCCTTTGTGCGATGACTTGCAAAT
GACAGAAACATTCAGAACATCTGGAGAGTTCTTTTCCCTCTAGAAAGGGTAGGCTCTTGACCAGCTATTTCAGAGGATCATTAAAGCAAAAGTA
GGCATACCTTACCATCTGAATTTATCAGACATTTTTTCTAACCGGAATTTACTGTGTCCTGCTTGTAGGAGAAATAGACAATCACAAGAAGAAT
CTTTCTTGTCCTGGAGTCAGTATATTTATTTCCAAATGTCCCCCTACTTCTGTAATGAAGGAGCTAACGGAGCGACAACCTGGTGTGGTAGGAA
GGGCAGTGGGTGGACGCAGGCTACCTGTCCACGCCTGGCTCTGTGATCATTCAGCTTCAGGACCCTGAGCCACCTCCTGGCATCTGTCATTTTC
AGGGCCTGTCTGTAGAACTGAAGGGGTTACATGAGATTCACTCCTTAGATCTCTACAGCTCTAAGATCCTGTAATTCTAAGATCACTGATGCCA
TGCGGGGTCATACAAAGAGGATGGTTTTCTTTGTTGAAATAACCTTTACATTTAGGGAGGGCTTCCAACATTAAAAAAAAAAAGATGAAACAGG
TTCTCTGATTAATCAAAACTTTATGGTATTGTTTTTAGCATTAATAGACTTGCTAAACTGATAAAATTTATTTATTTATTTATTTATTTTGAG
ACAGAGTCTCTGTCACCGAGGCTGGAGTGCAGTGGTGCCATCTCGGCTCACTGCAACCTCTGCCTCCCGGGTTCAAGGGATTCTCCTGCCTCGG

CCTCCTGAGTAGCTGGGATTACAGGTGTGCGCCATCATGCCTGGCTAATATTTGTATTTTTAGTAGAGAGAGGGTTTCACCATGTTGATCAGGC
TGGTCTCAAACTCCTGACCTCATGATCCGCCCGCCTTGGCCTCCCAAAGTGCTAGGATTACAGGCATAAGCCACAGTGCCCAGCTGATAAAATT
TTAAAGATCTTATACATATATTATTATCACATTATTAGGTAGTTGATTAACATATTCTATATCTTTTTCAAGATAACTTTGCTTTTAATCCTCA
CACCCCACTAAGTTGGATAATTTGCAAATATTTCTGGAGGATTTTTATGTTCTGATTCATTCAAAACAATCTGGAAAAAAAAGAACCTGTTTTA
AATAGAAATTATTTTTAAAAAAAAGTCTCTTCAAAGTATAGCCTTTAATTTATCAGTTGAGTTCATGGTGGACTGTCTTATATGAAAGAAAGCT
AAGGACTTGGGTCACCTCAAGGGCACTCTTAGGAAACAGCGTGCTGTAGAGTGAGGTTGCAGAGTGAAAGTAAGAGAACATCTGTAAATACAAA
GAAGTCAAAGACTTCCAGGTTTTTTCTTCCAAGAGGCAAATGTGCTTTCAAGAGATATTCCTGAGGTAGACCATTCCAGAGAGTCCCCACACCT
CCCAAGAAGCCTCTCTTCCTCATAAGTTGTACAAGCTTAGGGTGAGGAAACGGAATTTGCTGACCAGAAACTTCTCCTGTTAAGAAAGAAAAGT
ATCGCCTTAATGTCAGGGTGATGGTGAGTAATTTTTTGTCTTCAGTAACCTGGCAGTGAATAAGTATTTGCTTTGTTGCCTTAGGAAAGCTGGC
ATCTAGCCCTCCTCTGCTGGAAAGGGAGCCTTCCTAATAAACTATTACTTTTTACTTTTTTTTTTAAGACAGGGTCTTGCTCTGTCACCCAGGCT
GGAGTGTAGTAGTGCAAACACAGTTCACTGCAGCCTCAACCTCCTGGCCTCAAGCGATCCTCCCAGCCACACTAGCTAATTTTTATCATGATTA
TTTTTTGTAGAGATAGGGCCTTGCCATGTTGCCGCAAGCTGGTCTCGAACTCCTGAGTTCAAGCAATCCTCCTGCCTTGGCCTCTCAGTGTTGG
GATTACAGACGTGAGCCACTGGGCCAACCTCTTTTTACTTCTTTCAAACAACGGGCCAGATGCGGTGGCTCACGCCTATAATCCCAGGACTTTG
GGAGGCCAAGGCGGGTGGATCACGAGGTCAAGAGATCAAGACCATCCCGGCCAACATAGTGAAACCCTGCCTCTACTAAAAATACAAAAATTAT
CCGGGCGTAGTGGCATGCGCCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCACTTGAATCCAGGAGGCAGAAGTTGCAATGAGCC
AAGATCGCGCCACTGCACTCCAGTCTGGCGACAGAGCGAGACTCTCTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAATCAAATAAACCTATCG
GAGAAGACCATTTGCAAAGTTCAGACATTGTAAACTGCGACTAAAGGATTTCTGTTCACTCCATTCTCTGTAGCTCCTGATCTCCTCTGATGAT
CAGTTCACGGGCTGGGAGGATTAGAAAGCCTAGGAGACAGAGGGTCCCATGCTTTAGAACATCAGGGTAGATAAAGACAAATGATGCATTTGGC
TCTGCCGTAGTCGTGACACAGAAAGATGTATGGGGAACCAGGCATTTCCGTGAGAAAAGTTAAGAGTGTATATAATCCCTCAAACACAGCCACA
CTGTTGAAGATTTCCTTACAAGCACCAGAAGGTGTTTACCTGCTTTGAGAAAGATAGGAATCCTCCTGTGGCTAAGTGTTGGCACCAGAGGATT
TTATAGTAGCATTAGTGTGGCAAAATGTTATCTGCAATTTCCCCGGGAGTCTTAAGAATGTTTACTATATTAATTGGAATGGTTCTTTCATGAA
TCTTGAAAGAGTATGGTTTTCAACAACAGGCAGAAGAGAATTGTACTAAAGCCCACAGCAAAAGGGATGTCATCTGTTCATTAGTCATGACTCA
GGACAAAGAATGTCACATGATAGGCATTTCCTAATAAGTTGCATTGGAATAAAATGATCTTTGGTCAGTTTGTTCCTGAAAGGTATTTTAATAG
GTTTAAATGACTTTTGTTGACCTTCTTACCACTATATATTATACAATACTGTTGGAATTCAATTATGCTATCAAAAATATTTGTTAGAAGGGAG
GGAGGAGACTGGTTTTGGTTTGGGGGCAGGGGAAGGAAGCTTAAACACATTTTTATTCTAAAAATGATACAGGGGGATATAGATTACTAAAGCA
ATTGCCAAATTTTAAATATATTTTTTATCTCAAAAATAGTTTATAACTACAGAGAAGAAAATAATGAAAAATAGTACCTTTACTGTATTTGAAA
TATCAAATAGACATTCATAATTTATGTACACCTATGTTCCCAGAAAATTCTCATACATAATAAACTCCTAAATCATACCTCATTCTTTCCCAAC
ATGCAAACTATTCAGAATCCTATGGAGGGACAAATATACCTTTATTTTAAAAGTTAATTCTGAGCACTGAAAATAAAAATAAATGGTTTTCCAG
TGTTGCAGGGACCATTCTAACAAAACGTAACCAGTGACAAACGACGGCTTCCTCAACAGCCAGAACACTGTGCTCCTCTCCATACGGCTTACTA
CTCTCTAATAACCTGTTTAATGCCACCAATGTGTTTAATACTGCTCTCCTCTAATGTGTTTGCCCTGCCAGACTGTGAGCCCGAGAACAGAAAC
TTCCTGATTGGTTCACCATTATTCTCCCTGCACCTAGAACAGTGATGAGCTTCTGGCAGATGCTGGCTGGACTGATGGATGGACTGTTAGGTGG
ATGAGGCCCACTGTCCAGTGGGGCCAGTGGTTTACCTTCGAATGACACATCTACCTAAGAACCTGCTAAGCACATGGGACTGACTGCATGCTGC
CCACAGTGCTAGCCCTGAGCATTATGAATGTGTGGCCACCAGTGTTCCAGATATGATTGAAGTCCCAATCTATAGCCTGAAGTGAACACCCTTG
ATACTTCCCAACTCTTTCCCCAGAACTGTCACAATGCCAGTGAGGATAAACTTGTACCTCTTGGAACCTGAGAGACAGCATGAAGTAAATGGCA
CCAAGTGATACATACTCTTATTTTGATTCCGTTTGGTTTTGAGATGGGGTCTCACTATGTTGCCCAGGCTGGATTCAAATTCCTGGGCTCAAGC
AATCCTCCCACTTCAGTCTCCCAAGTAGCTGGGACTATAAACATGTGCCACCACCCCTGGCCACAGTCTTTGTTTTTTGGGGATGCGGGGAGGC
GACAGGGTCTCACTCTGTTATCCAGGCTAAAGTGCAATGGTGTGATCATGGCTTACTGCAGCGTCGACATTTTGGGCTCAAGGCATCCTCCCAC
CCCAGGCTCCCAAGTAGCTAGGACTACAGGTGCATGCTACCACATTCGGCTACATTTTTTTTTTTTTTTTTTTTTTTGGAGAGACAAGGTCTT
ACTATGCTGCCCAGGCTGTAGCCTTAGGTAAAGTGCCTTCAAAGGCTCGTTTTAGCTTTGTCATTTTATGAAAAGTTGATATTCTACTCCCTAA
GATATCCATCTTTGTCTTCAGATAAAAATTATTTTCCCAAGTCATCAAGTTGTGCCATGTTACCCAGCCTGTGGCTTGTAGTGTCCCTGACACA
CCCTTGCATAACGCAGGGAGCCCCTGTGCCCTGTGTGAGAAGCACAGCGTGAAGATGTTGTCCATAATATTGTACATGGAAAAGGTAACGTTAG
CCCCCATTAATGTGGATTCTCTCATCTAATTTCCTCTTTTCACCCAGCAAAGTGCCCAGTGACTGAGAATGAGACAGAAGATGAGGGCGTTTGA
GGATGAGAAGGAAGAGGAAAGTCATCAGAGCCACCTGGAAGTAGAGGTCTGGTCAGGTTGGCCTGCTTAACCAAGATGGCAGCCAGGGGAGTAG
GAAGGATGAAGACATTGCACACATTTGGAGGAAGAAACCAAAGCTGGCATGAGAGGAGTCCTTTCCAGGGCTGTTCAAGGCAACGGGATGCAGG
TGGATATGACTGTAGATGGGTGTAAAGACTTACCATTCACTCCTCCAAACTTTCGTTGTATACTTATTATGGGCTAGGCCCTGGGCCTAGCCCC
AGAAATTCAAAGACAGACAATTAATATCTACAGTCTAGTAAGGATAAAGACCCATAAAAATCGTTGCAATAAGCTTTCAGATGGAAGCACAGTT
GTTAGCAAAGTAGTAACATCTAGCTCAGAATGGGGGGGTACAGCGGAGGCTTCCTGGAAGAGGTGCTGCCTGAACTCTCTTAAAGACAAATGGA
AGTAGGTTACATAGTGTTTAGCGGGGCCTGGTGCTCCTTGCCTTTGGATTTGTTTCCTTCTGATTTCTAGCCCCCATTAGGGATTACCTCATGC
TTTCAATATGGAAAACATCAACAAATGGGTCTCAATGAAGAAAAACCAAAAGTACACACAAGCATCTCAATCACTGTCTCTCTGTTTCTCTCCT
CTCTTTCTGTCTCTCTCTCCTCCCGCCACCCCATTAACAGTATATAGGTACACCATTTATTCTGATTAGTGGCCACTAAATAGAGGGGGT
GGTAGATAATAGCATTCAAGGACGGAGGAAGGTTTTAGCAGGTTGTTGGCTCCAGTGTCTCGATTAGGATATGGTCTGAAATATATTCACATTC
TCATAAAGTATGAGAATAAAAGAATTGCTAGAAAGAAGCTTGGAATAATAATAACTCTTCACTACTTCTCTTAATAACAGCTGGTGGGAGGCTT
TCTCCTATTTACAAATCCATTGTCATTCTTCCACTTACTAGCCAGGCTGTTTCGCTTGAATCATCGTGCGATATGTACATTCATCATGGAAGGT
ATATACTAGCAGTTGCATGGTGTTCTGGTTGTTTTGTTCTGGGTAGTTTTCCTTTAGTTAATTATCAAGTGCTTACTATGTAATAATCAATGAG
TAGCTAATTGGAAGCAAGAGAGAATGAAATGGGTATTATTCAGATAGTGTTTTTAATGAAAAGCATAGACGTAGTACTGTGGGGAAATATCACT
AAATAGCAAGAGATTTCATCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTTTACAAAAGGATTCATTTAAGCCACTCATAA
ACTAAATCCAGGTATGTGAATCTTTTCTTTTTTTTTAGACTCCTCCCAATGGGTAAACATTGGAAGACACCAGGAGGGAAGCCAAGCCTCTAGA
GATTGCTCAGGAACCCAAACCACCCCAAATGGAGCCGGAAGGTCTGTCAATTCCCAGAGAGGGAGGAAATGGTAAGCAAATGGCAGCAGTTGCT
TAGAAAATTAGGGAATGAATAACAATGCTTTCTGGTAAATTAACCATATTACATTGTGCAGGGGAAAGCGATAGGAAAACCCTGTTAAAAATTG
AATAATAATTTGCCCACATCATTTATGCAAAATGCATAATTTTCCTACTTCAGTGGACTTTAGTTTGATTTAAAAGATGAGCAGCTCTAGGACT
ATTCACTAAAGCATAATTTGTAAGATAATTGGGAAGGGGAAGAGAAATCAGACTGTAATCAGCACAATCTTTCGTAAGTCACTTCACCTTCCTC
CTCTCACCTGCAAATTTTGGAAAATATTTGTTTACCCTTTCCTGAAGTTCTCTAAATGGAAGTGCAAAGCATTAATCATTGTCATTGCTACCAC
TAAACCATGACCTCACCATGAGAGGGGGGAAAGCCATGTTTCATTCTATTCAGTATTTTTCTGCTCTAATTCAAATAAGTACTTGTTTTGAATA
GTGGGGAAAAAAATGGAAATGTAGCAAAGCTATAGTTAAAACAACAAGCCGAGAACAAAAGCAACATGCATGCAGGCAAAGGAGACCTTGGAAG
ATACACAGATAAAACAAAAAGCTGTGCTTGGCTGGGATTCTGTTTCAGAATCAAATGCAAAATGGAGAATATTGTTCCAACTGTAAAGGTTTTG
CAATCTACAATCAGTCAGAATGAAAAGATATCATGTAATCCACCTTAACAGTCAGAAGCTGCACTATTGCTGTGAATTATGATATTTGTTCATG
ACTAATGTAGATTTTCAGACCCAGAATGGTTGAAGGTGGGCAGGAATTTGTAGGTATACCAGATACCCTTCACTTCAACAGGGCACACCCATGT
CAGCTGATGTTTATATCTCTTCCTCTCCTCCTTTTCCCTCCTCCTCACCCCTTGCTCCCCAATCTCATTAGAATCATGAAATTTTTACTTATAT
ATTCATTAATTCTCTTCATCCCCATCTCTCCACAAAAGATCATTATCTACTTATTAAATTCAGCCCTTACACAGTGTCTCATGCCTGTAATCTC
AGCTATTCGGAAGGATGAGGCGGGAGGATTGCTTGAGGTCAGGAGTTCGAGAACAGCCTGGGCAACATAGCCAGATGTCATCTCTAAAAAAATT
AAAATTAAAAATTTAATAGGGCACGGTGGCACACACCTATAGTTCCAGCTACTCAGGAGGCTGAGGTGAGAGGGGATCACTTGAACCCTGGAGG
TCAAGGCTACATTGAGCTGTGATTGTGCCACTGCACTCCAGCCTGGGCAATAAAACAAGACCCTGTCTCTGAAAAAAAAAAATTTTTTTTTTTT
AAATAAATTCAGCCCTTAGAGTTCTACCTTTCAGGGCAAACCTGTTTCCTTTGTTGGACTAATTCCTGTCTCTTCTACAAACTTGCTGGTCCCA

AAACGCTGAACTTTGAACCCCACAAATCTCAACACTTCTTATCGGTTGGGTGCCCATTCTGGTTAAGCAAAAGGACCTTCCCTAATCCTAATAC
TCGTCCCCACTCTTTCCATCTCTATCCCCAACCGCTGCTACTGGCTGAAGATTTATTAGATACTAGTTTTGTACCTATGCGTCCTGCCACTTGC
TATAAATCGCCTTTATGCAAATCGAAAAAGCTACCCTGCCTCAAGACACTTTGCTGCCATCTGCCAGGAAATTGTTGTAATAAATATGCAAAAG
GATAATGACTAGAATGTGAATGGTGCCCCTTAGAATTGTGCAGTACGCAACTGGCACAACTATATGTGACAACCCTGTTGTTTGAAATCACCTG
AACTCTCCTGGAACCCTGTGTAAAAATCACAACCACCATAGGTCAGTTTTGCCTTTTCATGACAGTTTGCCATTTCAAAATCTAAATCTTCCAC
CATGATCAGAAATTGCTGAGGGGCAGTTTCTAGGAGAGACAGAGTCCCCACGCAGCAGTAACTATAAGATTATAGGGCTCTTCCAGCATTCAGC
CCAAGCTTTGACCTGCTACCTGGGCAGATACAACCCAAACCATACTTGGTTGATTTTCGGGAAGCATCTAAGTTAGAAAGCTGGTAAGGCTGAA
TGTTGGGGTGCAGGGGGAGGTAGACCTAGCTTACATTCAGGTCAGCCATTACCCATCTCTGGCTTTGGCGGCTTCATTTCTTGTTGATTGCCCC
ATCTGTTCTCCTCCCTCCTTCCCATTCAGCACAACCTGCACGTACTGGTGATCTCTCACTACATAACAAACCACTCCAAAACTTAGTGGCAGAA
ATAGAAACAGT

HUMAN SEQUENCE - mRNA
CGCGCTTCTCCCAGCGCACCGAGGACCGCCCGGGCGCACACAAAGCCGCCGCCCGCGCCGCACCGCCCGGCGGCCGCCGCCCGCGCCAGGGAGG
GATTCGGCCGCCGGGCCGGGGACACCCCGGCGCCGCCCCCTCGGTGCTCTCGGAAGGCCCACCGGCTCCCGGGCCCGCCGGGGACCCCCCGGAG
CCGCCTCGGCCGCGCCGGAGGAGGGCGGGGAGAGGACCATGTGAGTGGGCTCCGGAGCCTCAGCGCCGCGCAGTTTTTTTGAAGAAGCAGGATG
CTGATCTAAACGTGGAAAAAGACCAGTCCTGCCTCTGTTGTAGAAGACATGTGGTGTATATAAAGTTTGTGATCGTTGGCGGACATTTTGGAAT
TTAGATAATGGGCTGTGTGCAATGTAAGGATAAAGAAGCAACAAAACTGACGGAGGAGAGGGACGGCAGCCTGAACCAGAGCTCTGGGTACCGC
TATGGCACAGACCCCACCCCTCAGCACTACCCCAGCTTCGGTGTGACCTCCATCCCCAACTACAACAACTTCCACGCAGCCGGGGGCCAAGGAC
TCACCGTCTTTGGAGGTGTGAACTCTTCGTCTCATACGGGGACCTTGCGTACGAGAGGAGGAACAGGAGTGACACTCTTTGTGGCCCTTTATGA
CTATGAAGCACGGACAGAAGATGACCTGAGTTTTCACAAAGGAGAAAAATTTCAAATATTGAACAGCTCGGAAGGAGATTGGTGGGAAGCCCGC
TCCTTGACAACTGGAGAGACAGGTTACATTCCCAGCAATTATGTGGCTCCAGTTGACTCTATCCAGGCAGAAGAGTGGTACTTTGGAAAACTTG
GCCGAAAAGATGCTGAGCGACAGCTATTGTCCTTTGGAAACCCAAGAGGTACCTTTCTTATCCGCGAGAGTGAAACCACCAAAGGTGCCTATTC
ACTTTCTATCCGTGATTGGGATGATATGAAAGGAGACCATGTCAAACATTATAAAATTCGCAAACTTGACAATGGTGGATACTACATTACCACC
CGGGCCCAGTTTGAAACACTTCAGCAGCTTGTACAACATTACTCAGAGAGAGCTGCAGGTCTCTGCTGCCGCCTAGTAGTTCCCTGTCACAAAG
GGATGCCAAGGCTTACCGATCTGTCTGTCAAAACCAAAGATGTCTGGGAAATCCCTCGAGAATCCCTGCAGTTGATCAAGAGACTGGGAAATGG
GCAGTTTGGGGAAGTATGGATGGGTACCTGGAATGGAAACACAAAAGTAGCCATAAAGACTCTTAAACCAGGCACAATGTCCCCCGAATCATTC
CTTGAGGAAGCGCAGATCATGAAGAAGCTGAAGCACGACAAGCTGGTCCAGCTCTATGCAGTGGTGTCTGAGGAGCCCATCTACATCGTCACCG
AGTATATGAACAAAGGAAGTTTACTGGATTTCTTAAAAGATGGAGAAGGAAGAGCTCTGAAATTACCAAATCTTGTGGACATGGCAGCACAGGT
GGCTGCAGGAATGGCTTACATCGAGCGCATGAATTATATCCATAGAGATCTGCGATCAGCAAACATTCTAGTGGGGAATGGACTCATATGCAAG
ATTGCTGACTTCGGATTGGCCCGATTGATAGAAGACAATGAGTACACAGCAAGACAAGGTGCAAAGTTCCCCATCAAGTGGACGGCCCCCGAGG
CAGCCCTGTACGGGAGGTTCACAATCAAGTCTGACGTGTGGTCTTTTGGAATCTTACTCACAGAGCTGGTCACCAAAGGAAGAGTGCCATACCC
AGGCATGAACAACCGGGAGGTGCTGGAGCAGGTGGAGCGAGGCTACAGGATGCCCTGCCCGCAGGACTGCCCCATCTCTCTGCATGAGCTCATG
ATCCACTGCTGGAAAAAGGACCCTGAAGAACGCCCCACTTTTGAGTACTTGCAGAGCTTCCTGGAAGACTACTTTACCGCGACAGAGCCCCAGT
ACCAACCTGGTGAAAACCTGTAAGGCCCGGGTCTGCGGAGAGAGGCCTTGTCCCAGAGGCTGCCCCACCCCTCCCCATTAGCTTTCAATTCCGT
AGCCAGCTGCTCCCCAGCAGCGGAACCGCCCAGGATCAGATTGCATGTGACTCTGAAGCTGACGAACTTCCATGGCCCTCATTAATGACACTTG
TCCCCAAATCCGAACCTCCTCTGTGAAGCATTCGAGACAGAACCTTGTTATTTCTCAGACTTTGGAAAATGCATTGTATCGATGTTATGTAAAA
GGCCAAACCTCTGTTCAGTGTAAATAGTTACTCCAGTGCCAACAATCCTAGTGCTTTCCTTTTTTAAAAATGCAAATCCTATGTGATTTTAACT
CTGTCTTCACCTGATTCAACTAAAAAAAAAAAAGTATTATTTTCCAAAAGTGGCCTCTTTGTCTAAAACAATAAAATTTTTTTTCATGTTTTAA
CAAAAACC

HUMAN SEQUENCE - CODING
ATGGGCTGTGTGCAATGTAAGGATAAAGAAGCAACAAAACTGACGGAGGAGAGGGACGGCAGCCTGAACCAGAGCTCTGGGTACCGCTATGGCA
CAGACCCCACCCCTCAGCACTACCCCAGCTTCGGTGTGACCTCCATCCCCAACTACAACAACTTCCACGCAGCCGGGGGCCAAGGACTCACCGT
CTTTGGAGGTGTGAACTCTTCGTCTCATACGGGGACCTTGCGTACGAGAGGAGGAACAGGAGTGACACTCTTTGTGGCCCTTTATGACTATGAA
GCACGGACAGAAGATGACCTGAGTTTTCACAAAGGAGAAAAATTTCAAATATTGAACAGCTCGGAAGGAGATTGGTGGGAAGCCCGCTCCTTGA
CAACTGGAGAGACAGGTTACATTCCCAGCAATTATGTGGCTCCAGTTGACTCTATCCAGGCAGAAGAGTGGTACTTTGGAAAACTTGGCCGAAA
AGATGCTGAGCGACAGCTATTGTCCTTTGGAAACCCAAGAGGTACCTTTCTTATCCGCGAGAGTGAAACCACCAAAGGTGCCTATTCACTTTCT
ATCCGTGATTGGGATGATATGAAAGGAGACCATGTCAAACATTATAAAATTCGCAAACTTGACAATGGTGGATACTACATTACCACCCGGGCCC
AGTTTGAAACACTTCAGCAGCTTGTACAACATTACTCAGAGAGAGCTGCAGGTCTCTGCTGCCGCCTAGTAGTTCCCTGTCACAAAGGGATGCC
AAGGCTTACCGATCTGTCTGTCAAAACCAAAGATGTCTGGGAAATCCCTCGAGAATCCCTGCAGTTGATCAAGAGACTGGGAAATGGGCAGTTT
GGGGAAGTATGGATGGGTACCTGGAATGGAAACACAAAAGTAGCCATAAAGACTCTTAAACCAGGCACAATGTCCCCCGAATCATTCCTTGAGG
AAGCGCAGATCATGAAGAAGCTGAAGCACGACAAGCTGGTCCAGCTCTATGCAGTGGTGTCTGAGGAGCCCATCTACATCGTCACCGAGTATAT
GAACAAAGGAAGTTTACTGGATTTCTTAAAAGATGGAGAAGGAAGAGCTCTGAAATTACCAAATCTTGTGGACATGGCAGCACAGGTGGCTGCA
GGAATGGCTTACATCGAGCGCATGAATTATATCCATAGAGATCTGCGATCAGCAAACATTCTAGTGGGGAATGGACTCATATGCAAGATTGCTG
ACTTCGGATTGGCCCGATTGATAGAAGACAATGAGTACACAGCAAGACAAGGTGCAAAGTTCCCCATCAAGTGGACGGCCCCCGAGGCAGCCCT
GTACGGGAGGTTCACAATCAAGTCTGACGTGTGGTCTTTTGGAATCTTACTCACAGAGCTGGTCACCAAAGGAAGAGTGCCATACCCAGGCATG
AACAACCGGGAGGTGCTGGAGCAGGTGGAGCGAGGCTACAGGATGCCCTGCCCGCAGGACTGCCCCATCTCTCTGCATGAGCTCATGATCCACT
GCTGGAAAAAGGACCCTGAAGAACGCCCCACTTTTGAGTACTTGCAGAGCTTCCTGGAAGACTACTTTACCGCGACAGAGCCCCAGTACCAACC
TGGTGAAAACCTGTAA

TABLE 22

MOUSE NOMENCLATURE
ICSGNM Nfkbil1
Celera mCG15940

HUMAN NOMENCLATURE
HGNC NFKBIL1
Celera hCG22180

MOUSE SEQUENCE - GENOMIC

CCTCCCAGGCCTTGGGAATACAGGAATGAGCCACTGATCCAGCTTCAGTTCCCAACTATTAAATCCACCACAAGGGGAAGGGTCAGCCAAGGAA
CTGAAAGTCTATTAGTTTTTTGGCAAGGTATAATGACATACAGCCAGAGGCACAGGCACACAGACATAGACAATGCCTCCAGATTACAATCTAT
TTTCAAAATCCTAGGAAAAAGATATATAAATACGCTAAAATGTTTCAGAGGCCAGTAAGCTTGCACACAGACAGGTTAGGAAAACAATGTCTAA
TGCTTGGTTATGCCGAGCAATGGAAACCTCAGAGATCACAAGATCTCTGGCCTCCTTTAGCATTTTGCACATACTGCCTTTCCTTTTCTTCTTC
TAGAATTCCCCCTTTTAAATCTGTCATGCTGGGCGGTTGTGGAGATGCTCGCCTTTAATCCCAGTAGAGGCAGAGGAAGGTGGATTTGACTCAA
AGGTCAGCCCAGACTGATCCAAGCTGCTCTTTCCCCACCCTAACCAGAATAGGAAGTCTGCACACATCTCTCTACTCACAGGGCCAGCTTACAA
GGCCTTTCAAACCCAGCAGGCCACTCACCCAAGCATGGAAATATATAATCTCAAAAGTTCCAAAGGATGCCAACTGTGAGGCCACACCACGTTC
CTTCACAGAGGACACAGGCCACTTGTTATGACCCCCGGAAAGCTTTAACCACTCTAGAGTTAAAGTCCACACCAGGGCTGTTTTAAGAGCATCT
AGCTTCCTCTTGCCACATACAACCCAACTCTCAAACAATCTACCAAGCAATTCAGGAGAACAGAACAGAGGCTCTGGCCAAGCCAGGTGGCAAA
GGCCTGCCCCAACTACTCAGGAACCTGTGGCAGGAGCCTCAGGTTCAAGGCCTACTATCTCTAGACTAAGGTGAGTTCAAGGCCTACCAGGACA
ACGTGGTGGTTAAGAGACAGTCGTGAACATAAAAACAAAGGACCCAGGGGTGGCTCAGTCCCACACATAGTAGCTCAAGGCTCTGGAATGGAAT
CTGCAATACCAAAACCAACTAACCACAAAGTGTTGCGGTGGTATCACCTAAAGCTACGAACTCTCAGGAACACACAGGTGTATTCACAGTATGG
AACCTGGAAGGGCAGCCACAGAAGGGTGTGGCACTAACTGAAGTCTCTCATGTGACCACACCACTGACAGCACAGGGATGCCCGAGGACAGCCA
ACCTCCCTCCCAGTGCCTGTCTCCCCACAGCCTCCTGTCCCAGGTTTCTTTCCCCCCTTACCTTGACATTCGGCATGTACTTAGAGAAGCGCTC
ATATTCCTTGCTGATCTGAAAAGCCAGCTCCCTAGTGTGACACATCACCAGCACAGACACCTTTGAGGGAGCAAATGGAGACAGACACAGTAAA
GTCAGCCCCTCGTCACAAGAGCATCCAGCAACTTGTCAGTGATGTTGGTGAACATTCCCCTTGAACTGCAGAGGACACCAGCTGAGAGCACATG
GAGCCAGAAATGGCCTCCTGGTGATTCAATCTCCACACCCTCTCCAGCACTGCCCCCAACATACCTGCCCAGTAACGGGCTCCAGCTGCTGCAG
TGTGGCCAGGACAAACACTGCTGTTTTTCCCATGCCTGACTTGGCCTGGCACAGGACATCCATCCCCAGAATGGCCTGCGGGATGCACTCATGC
TGGACTAGAAGGAGAAAGGAGAGACATTTTTGCACCATGCCAAACCCCTTTCTCCCCAGCCGACTCATCATATGTCACCTTGTCACCTTTCAGA
CCCCATCCTTTCCCTGACCCTCATCACTCTTACACTCAAGTCAAACCCTCCTACCCCAGCTCCCCAGTTCCGCTAAGAAAGAACCCTCGAGAAG
CTACCAACAGGCCACCTTCCACGTTCCTGGCTAAACTTACTTTTCTTACACCGTAACAATCTATGAATTCGACTGCCACAGGCCATTTCTCCTA
CATAGGTTGCTGTGCTTTTGGGTCATGTAACCCTGCAACCTTGAACAAAATGAAGGACTTGGTACCTGACCCAGAAGCCACAGAAGCCAGCATC
CTGATCGTTAAGGTTTCCGGAAACGACACTTGGCCTGGCCCAAAAGAAGGGAACTAAAGGTCCAACCAGGCCCTCTCTGGGAGTTCGAACAGTC
AGAATGACAAAAACCAAGCAAAAAAGCCAGGCACAGAACAAATGGCAGCCCTCGGTTTAATGGAGAACAAAAGCCTCTTCTACAGCTGCCGTCT
TGGGTACATTCTCAGAGCTTGGCCTATCCCAAATAAATTCAAATCCTATGACCCTAGACTTGAACCTCCCTTTTCTTGCACCAGAGGTGCTAAA
TAAGGTCTCTACACACAACAATAAAATGTACCCTCTGATGGATGCTCAAAGCCACAGTCAACGATGGCCCGGAGCAGCTCTGGCTTGAGTAGAA
AATCTCGGAAGCCGGAGCTATGGATGGAGACGTAGGAGCCCTTGACGTCTTTCTTGGCGGGAGCCTCGGTCCCATCTGCCCCAGCGGCTGTCTC
CACCTCGTCGTCTTCGTAGTCCAAGAGCTCATTGTCCACATCGTTCTCTGCCATAATTGGGCCGGCAGGGGGAGAAGGGAGGTCTCTGAGTTAG
GTGTCCCAGAGCAGGTGAGGAAGCAAGGGCCAAAGAGAGGGGTTGAAGAACAGCAAGGGGAAAGACACCAGTTTCCGACAGAAGAGCTGGGAGA
GGGGACAACAAAAAAACCGGAAAAACTCATCAGTCACGAATGGACTCGTCACTTCTCGTCGATCCCTACACCCGTCCTATTCTTCCCTAAACTG
TGAAACCTTTGTCCCGAAAGAAGAGTTAACAAAGAGTCTCATGACATAAGAAACGGGAACACCAGACGGGAGAGACAGAGTGGGCTCCACCGCT
AACCAGACTTTGTAACACACACTTCGACAGGCAGGAGCCAACTGGGAGACCGCAGTAAAATAAGCGTGACTAACGACTCACACGAGGGTTGAGA
CACAAAGGACAAGGGAAGACAGAGACTGCGCTTTCTCCTGCCACCTCACGGTGGTGATCCCCAACGTCAGCCATCAGTCAAGGGTGATAGATAA
GGGTCAGCACTGCGCAGAGCGCTCACTTCCCAAATGCAAACATCATGTGGCTGCCGCTATTCTCTTGCTCAGAAACCCCCGAGTGGCCGTCCCA
GCGGCGCACACCTGGACCGGGGAACAGAAGCAGGAAGGAGGGTGGTGCCGGGCGGAGAGTGGGAAGTGTATGAATGGCTCCATTTCAAGAAAAA
AAAATTTTTTTTTTGTTTTGAAAAAGATGGGTGTGTGCAGTTCAATGGCAGTGCTTGCTTAGTAACGCGAGAGGCCGCAAGGTTCGGCTCAGCG
CTGCCAAAGTTAATTTAAAAAGTCGCACTAAGGAATTAAGGTCACAGCTGAGAACGATGCAGGATTAAGAGTGTGAGCTGGGTGGCCTTAGAAA
GGAACGCCTTGCAGTGCTCTCGGAAAAGCTTCCCCAGAAGTGCGCGACACCATCGGCCACGCACAGAGGCAGCCATTCACAGAGAGCTCCAAAT
AAGGCAGCGAAAGCGGGGTCAAAGGGCTGGACGGGCCCCGGAGCGAGATCTTCCCATCCCTGGGCGAGCAAGAAAAGGCCCGGAGGGGAGATGC
GAGGGGCCCCGCCCTCCTCCTGGCGCCGCCTCCGGCCGCCGCGGCCCCGGGTGGGCAGAGGACCCACTGGAACACCCAGGAAGCGCGGAGACAC
AATGGCGGCCGAGGCCACCATTTTGGATCGTTCCCCCCTTGTCTCCCAGCTCCCCGCCAAGATCTGCTCTCAGAAAGGGGTGAAGACAACAGAA
CTGGACGCCCGCCTGCGCGCCGGCGGCCACGGCGCCGACCCGGCACCGGGTATCAGGGACCCGCGCGGCGGGGCGAGCCGCGGGAGAAGCAGAT
GGCGGTGGATGGTGCACAGGGCCAAAGCTTACCTAAGCACTGCGAGCGTGTATGGCGGCAGCAACGGGGACGGAGGCGGGAAGCTGCCTTCACT
TCCGGTTCCAGGCTCGCCCCGGCCTCCCGCCTTCCCGGCCGCCAGGGCGCACGCGCAAGGAGCCGGAAGCAGGCTTTCGCCGCGCGCGCTCCGC
GGCTGGCTTTGCAGAACGCCCACTTGAAATGAAGCTTCTGACGACGCCTCCTCCGGTCGCCAGTAGCAAGAGCGCGACAGGAAACTCACGTCTT
CCCCCGCAGAGCTCTCCATTTTGTTCTTCTACGCTTATGCAACACCCTCCGACGGTCGGCTCTACTTTAGTTTTGTTTGCCACGCCAGGCTTCT
CCCTGGGCACCTCTCTGTGGGCATGGAGGACTCCGCGATCGAATGAGAAGCGTTTCTCACGGGGTCCTTAGCCTCGTAGTCAAGGTGACCCGAG
AGCGGCTAACTCAGGCCTCTGCTGGAGGGGAGGGGGACACGTGACCACGCCCATTACAGTCGTGCAGAGAATAGGCAGGATTTACCCAAAATTA
TATCGAAAGATGGAGGCTTACATTCTGTCTAGGTGCTAAATAAATGGTGGGGTTTGAGGTTATGCACCTTTCCATAATTCTTGCTAACTAGAGC
AGCAGAATAATCTCAGTTCCATTATTCAGCCTGGACATCCCCCTCCCCCCATGTGGTATTCCCTTTGAGATGTTACATATAGCAGAAGTGTTGT
CCTGTTGCCTTGCTACATAAACACAAGCTCGGGCTTTCCCTATTAAGGACACTTAATATTAATACAAAGTAACACTAAGTATCAGTGTTGCCAA
CCAGCTGGCTGTGTCCTGCTCATCGCATAAGCTCTCTGGGCTGGGGCTTGGTAGCTTTTGATCCCTCCGCATTTGGCAGCCCTAAGCAGCAGGC
CGGCGGGTTTTGTATAAATCAGAGAGGAGTGGGAATTCCTCGGCTCTGGTAACTTATTACGAACTGTAGCTCCAGAAAGTGCGGTACCTGGGCC
TTTAGCTTTGAAGCGTTTCCAGGAACTCTCCTAGTGACCTAGTTGGCGGGCTCTTAGCCACTGTCTTCCTGTTACTGGACCTAATGTGGTGACA
TTGTGGAGGGTAGCATAGTAAGGTTTGTCCCAGCTGACCCAAGTGAGCCAAACTTTCTGCTTTACAGCCAGCAAAGGGTGTTTGCACCAAACAC
AGCAAACAGCAAACTCGTGCAAATGAAGACTTGTGTTTGCACCAATCATAATATTGTCCCTTTGGCATCAGTGATAACACATCTTCCTGCTACT
GGACTATGGGAAGTTCCACCCTCCACTGGGGGAGGAGAGAGAGGACAGAAACAATCCTGGCTGAGCCATTAGCTGTGTGGTTTCCTCAAAGACT
TTATAGAAGATTCAAAATGGCCATGCTGACAGTCCTTGTTAAGGTAGCCAGGGCAGGAAGGGATTGTCTTAACAGCTGGCTGTGATTTTAACAA
TGCTTAAAACCTGGGCCACTGGGGCCACAGCAAGGTGAGTGCCCCTCATCTGTCTTGCCATTTTTTTCTTCCTTTCTCTGTTACTGAGTTTGAG
CAGTTATATAGACTGGCCTCAAGCTCTCAATTCTCCTGCTGGAGGATTTGAATGCAGACCCATGCCCCGCTCCACTCTTCCTGTAAACATATGA
AAATAGAGAAATAAAACAAGGTGGCCAAGGCAATACAGCTAGCAGGGAAACACCAGGGTGTAAGCACCCCAATTTCCTATCACATGTGTCCCTC

CTCTTCAAAAATCTCCTTGCTTTTGTATAGCTATTTCCCCCGAAACATTTCCTCCTGATGAGAGTGGAGAAGGCTCAGGAAATTCAGAAAAAAA
GTTGCAAGACACGGAACACTTCTCCCAGATTGTGTCACCAATAAACAGCTCCTGGTGGCAGGACTCTTTGGTCTGCATACAAGTCACGCTGGTG
GGCGACTTTCTGATGGGAAGCTACTCCAGTCTCACTCCTATAAGTAACCTATCACCCACCATACTGCCAATAACTCCAGCGAGCTCTTTGGTCT
GCCAAGTGAGACTTGGGTGGTGAGATATCTTTGGTGTTTCATGACTGCCTTATTTGGCATAGATTTTTTTTTTTTCCTGAGACAGGGCTTCTCT
GTGTAGCCCTGGCTGTCCTGGAATTCACTCTGTAGACCAGGCTGGCCTTGAACTCAGAAATCCACCTGCCTCTGCCTCCCAAGTGCTGGGATTA
AAGGCATGCGCCACCACACCTGGCTTATAGATTTTTTTTTAATGTCTCTCTACAGAAAAGTCATATAAGACTATGAATTACCTCATTGATTCAA
GTTCAGGGTGAAATGAGCAGTGAAGAGAACTGATAAAGGAATGGGGGTCAGAGACCAGTAGTGTCCCACCCCCTCACCCCCTACCACCACCACC
CCAACTTCCTCCTTCCCCACCCCAGCATCTTTTTATTCCAAAGTATTCCTCAACTGCCAAGTGTGTGCCAAGTGCTATCTAGGCTCTGGGGATA
CAACGACCTTTATCATCAGATACATAATGAGAGCCAATACCCAAACATAATGTCAAGCCAGGCGTGGTGGTGCACGTCTTTAATTCCAGTACTC
AAGAGGCAGAGGCATGTGGATCTCTTGTGAGTTCAAAGCTAGCCTGGCCTAGCAAATTCCAGGGTAGTCAGAGATACTTAGTAAGATAGTAAGT
CTCTGTCTCTCTGTCTCTCTGTCTCTCTGTCTCTCTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTGTCTCTGTC
TGTCTGTCTGTCTGCCTGCCTGCCTGTCTGTCTGTCTCTGTCTCTGGTGCTGATGAGCAGTGTAAAACCAGGAAAGGGACAGAGTGCTGCTCTG
CCAACATTTCCCTTACAACTATCTATGCAACTCTCTGTTCAAGAGGGGACACAGTACTGTGTCCTTTTGTTTCTCCATAAAGCTTCCAGGACAG
CCCTTTGCAGTGTTTTGGAAACTATATAAATGCATAACTCTGAGGACAGCGAACCAAAGTGAGCAACGGCAAGGCAAAAAGGAGGCTGCTTTCA
CCGACAATTGACTCATCCACCAGTATTTTATTGACACTCCGCTGTTACACAAGGAGGCAAGGTGCTGAGGGCACACAAAGGAATGCATGCATGT
GAATGTCATAGATATCTTCAGCTCCCGGAAGCAGCAAGATTTGGGAAAACAGAGAAAGAGGGGGGCCAACCATGAGAAAGACCAGCTCAGGAGA
AACAGAGAGGTGCTAAGAGATTTGATATATATTTGGGACTCGGACAGAGGGGCTAAATAACATTATCATTTAACTGTTCGGGGGCATGATGTGC
CAAGGGAGAGCCAGAGAAACAAATTCTTTAGAGGGTTACTAGTGTCACAGTGGCTGAACAAAGCTGGAACACGAGGAATAAAAAAGTCAGGAGA
GGGGGTTAGAATTCTGGCAGGCACGCAGAGTGCGGTCATGATACAGGCACTCCGTCATCTGGAACTATGCTGAATTCTCACAGATAATTCACAG
CAGCCACCTTACAAAGTGAGCGTTGTTGCTGTCATTCCAGTCACAAAGATGAGGACACTGAGGCTTCCAGGTTAAATAGTTGTCCCAGTTGTGT
AACCAGCAAGGACCAGGGGTGGGAGAGGAACAGAGGTTCCCCTGCTCTGAAGTCAGGGTGCTTTCATAACTGTCACCAGGACATATATTTCACA
GAGGGGTCCGGTGGGGATGACGTGGGCATTCATTAGTAAACTTCCAGTGGGTGTCATGGAACAGAGAGATTCGGGTTTGTCGGGTTTGAACAGG
CTACTTGTAAGTCTCAGGGGGGAATATTGGATCCTGTCACATAGAAGCCTCCCCTCCAGCAACAGGTTATTATGTGAAGCGATTTGGTGGGTGG
GGGGGATGATATTATGGATTGAACCCAAGGCTCTGCGCATGCGACACAAGTGGTTTTGAGTTGGGATATTTCTCTGTGGACGGAGCTGACAGAA
GGAGTCACTCTAGGGATGTGTCCCTGAGCGATGGTTCTAGACAGTAACCCGATAGTTGGGGTGGACCTGGGGCCTGACTTCACAGACCATGCCG
AGAAGCTGAGCCAGGACGCGCTCCCGATTCCTCTGCTGGGAACTCTGCATGCCCTGAACCTGCCGTCTTGTGGCCTGCTCCACTTCAGCAGACA
GGTTCCCCTGAGAGCCCATGGCCTGGGGGATGGGGGCGGAGGAGAGAAAGAAAAAAGCAGACACAGAGAAAGGAGGGTCCCAGCATGTAGGAGG
AAGGGTTCAGAGGAAGGCCTGGGAAGCCTTTTCGAAACTATTCCCACCCCACAAAAACATGTAGATACCAAGCAGGTGGGCACAATCCTTACTT
CTGAGACTGACCATAAAACTGTCCCCACCATACAGACTGTGAAGGCCGCCCCACAAGTCTCATGTACCCTTTAAAACCCTCAGACCTTACAGAT
CCCGTCAAAGCTTTACCAATGTGTGGTCCTTGTCAGAGCCTCTTCAGCTCTCAGACACCCTAATTTCTTAGTCACCTGTATACACCTGGCAAGA
GGCACCCACCGATTTGCACCTGGGTGGGGCCATCCCTGTCCCCCTCAACTCACCGCCTGCTGCTTGCTCTGAAACTCCTGCTCCCGCTCCCTGC
GGTATTGCTCCACCTCCATTTGAGCCTCCTCCTTCGCCTGCTTCAGTCGCCGGGCCTTCCCTAGAGGCAGAAGGACAGTGAGTGTACACACACA
CACACAACCAGGTGCGTTAATGGGATCAGTGCCCTCTAGAAAGTTATCCAGTTTCCTGTCAACCAACCAAATGCTAGACTGTAAAACCCACCCG
TTTCTTCTACCCTAATAGCCTCAGTCCCCCATCTGCCCTCATTGTCCTTGGGCTTTTTTTTCCTAAGGACTCAAATGCCCGCTATCCTCTATTC
CTAAATTCTCCTTCCATATTCCTAAGAGAGGAAAGGGGGGCTCACTCTTCCTGGCATCGGCCACCTTCTCCGCTGCCCGCTTCTCAGCCTGGAG
GAGCTGCTGGATACCCTGGGTCTGACTGGCCATTTTTATCACTAGAGAGGATGCTGTTCCGAAGGCGACCGAGGTACCAGACGGCTCCCACCCT
CCAGCGCCTACTCCTCCGGGCCCTTGATGCGGTCCTCCACTCCCACTGGGTCTTAGCGCTCCCGTTTTCACTCAGTCTCCTGCACCGGGAGGGT
GTCTGTCATCCTCACACTGATGACTGGTCCTCCTCTCGAACCTCACTGAGGTAGTACCCGAAACGGCCGCCCGAGGGCAGCAGAGACCAGCCCT
GTGCTGACTACTGCAGCAGGTGCAGGGCCTCTCCGTGTCACCAGGGTCCACAGAGATGGGTCTGGGGGAAGCGGAGGGCAGAGTGTTTGGGTGT
GAGATCTTGATTGGTGGTCTCGAAGGAGACACAAAGGCGATGAGAATGGTGTGGGAAGGTAAGGATGCGCTTGGACACAGTACGCTGGGTTTCA
CTTACACTCCCAACTGTGTCTCCACGCCTCCCTCCGCCCTTCCCCCCTCTTTTCAGCCTCCATCTTCTCTTCAGACTTTCCCCCCAAATCCGAA
CGTCTGCACACATCTCCCTGCTCTGTCCTACGTTTGCCTTGTTAGTGTCTAACCATGTGTTTTTCTTTTTTGATCTACCCATATATTTGGCCTC
ATTGTGGTTGTGTGGTGTGTGTGTGATTATGTGTGTGTGTGAGATTGTGTGTGTGTGTTTCGAGACAGGGATTCTCTCTGTAGTCCTGGCTG
TCGCTGCAGCTCGCCCTATAGACCAGGCCTGCCTCTGCCTCTGCCTCCCTTCGAAAGCTCGCCTCTCATCTTCCGCTTGCAGGAGGACCCTATG
TCGCAAATTGTCTTGTTTCCCCTCCGGAGACCTAATCACAAGTCACCCAGTCCGAGCGTTCGGTACGATTTCCGGGATGGAACACACAGTTCAT
TTCCGCCCGAAACTTGCGCGTGTGCTTGCGCCATTTCCTGCATCCTGGCGCGCCTCCTCCCTCCCCACCTCCCTTCTCCGAGCGTCTTAAGCCC
AGGCCTCCGGCCTCCGTCTCTGAGGGTCCTTGGGGGGGGCGGGGAGCAGGTCTGATGAGTAACCCCTCCCCCCAGGCCCCAGAGGAAGAAGCCT
CTACGTCTGTCTGTCGGGTACATTATATTCCATTTCTAGATCGCTCTTTGAATTTGTGACTTTTCTCCAGATTTGTGGCTAATGAAAATTGCCC
CCATCTGGCCTTACTTGATTTTTGTTGTTGTTGTTGTTTCCCTCCAAAGTTCAGAATTAACTTTTTTTCTTGGGCTCTGGAACCTTAAAACAACT
ATGTATCATTTTCTCAAAAATTACATCAAAAATTAACTCTGTGATTCCCCCCTCCCCACCAGCCCCCAACTCCAACCCCATCCCCACCCTGCGC
CCCAAACTTGCCATCTGCTAAGGGATGAGAGTTTAGAATAGGCCTTATCTCTTGCTGGAGATGCAAGGGGGAGGAAATGGGAGGTAAAGGGAGA
AACGGGGAAGAGCGGAGCTGGGACCTCACCGCTGCCATTTCCCACTTCTTCCTCAGCCCCAGAGTTGTTCCATGGCCTCCGCTTCCCGCCGGCA
CCGCCGAGAGCGACGCTTCCGGCGGTACTTGTCTGCAGGACGGCTGGTGCGAGCCCAGGCTCTCCTCCAGCGACATCCCGGGCTTGATGTGGAC
GCTGGGCAGCCCCCGCCTCTCCACAGGGCCTGCGCCCGCCACGATGCCCCTGCCCTGTGCCTGCTGCTGCGTCTCGGCGCTGACCCTGCCCACC
AGGACCGCCATGGCGACACGGCGCTGCACGCTGCTGCCCGCCAGGGCCCTGATGGTGAGTGGGTCCGTGGGAACTGGTCTTGAGAAGCTGGCCA
GGTCTGAACTAGAAAGAATGCGTGGGAAATAAAGGCCTGGTGTGGTGGCGCAGGTCTTTTGACTCTGGGCAAGCAGAGGCAGGAGAATCTCTCT
AAGTATGTAGCCTACACAGTGAGCTCCAAGACTACAGAGAGACCCTGTATCACACAACAAAATAGTTGGGAAATAAGCTAGTTCTTTGGTCCTT
GGGAACTGTTGAAGATCCCTGGTTGGGATGTGGCCATACCTCTCTAGTAACAGAAAAGCTTATCCTAACATCGCCCAATCAACTAAGGGGTGTG
TGCTAGCGTGGTGTGATTGTTTGTTTGAAGATTTATTTATTTTATGTATATGAGTACACACTATAGCGGTACGGATAGTTGTGAGTCTTCATCT
GGTTGTTCGGAATTGAATTTTAGGGCAACCGCACTCTCTCCTGCCCATATTTATTATTAAATAAGTACACTGTAGCTGACTTCAGGCGTGCC
AGAAGTGGACGTCAGATCTCAAGACAGATGGTTGTGAGCCACCATGTGGTTGCTGGGATTTGAACTCAGGACCTTCAGAAGGGCAGTCAGTGCT
CTTACCCACTGAGCCATCTCACCAGCCCGATTGTTTTTGTTTTTGAGTCAGGGTCTTACCGAGTCTCTCAGGCTGGCCTCTGCATCCCAAGTGC
TGAGGTTGTAGGCTTGTGTCTCCCACACCCAGCCGCATAGCTCGCAACTCTTTCTTTACATTTCCTAGCTTTCAGCTCAGTGACTACTTTGTTT
CTTTGATGGTTTTTTACCTTGCAGTTGACTGCTCAGGTCAGATCCCAGCTCCACTCACCCCACCCCCACCCCCTTAGTTTTGCTTCTCTCCTTG
TAATAATGCCACAAACACCTTACAAAGTATCCATGCTTTGTCACATGATCAGCTGGGCCGGCCAGAGGACTTGAAACTTTTACTTGGTGTTATG
CCGGAGATCTGCTGCTGTGTGTTAGGGATGGACTCATGTCCCTTGACACTTACCAGGCGCCAGACCAGTTTTCTTCATTCTCACCAAAATTCTG
TAACAAAAATCCTACTTAAGCTGGTGGGTGCGGTCTGGAGGCGGAGGCAGTCCGGGCTCTGCAAACTCAAGGCCAGTCTGCTCTACATAGTGAG
TTCCAAGCTAGCCGGAGCCACGGTAGAGAGACGTCAACAAAACATCTCCAGTCAGCATCGGTAGTGGCTCCACAGTGCAGACAGCCTCTTTCTA
GTTCATTTGTGTTACTTACTGGCAGATAGCCAGCCCAGAAACAGCCTCCCCGCCTAGAAAGACAGGAAGTTCACAACACACTCCTGTAATCCCA
GCCCTCGGGAACACCTCAAGGCCAGTCTGGGCAGGGCCTAAGAGTCTCAAAAAGTGAAGGAAAAAAAAGCCATCAAGCAGATCTCACCTAACCT
ACATGGCGGCTATGGTGTGACTAGTTTTATCCCGCTGAGGTTAACACTCAGGGGTTTCCTACCAGAACCCTGCACTCTCCTGCCCCTGCTCCCC
CAGCCTCTTGACCTAGCCCCAGATGGCATACTTCTAGATCAGTTTTGCCAAATCCCACAGTTCTGGAAACAGCGTAGGTGTTGCCTTTGCAGTG
ACAGCAGAAGCAGTTCCCTGGAGAGCAGCTTCCAGACTAGAACTGGAGGAGAGGCCCGTCTGTTAAGAGACGGACGGCCTTCTGCCCACAGATC

AACAACCCTGCTCACTCACTCATCTCCAGCTTGGCCTCTCCTTGATCAAAACCAAAACCAAACCCAAAATCCTCTAACACAAATAAGATGGGCC
TGCGTAGTTGATTTTCTTTAAGCTTAAAGAGAGGAAGGCTGCAGCTGCCTGGCTGAGTTTATTATGGGATACCTGAAGAGAAGAAGTCCCCAGA
CTCCTGAATACATCCTGTGGAATCTTTATATACCACCAGTAGGGCTGTTCCAAGCAGAGTAGCAAGCCGGAAGCAGCCTCACTTCCAGTTTGAG
GTTTTAAGAGCAAAAAAAATGCAATTGTGGCGTATACAGAAAGGCAGCTCTGGACAGCTGCAGCAAGCAAGCTTTGCTTACAGAAGCAGAGAGG
TAGCGGTTAGATGATCAGGCAGTTAACCTTCAGCTCAGAGTCACACTGTACAGGAATTTATGGCTGGACCAGAGACCAGTTTACTCTAAGAGCT
TATAGCCGTTCAGTTCACCCAAGGTTGTTATAGCACTTAAAGTATTCTTAGGTATGCTTTCAGGAGATGTGTACCTAGATAGAGTTCAGCAGCC
GGCTACAGTTTAAGAGGCAGCTCCTGGGTGGTAGCAGTGTGGTGCCTAGGGTTGCCGCTTACGGATCCTGAGGCCTGCACCCTTACCTCGGGAG
CTTGTTCGCCTCCGAAACGGAGGTTGTGATAACACATGAGCCACGGACTGGCTGCAGCTTTGCTACGTAATGATCAGTTCGTGCGGTTCAGTTA
ACTTGGCTGAGGATCTCCTAATGGTGGAATAGGCACCGCCACCGTCGTATTGAATTCTGAGAAACATGTGAAACATTTAACACACCGTGGCGAA
AGTGAGGCCTCCCTGGGGAGTTTCGGGAACTTGTCTGCATGTCACAGTTGAGAGGTTGCAATGGTCCAAAGAGGAAACCATCCCTCCACACTTC
TCCCAACCCCTGGTCTTTCAGACCGTTTCCCGGCACCTGCCAGTCCTGCCACGAGGTGGCGCTCTAATCCCAACTTCATCTCATTCAGCGGCTG
CCCGCTGCTTTGAAGATAGTTGAATGAGATTGATCCATTGAGCAGATTGAGCGATTGAACCTGCAGGAGTCTCCCCTCCACTCTCCTGTTAGGT
CAGAGGGCTGCCCTAGGACACTGAAATGACTGGGGAGCGGGGGGTACCACACACAGTAGGGGGCCAGAAGAGGCTCACATTTTAGGCTTTGTGT
GTGTGTGTGTGTGTGTGTGTGTGAATGTCATGGAAGATCAGTTTCAGCTGTCAGAGGGACCCATCAGTAAAGCATGCGTCAAACAGTGGCCACT
CTGCAAAGAGCAAGCATGAGTGGACACTGGCAGGCAGTATAGTTCTCTCCGTTTTTGGGGGGAGGGAAAAACAAGCTATCATTCTGATGTTAGG
GTCTGGGGTTTAAGGTTTGCTTTGGTCTTCTTTAGGGTTTGGCTTGCTGGTTTGCTTGGTTTTTTGTTTTTTGGGGGGCAGGTTGTTTGTTTTG
TTTTTGTTTGTTTGTTTGTTTTTACATAGATTCTTTCTGTAGGCTTGTCTCTTCTGGAACTCAGTATGTAGATCAGGTTATCCACAAACT
CAGAGACTGATCCGGTCCCTGAGCCTAAGTCCAGGGTTGCAGGTGTGAGCCCGCACCAAGCCTCATCCCCAGCCTTCGTTTTTCTCTCTTTAGT
GGAGACACCACCATGTAGCCCTGGCAGCTCTTGACTGATATTCCTGACCAAGACGCAGGCCTGCACCTCCAGGCTTGTTTTGTGGTTATGTGAC
ACTCACTGTGTGCTGATCCGTCAGCACGGCATAGACAGCATCCACTGCCTCCCTGATCTGCGCAGTGGAGCCAGAGACGGCCTTGTTTCAGAAT
GACTGGGCACAGTTGATGTTCCACCTATCCTTCCAGCCTCGCATTCTGCACACCCACAGACCTGTCACCTCGGCCGCAGTTGTCTTCAGTGACC
CTAGCACAGGTTTCACAAGCCTTACCCCGTCAGGAAGTGGGTTGTGAAAGAGTTTACCAGAGCCAGACATGGTGGCATAGGCCTGCAATCCCAG
CACCCAGGAGGCAGTGACGAGGATTACAAGTTCAAGGCCAGCCTTGGCTACAAGGCCATCCTGAGCTACAAGAAACCCTGCCGGGGTTTGGGGT
GCCAGAAATAAATAGAAGGCAGACAGTAGAGAGGAGCTGTCTGCACTTGGCATCAGGAAGTGTTTTCACACCATGGTACCCTGGTCGTTTAGGT
CTCGAGGGAGGGACACTTGTGTGGGCTCATGTCAGATGCTCAGCTGGATATTCCTCTACTGTGGGATACTTGTCACAGTGTAAGTTATTTCTTA
GAGTCCAAAGTTGTCATGAGTTACCAGGGGTCAGACCCTGATGGGCTGAGCCTGCTTGTTAGAGAGAATTCTCTGTAGTGCTGTTGTGAGATCG
ACTGCAGCCTGGCTCATTGAGCTTTGTTCTTCTAATCTTAAAATTTAGTTTTGTTTTTCTATCTGTGTGTAGAGGTCAGAGGATACAGTTGTTG
GTCCTCAACTCTCATTGTACTTGAGACAGAATTTTTTTTAAGATTTATTTATTTTATTTATGTAAGTACACTGTTGCTGTCTTTAGACACACCA
GAAGAGGGCATCAGATCTCATTACAGATGGTTGTGAGCCACCATGTGGTTGCTGGGATTTGAACTCAGGACCTCTGGAAGAGCAGTCAGTGCTC
TTACCCGCTGAGCCATCTCTCCAGACCATCTTGTTTGTTTTCCAACCATGTCCTCCAGGCTAGCTGGCCCATGAGTCTCTATGGACTCCCAACT
CCACCGCTTATCTTGCAGTGGGAGTATTGGGATTGCAGATGTGGGCTGCTGTGGCTGGGATTGCAGATGTGTGCTGGTATGTGGGATTTCAGGT
GTGATTGCTGGGGATGCGAACCTGAGTCCTCAAATTTCCGTGGCAAGCGCTTTACCAATATTGTGTTCTTCCAGACCCCAAATTAACTCTTTCT
GGTCTTGCTCAAAGACAGTAGCAGTCTTGCTTGATCCCAGCCCTGGGCAACCAGCCATCACAGAACATCACCCGCACACCCCTACACATGAGGC
TCACAGAAGATGGAGGCCATCATCTGGAGTTGCATCAGGGCTGAGTGCGGCCCTTGCCCACAGTGCTGATACGTCAGAGTCATGAGACCACAGG
ACATCAACTTTGTTGGAAAGAGGAGGTGGAGTTACTGTTGAAGGGGACCAGAGGTCAGGCTGTGACACCAGAGCAGGGGCTCCTGGG
CGGTGGGAGGCAGCATCAGTGTTTACGTAGTGGCTGCTGTTCCTGAGGCAGCACCATCTGGAACTGAGAGACCTGAAATCAGGGAGACATTGAT
TTACCATAAGGTTGAGTAAGCAAGGGCCAAAGACACACAGCAGACTTAAAACAGAGGTTCCTGAGAGCTGAGGGAGTCCAGACGCCTAAAAGAG
CTGCTAGGAGCTGCCCCACGGAGGCTGGTGAAACCCCCGAGTTAGACAAAGCAACAGCTGCTTTGTTTCTCACTGGAATAAAGAGATGAGAAAC
ATCTGAACACCAGGGAGGCAGCACAGACTACGATCATGCAGTTCTGAGACTTGCAAATATTTGTAAGTTAGAACAGGAAAGCTGTGAACATGGA
AGAGCTGTCCCTGGACAGGACCGTGTGTCACCTTGTGTGTCATAGCCATGTGGCCTTCTCGGGAGGCTCTGAGAGTCTCAGACCCAACCTTAAG
ACAATAGAATACAAGCAAAATAATGGTGAGTGTCCCCTCGTCCAAGGCCAGCATCACACTGGGCCTGTGGGGAAATGGAGGGCATTAGGGTGTG
TCTGTGTGTGTGTGTGTGTGTTCATGTGCGCGCCGCACCAGCCATTGGGATGGAAAAGAACCCTCTCTCTGTCTAGGGAGCCTGAAATGTTG
GGGTAAAGGTGGGACTACCCAGATAGTTTAAGAGGTCTCCTTAGGGAAAGCCAGAAAGAATCCCTTGAAATGAGCCCCTCGGTGCCTGGAGGGG
GTAGGAAGACAGAGCTTGAATTGGACAGCGGGCTTCCCAGTGCAGCACTGTCGCTCTGGCAGAAGACCCAGGTTCAGTTCCCAGCACCCAGGGG
ATCTGGCCCCTCTCCTGACCTCTGTAAGCATCAGGTACCCACGTGGTGTGTATACATAAACGTTAGGAAAATGCTCAGACACATAAAATCTAAA
AACACATTTTTTTTTTAAAATGAGTTTCAAAAATTCTATCATTAGAGCTCAGAAAGGAAGAGAAATTACCTCAGCTGCTCACTAGGATCTGGAT
GTGTTTAAGGATGGCTTTCACCTGGTGCTCCCCAAAAGAAGAGAGGGCTCTCCAAGCAGTGTGCAGGAGTAGGCTGCTAGGCTTTGACTAGAAC
AACCCTACCTCCAGACACAGAACAGAGGCCTTACAGCATGGCTGCAGTCTGAGAAGAAAGGAGCTGACAGGCCTGCCCGTCCACTTAACTCTGA
AGGCTTTTGTCCTGAGAGAGGGTTGGTTTCAGGTTGTTTGTTTATATGGCTGTTTGGTTGGTTTTTGAGACAGGGTCTCTCTGTGTAGCCATAG
CTGTCCTGAAACTCACTCTGTAGACCAGGCTGGCCTTGAACTCAAAGATCTGCCTGCCTCTGCCTCCTGAGTGCTGGGATTAAAGGCAGGAGGA
AGGATTTTTATGGTAAATCCAGTTCCCAGGTTGTGTGAATGTGAAGTGCTCCCAGTCAGACTCGGAGCCGTACTCACCCTGGCACCCAGTGGCA
TAGCGCACAGGGACAGCACAACCATGAAGGGCTTGGAAGGGCCGAGTTTGGAGTGCAGCCTGGTGAGGTCCCTTCCTTGTTAGATTTGTCCCCA
CCCCCTTTCTAGAAGATGGAGGGCACAGCAGCAAGGAGGTGGCACTGGATCCTGAAGGCCTTGCTTGTTCTGAGTGACACTGGGAATGAGGACC
GGGTCCCTGACAGACTGAAGGGAGCAGGGAGTCAGATCCAGGGCTCATATCCCGAGACAGTGGAACCCTGGGATGTTGTTTGTTTTTACCACCC
AGGATCTCCTAGACTTGGTGAGCAGGGTGCGTGTGCGTTAACATCTGCTTCTAAGTTCTCCCTGCCGTGGTCCTACGCTGCAGACTCTAGAAGG
GAGGGGCCCTGAGACCCAGGAGGAAGGAATTGAGGGATGTGTATCAAAGGCAGGGCACAGAGCAGGCGGTGCAGGCTGAGCGGGCTGAGCCCAA
GGATGAGTATGGCAGCCCAGCTATGCTGAGACAGCGTCTTGGGGACATTTTTATGGCAGCTTTGGGAAGGTTNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NN

CCCTTTTCCTTTCCACCTTCCTCACCAAGAGCGCCTCTCCACACTCCATGCCTCTGCGTCTCCTGTACACTGTCTCATTTTACTCTTTACTTCC
TGACCAGAGCCTTGTCTGTTCAGCTGCATCCGGGACAAAAGGTCTCCTGGCATCACTGCAGACATGATAGCTGACTAGGGGGCGCTTGTCTGTC
CAGAGTCTTTATAACTGCTTGGATTTTTTAAAAAAGCTCTTTTTATGCTTAAAAAAAAAATGTTGAGATAGAGAATTACAGAGTATTCCATTCC
TGTAGAAGCTGACAAGGATAACAATTGACCTTGGGCGGTAATTGTCTCAGTTTAAGCCCCAGACTGGAGACATGGCCCACGGTGTTGCAACAAT
GTTGTGTGTTAACCTTGTAGTTGCAAGTTTTAGATTCTAGATGCAGTTGTTCCTGCCCCTCATCCCCTCACCCCCCCCCAAAAAAAACAAAAC
AGAAAGAAATAGCAAGTTGTTGGGTTTCCTTGGAGGACCAGGGGGAGAGGAGAAAAAGAGAGCGGGATGGAGCAGAAGGGGTGGGGTGAAGGCT
GTTCAGTGGGGGCTGGAGATTCTGTTGGGTCCAGTGATGGCAGACTCCGTCTAGAGCAGTTGTGTTTGGGGCAGGTCCATCAGCGGGAGGAGAC
ATAGACCAGATAGTGTTTCGGCCTATGTCAGCTGCCTTGTCCAGGGCACAGATGTCAGGGTGTGATAGTTGTTCTCTGGATTTCCTACCTGAAG
TCTTTGAATGTGTGTGGATGAGAGGGAGTGCCGTTGGAGGGAAGAGTCAGAGGGGAAGGTGGGGTGCAGTCGCCAGGTGGAGGGATAGGTGCTG
GTCTCGGAGAAGCTGGTGGTTGAGTGGGACCTGGCGTGGCCATCAAGTCTGTCGCCTAAGGCTGAGTTCAAGGGAGGCCGGTATGGGAGGCACC
TGTTCTTGTCCCGTGCTGAGGCCATAAAGGGGGGATTTTTTTTTTTAATTAAAATAACACCAAAGAGATCCAAGTGTAGGACAGGAGTGAAATG
GTGTGTTGTGCTGTGGCCAGCCTAGTCTGGCCAGATTTCATTACAAAGGAAAATAAGGTTTTGTTGGCTGTGTCTTTTGAGAGGTTGAACATAG
AGTTTAAAGAATGTGAGTCAGAGGTCATGAAACCCATCATACCAGAGATGCGCGCTCACCCAGAAGGCCTCGGAGGGCAGCAGGCCTCTTTCCA
GTACTGACTTGACTGAGGTGCCCAGAACCAGGGCATCCTCTGAGAACAGAGACCTCCTGGTCCATGGGGTGAAATCCAGTTGGTCCAGGCCAGAC
TGACCTCAAAGAGAGACACACAAATAGCTGGCCAGAAAAGGGGGTTCACTGCCCCTGAGAGAGTGAAATTTGGGCTACCCACGGGTCTCTTTAT
TCAGAAAGTCTGGCTGGGAGGAGGGAGGTGAGCAGAGTTTCTTATATGGTTGTCTATGGTGCTGAGGTTCCAGCCCCCAAACCTGTCCCTTTTT
CCGTGTGGTCCCTCCTCCCTCTGAGTGGAAGTGCTGTGCTGTTAAAGGTGAGGAGAGACTTACACTTTTGTCATCAAGGAAAGAGTATTTCTTC
TACAGAACTTTGCATATTCGCTTCCCTGTGTGAAAGGGTGCTCCGGCAAACATGATGGCACAAACCTCGCGGGAAGGTGGGCAGGAAGAGAAGA
TGTTAGTGAACATTAAACGCATTGATTTAGGGGCTGGAGAGGCAGCTCAGGGGTCAAGAGACCACAATGCTCCTGCAGAGGACCCAGGTTCAGT
TCCCAGCACCCAGGTTGGGCAGTTCGCAACAGCCTGTACCTGCTCCCCGTGAGAGAGTACCAGGACAGACGGGTATGTAGAGACCCTTGTATTT
TTCTGGCTACTAGTTATATTTTTCTGGTACTTGTTATATTCAAGTACACTATAGCTGTTTTCAGACACCCCAGAAGAGGGCGTCAGATCTCATT
ACAGATGGTTGTATTATTTTGTGAGTAACCTGTTCATGTCTTCATTTATTTCCTTTGGAAATTTTTTCATATTTGTACATATATGAAAATACTT
TTTAAAAAGTATTTAATCCTTAGGGCTGGAGAGAGGGCTCAACAGTTATGAGCACTTGACTGCTCTTCCAGAGCTCCTGAGTTCAATTTCCAGC
AACCACATGGTGGCTCACAACCATCTGTAATGGGATCTGATGCCCTCTTCTGGTGTGTCTGAAGAGAGTGACAGTGTGCTCACATACATAAAGT
AAATAAATACATCTTTGGGGGGGTACTTTAAAATTTATTTCGTAACTTCACTCCAGCTTTAGGAAGGTAGGTGCTGGCAGAGGCCAGGCGAGGA
AATGAGACTCCCAAAGCGGCTCTATTACCCACACATCTCTCTGTTCAGAAAAGTCTGGCTGGGACAGGGAGATGGGACTGGAACTCTCTGTAGA
TCAGACTGTCCTGAAACTTAGAGAGATCCGCCTGCCTCTGCCTCTTCCTACCAATTACTGGAATTAAAGGCCTGTGCCACTATGTC
CGCCCTAATAAAACCATTTTTAAAGATATATTTATTTATTGTATCATTTATTTTATGCATACGAGTACACAGTAGCTGTACAGATGGTTGTAAGC
CATCATGTGGTTGCTGGGAATTGAACTCAGGACCTCTGTTCACTCTGGCCCAAAGATTTATTTATTGTTATATTCAAGTACACTATAGCTGTTT
TCAGACACCCCAGAAGAGGGCGTCAGATCTCATTACAGATGGTTGTGAGCCACCAGGTGGTTGCTGGGATTTGAACTCAAGATCTCTGGAAGAG
CAGTCAGTGCTCTTAACCACTGAGCCATCTCTCCATGAAGGGTTGTCATGCATGCATGCACAGTAAAGCCCAGCAGGCTTGCACATGTTCCGAC
TTAGAACACCCACCCTCGGCAGATATGTGTCCATGTCCACACTCGTGCAAGTTTAAGGCTAAAGGCTTTGGAGACACAGTCTGACAGACAGGGT
AAAGAGAGGTCTGTGTCTCAGCTCACAGTGGAACACTCATTACAGTCATCAAAGAGTGAAACAAACGGCAGGTTCCTGGGGGAAAATAAAAGAT
AAAAAGCCATGAGGAGGGAGAGCTGTTAGTTCACCCCAGCCTGACTCCACAGTGAAACCTGTCTCATAAAAACACCAAGATGAACAGCTAGCTG
CTGCTGTCAGCCTGTGTGGGATGTGTATGCCCCAAGGATTCTGTTAGCTTCAGTTGGATTGTGGTGACCCATAACAAGGTAGGAGAGTCACGAG
GTTGAGACCTAGTCTGCAGTTACAAAATGAGCTCTAGGACACCCTGGGCTGTGAGACCCTCTCACAACACACACACTCACACATACACACAC
ACACACACACACATACCATAGCCAATAAAATAAATCGGGTATTTCAAAAGAAAACAAAAACAAAATGAAGCCAGTTGCCAAGATAGGCAAATAC
CTCTGAGTAAATGGGCATAGTGTGGCCACAGCTCCAATAACTTGCCGTGTGCACAATTGTGAGCAAGGTAGGACTCGAGGTTGCAGCAGAC
TGTTAGCAGTTATGATGTTAAGCTGGATATGTTGGTATACACACATACACACACAAAATAAAAAGACAGAGTTAAATCTTCCATATGAGCCTGG
GCCTACTCAGAACATATAAACACACACATAAGCACACACTATGCACTCACACACTCAAACACACTCTGTACTCTCACATAAATACACTGCATTC
TCACACATAAACTCACTGCCTCACACTCCCATAAATACACACTATGTATTGACACACTCATAAACACACACTGCACTATTGCACTTGCATAAAC
ATACATTGTGCACTCTCACACACAAACTCTGCACTATCACACATAAACATACACTGTGCACACATAAACACATACACTCACATACACACATAAACACT
TTGTTAACATAAACATACTGCATGCTTATACACACATAAACACTCAGCACTCACACACACATAAACACCACACTCACATACACACATAAACACT
ATGCATGCTCACACTCACATAAACACACAGTGTGCTCTCACACGCTCCATACACAGTCACACCCTGCAGTGAGCCCTAGTGGGAAGAAGTTGAA
GGACGGAAGCCAGAAGCAGGTCTGCTAAGTGGGACAGCTCGGGAGGGTTTGTGGCAGATCACAGCAGGAAGCCTGCCTTGCCCTGATGTGGTTT
CAGAGTGGATTGGCACCTTGGCCTGCTGTGTAGGCCCTTCCATCCTGCTGGCAGTTACAGGTCAGCCCTGCCTCTGTGCCAGCCTCCTGGTAAG
TGAGCTAACTTCCTGGAACCAGCAAGGCCTGTGTCCCATTTCCTTCTACTCTAGGAGAGGAAGTAGGGCCCCGGCCCAAATGCTGCCCCAGCCG
CTCGCCTCCCTCTGGCTCCTGATGGAGGCAGGTGGTGGTCCCAGCTGCTGGGCTTCCTTCGGTAGGGTGAAGCGATGGCATCTGGCTCCCCTCA
GTTTACCTGGTGCTCAGGCTCAGGAGCAGGCACCCAAGGTGCTTGGTCCTTCCCTGCCCTTGACCACCATCATTTAGGAGGGACTCACTCTGCG
CTGGCAGCACCTGTACGTCACTGCCACCCTTCCCTCCCCTGGGGAAGGCTGGAACATTCTCCTGAAAACTTTTATTTTACTCAGATTTATTGGG
TAGAAACAGTAAATGTACTACTATGTTTGTGTGTAGTGGTGCAGAACACAGTGTTTTGATATTCTTTATTATTATTAATTTACCATATTTGGAC
TTTTTGAGACAGGATTAATCCTGTAGCCCTGGCTGACCTGCAACTCACTCTGTAGACCAGACTGGCCTTGAACTCTCTACCTCCTGAGCACCTGG
AATTAAAGTGCCACCATGCCTAATGTGATAATCTTAATATGTAATTTTAGATGAGAACAATAGTTTGTAATATGTATATAGTGATAATAGCTTC
AAAATAAAAAATAAAAATAATCAAAAGAGGGCTGAAGAGATGGCTCAGTGGTTAAGAGCACAGATTGCCCTTCCTGAGGTTCTGAGTTCAATTC
TCACCAACCACATGGTTGCTCACAACCATCAGTAACAGGATCTGATGCCCTCTTCTGGTGTGCATGAAGACAGCGACAGTGTACTCACATACAT
AAAATAAATAAAATCTTTTTTTAAAATAGTCAAAGGAATTTGAAGTCGTCCTAGGTGCCAAGGGCAAGAAAACGCGGTTGTAACACTTAGAGCA
AACTGAGATTGTCTGTGGGGAGCAAGTCAGAGCGTTCAAAACTCCACACTCGTGCCTTATGTGATTGTTAGTGGCTGTCGAGTTAAGAAAATCC
AAGATGGCAGCCTCGCGGAGCCCCAGCTGACTGCTCACGGTCTCTGCCCCTAGCTTACACGGACTTCTTCCTGCCGCTGCTGAGTCGTTGCCCA
TCTGCCATGGGGATAAAAAATAAGGATGGAGAGACTCCTGGGCAGATTCTGGGCTGGGGACCCCCCTGGGATTCTGCCGAAGAGGAAGAAGATG
AGGAGGTTTCCAAGGAGCGGGAATGGCGGCAGAAGCTACAAGGCGAGCTGGAGGATGAGTGGCAGGAGGTCATCGGGAGGTTTGAAGGTGAGGA
GCCCATTGCCACCCCCAGCCGCCCTCCCTCCCGCCCCTGCCCTGTGTCCTCTACTCCAGGCCCAATGCATGTGGCCTCTTGATTTTACTCTTTG
TCTTGTAAGTCCGCTAATCATAGCCTCTCTCCGACAACCTCATCCCACCTCCTGAACAGATGATGCCTCCCGGGACACGCAGGAGCCCGAGTCC
TTCTCAGCCTGGTCAGAGCGCCTGGCTCGGGAGCATGCCCAGAAGCAGCGGCAGCAGCTGGAGGCAGAGGGATCCTGCCGACCTCCAAGGGCTG
AGGGCTCCAGTCACAGCTGGCGACAGCACGAGGAGGAACAGCGGCTTTTCCGAGAGCGAGCCCGGGCCAAGGAGAAGGAACTGTGTGAGAGCCG
AGCCAGGAGGGCTCAAGAGGCTCAACGGGACAAAGGGCCAGAGCCTCCCAGGGCTGGGCCCAGGGCAGAACACCCACGAGGGGCAGAGAGGGGC
AGCCTCTGGCGCTTTGGCGATGTGCCCTGGCCCTGCCCTGGTGGAGGGGACCCAGAGGCCATGGCTGCAGCCTTGGTGGCCAGGGGCCCCCCTC
TGGAGGAACAGGGGGCTCTGAAGAGGTACTTGAGAGTCCAACAGGTCCGGTGGCATCCTGACCGCTTCCTGCAGCGATTCCGAAGCCAGATTGA
GACCTGGGAGCTGGGCCGAGTGATGGGAGCTGTGACAGCCCTTTCTCAGGCCCTGAACCGCCACGCAGAAGCCCTCAAGTGACCCTAGGGAATA
AGCAAGAACCTGTGGGGATGTAGCCTCAAGAATAGACGGAAGGAAGCAAGGTCGTGGATGGGGATGGACAAGAAGGGGCAGCTGCGGCACAGAG
AGGAGAGGATATGGGACGGCTAACGTAATGGTTGTGGGGGTGGGGTGGGGGAGGCTCTACCACTGCTCTGGACTGCCATTTCCTAATAAGACTT
GGTTCCACACCTCACTCCAGAGTCTCCTCTGTTTTTTCCATTGCTATGGTTTTCATCACCCACGACATCTCCTTTCCCGCCCAATTGTTGAAAC
CCACAGCTCCCACACACCTGCGGTACAGTCACAGTGCGCTCTCAATGGAGACCAGAAGCCCCTGCCCGCCCTCCTTCAGAAGGCCTGGTTCATC
GTCCAGACCCTGTCAGCTCCCCACCCCACCCCCGCCGGGGTCCTGACAAGGTTGCAGTTGAAGAAAAATGTGAACAAGAGACAGAAAAAGGAAC

AACCCCTCCCTCCATCTCCAACCACATCCTCACCCCTGCTCAGCTCAGGGCTTTCCCTCTGCTGAGTCACTGAATGAGCTGGGTTGGGGGCAGC
AGGGCTAGGGGACCACGAGGACCTGGGAGGATAGAGGATAGAACCAGAGGGGATGGAGGAAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

AGAGAGAAGCTGAAGCTGGCCACCTTAAGGCTGGAGAGCTGAGCCCAGAGCCGAGGACAGACATGTGCACTCTGTGTGGGTTTGAAGATGGTGC
CAGGTGATGAAAGATGAAGAGAAACTGAACCAGATGTCCAAGTTGTTAGGCATACAGTACAGATGTTGATGGAGATACAACTGTGAAGACAGGA
CGAGTACGGTTCGTGCAGAGTCAGGAGCCTCTAAAGAAGAGAATCCTGTTGGTAGCATGGCCACACTCCTCCGTCACTTCTCCCTAATGCTGGT
GTCAAAGGAAGAGCTACCTTCTCCAGAGAGGGCACAGGCGTTGTCTGGTGCCTAAAGAAAACATCTTCAAAGATGAAACAGGGGATGTGCGTAG
ATATTCCACAGCAAGAGGACACTGTGAACCAGATTCACAGAAGAGTCCTTGCTGGGTAGTGAACCACAGAGGGGACCAAGGAGAAGGACATCCT
GACAGGCTCGCTTTTAGAATCCATAACAAACAGGCTCGCTTTTGGAATCCATGACAAACTATGCATTCTATCAACACCTGGCATTTATTGTGGG
GAGGCGTGGGACACTAACAGGCCCCGTGGTCCAGGGCTTTTACATCCCAGGCCACCATTATGCTGGCAGCTCCTTGTTTCCCTCTAACCCCATC
TTGCCTGTGAACCTGAATGGCTTCAGACTTAACAACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTTTCTCTCTCTCTCTTAATAAGAT
TTATTTATTTATTTTATGTATATGAGTACACTGTAGCTGTACAGATGGTTGTGAGCCATCATGTGGTTGCTGGGAATTGAACTCAGGACTTCTG
CTCACTTTGGCCCCACTCACTCAGGCCCGCTTGCTCTGGCCCAAAGATTTATTTAATATTATATGTAAGTACAGTGTAGCTGTCTTTAGACACA
CCAGAAGAGGGCGTCAGATCTCATTACGAATGGTTGTGAGCCACCATGTGGGTGCTGGGATTTGAACTCTGGACCTTCGGAAGAGCAGTCAGTG
CTCTTTCCTGCTGAGCCATCTCTCCAGCCCCAGACTTAACAACTCTTGAGAGTGGATTTAGATCTCATGTACCCAAAGCAGCACATTTGGCTTT
TCCTGCCCACCTACCTAAGGACCCTACCTTAGCTCCCATCCAGCTCCATCACCCAGACCCCTGTTTCTCCTCTTGTTCTTCTGCAAGGCAGCAT
AGACCAGGGAGCCACCTTGTAGACCAGGCTGGCTTCAGACTCACAAAGATCCACCTGCCTCCCAATCACCACCATCCCTCCTCCACCCTGTTCT
ATCACACACACTCACACCTTCCAAAAGGTCCCACTTGAACCGGAAAGATCACAGTTGAATAAAATGTCGATACTTTGTGTCTTCCAAAAGATCA
CAGTTGAATAAAATGGAGATACTTTGTGTCTTCTCACATGGTCTGGCCCTGCCTTCCTCTCCCACTGCATCTGACCTCTTCAAGTGTCTCTGAT
GTGGTCAAGTTCAGTTTCTTGCTGTCCATCAGCATCCCTGGCTTCCTCCCTCCTCCCTACCTATCTGTCACCTGGGCCTTTTCTTCAGTGCTAC
CCTTGCTGAGAGTCACATTACTGAGTGCTGTATCCAAGAGTATTCTCTTCCACTCCCCACGCCACCCTGCCTTGTTATCCCTGTAGGACTGTTT
TACAGATTCATTTTATTTTATGGCGATGCTGGGGATGGTCCCTGGGTCTCACTCACGCTAGGCAAGTGCTCTATCTCTAAGACACATCCCTGCT
CTTTGATGTGTCTTTTCCATCTGGCCTGGCTGGAACATGATCCCTAAGAGTAAAGGATTTACTCTTAGGATTCTTTGGCTCAACTTTGTGCCAC
AGTATACTTCCTGCCTTGAACAAACTTCCTGGTTGGTACTCAGTAAACATGTATTAAAAGCTGTTGGAGGGTGCGGTGAGGTAGGACAATGTCC
AGCTCTAATTTCTGGCTCAGGTAGAAGTTCCATCTAGTATCATGCTTTGTTTGGGGTCAGTAGCTGGATAACACCAGAGACAGGGTAAGCTGTT
TCACAGGAAGGAGTTTATTTGAGAGTCCTTTGAGGGGTATGTGCTTAGATTTGAGGTTACGTTTGAATTGTGATTTGGGTGAAGGTTAAACTTG
GGTAAAATCTGAGGCTAAAAAAAACAGAGACTCACAGTAGTCTTTGACTACTGTCAGTTCAGCCTGGTTTGCAGGCTCCGGAGCTTTCTGTGGCC
CTTCCTGAGAGTGGTTATAGACGATGCACAAGACTCCTAGTCATCAGCCCTCCCCCCCGGGGAAAGTCCCAGACAGCTGTTGGCCTCCCCAAGA
GAGAAACTGAATTTCACACAACCTCTAAAACTGAGATTGAAACCAAAATTGGCCCATGGCAAGGCATATCCGCCAGCGTGCTGCCAGCTCCCGT
GACACAGCTTAGCCAAGGCTTACCCTTCCTTCGTCTGTCTCCATCATCCCCTTATGCACCCTCTCCTTTCCTCTGCCCCTCCAGGTCCCAGCCT
TCTGCTCTGACTCAAATCTAATCCTCTCTCTGTCTCTCTTTCTGTCTCTCTCTGTCTCTGTCTCTGTCTTTCTCTGTCTCCGTCTCTCTGTCTC
TCTCTGCCTCTCTCTCTGCCAATTTTCATTTTAATACAGCTTAGCCAGCGTCTCGGCTACCATCAGTTAAGAGACAAAAGCAACAGGAAGCATA
AAGACTCCCAGAGAAAGAGGAACAAAGAAAAGGAGCCAAAGATGACACAATGACAGAATTAAATTCTGTCTGAGAGAACTCAGTGAAGAGAGCC
TGCTTAGCCTGCTCAGGCTGTGGGTCCCATGGCCAGTTCTGCCAAA

MOUSE SEQUENCE - mRNA

CCGGGTGCATCCTGGCGCGCCTCCTCCCTCCCCACCTCCCTTCTCCGAGCGTCTTAAGCCCAGGCCTCCGGCCTCCGTCTCTGAGGGTCCTTGG
GGGGGGCGGGGAGCAGGTCTGATGAGTAACCCCTCCCCCCAGGCCCCAGAGGAAGAAGCCTCTACGTCTGTCTGTCGGCCCCAGAGTTGTTCCA
TGGCCTCCGCTTCCCGCCGGCACCGCCGAGAGCGACGCTTCCGGCGGTACTTGTCTGCAGGACGGCTGGTGCGAGCCCAGGCTCTCCTCCAGCG
ACATCCCGGGCTTGATGTGGACGCTGGGCAGCCCCCGCCTCTCCACAGGGCCTGCGCCCGCCACGATGCCCCTGCCCTGTGCCTGCTGCTGCGT
CTCGGCGCTGACCCTGCCCACCAGGACCGCCATGGCGACACGGCGCTGCACGCTGCTGCCCGCCAGGGCCCTGATGCTTACACGGACTTCTTCC
TGCCGCTGCTGAGTCGTTGCCCATCTGCCATGGGGATAAAAAATAAGGATGGAGAGACTCCTGGGCAGATTCTGGGCTGGGGACCCCCCTGGGA
TTCTGCCGAAGAGGAAGAAGATGAGGAGGTTTCCAAGGAGCGGGAATGGCGGCAGAAGCTACAAGGCGAGCTGGAGGATGAGTGGCAGGAGGTC
ATCGGGAGGTTTGAAGATGATGCCTCCCGGGACACGCAGGAGCCCGAGTCCTTCTCAGCCTGGTCAGAGCGCCTGGCTCGGGAGCATGCCCAGA
AGCAGCGGCAGCAGCTGGAGGCAGAGGGATCCTGCCGACCTCCAAGGGCTGAGGGCTCCAGTCACAGCTGGCGACAGCACGAGGAGGAACAGCG
GCTTTTCCGAGAGCGAGCCCGGGCCAAGGAGAAGGAACTGTGTGAGAGCCGAGCCAGGAGGGCTCAAGAGGCTCAACGGGACAAAGGGCCAGAG
CCTCCCAGGGCTGGGCCCAGGGCAGAACACCCACGAGGGGCAGAGAGGGGCAGCCTCTGGCGCTTTGGCGATGTGCCCTGGCCCTGCCCTGGTG
GAGGGGACCCAGAGGCCATGGCTGCAGCCTTGGTGGCCAGGGGCCCCCCCTCTGGAGGAACAGGGGGCTCTGAAGAGGTACTTGAGAGTCCAACA
GGTCCGGTGGCATCCTGACCGCTTCCTGCAGCGATTCCGAAGCCAGATTGAGACCTGGGAGCTGGGCCGAGTGATGGGAGCTGTGACAGCCCTT
TCTCAGGCCCTGAACCGCCACGCAGAAGCCCTCAAGTGACCCTAGGGAATAAGCAAGAACCTGTGGGGATGTAGCCTCAAGAATAGACGGAAGG
AAGCAAGGTCGTGGATGGGGATGGACAAGAAGGGGCAGCTGCGGCACAGAGAGGAGAGGATATGGGACGGCTAACGTAATGGTTGTGGGGGTGG
GGTGGGGGAGGCTCTACCACTGCTCTGGACTGCCATTTCCTAATAAGACTTGGTTCCACACCTCAAAAAAAAAAAAAAAAAAAAAAA

MOUSE SEQUENCE - CODING

ATGAGTAACCCCTCCCCCCAGGCCCCAGAGGAAGAAGCCTCTACGTCTGTCTGTCGGCCCCAGAGTTGTTCCATGGCCTCCGCTTCCCGCCGGC
ACCGCCGAGAGCGACGCTTCCGGCGGTACTTGTCTGCAGGACGGCTGGTGCGAGCCCAGGCTCTCCTCCAGCGACATCCCGGGCTTGATGTGGA
CGCTGGGCAGCCCCCGCCTCTCCACAGGGCCTGCGCCCGCCACGATGCCCCTGCCCTGTGCCTGCTGCTGCGTCTCGGCGCTGACCCTGCCCAC
CAGGACCGCCATGGCGACACGGCGCTGCACGCTGCTGCCCGCCAGGGCCCTGATGCTTACACGGACTTCTTCCTGCCGCTGCTGAGTCGTTGCC
CATCTGCCATGGGGATAAAAAATAAGGATGGAGAGACTCCTGGGCAGATTCTGGGCTGGGGACCCCCCTGGGATTCTGCCGAAGAGGAAGAAGA
TGAGGAGGTTTCCAAGGAGCGGGAATGGCGGCAGAAGCTACAAGGCGAGCTGGAGGATGAGTGGCAGGAGGTCATCGGGAGGTTTGAAGATGAT
GCCTCCCGGGACACGCAGGAGCCCGAGTCCTTCTCAGCCTGGTCAGAGCGCCTGGCTCGGGAGCATGCCCAGAAGCAGCGGCAGCAGCTGGAGG
CAGAGGGATCCTGCCGACCTCCAAGGGCTGAGGGCTCCAGTCACAGCTGGCGACAGCACGAGGAGGAACAGCGGCTTTTCCGAGAGCGAGCCCG
GGCCAAGGAGAAGGAACTGTGTGAGAGCCGAGCCAGGAGGGCTCAAGAGGCTCAACGGGACAAAGGGCCAGAGCCTCCCAGGGCTGGGCCCAGG
GCAGAACACCCACGAGGGGCAGAGAGGGGCAGCCTCTGGCGCTTTGGCGATGTGCCCTGGCCCTGCCCTGGTGGAGGGGACCCAGAGGCCATGG
CTGCAGCCTTGGTGGCCAGGGGCCCCCCTCTGGAGGAACAGGGGGCTCTGAAGAGGTACTTGAGAGTCCAACAGGTCCGGTGGCATCCTGACCG
CTTCCTGCAGCGATTCCGAAGCCAGATTGAGACCTGGGAGCTGGGCCGAGTGATGGGAGCTGTGACAGCCCTTTCTCAGGCCCTGAACCGCCAC
GCAGAAGCCCTCAAGTGA

HUMAN SEQUENCE - GENOMIC

TAGTTGTTTGGGGATCTGGGCCTTGGTACAGTATCAAATAACACCAGAAACTACTTTCTGGTTTCAAGGGGGAAAAGAACAACTGTGGAATCAG
ACTGTCACGACGCTAATCCTATGGTAAATCTAAAATCATTAATGAGGCCAGGTGCAGTGGCTCACTCCTGTAATCCCAGCACTTTGGGAGGCCG
AGGTGGGTGGATCACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGCGAAACCCTGTCACTACTAAAAAAAAACAAAAATTAGCCAG
GCATGATGGCACACTGTAGTCCCAGCTACTCGGGGGGTTGAGGCGGGAGAATCGCTTGAACGTGGGAGGCGCAGGTTGCAGTGAGCTGAGATCG
CGCCACTACACTCACAGCCTGAAGGACACAGCGAGACTCCATCTCAAAACAAATAAATAAAAATAAAATAAAATAACTAACATAAGTCGACCAG
ATTTGTGGCATAACAGGAGATACAGCATCACCTATGAAGGATTCTTGCCAAAAATGCTTAACTTCAATCAGATTTTTTCTTTTTTTTTGAGATG
GGAGTCTCACTCTGCCACCCAGGCTGGAGTGTAATGGCACAATCTCAGCTCACTACAACCTCTGCTTCCTGGGTTCAAGCGATTCCCCTGCCTC

AGCCTCCCAAGCAGGTGGGACTATAGGTGTGTGCCACCATGCACGGCTAATTTTTGCATTTTTAGTAGAGAGAGGGTTTCATCCTGTTGGCCAC
ATTGGTCTTAAACTCCTGACCTCAAATAATCCACACGCCTTGGCCTCCCAAACTGCTGAGATTACAGGTGTAAGCCATTGTGCACTTGGCCAGA
ATCCTCAATATTCACACACCACTGGAGCTGTTTTAAAGTTTCCGGCTTTCTCTGCCACATACCCCAAAATTATTAAACTGATATGATTCAAAGT
CAGTATAAAGTAGTAAGAAAAGGGTGGTCTTGTGTTAAGCATCATCCATAGCCCAATTACGAATCCTCCTGTTACATAGGAACTCAACACTCTG
TTACACCACAGCAAACTAAAGCTTCTCCAAAATTAAAGAGACTATTGGCCTACAAGTTTCTTATCCCTCCAACTTGCCACACCCTCACTCTCAG
GTCTCTTTACCTTGGCTTACCTTGACATTGGGCATGTATTTAGAGAAGCGCTCATATTCCTTGCTGATCTGAAAAGCCAACTCCCGAGTGTGAC
ACATCACCAGCACAGACACCTTAGGCAGGAAGTATACGGAGACATATGGTAAATGTAGCTCTTCATTATCCCCTCTAGGGAAGTGACTGTCACA
AAAACACACCTGGGCCGATAATAAATGACTTCAATTCTGTGATCTAAATCATGAACCCCACGCTTGCGACAGAACATCCCCCACAGCTGTCAGG
TTGTCAAGGGTAACAGAGGTCATGTGCTCATGGCTCTGCAAGCATCATGTAGTTAGGACAAAAACACCCTTCCCTTATAGTCCTAACCAAAATC
CCCTCCCCAGCACTCTCCCCAAATATACCTGCCCAGTAACTGGCTCCAGCTGTTGCAGTGTGGCCAAGACAAACACTGCTGTCTTTCCCATGCC
CGACTTGGCCTGGCACAGGACATCCATTCCCAGAATGGCCTGAGGGATGCACTCATGCTGGACTAAAAGTTGGGGGGGGAGGAAGATAAATTAG
ACTTCAGTCTCCAGATAACTCTACCTTTTTCACCATGCCAAGCCCATTTCTTACCACTCAATTCTCAAAGTCTAGTATTTACCTGGTTCTTGCC
AACTTCCAGACCCATTTTACCTCTCTCTGCTCAATTACATTCACCTCAAAATCAGACTCTCCTAATTCCTCCTAGCTTTAGCCTCCTCCAGATC
TAGGCCTTCCCAGTCCTAGTAACAAACCCCTTGCATCTACCAACCGCTCACCTTCAATGATCCTAGCTCTGTCCTTATTTTTCTTAATCTGTAA
CAATTCATGACATTTGAATACCTGCCACAGACCACTTCTCCTGCTTAGGTTGCTATACTTCGGGTCACGTAACTACTACAACCCTGGACAAAAT
GAAGGACTTGGTACCTGACCCAGAAGCCAGTCATCTCTAAACCAGTCATAGAGGTTTCCAGAGACCACAGTTGGCCTGGCCCAACAGAGGGAGA
CTACAGGTCCAAGCAGGACCTTTCTGGAAATTTAAAATTAGAAGTCAAGTGACAAAATTAAAAATAAGCAGACAAGAAAAGCCAGTCACAAGAA
TGAATGGCAGACCTGGAAGTCACTTTTGGATCATTAGCACTTTGGTGCTATCACGAAAGAAAGAATAAGCCTGTATAAGCCTCCTCTATCCAAA
ATTGTTTTTGATACTTATCCCGATTTTTTCTTCCTCACTGTCGCCCCGGCTGGTGCACAGTGGTGCAATCACGGCTCACTGAAGCCTCAACCTT
CACCTGCTTAATTTCTGAACGTTTTGTAGAGACAGGAGTCTCGCTATGTTGCCCAGGCTTCTCTTGCACTTTTGAGCTCAAGTGGCCACCCTCC
TGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCACCTGGCCCTGATCTAGCCTTAAGTATAAACCCTTACCACCACCTGAG
CAACGACAAACACATCTTTGTATTGTACCCTTAAAGAGCCCAATGAGCACTACATGCCCAAGAGAAAATTTACCTTCTGACGGATGCTCAAAGC
CACAGTCGACAATGGCCCGGAGCAACTCTGGCTTGAGCAGGAAGTCACGAAAGCCAGAGCTGTGGATGGAGACATAGGAGCCCTTGACATCCTT
CTTGGCAGGGGCCTCAGCCCCATCTCCCCCAGCTGCTGTCTCCACCTCATCATCTTCATAGTCCAAGAGCTCATTGTCCACATCGTTCTCTGCC
ATAACTGGGCCGGCAGGGGAAGAAGGGAAGGGGGATCTGGATGGGTTCTCGCAAAATAGGTGAAAACAAGGGGTGAAAGAGTAGGGGATTGAGGA
ACAGCAAAGGAAAACAAAGATACTATTTCTAACAGAAGAGCTGGAGGGGGGAAAAAAAAAGCAAGACTTAATCACGAGCACAGCCTTCACCATT
TTTCCATCCCCAGTTCCCACTTTCCCTAAACCAGGAAACTTTTACCTGGAAAGAAAAACAGATACAAAACATAAAAACGAAAAGCAAATATAAC
AGAACAGAAAAAGCAGTACCAGGGAAAGTGGTTAGGACAGAGGTTCCCAACAAGATTAGCAATCACAGTAGCGGAAACCAGAAAAGTTGGAAGG
GGAAGACCAACTTATAAATTCTTGATCTGAAAGTAACAGTGAGGAAATAGAATAGATAATAAAAGGTAAAATATGACTAATAACTTAGTAAAGT
GGAAAATGGAGATGACAAGTAGAGTCCTGAAAAGTCCTCAAAGGAAGACTCCGCTTTCCCTATTATAATCCCACCGTTATGGATGCCTAACTCA
GCAGCCATCAGTCAAGGGTGATAGATGAGGGTCATCACTGCGCAAAGCGCTCACCTTTCGAAAAGAAAACATCATATGGCCGCCGTCCACCTCC
CATAGCTCTCAGCCTCCCACTTCTCAGTATCCTCCCTTCCGCTGTTTAAGCAAGCCTTGTGTAATTAGCATGGGGGGGAGGGGCGGTGCAAGAC
AAATGGCTCGGCCACAAAAAAACAAAATTCATGTCTCCACCCTACAATAAGAAAGCTAATAGGTGACAGAGAAAGGCAATCCCCGCCCAGGCTT
TAACAGGATCTTTACCAAGTGGTCTCACATCACTGTTACGCTACGAAGGTGAGACTCCTTTTGGAGAAACATACAATGACACCAATCGTATCGT
AAACACTTGGAAGGCACTCCAAATTAAGTTGGGCAAGTCAAGGTGAGAAAAATCCAACTGGGCCCAGAAACCAGCTCCTCCTCCCAGTCCCACC
GAGGGCCGAAAAAGAGCTCAAGAAAGAACAAGGAAGGTGAGAAGAGCCCCGCCCTCCGCAAATACCAAGACCAAGGGACGCCGAGCACCGCCTC
TCATTGATGCTGAGGCCTCCAATATGAGAAGAACCCATTGGAAGAAGGGAGCAAAACGAACACAATGGCGCCGAGGACACCATCTTGGATTGGG
TCCCCCCTTAGCTTCCCTTCCTTCCCCCAGGAGCTCTTTGCTCTCGAAAGGGATGCAAGCTAAGGAAATAGCGAACCAACTAGGCCCCAGCGAC
CAGACCATCGCCTGTGAAAAGGGTATCAGGAACCCATGTGACGGGATGGGTGCGGAGAAGCGCAGATGGAAACGGATTGTAGCGAAGGCCAAAG
CTTACCTAAACAGGGAGAGCGCGTATGGCGGCAGCAACAGCGACGAAGGAGGGAAATCTGCCTTCACTTCCGGTTGCAGGCTTCCCTCTACTCC
AGCCTCCCGCCTTCTTGGCTGCAAGAGCGCAGGCGCAAGGGACCGGAAACAGGGCCTTCCGCGGTTATACAGATCCGTGCGCTCCAGGCTTGCC
TTTGGAAAATGCCTGTCTGAAATTTGTTTTAAAACCGTTTCTAACTTCACTGCTACCTCCAGTAACAAAAGATATAAAGGAAACTAACGTCTCC
CCCCCACTGTTATCTTTATTCTCTTATCCTACTCCTCTCCATGCCCCTCATCTCTTCGTTTAGGTTTTTGCCACGCAGGTCTTCTCTGTAGGCA
CCCCTCCGTGGATGCGCGAGGAACGAGTGTGGCGAAGGCTGCGAGTTCCCACGGGGTCCTTGGCCCGGTAGTGAAGGTGACCTGAGGACTGCTG
GGCACGCACTAGGAACCGGCAGGCCCTAGCTGAGGGGAGGGAGGAGGGAAGTCTCAGGGAACTGGATTGCTCGGGGGTGTTTCCCGACTCTTTC
CCAGTCGTGGGGCTGGTGGGCGGTATTTTCCCAAAAGGATGCTGTCCGAGGTAGCTGATGCCCTAGGGCCAGTGAGTCAGGAAGGTGTTCTGAA
TCCGAGCGGGAAGACGGGGTCTGGATTCGGCCCCAAGTGTTAATAGTAGGGCTTGAGGGTTATACTACATTCCATTAATACTGTTTTTGTTTTT
GTTTTGAGACAGAGTCTCGCCCTGTCGCCCAGGCGGGAGTGCAATGTCCTGATCTCGGCTCACTGCAACCGCTGCTTCCCGGGTTCAAGCGATT
CTCCTGCCTCAGCCTCCCGAGTAGCTAGGATTACAGGCGCCCGCCACCACGCCCAGCAAATTTTTGTTTTTTTTAGTAGAGACGGGGCTTCACCC
ATGTATGACCTCAGGTGATCCACCCACTTCGGCCTCCCAGAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCCGGCCCATTAATACTGTTAAT
TCGAGCAGAATGTTCTTGGCCCCGCCCCAACAGCCCCATTGTTCAACCTGGATTTTTTTCCTGAATGAAACATTTGCTATCCCCGTCTTTGAGA
TGGGGAGCCACAAAAGTAAGACCTGATGTCCTGCTGTGTAATAAAACAACAAACGTTTGGCCCTCTCCCTGTTAACATACTTAATCATTTAATA
CTAAGGAGTAGGTACCGTTATTCTCATCTTATTGACAGAAGCGAAGCAAAGCAACATATCTCAAGCAGTACGGCTGGTGAGGTTACAGCCAGGA
TGCAAACATCTCTCATTCTCTATTGTATTCTGCCTCCCTGCTCAAAGAATCTGGTTAGTAAATACACTGCAGGTTACCTTATTGGTTCAAATTC
TTGGTGAAGTAAGCTTGTCTTCAGTGACAAATGAAGTAACTAATTCAAGAATGGTGTCATAGAAGGTATTTTCCCAAGTATCATTTAATTTATT
CAAAAGTATTTATCAACTGCCTCCCTTGTGCCACATGTTGTCCTAGGATCTGGGGACACAACGGTGAACAGCCCTGTTCTCACAGTGTTTACAT
TACAGGAAAGAAAACACATAAACACAAATATAATGTCAAGTATCGATAAGTGGTCAGGGTGCAGTGGCTCAGGCCTGTAACCCAACCCTTGAGG
AAGCCGAGCCCGAAGGATTGCTTGAGCCCAGGAGTTTCAGACCAGCCTGGGCAAGTGAGACCCCATCTCTACAAAAAATTTTAAAATTAGCAAG
GCATAGTGGCACTCGCCCGTAATCCCAGCTACTCAGGAGGCTGAAGTGGGAGGATCATTTGAGTCCAGGGGGTCAAGGCTGCCGTGAGCTGGAA
CTCCAGCCTGGGCAACACAGCAGGACCTTGTCTCAAAAAACCAGTAGCAGTAAGTGCTATGAAGAAATGCAAGGTAAAGGGCAAAGAGCACT
TGCTCCTACACTCCAGCTTTTCTCTACAGTTGCGATCTATAGTCCTCAGATTCCCAAATGAGGAACCATGTTTCTCACTTTAGAGAAATAATAA
AGTACTACTTGTTCTTGTTTCTCCAAGAAGTTTCAAAGGATAGCCATTTGGGCTGTTTAGGGAATATGTAAACAAAAAACAAGAAAGTGACTGA
AGGCCAGGCACAGTGGCTCACACCTCTAATCTCAGCACTTTGGGAGGCCAAGGCAGGTGGATCACTTGAGGTCAGGAGTTTGAGACCAGCCTGA
CCAACATGGCGAAACCCCATCTCTACTAAAAATACAAAAAATAGCCAGGCGTGGTGGCACACACCCATAATTCCAGCAACTTGGGAGGCTGAGG
CAGGAGAATCGCTTGAACCTGGGAGGCAGAGGTTGCAATGAGCTGAGATCACGCCATTGTATTCCAGCCTGGGCAACAAGAGCAAAACTCCATC
TCAAAAAAAAAAAAAACAAAGTGACTGAAAATGAGAAATGATGAGGCAAAAGGAGGCTGCTTCAACTCACCAATTTATTTGCCAATAATTATTT
TATTGATACTTTTTTTATTGTTACAATGGGAAAGTAAGGTGTCAAGGATATAGAAAGGAAGGGCATGCATATGAGGGAACACAGTATCATTTTA
GATCTTAGAAAGCAATGAGCATCTGATAAGTCTTTGGGGAAATAGGAAAGGAGGAAAATCTAATAAAGACAAAGATCAGCAAAAGAAAAACAAA
GAGAGGCTACAAAATGCAGTTATCTACCTGGAATTATAAGAGAGGGGCTAAATGTAGTCATCTCCTCTTTTTGGAGATCAGAAGGTCTCTGGGA
AAAGAGAAGAACCAATTTTTCAGAAAATAACTAGGGTCACAGAATGAACAAGTGGAATTAGAGAGCCAGTGATGGACGTGAGGAAACAGCTGTG
TAGGTTTTGACCAGTGAGCAGGTGGTGGTAATAGTATCACAGGGTTGCTACTTACTGAATCACTGCTACAACATGCAAGGAACTGTGCTAGACT
TTACAGAATGATTCCTAATCATTGAAGCAACCCTCACAAGGTAGGCATTATTATCATCCCAGTTTCACAGAGGAGGACATCGAGGCTACCAAGT
TAAGTAGCTTGTCCTGGTTTCACAGCCAGCAAGTGACAGGGTCAAGAGAGGGACCCACATCGGCCAGACACTGAAGTCAGGATGTTTTCCACAT

TCCTACTTCCCCATATTACAAATTTCACAGAGGGTTTAGGTGAGAATGACTTGGAAGTTTACAAAGTCCCAGTGAGGGTTAAAGAACAACAAGG
AGATTCAGATGTGAGCAGGATATTTATAAGTGTCACAGGAAAATTATTGGATCCTGCCTCCCAGGATTTCTAGGGGATGGAAAGAAGACAGGGA
TTATGGTGGGAGGTGATTTTGATTGGAGGATTTCTTTGAGGGAGGGAACTGGCAGAAGGAGTCAGGCCCTACGGTGGCCCTAGGCAGAAATCCG
GTAGTTGGGGTGGACCTGGGGCCTGACGTCGCAGACCATGCCAAGAAGCTGGGCCAGGACACGCTCTCGGTTTCTCTGCTGGGAGCTCTGCATG
CCCTGCACCTGGCGCCTTGTAGCCTGCTCCACCTCAGCAGACAGGTTCCCCTGGGAGCCCATGGCCTGGGGGGTAGGGAGAGGGGTGGAAGAGA
GAAAGGGAAAAGCAGAAACAGACAAGGGTCCAGGCATATGAGGGGAAAGATCCTGAAACAAAGCCTAGAAGAAAGGCCCTCTCAGAAACCACCC
CCATCCCACAGAAATATCCCAACACCAAAGAGATCAACACAGTCCCCTTTCCCCTTAGACCTAACATGCAACTTCATCCTAAAACAGACCGTAA
TATCCCCACCACCTCACCATCCATGACCATAAAACTCTACCCTCCACCACAAATGTTAATCATACTCCACATAGATGTTATACTTTACACAGAC
TGTGGCATTCCGCCCACAAGCTCTATGTGGCCTTCAAAACTCCCAGACTCTCCTACATATCATCACAAAGTTTCACCAATGTTGTGGTCCCTGC
CAGGGTCCCCTCAGCCTCAGCCCTCTGCCACCATATTTTCTTGTTGAGTCACCCTTACACACCTCACTAGATGCACCCACCAACTTGCAGTGGG
GTCTCATCCCGACTCTGCCTCAACTCACCGCCTGCTGCTTGCTCTGGAATTCGTGCTCTCGCTCTCTGCGGTATTGCTCCACCTCCATCTGTGC
CTCCTCCTTTGCCTGCTTCAGTCGCCGGGCCTTCCCTGGAGGCAGAAGAAAGGACAGTGAGTGGGGATGGACCCACACACACACAATGTAATAG
CAGGAGTCAGTCCCTTCCAGAAAGTTATACAGCCTTCTCTCAGCCAACCAGGTGCCAGATTCTAATATCCATCCATTTCTTCCCTCCTAACCAG
CCTCCAGACCCTAGCTGTCTTCCCGCCAGCCTTGGGTTTTCCCAAAATGTTTGCTGTCCCCCACCCCCAATTTTCTTTCCAAACTCCTAAGGGA
GGAAAGAGGAGACTCACTCTTTCTGGCATCTGCCACCTTCTCAGCTGCCCGCTTCTCAGCTTGCAGAAGCTGCTGGATACCTTGGGACTGACTG
GCCATTTCTGTTGTTATGGCCGATGCTGTTTTGAATGCTGTCAAAGTACCAGATGGCTCCCACCCCCCACCGCTTACTTCTCCTCCTCCAGCTC
GTTGCTGCAGTCCTCCACTACCCCTGGGTCTTAGTGCTCCCCTGCTCACTCAGCCTCCTGCACCGAGTGTCTCTCCCAATCTCATCCTCCTATT
GATGACTGGTCCTCCTCTCCAGCACTTCTTGCTCAGGCAGTACCCAAAGGGGCCGCCTGGGAGCAGCAGAGACCAGGCCCAAAGCTGCGGGCTT
ACAACAGGTTAGCCATCCCAGTCGGAAAGGTCTAGGGATGAGGCAGGGGCGGAGACGGGGGAGTACTGAGGTGAGAGAAGGAGAACTTGATTGG
TGGTAACAGAGGAAGCATAAAGGGTTGTGAATGCGGTGAAAAGGTAAGGATGTCATCATGCAACCTGTGTTGGGAAAAGAGCATTCTGGGCTTA
ATTCTAAACTAACTCTCTACCTTTCTCTCTCTCTCCACCATCCCGCCCCCTCCCCTGCCTCCCGTTGTTAACATCTCCATCTTTTTCTACATAT
TTCTCAAGTCCAAATTTTTGCATCTCACTTGCCCCATCCTACGATAGTCTTCTTCCGTCTTTTGTCTGTATTTTTTCTTTTTTTTGATCTGTCC
CTGTTGTTGTCCCACTGTGGTTTTTGTTTTTGTTTTCCATGTTTAATGTGATTTTTATCCTGTCTTTATCTCCTCTATTTTCTCTGTCTTCTCA
TCTTTTCGTCCATCACTGAACCATCTCCTCTCTCTGCCAAGTTAGAGGAGGCGGGGAAAAACCTCCAAATAACTCTCTTTTCTCCCTCCCCTCC
CCTCGCCTCCTTTTCCTCGCCTCCAGTCCAGTCTTCTGGTTTCAGACGGCCCCTTTAATTTAAGTTCCCTAGTTTCCCCTGGGAGATCTGGCCA
AGAACTACCCGGTCGGGGCGGAACGACATCCGGTAACGCCCCTCACAGTTCACTTCCGTCCTCCACCTGCGTCTCTGCTTGCGCCATTTCCTCC
AGCCTGGAGTGTCTCCGCCCTTCCCGCCTCCCGTCTCCGAGCTTCTTAAACACAGGCCTTGGGCCTACGGCTCTGGGGGTACTTGGGGGGGCGG
GGGCAGGTCTGATGAGTAACCCCTCCCCCCAGGTTCCAGAGGAAGAAGCCTCCACATCTGTCTGCCGGGTACATGATATTCAATTTCTAGATCA
TTATTGGAGATTATCTGTGACTTTTTAAAACTCAGATTTCTGCTGATAAAAATTTTCCCCATCCGGCCCTGTTGGGTTTTTTTAAAGTTCTTTG
TTAAAAATTAAAAATTTACCTGGGCTCCTGAGCCTTAAACCAATTATTTACCCTTTTCTCGAATTTTACATTAAAAAAATTAAACCTCTGATCC
TATCACCCCCCTCAAAAAAAATTTTTTTTCAAATCTATCATCTGATAAAGGATCAGGGTTAGGTTAGGCCTCATCTCTTGCTGAAGATATTAAA
AAAAGACGGAACCAAAGGGAGAAACAACAGGGGATGTCAGAGATGGAGGGAGAAGGACCAGCCAAGGCTGAAGTCCTGACTGCTGCCTTTTTC
CTTCCCCAGCCCAAGAGTTCCATGGCCTCCACTTCCCGCCGCCAACGCCGAGAACGTCGCTTTCGTCGTTACTTGTCTGCAGGACGGCTGGTCC
GGGCCCAGGCCCTCCTCCAGCGACACCCAGGCCTCGATGTAGATGCTGGGCAGCCCCCACCACTGCACCGGGCCTGTGCCCGCCACGATGCCCC
TGCCCTGTGCCTGCTGCTTCGGCTCGGGGCTGACCCTGCCCACCAGGACCGCCATGGGGACACGGCACTGCATGCTGCTGCCCGCCAGGGCCCA
GATGGTGAGTCTGCTCAGTGGGGAACAAGGTCATAAGCAGCTGACCAGACCTGAAATGAAAGCCAACCAATAGTTGAGAAATAAGCTGGTTATT
TGGTCATCAGGACCTAGGGAAGGAGTTAACCAAGTTGGCATGTGGCTGTCATTTGTCCCTTTACATTACTGAGCTACCATTGTCTGAAGAACCC
AACATTCCCCAAAGATCAACTGGTCTTCAAATTTCACATCTGTTTAGATTAGTAGCTACTTTGTTTCTTTGACAGATTGTTTGCTCGTAGCCAAA
AAGTAGCATAGAAGGTAGGCTCTGGAGTTAGATTGCCTGGATTCAAACCCCAGCTCCAAATCCCAGCTCCACACTTCATAGCTACGTATTCTTG
GACAGGTTACTTGAGGCTTAGTTTGCCCATGTGTAAAAATTAAAATAATAACAACCTTTGCTATGTGCCAGACATTTCTTATAAAGTAACACAT
TTAATCCTCACAACAATCTTAGGAGGTGAGTACTGATATTATCCCCCATTTCCCAGCTGAGGAAACAGGGCATAGAGAAGTCATTTGCCAGAGT
TACAGTTATTCACTGGTAGAGCAGAGATTATAACCCAGATGGACTAGATAGAGTGTCCATGCTTTTAACAGCTACATTGTCCTGTGTTATACAT
TATAGCATTGTACATTGATTGTGCCCATGTTCAGAGTACCCATGTTGTGCCATATATGTTTTGAGAATCAACTGACATAGTACATAATTAGAGT
ACCTGGCACACACGATAAGCACTTGGTATATGCTGGCGATTGTTGTTCCTGTTTCTCTGTTTTTTGTTTTTGTTTTTGTTTTTTATGAAGTTTC
ACTCTTCTTGCCCAGGCTGGAATGCAATGGTGCGATCCTGGCTCACTGCAACCTCTACCTCCCAGGTTCAAGTGATTCTCATGCGTCAGCCTCC
CAAGTAGCTAGGATTACAGGCGCATGCCACCACGCCCAGCTAATTTTTATATTTTTAGAAGAGATGGGTTTTCGCCATGTTGGACAAGCTGATC
TCGAATGCCTGACCTCAGGTGATCCACCAACCTCAGCCTCTCAAAGTGCTGGGATTACAGGTGTGAGCCACCACACCTGGCCTTGTTCCTGTTT
TTGTTATCAACAGGTCCATACTCCCTTAACCACAATTCTAAACTCAAAAACACTCTGAGAACCAACATTTTTCATCAGGCTGCCACCAAAATTC
ATTTGGTGACAGAAACCTAATCTGAACTAAAGTAAGACTATTATTTATTTTCATCCTACTGATGTCAATATTCATACATTTCCCTGCAGAAACA
CTCATGTGTTTGGTTCTTGGGCTGCCTAGGCCCTCCTGGGCTACCTAATATAGAGTGAGTGTACTTTTAGGTCAGCCCTATCAAGTCCCAAAAA
CATTTGAATTCTGCAAAACCTTTGGCACTGAAGGATTCAAATGGGGAACCTGGTGATATTATAATAGTGGTGGAGGCCAGGTGCGGTGGGTCAT
GCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGTCAGATCACGAGGTCAGGAGTTCGAGACCAGCCTGACCAACATAGTGAAACCCCCATCT
GTACTAAAAATACAAAAATTAGCCAGGCATGGTGGCACACACCTGTAGTCTCAGCTACTTGGGAGGCTGAGGCAGGAGAATCACTTGAACCCGG
AAGACAGAGGTTGTGGTGAGCCGAGATTGCACTACTGCATTCCAACCTGGGCAACACAGCAAGACTCCGTCTCAAAAAAAAAAAAAAGAGTGGT
GGAAGCAGCTCTTTATAGGTAGAGCCCTGCTTACTAGAATAAAAGCTGAAACCTTCTTTCCCCATCTAGAGATTTCCTTCTGGAGTAAGAACAT
TACAGGAAAACCTCTAGATCCAGATGAACAACCCTAACATCCCCCAGCTCAAGTATAGACAGAAGGCCCCTCCCCCAAACTCCCCCAAATGGT
CAAAAAACCCCCTATTTAAAAATTTCCTTTAACGTACCTGAGATAGGCTAGCATATTCAGATTTGTTTCTTGTTGTTTTTACTTAAAACAGAGT
AGGTTTACTGAGTGCAGGCATCTAACTTGACAGCTCATATTGTAAGAGGCAGGACCCTGGAAGGCAAAAGAGCAGATTACCCCGAAGCAGACCT
GCATCCAGACCCCAGCTCTGCCATCAACAGGGACATGCAGCTTACCTCTGTGAGCCCAATTTGCCTCGCAAAAATGGGAGTTTTGTTTTTTGTT
TTGTTTTGTTTTTTTTGAGATGGAGTTTCCCTGTTGTTGCCCAGGCTAGAGTGCAATGGCGCGATTTCAGCCCACCTCAACCTCTGCCTCCTGGG
TTCAAGAGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCATGCACCATCACGCCCGGCTAATTTTGTATTTTTGGTAGAGACGG
TTTCTCCGTGTTGGTCAGGCTGGTCTCAAACTCCCGACCTCAGGTGACCTGCCAGCCTAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCA
CCGCGCTCAGCCAAAATGCCCCTGATAGTGTGGTAGGGATTTCCTTTATTGTTTGTTTGCTTGTTTGTTTTGAGACAGGGTCTCATTCTGTCTC
CCAGCCTGGAGTGCAGTGGTGCAATCATGGCTCACTGCAGCCTCTACCTCGTGGGCTCAAGCAGTCCTCCCACCTCAGCCTCCCTAGTAGCTGG
GACTACAAGCACACACCACCATGCCCAGCTAATTGTTTGTATTTTTGGTAGAGACTGTTTTGCTATGTTATCCAGGCTGTTCTGCATCTCCTGA
GTTCAAACAGTCTGCCCACCTCGGCTTCCCAAAGTGCCGGGACTAGAGGCGTGAGCCACCACACCCAACTCCATTGTATTGAATTTAAGAAGC
TGGTGAGACTGATATTATCCCATTTACAGATGAGGAAAGCAGGGCCCAAAAGGTTCGGGAACTTGTCTGAAATCTCACAGCTCTCAGGTCATTG
TCTTCCAAAGGGGGACCCAAGCTCAGTGCCTTCACTCCCAGACCCTGGTGTCCTCTCTGGCCTTATTTACTCCTGGTCCTCTGCCAGCCCTGCC
ACCAGATGGCCTTCTAACTCCTTGGTTGAAAGGCCCATCTCATTCAGCTTCCAGCTTCCTTTTTCTTTTCCTTTTGAGACGGAGTCTTGCTTTG
TCGCCCAGGCTGGAGTGCAGTGGCATGATCTCGGCTCACTATAACTTCTGCTTCCTGGGTTCAAGCGATTCTCCTGCTTCAGCCTCCCAAGTAG
CTGAGATTACAGGCACACACCACCATGCCCAGCTAATTTTTTTATTTTTATTTATTAATTTTTAAATTTTTATTTGTTTATTTATTTTTGAGAC
GGAGTCTCCCTCTGTTCCCCAGGCTGGAGTGCAGTGGCAGTATCTTGACTCACTGCAACCTCCGCCTCCTGGGTTCAAGTGATTCTCCTTCCTC
AGCCTCCTGAGTAGCCGGGACTACAGGAGCCTGCCACCATGCCCGACTAACTTTTGTATTTTTAATAGAGATGGGGTTTCACCATGTTGGCCAG

ACTGCTCTCGAACTCCTGACCTTAGATGATCCACCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCATGCCCGACCTAATT
TTTGTGTTTTTAGTAGAGATGGGGTTTCAACATGTTGGCCAGGCTGGTCTCAAACTCCTGACCTCAAGTGATCCACCCACCTCAGCCTCCCAAA
ATGTTGGGATTATAGGCATGAGCCACCGTGCCCATCCCACAGAATGTCTTTTGGTTTTGTTTTTGTTTTCTGTTTTGTTTTGTTTTGTTTGAAA
AGGAGTCTCATTCTGTCGCCCAGGCTGGAGTGCAGTGGCACAATCTCGGCTCACTGCAACCTCCACCTCCCAGGTTCAAGAGATTCTCCTGCCT
CAGCCTCCCAAGTAGCTGGGACTATAGGCGTAGGGACTGTAGGCGTATGCCACCACGCCTGGCTAATTTTTTGTATTTTTAGTAGACACGGGGT
TTCACCATGTTAGCCAGGATGGTCTCGATCTCTTGACCTTGTGATCTGCTCACCTCAGCCTCCCAAAGTGTTGGGATTACAGGCGTGAGCCACA
GCGCCTGGCCAAAATGTTTTTATGTTTATTTTTCTTAGTATGAAACTCCAGCGTATTAAAGAGCATTGAGAACGGTTGATCTGGTAAATCGCTA
TAAAGGCGGCATTTCTTTTTTTTTTTTTTTTTTTTTTTTTTGGCGAAGTGGGGGATGGAGTCTCATTCTGTCGCCCAAGCTGGAGTGCAGTAGT
GTGATCTCGGCTCACTGCAAGCTCCGCTTCCCAGGTTCAAGCCATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCGCCCGCCACC
ACGCCCAGCTAATTTTTTGTATTTTTAGTAGAGACAGGGTTTCACTGTGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCATGATCCGCCCGCC
TTGGCCTCCCAAAATGCTGGGATTAGAGGCGTGAGCCACCGCGCCAGGCCTAAAGGGGGCATTTCTAATACTGGAGAAAGGTGAACTTTTTTTT
TTTTTTTTTCCGAGACAGAGTCTCGCTGTGTCACCCAGGCTGGAGTGCAATGGCGCAATCTCAGCTTGCTACAACCTCCGCCTCCCGGGTTCAA
GCAATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGCACCTGCCATCATGCCCAGCTAATTTTTGTATTTTTGTAGAGATGGGGGTTTCACCGTG
TTGGCCAGGCTGGTCTTAAACTCCTGTCCTGACCTGAGGTGATCCACCCACCTCAGCTTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGT
GCCTGACCAGGTGAACTATTTTATAAATAATATTGGAACATTTGGCTCATCTAGGGAAAAACAAGAGTCCCACCTCACACCTAATCAAAAAGTA
AATTCCAGCAGATTAAATACCTGAATATGACAGGAAGGTACACACCAAATTCATGGGACAGATGGCCTGGGGAGGAATGAAACTTGGAAGGCGG
TATCACGGTAAACTACCTTTATCTGTGATGATTTTATTTCCTTAAAATAAATTATACTACAAACATGACAGTACATTAACAAACCCTGTGGTAG
GAATGGGGTTGTGTATTGTATTATACTTTGTATTTTTGAGAGTTTTTTAATTTCTTTTTTGTTGTTGTTGAGACAGAGTCTCACTCTGTCACCC
AGGCTGGAGTCCAGTCGCGCAATCTTGGCTCACTGCAACCTCTGCCTCCCGGGTTCAAGCAGTTCTCTGCCTCAGCCTCCCAAGTAGCTGGGAT
TACAGGCATCCGCCACCACGTCAGGCTAATTTTTGTATTTTTAGTGGAGACGGGGTTTCACCATCTTGGCCAGACTGGTCTTGAACTCCTGACC
TCATGATCCACCCACCTTGGGCTCCCAGAGTGCTGGGATTACAGGCATGAGCCACCGCGCCTGGCCGAGTTTTTTAATTTCTAAAAATAAAAAT
GAGTATACATCTAAAGTAGTAGAAGAAAATGCAGAGAATGTTTTATAATCTTAAAATAGAGCCTTCCTAAGAGTGAAGTGAAATAAAAAGTCAG
AAAATAATATATTGATATAGATTTAACTACATGAAAATTTTAGGCCGGGTGCGGTAGCTCACACCTGTAATCCCACACTTTGGGATGCCAAGGT
AGGCAGATCACTTGAGCCAGGAGTTCAAGACCAGCCTGAACAACACAGTGAGACCTGGTCTGTACAAAAAATACAAAATTAGCCAGGCGTGGTG
GTACGTGGCTGTCGTCCTGTAGTCCCAGTTACTCAGGAGGCTGAGGTGGGAGGATCGCTTGAGCCCAGGTGGGGCAGAGTTTGCAGTGAGCAAG
ATCATGCCACCGCACTGCAGCCTGGGCAACAGGGTGAGACCTTGTCTCAAAAAGAAAAAAAAAGCTTTTTTAAAGATAGATAGAAGAAAATGTT
TGCAATATGTATAACACATACAGTATATAGAACCCTCATATCAATATATATAATTTCCAAAGAAAAAGTGGATAAAGAATATGAGCAATTCATT
CACAAAAAATACAAATAGCCAAAAGACATGAAAAAGAAAAAAACATTGTTAATAAAATAATTTTTTAATCTATCCAACTGGCAAAATTAAAAGG
GTTGATGATATTCAATTTTGGTAAAGGAAGACATAGGCACACTTGTATATTGGCACAAACTTATTGAGAGCAGTTTGACCAAATTGCGCATGTC
CTTTGACTCAGAAATTCCACTTATGAAAATCTACCCCCACAGAAAGACTGTAAGATACTCATGAGGCTGAACATTTTTTGAAACAAAGTCTATC
GATATTGGGGTAAGGAGATTTGTTTTTGTACACACAGTGGAACACTAATTATAAAGTCGTCAAAAAGTATGAGGTAGACTGTATATATTCCTGTG
GAAAAATATAAATGAGATGTTAAATGAAAGAAGCAAGTTGCCAAGCAATATTTGTAGTATGGTTACATATCTCCAAATAAATGTGTCATATGTA
TGCTTTTAGGTACACCAAGGTGGGACTGGAAGGGATCACAGTACACTGTTAATAGTTATCAAATTTGTTCGTCCTTCTTTAAAAAGAAAATTTC
AACTTAATTATATCCCTTTCACATTAAAATGTCAAATAAAATTGGGGGAAAAGCCACCTACAGCCCCACCACCCATAGGCTAGAATTTTTACAT
ATTTTTTGCCAGTCTATTTTTTTTCTTTTTTTTTTTTTTTTTTGAGATGGGAGTCTCCCTCTGTTGCCCAGGCTGGAGTGCACTGGCATGATC
TCAGCTCACTGCAACCTCTGCCTTCCAGGTTCAAGTGATTCTCCTGACTCAGCCTCCCAAGTAGCTGGGATTACAGGCACATGCTACCACGCCT
GGCTAATTTTTGTATTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCCGCCTCAGC
CTCCCAAAGTGCTGGGATTACAGGCCATGAGCCACCACGCCCGGCCTCTTTTTTTCCAACCATAGGATTTGGTCTCTTGTTTTAGACAGTTATT
ATCTGATCCTCTCTCTCTCTCTCTTTTTTTTTTTTTTTTTTTTTTTTTTGAGATAGAGTCTCACCCTGTCACCCAGGCTGGAATGCAGAGGCGCGA
TCTCGGCTCACTGCAACCTCCGCCTCCCAGGTTCAAGCAGTTCTCTGCCTCAACCTCCCAAGTAGCTGGGATTACAGGCGTCAGCCACCACGCC
TGGCTAATTTTATATATAATATAAAATATAATTATATATATATTTTGTTTGTTTGTTTTAGTAAAGACGGGTTTTCACCATCTTGGCCAGGCTG
GTATTGAACTCCTGACCTTGTGATCCATTGTCCCCCCCCCCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGTGCCTGGCCACATC
TGATCCTCTCTACAGTTTTGTAGCCAGCTTTTTTCAAACACATGCCTCAGTTGTAGTGGCTGTTTAATATTATGTTTTTATAGTTGGAGGCCCT
ACTCCTTAAAACCTATGAATGTAAACCTCCCATGCAAGCCTGAGCACTCACCATGCTCACCACCTGAGCTCAGGTGGGGAACAAGCGAATGAGA
GACAGGACCAGGTACTTTCTGGGTGGGACAAGTTGAGAGGGTCTGTGACAGGTCACAGCAGCACTAGGGAGAAGTGCCCCCCCCACCAACCCTG
ATGTGATTTGGGTAGGGATGGTGGGCCTTCGCCAGCCACACCTGGGCCATTCTGTCTTCTTGCCTTCCTGGCCTTGCCTTCCCCTATTCCAGCT
TTCTGCCAGGTAAACAGTACTTTCCAGCACTACCAAATAAAGATTTAAGGACTGCTAGCCCATTTCCTCTTACCCCGGGGAAAGAAAGTAGGTC
CACAGGAAGGAAGGCTGCCTCCCTCCCCTTCTTCTATCCCCCAAGTGAAAGAGGTGGTTGGTGGCCACAGCAGGTGGGCCTGGCCAGGATGCCT
GGGTTGGCAGTGAAGGAAGTAGCATGGCACTCAGCTAACCTTGGGCCAGATGCAGCAAGGTTGGGACTGAAGAAAAGGGGAGTTCAGGAACGTC
GGTTCCTCTCCTGTTTTCTCTCAGCCCATGGGTGAGACCCTCTGTCACACTCCACTCCCTTTCCCCTGCCCTAGGTCAGCAGTCATTTGGAAAG
AGCTTGCTCTGCCGCCGGCCATAGTTGTTGCCGGTTCACCTCCCCACCCCTCTCCCATCATCCCCTGGTAAGGCTGGCTGAGAGAAATTCCCCT
GAAAACATTTATTTTACTCAGTTTATTGATGATAAGTGATAATAAAAGATAAGTATTACATATTTGTGTATTTATTAATGGCCCAGAGTAGAGCATT
CAGATATTTTCCCAGTCTGATATATGGTTTCAGGTGAGAAAATAAGGGATTTATATAGTGACAATATTTTTAAGTGAAAAGTGGAATACATAGT
CAAAGAATTTGGGCACTGCCTTGGTGGCTGGAGGCAGGTCAGAAAATGTCAGTTGGCATGGTAGAACTTCTAGGATGCTGAAATAGTTTGTGGA
GACACAAGTAAGAATTTTTTTTTTTTTTTTTTTGAGACGGAGTCTTGCTCTGTCACCTAGGCTGGAGTGCAGTGGCACGATCTCGGCTTACTACA
AGCTCCACCTCCCGGGTTCACATCATTCTCCTGCCTCAGCCTGCCGAGTAGCTGGGACTGCAGGCGCCCGCCACCAGGCCTGGCTAATTTTTTG
TATTTTTTAGTAGAGATGGGATTTCACCATGTTAGCCAGGATGGTCTTGATCTCCTGACCTCGTGATCCGCCCGCCTCGGACTCCCAAAGTGCT
GGGATTACAGGCGTGAGCCACCGCGCCTGGCCGAGAATATTTTAAACTACCACACTTACCATGCATGTGGTAAACTATCAGTCTGTATTTATCA
GTGATGGTTATTTCCTAATACCCAGGAGGCATCCATGTGAGCCACCCTTCCATTGCTTTAAGACCAAGGGAGCGAGTGACCAGCAGGATTCAAG
ATGGCAGCTCTGCCGAGGAGTGGGAGTCCCAGCTAACTTCTGCTCCCTGCTCTCCCACCAACAGCCTACACCGATTTCTTCCTCCCGCTGCTAA
GCCGCTGTCCCTCCGCCATGGGAATAAAGAATAAGGATGGGGAGACCCCTGGCCAAATTTTGGGCTGGGGACCCCCCTGGGATTCTGCTGAAGA
GGAGGAAGAAGATGATGCCTCCAAGGAGCGGGAATGGAGACAGAAGCTCCAGGGTGAGCTGGAGGACGAGTGGCAGGAAGTCATGGGGAGGTTT
GAAGGTGAGAAGTCCACTGCTATCCACAGCTGCCCTTCCCCACTGGCTGCTTTCCATCTGCATGAATGCGTCACACTAGGCTCCTCTGCCCCCT
CCTCTGTGCTTCCCTGCTTCTTGGGGCCCATCACCTTCTCACAGCCTCTCTCCAACTACCCCCATCCCACCCTCCCAAACAGGTGATGCCTCCC
ATGAAACCCAGGAACCTGAGTCCTTCTCAGCCTGGTCAGATCGCCTGGCCCGGGAACATGCCCAGAAGTGCCAGCAGCAGCAGCGAGAAGCAGA
GGGATCCTGTCGACCCCCACGTGCTGAGGGCTCCAGCCAGAGCTGGCGACAGCAGGAGGAGGAGCAGCGGCTCTTCAGGGAGCGAGCCCGGGCC
AAGGAGGAAGAGCTGCGTGAGAGCCGAGCCAGGAGGGCGCAGGAGGCTCTAGGGGACCGAGAACCCAAGCCAACCAGGGCCGGGCCCAGGGAAG
AGCACCCCAGAGGAGCGGGGAGGGGCAGCCTCTGGCGATTTGGTGATGTGCCCTGGCCCTGCCCTGGGGGAGGGGACCCAGAGGCCATGGCTGC
AGCCCTGGTGGCCAGGGGCCCCCCTTTGGAGGAACAGGGGGCTCTGAGGAGGTACTTGAGGGTCCAGCAGGTCCGCTGGCACCCTGACCGCTTC
CTGCAGCGATTCCGAAGCCAGATTGAGACCTGGGAGCTGGGCCGTGTGATGGGAGCAGTGACAGCCCTTTCTCAGGCCCTGAATCGCCATGCAG
AGGCCCTCAAGTGACCCTAGGGAAGAAGCAAGAAACTTCGGGGCTGCAGCCTCAGGATGAGGCAGAAGGAAGGGTAAGGGAAAGGATGGGGACC
ACAAGGAAGAGCCAGGTGCTGCTCAGCAGAGGATATGGGTGGGAGCGAAAGTTGTAACAAGTGGGGGTGGGGGGTGCGGGCCGCCACCACTGCT
CCTTGACTCTGCCGTTTCCTAATAAGACCTGGTTCCACATCTCACTCCCAGTGTCTCCTCTGTCTTTTTCCATTGCTGTGGTTTTCATCACCCA

TGACATCTCCTTTCCCGCCCCGCCTGCTGAAACCCACAGCTCCCACACACCTGCAACACACACGCACACGCTAACACGGGCTCTGAGCTGGAGG
CAAGAAGCCTCTGCATGCCCCCTCAGTTCAGCCCTAAGAAGGCCCAGTTTGCCATCCAGTCTCACTCCACTCCCTACACTGGGGTCTTGTCCAC
CCTGCAATCTGTGGCTGGAGAAATAGATGCGAACAGAGGCAAAAAGGGGAACAAAACCAGTTTCCCTCCCCTCCCTGGCTCCCCAAGCTGAACC
ACATCCTCCTCCCCACTTAACACCCCCTTCCCCCAACACAGGGCTTTCCCTTTGCTGAGTCACTGAATGAGCGAGTTGGGGGTAGCCGGCGCTG
GGGGGCCATGAGGAGGCTGGGGGAGGATGGGGAATACAAGCAGAATGGCTGGAGGAAGAGCCCTGTGGGGGAGTGGAATTTCAGTTGCTAAAAT
TAGGAGCAGGGGAAGGAGGTGGAAAGAGCAAAATTATGTAACATGGGTTGTCTGTTCTTGGGCAACTGGAGCTCCACACCCAAAGCCAGCCAGG
CTGCTGGCTCCATCCATCTCTGCCCTCTAGCTTGTCAGTTGTATCTCTCTTCCTCCAGGGCCCCAATCCTCATCTCCGCCATTCAGCTGCTGCC
CCATCCTAAACCTGAGTTCATCTCTGGGCAGCCCAGGCATGGCCTTCCCTATAAACATTTCCTTTTCCAAGAACCAGTAGTTGAAGTCCTGAGA
GGTGGAGGGAGAGTCTGGGATTCCCACGGAGGAGAGAGGGGGGCTCCCTGGAAACTAAGATAGGTAGACCCCACTACCATCGCCCAGGACACAA
CTGGGAACTTGGCAAAAGAAAGGACAGGGCTGCAAGGAGAGTACAGACATGTGCTGGTGAGTGCACTGTCTGCATAGTTACACCAGAGCATCT
TATCAATCAGAAACTTATCTTTCAGGTTTTGAGCCCAGTTCTCTACAGGAGAATCCCAGGAGTGGAAGTGGAAGGCAGTAGAAGACAGGGAGGG
CACGCCTCTGGGAACACGGGAACATGGGTGGGCATGAGATCCTTGAATAAGACAGCCTGAAGTTCGGAAGAGACCAAGGCCTCTGAAGGACCAG
GCAGATGTTCAGGGTGCAGGAGGGGGAAGGGCTGGTGAGAAAGATCCTGTGAGAGGAAGCTGCTGTGATTCAGAGAAGAGACTTCAAGCTGTGT
GTGACCCTGGCGTCCGGTTCCTCTCACAGGCTGGAGCTTTTCGGAAGTGGCATGCAAAGAGTCCAGGTTTGGCCTTGGGGGGAGTTGGGGTTAG
GATCCCTAAGCTGGAGGTTGAGAAGTAAATTACAGAAAACTCTGGTGACCAAATTTGCTCCTCCACCCAGGAGATTTCTCACTGGTTTTTAAGC
ACATCATTTCCCCTTCTGCAAGAGTTACATAAAACCAAAGCAAAATAAGCCCTGAAACCTGGGCCCACCGGACCACAGTCTTTTCAACGTCCCT
TCCTGGTGTCTGGCCCCCAGCCCTGGTGGGGGTTCCCCTGAGATAAGGGCTGTTCACTTTCTCTGACCACATGGTTTCCGCTTCTGTGTCTCTT
GTTTCCTAGGCTGATAAAAATACTGAGCCCTAGAGGCCCTGGCTTCCTCTGACCCCTTGGGGCAGGCAGCAGGCATCCTGTCCAGCATGGTGGG
GGCAGGGACAGGGGCCAGGGATTCCCAAGGGGTGACTCAGTGCCTGCCATGAAACAGTGGGTAGGTGGAAGTGTATCTCTGCTCTCTAGAGCTG
GCACCAGGAGTTGAGTCTCAGTGGAGGATGCATTGGGATTCAATTGGAGGAACAGGCCTGGAAAAGAATAATGAGATTGAAGAGGGTCAGTTTG
AGGACTCAGGTTGGGGCAGGTTTGGATTAAGTTAGGAAAAGGATCTGGGAGGGACTCTGTTCAGTGTAGGTCAACTGAGCATTATGTAGCCCAA
AGATAAATTTAAACCCTGCTTCAAGCTTACAATCTAGTGGGGAGGCAGACCCATACCTAATTAACTGATTCAAGGCATGATGAGTAAACTTTAA
GATGATTACAGAAAGAGGGGAGATTAAGTCCATTTGAAAGCATCCAGGGAGCCTCTGAGGAGACAGCATTTGAACTTGCTCTAATGAATGGGTT
CACTAGGTGGAGGTGGATGGAAAGGTTCCATAGGCGAATAACACGTCTTGAGCGAGCCTGACAAGTCAGAAAATGCAGTATGTTCTGGGAAAGG
AGCGTCCTGAGGGAGAAGAAGCACAGGTGTGAGGGAACATGTGATGAAGAAAGGACCACAGAAAGTCAAGGTCAGAGATTGGACTGCATCCTGT
GGGCAGTGGTCCAGGTGACGATGAAAAAGAGGGAGAACAGGTGAGTGCTGCAGTACAGACAAGGAGTAAGAAAACGGCCATCATCTTGTGAATT
AATACCTACTGTGTGTTAACCAGCCCTTTTCCTAACACCACAAATCCTCTCAACGTCTGTCCAAAAGGTGGGTGGTGGTGGCCAGGCACCTCAC
TCCTGTAATCACAGCACTTTGGGAGGCCAAGGTGGGAGCACTTTGGGAGGATCACTTGAGGCCAGGAGTTCGAGACCAGCCTGGCCAACATGGT
GAAACCCCGTCTCTACTAAAAATATAAAAACTAGCTGGGTGTGGTGTTGGGCACCTGTAATCCCAGCTACTCAGGTGTCTGAGGCACAAGAATC
ACTTGAACCCGGGAGGCAGAGGTTGCAGTGAGCTGAGATCATGCCTCTGCTCTCCAGTCTGGGTGACAGAGCAAGACTCTGTATCCAAAAAAAA
AAAAAATTATTAAGCACCTATTAGGAGCAGGGCACTGCTTGACAATAGGTATAAATAATAAAGTCACTGCCTTCATAGAACTTGCAGTCTAATG
AGACAGTATACAAATAATAACTATACATTATAGTTATAATGTATAGGTATGCCTGCTTAGGGTAATAAAGTGCTCAATGAAGGTTTGAGGTACC
AGCATGACTCTCAGGTGGAGATTTCCAGAAAGCAGGTCTGGAGCTCAAGAGAAGTTGGGTCTGGAGGAACAGATTTGGGCATCATTCCCTTCCC
AGTAGAGGTTGAGCCTTTGAGTGGACAGGATCTTCAAGGGAGGGGGCGGAGTGACCAGAAGAGCCCTGAGCATGATCAAAGGAAGAGAACCAAT
AAAGGAGAGGTTGGGGAGCAGTCAGAGAAGCAGGGCACGGGGGGCGGGGGATGCCAAGCAGAGACAGGGCAGCCATGTTTGAGGCTTCAAAGAG
GTCTAGTAAATGAGGGTTGAAAAGATTGTTGGGTTCAGGAACTAGACGATTACAAATTTTGAGAAAACCGTTTCCATTTAATAGAGGGGCAGAA
ATCACTTTACATAGGTTGAGGAATGAGTGGGAGGTGAGGAAAAGGAGGTGGTGGGCATGAGGTCAGAATGGTGAACACAGAATAACTGAGAATC
ATCTCTTAGTTCTACCCACAGATTTTACAGTTGAGGGAAATTTTACCAGTTCCTGAAAAAGTGGTTCGTTAAGGGGGCTAGTCTTTTGAGACAT
CACACGAAAACGGAAGGTGAGATAGACTGGACATTTGAGGGAGAAATATTACCAAGGAAGGATCACTACTTC

HUMAN SEQUENCE - mRNA
CCGAGCTTCTTAAACACAGGCCTTGGGCTACGGCTCTGGGGGTACTTGGGGGGGCGGGGGCAGGTCTGATGAGTAACCCCTCCCCCCAGGTTCC
AGAGGAAGAAGCCTCCACATCTGTCTGCCGGCCCAAGAGTTCCATGGCCTCCACTTCCCGCCGCCAACGCCGAGAACGTCGCTTTCGTCGTTAC
TTGTCTGCAGGACGGCTGGTCCGGGCCCAGGCCCTCCTCCAGCGACACCCAGGCCTCGATGTAGATGCTGGGCAGCCCCCACCACTGCACCGGG
CCTGTGCCCGCCACGATGCCCCTGCCCTGTGCCTGCTGCTTCGGCTCGGGGCTGACCCTGCCCACCAGGACCGCCATGGGGACACGGCACTGCA
TGCTGCTGCCCGCCAGGGCCCAGATGCCTACACCGATTTCTTCCTCCCGCTGCTAAGCCGCTGTCCCTCTGCCATGGGAATAAAGAATAAGGAT
GGGGAGACCCCTGGCCAAATTTTGGGCTGGGGACCCCCCTGGGATTCTGCTGAAGAGGAGGAAGAAGATGATGCCTCCAAGGAGCGGGAATGGA
GACAGAAGCTCCAGGGTGAGCTGGAGGACGAGTGGCAGGAAGTCATGGGGAGGTTTGAAGGTGATGCCTCCCATGAAACCCAGGAACCTGAGTC
CTTCTCAGCCTGGTCAGATCGCCTGGCCCGGGAACATGCCCAGAAGTGCCAGCAGCAGCAGCGAGAAGCAGAGGGATCCTGTCGACCCCCACGT
GCTGAGGGCTCCAGCCAGAGCTGGCGACACGAGGAGGAGGAGCAGCGGCTCTTCAGGGAGCGAGCCCGGGCCAAGGAGGAAGAGCTGCGTGAGA
GCCGAGCCAGGAGGGCGCAGGAGGCTCTAGGGGACCGAGAACCCAAGCCAACCAGGGCCGGGCCCAGGGAAGAGCACCCCAGAGGAGCGGGGAG
GGGCAGCCTCTGGCGATTTGGTGATGTGCCCTGGCCCTGCCCTGGGGGAGGGGACCCAGAGGCCATGGCTGCAGCCCTGGTGGCCAGGGGCCCC
CCTTTGGAGGAACAGGGGGCTCTGAGGAGGTACTTGAGGGTCCAGCAGGTCCGCTGGCACCCTGACCGCTTCCTGCAGCGATTCCGAAGCCAGA
TTGAGACCTGGGAGCTGGGCCGTGTGATGGGAGCAGTGACAGCCCTTTCTCAGGCCCTGAATCGCCATGCAGAGGCCCTCAAGTGACCCTAGGG
AAGAAGCAAGAAACTTCGGGGCTGCAGCCTCAGGATGAGGCAGAAGGAAGGGTAAGGGAAAGGATGGGGACCACAAGGAAGAGCCAGGTGCTGC
TCAGCAGAGGATATGGGTGGGAGCGAAAGTTGTAACAAGTGGGGGTGGGGGGTGCGGGCCGCCACCACTGCTCCTTGACTCTGCCGTTTCCTAA
TAAGACCTGGTTCCACATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAA

HUMAN SEQUENCE - CODING
ATGAGTAACCCCTCCCCCCAGGTTCCAGAGGAAGAAGCCTCCACATCTGTCTGCCGGCCCAAGAGTTCCATGGCCTCCACTTCCCGCCGCCAAC
GCCGAGAACGTCGCTTTCGTCGTTACTTGTCTGCAGGACGGCTGGTCCGGGCCCAGGCCCTCCTCCAGCGACACCCAGGCCTCGATGTAGATGC
TGGGCAGCCCCCACCACTGCACCGGGCCTGTGCCCGCCACGATGCCCCTGCCCTGTGCCTGCTGCTTCGGCTCGGGGCTGACCCTGCCCACCAG
GACCGCCATGGGGACACGGCACTGCATGCTGCCCGCCAGGGCCCAGATGCCTACACCGATTTCTTCCTCCCGCTGCTAAGCCGCTGTCCCT
CTGCCATGGGAATAAAGAATAAGGATGGGGAGACCCCTGGCCAAATTTTGGGCTGGGGACCCCCCTGGGATTCTGCTGAAGAGGAGGAAGAAGA
TGATGCCTCCAAGGAGCGGGAATGGAGACAGAAGCTCCAGGGTGAGCTGGAGGACGAGTGGCAGGAAGTCATGGGGAGGTTTGAAGGTGATGCC
TCCCATGAAACCCAGGAACCTGAGTCCTTCTCAGCCTGGTCAGATCGCCTGGCCCGGGAACATGCCCAGAAGTGCCAGCAGCAGCAGCGAGAAG
CAGAGGGATCCTGTCGACCCCCACGTGCTGAGGGCTCCAGCCAGAGCTGGCGACACGAGGAGGAGGAGCAGCGGCTCTTCAGGGAGCGAGCCCG
GGCCAAGGAGGAAGAGCTGCGTGAGAGCCGAGCCAGGAGGGCGCAGGAGGCTCTAGGGGACCGAGAACCCAAGCCAACCAGGGCCGGGCCCAGG
GAAGAGCACCCCAGAGGAGCGGGGAGGGGCAGCCTCTGGCGATTTGGTGATGTGCCCTGGCCCTGCCCTGGGGGAGGGGACCCAGAGGCCATGG
CTGCAGCCCTGGTGGCCAGGGGCCCCCCTTTGGAGGAACAGGGGGCTCTGAGGAGGTACTTGAGGGTCCAGCAGGTCCGCTGGCACCCTGACCG
CTTCCTGCAGCGATTCCGAAGCCAGATTGAGACCTGGGAGCTGGGCCGTGTGATGGGAGCAGTGACAGCCCTTTCTCAGGCCCTGAATCGCCAT
GCAGAGGCCCTCAAGTGA

TABLE 23

MOUSE NOMENCLATURE
ICSGNM Flt3
Celera mCG12743

HUMAN NOMENCLATURE
HGNC FLT3
Celera hCG96642

MOUSE SEQUENCE - GENOMIC
GCTCTGTACAAGGTCATTTTCCAGACAAGGCCAGCCACCTGTGTTCAGGGACACTCTCCAGACAGAGACAGGGAAGCCCCACTAAGAAAGGGAG
ACCCCATTTTGCTCTATCTGGTCTTGGTGGACTGCTACCATCATAGCGAGGTTCTCCAACAGCTTTCCTGCTCAGTCACATATACTCAGATGTC
ACCGGCTTTTCTCAGACCACATTGCAAGGGAACCCATCTGTGTATCTGACTTCGTTCTTCATGGACTGTAGCTGCCTATGGATGGGGCAGTCCT
GACGTCTATCCTTGGAGTCCCAGAACCTGGTACTAGACACGTGCCTAATGAATCCTTGTTCTGGGAATGTCCTTAGTGAGTCATGACAGTGGGC
ACTGTACTCATGCTGGGTGCCTAGGGATTGGGATGCCCGTGAGGGCTTCAGCGTAACAGCCACACATAGGTGATGCCACATAGTGTGCAGGCTT
TCGTCACGTGAGCAAGCCGAGGAAGCAGAGCAGTATAGAGGCTCACGGGGAGGCCTTGCTCATGTATATCACTCACCACATGGCTCTTTTACTT
GTACCTGGAGGAGATTATCTTACAGAGAGCCTGTCCCTGGGTCCTCAGCAAGAGGAGTATGTCCTCTCAGTTTCTGAGTCATCTCTCTAGCTCT
AAGATCTCATCCCTAATGCAAATCCTGTCTACAAAAGATGATGGGCTCTGTCTGAGTTCTTCTTCTGTTTCTTTTTTGGACTAGCCCAAACCAC
AGCTCAACTTTGTCTATGCTTTCTTTCATTAAACTGACAAATTTTTAAAAAAATCATGTATGGTAGGTCTCTATGTTGATCAGCCTGGTCTACA
AAGGAGGTTCTAAGTTAGATGGGGCTAGAACCATATATATATGTATATATATGTGTGTGTGTGTGTGTGTGTATGTATATATGTATGT
ATCACATATATATCATAACATGATATATGTGATATATGTATATATGATATATGTGTGTATATATGATATATATAATCCTTATACAAATATCAAT
ATCTAATTTGTAAATTTCCTTTTTACAGAAAAAGGGTTTATAAACGCTACCAGCTCGCAAGAAGAGTATGAAATTGACCCGTACGAAAAGTTCT
GCTTCTCAGTCAGGTTTAAAGCGTACCCACGAATCCGATGCANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCAATTCCCCGGCCCCCATCCCCGGTATCGAGCACCTCTGTCCCCGA
GCTATAGACTTAGCCCCCTCAGTCTGTGAGTTGATTTATTGTTGAGTCAGAAAACTGAAGACTGAAAGCAAACCGCACCTGTGAGGAGAGCCAC
TTTTCCTTCTCTTCCGGGACTAAAGCCTGCTGCATGAAAACAGAATCCTGGCAGTTTTCTGTCAAGAGACTGTGGTTTCCTGTCTAAGTGCTGC
GCTCTGACAGTACCGGGCGGCTAAGTGCGGTTGTGAGTGATGGGGGAGTCGGACCTCCTTGCCAACTGAAAACATCTGCCCTAGGTGTACTGAT
TTATGTTCTCAAACACAAATGCAGAAATAGCCCGAGCATAAGTCACAAAAGAGGATCTCCTTCTCCTGGGGGTTTGTTCAACTCTGGTCTAGAG
TGTTCTGGAGGCGAACGTCTCATTCCTTCTTTGAAAAGCAAAAGCCTGCTTTCCCCGGTTTCTTCTGTTAACTATGGTGCCTCTTCTGTCTTTC
TCTCCTTTACAGATTTTAGTTTTAGCCATGTGTATGTGGGTGACAGTCTGTGTGTGTGTGACTGCGGTGTCCCTGGAGGCCAGAGGCTTGGGAT
TCCCCTGGAGTTGGAGTCACAGTGGCTGTGAGCTGTCCCACGTGGGTACTGGGAACCCAGCTCAAGTCCTCTGCAACGGCACTGTGGGTTTGCT
CTTATTCGCTGCACCAAATCTGCAGCACAGCTCATGGAGAAACACTGTCTCAACAACAACAACAACAGACAGACAAAAAACCAAACACACAAAA
CAGGAATGTAGAACATCTCATTAATAATTTTCACACTGAGGCTATGCTTCAATGATTGTTTGAGGTATGAGAGTTACAGAGATCAACGAATGCA
CTCAGCTTTCCCCTCTCTTTACTTCATATACATATCTGCAGGGGACTTAAAAGGAAAACGAGGCAGCTGTCTGTTGCTCTGGTCACTGTGACAA
GAGCTGACCTCTTTCTACCCTCTACGCTGCTCCTAGTGTTTCTTTCATGATAGTATGCTTTTTTTTTAAAAAATTCCCATAAGTGATTTATAATT
GGTCTTTGAGAAAGTGTGTGTGTGTGTGTGTGTGCACATCTATCTGTATCTCTCTCTCTGTATGTCTGTGTTTATTCTCTCTCTCTCTCTCT
CTCTCTCTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTAGGATGGATTCCCTGGATGGAACTGGACTTATAG
GCAGTTGTGAACCACCTCATGTAGGTGCTAGGAATCGAACTCAGGTCTTCTGGAAGAGCAATGCTTGCTTTAAACCCCTGAGTTCTCTCTCTAC
CTCTAAATTTGCCTAGGGGGGTAGGGGTGTCTTGTGGGGTGTATATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCGCGCGC
GCGCGCACCCATGTGCAGAGGCCAGATCAACATCCTCTGTTGTGCTCCACTGTTTTTTAAAACAATACTTCATGTAATGCTTATGAGTGTTTTG
CCTGCATGTCTATCTATGCACGTGTGTCTGCTGGGGCATCAGGTCACTTGGAAATGGAGTTATGGGTGGTTGTAAGCCACCATGTGGATCCTAC
GAATCATGCTTTTAACCTCTGACTCATCTTTCTAACCCTCTCAACTATTTTTTTTTTTTTGAGACAGACTCTCTCATTGAACTTGGATCTTACC
ATTTTGGCTAGACTGGCTGACCTCCATACCCCAGCACTAAGGCTACAGAGCACGCACTAAGGCTACTGCACTCAACTTTTACATGGTGGGGATC
TGAATTCAGATTCTCCGGCTATACTACAAGCTTTATATACAGAGCCACCCTCTCTGCTTCCTATTTGTATTATTTATTTATTTATTTATTTATT
TATTTATTTATTTATTTATTTATTGGTGGGGAGAAGGGGACAGTTTGAGAAAGGGTTTCTTTCTCTCTGTATCCCTGGCTGTCCTGGAACTTAT
TATGTAGACCCGACTGGACCTTACACTCACTGAGATCTTCCTGCCTCTGCTTCCTGAGTGCATCAAGCTATGCACCACCACCACACCAGGCTCG
CATAAGCTCTTATCCAGAACTTGAATTCCAGAAGGAGAAGACAGGGAGGAACGGATGACCATGGAGCCTGTTTTCAGGATAGCTGGCTTGCTGG
CCCCTCTGTGGTCGTGTGAGAGCTAACACAGCCTTAGGGACTCCTGCTGCATTCCAGGATGGTTGTGAACCTGACTCAGGTGAAGGAGGGGATA
AACCTGGTTTAACCAATGGTAAGGTCGCGATGCAGCAACACATTTAATCCTAGCAGTCCAGGGGCAGAGGTGGCTCATCTTTGAGTTCTAGGCC
AGCCTAGGCTACACAGTGAGTTCTAGGCCAGCCTGGACTATACAGCAAAGGGCCATGTGAATGGGTAAGAAGCTGCCATTTTCCTTCTCTCCCA
GAGGATGCATATTGTCACTGTGTAACCTGGTGACACACAGCAGACCCTCTTGGGGTATCACGGAGCTGTGTCTGCCATGCATGCATCAGGAGCT
GGGCTAGGTAGCCGCATTTCATCCTGAGGCTCCAACCTACAAGCCTGAACTCCAGACACGTCCCATCCCAGCTAGAGCCGTCCTGTGTCCCTTT
CATTTCCAGTCACCTGAGAGCAGCTTCCCAGATGTGACATCTCAGCTCTGAGTTTAGAACCTCCATAAAGATGGCCAGGCTGTCATCTCTCTAG
CTCCGTCCCGTGCCTCATACAGGAAATGTGTGTGTGAACCAGGAAACGGACTCACTGCCACTCCTGGACATGACTTCTTGGAGAAAGCTGTGCC
TGTGTTGTCTTGCGTACAGCACACATGGCGCCCAGTGCTTGGCGTGAGATTCTCTGAAGGTTCCCAGAGAATAAAAAACATGGCAGCAAGGAAG
CCTGAGGTAAAGCAGTCAGCGCTGAACAATGTTTTTCCGTGTTCTATGATCCTTCTCTCTGCTGTGTAGGCTCTGGTTGAGGTGAGAGGTAACT
CAAGCTCTATTCAACTTTAATGGTGGAAAGTTTCAAATTTGCTAATACACCAAAGGAACTGGCATCCACTCACTCTCACTCCAGTCCAAAGATT
TACTTATTACTATATGTAAGTACACTATACCTGTCTTCAGACAGACCAGAAGAGGGCATCAGATCTCATTAGGGATGGTTTTGAACCACCATGT
GGTTGCTGGGATTTGAACTCAGGACTTTCGGAAGAGCCATCAGTGCTCTTAACCGCGGAGCCACCTCTCCAGCCCAGGAGCTGGCATCCTTAGC
TCCCCACTAGATTCTGCAGTTCTGTTGCCCTGAGTTGGGATGGTAGAGGATCGAGATCATGTTTTGAGAGCTGACCTGAGTGGCGGGAGAGTTG
CTGGTTTGTTGGTTTTTTGTTTTTTTTTAATCTGTGTAGTAGCTGAACTACTGCAGAAGCCCCGATGCGGTCGTGGCACACGCCAGAAGTCTCT
CGGCTTCCCGACCATCAAAGCTTCATTTCTGCAATTTACTTCCTCAAATCACACCCTGAGGCTCCCTGGGGCTTGCCTTTCCGTGTTTGTGTCT
GGTTTCCAGCTGCCTGGAGCCCTTTTACTTCTGAAAAAGAGACTGAAGGAGATTCACCCCTTACTTTGGGGGCGAATTCTGTAGACTCACCGAT
AAATACTGAATCCGCATTAGTGTCGTGGTAGAAAAAGTATGAGCATGGCATAACTTTTCCCTGGAGCTATTTCATCCTGTCTTCCACGTATCTC
AGTCCATTCTGTCCCCTCTGAGCTCCCACTGGGTGTTTCCAAAGTGAAACAGGGGCTCTTTCCTGTGTTCGCAGTCTGGAGGACCTGCTAGGGG
CCTGCTCAGGACAAGAGTGGCCACATAGAAGCTCCTGAACAGGACCTGTGGCAGAGCTGACATTTTTGTTTTTAATGGAATGGGGCTTGAGGGT
AGGAGAGCTGTGAGCCTGAGTATATACAAAAAGGAAGGGGAAGATGTTTGTCTCTAGAGCAACACCAAGAACCCAACTAAATCTGTTTTCCCTT
TATTCATGCTGCCTGTAACCGTGCTGCCTGTAACCGTGCTGCCTGTAACCGTGCTGCCTGTAACGGTGGCCCCGGCCCTTCCTTTCTGGGGCCA
CACAGCGAGACCCTGTCTTAAACATATGTAGTAAAGTGTATTTACTGTATGGTTATATTGTTATATCTTAGTTACCATTTTTTAAAGATTTATG
TATTTTATTTATATGAGTACACTGTAGCTATCATCAGAGGGTTTCAGAGCCCACTGCAGATGGTTGTGAGCCACCATGGGGTTGCTGGGAATTG
AACTCAGGACCTCTGGAAGAGCAGTCCATGCTCTTTTTTTTTTTTTTTTTTTTTTTAACATCTGCCACTCTTTTTTTTTTTTTTTTAGATTTA

TTTATTTATTATATGTAAGTACACTGTAGCTGTCTTCAGACACTCCAGAAGAGGGCGTCAGATCTTGTTACAGATGGTTGTGAGCCACCATGTG
GTTGCTGGGATTTGAACTCTGGACCTTCGGAAGAGCAGTCGGGTGCTCTTACCCACTGAGCCATCTCACCAGCCCCCAGTCCATGCTCTTAACC
ACTGAGCCATCTCTCCAGCCCCTTAGTTATAATTTTGGTAGCTATATAGTGTTAAAGGTTTTAAAAGTTGAAACAGGGTCTCACTGTACAAGCA
CTGGGTAGCCTGGAACTGGAGACATAGATCAGACTGGCCTCAAACTCACAGAAATGACCACCTACCTGGCCCTCCATCTGACACTCTTTATGAA
TCATAAGCTGATTCCAGAGCCCTTAGCCAAGGTTGGCCTTTTTTAACTCCTCCCCCTGGGAGCTAAATACAAGGAAGGAGAAAGTGACCTGATG
GTAGAGAGGCCCTCTTCCTAATTGTAATGACACTGCATTGTCTCGGTCTCCAAAGATATGTCACTGGCAACTCAAATTTCCTGATGCCAAGTGG
GAAAGGGGAGGTGGGGGAACCTGAAAGAAAGGAGGCTCTGAGCTGCCTGGTACCTGACGGTCCCTCTCCTTGCTGCTGGGGTCATATTCATGGG
AGAAAGCGAGGTGTGGTGGCACAGACCTGTCACTCTAGAACACTGGAGGCTGAAGGCAGGGCAAATGCAGGTCTGAGGCCTGCCAAGGTCAGAC
AGACAAAAGAAAGTGGTAAATCTGTCTGGACATTTGGTTCTGTGTCCCGCCAAGTTATGTGATCGATATCCTGACCTCAGGGGGCTCTGTCTGT
CTGAGGCGAGGCACACCCTGTGGAGACGACAGCGCCATGGACAGAAAAGACAAATCATCATGCAGTCCTGGGCTTTGTTCCACACAACACACAC
ACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACAC
CATGGTCCTTGGCCAACTATGTCAGTCACCCAGTCCCTCTCCCCTCCCGGTCTCCATCACTGTCTCTGACTCCTTCTCTCCCTCTGTTTGACAT
AGGCGAGGCTCATTAGGTGAGCCACATTGGCCTTGCACTCTCTTTTTAAAGGATTTATCTATTTTTATTTGCTGTGTATTAGTGTTTGCCTGAA
TGTATGGGTTCTGTGTCCATGTGCACACCCGGTGCCCATGGAGGCCAGAAGAGGGCATTGGATGCCCTGACGGAGTAGGTGCGAGCCACCCACC
ATGTGGGTGCTGGGAACTGAACCTGGATCCTCTAGAAGAGCAGCTAGCACTCTTAACTGCTGATCTTGACCTTGAACTCTCTCTTAACCCTCCC
ATTTCTGCCTGCAGAGCACTGAGGTTAGAGGCATAGGCATGTGCCTGTGCCCTCAGCTGCCTACCAAGCCCCCCCAGTCCCTGGTTGGCCTTTG
GGGTTCTCCCACAATCTTTCCACCATTTCATCCCTGCCCCCCAACCCCCGCCACATTTCTTCCTTGTCTAGAAGGCCAGGATAGAAAATGGGGA
ATAGGGCTGGAGAAATGGCTCAGTGGTTAAGAGCACTGACTGTTCTTTCAAAGGTCCTGAGTTCAATTCCCAGCAACCACATGATGGCTCACAA
CCATCTGTAATGGGATCTGATGCCCTCTTCTGGTGTGTCTGAAGACAGCGACAATGTATTCATATATGTGTGTGTGTATATATATGTATGTATA
TATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATAT
TTTAATCCCAGCACTTGGGAGGCAGAGGCAGGCGGATTTCTGAGTTCGAGACCAGCCTGGTCTACAAAGTGAGTTCCAGGACAGCCAGGGCTAT
ACAGAGAAACCCTGTCTCGAAAACAAAAACAAAAAAAAAAAGAAGAAAGAAAATGGGGAGTAGTGATGTAGGTCAGATGGTAAGGTGCTTGCC
TCACTCCTACAGAGCCCTGGTTCACCCTGCTTCCACAAAACCAGATCACTCAGAAGGCAGAAGCAGGAGTTCAAAGCCATCTTGTAGCAAGTTC
AAGGCCAGTCTGAGATGCCAGAGACTCTCTCTTTTACAAAAGATACTGGGCATAGTGGCACATTGAGTCCAGCCTGGTTTACAGAGTGAGTTTC
AGGACAGCCAGAGCTACATTGAGAAACTCTGTCTCGAAAAACTCTTCCTTCTCCTAATTCTAGGCCACTCAGGGCTACAAGAGACCCTGTCTCC
TCCCCTAGCCGCACCCCCTGCAGAAAAAGAAAGAAAAGAAAAGGGGTAAGAACTGGAAAAAAAAATGTATGCAATTCTCAGCCTTTAATTGCCG
AAAGCACTTTATTTTCCTTTGGGTGTTCCTGGGGATTGAATTCAGGGCAGTGGACATGGCAGGCAAGCATTCTAGTGCACGCTTCACCTGCAGA
CCAATGGCTGGAGGGCTCCCTCCTGGGAGGCTCAAAGAGTGACTTCCTTCTCATTAGCCGACCAGGAGCATCTGACTAAGAGATGGGCCGCTTA
GAGCGCTGGTGCCCAGGCACCCCTGGCTCAGAGCTCCATCTGTCCAGGTGTATCTTGGGGCCAACAGGGAGCCTGCAGCTGCCTTATTGCATAT
GCACACCAGCACCTGCAAGTCTGTTTAGCTCAGGGCCTCTTCTGTGTGTCCTTTCCTGCCTTTCCCTCTGTAGGAACATTCTCTGAAACCTCAA
ATTCCAACTTTAATTCTTTAGGGATGGCACTTCCCACACCCTAGCATATCTGCTCTGTTTCCCGTCCCTTTACGTGCTTTAGAGACGGTAGCTA
CTCGTGTACCCCAGCCCAGCCTCGAACCTATGATCTTCCCGCCTCAACCTCGCAAGCGCTGAGACGCAGGCGTACATCACCATGCCCACTTCCC
ATAACTGTGTCTGCTTCTAACATCACGCTGTGAATTTTAGGATCAAGAAAACACTCTGTCTTCAGATCTGCTGCAGGAGATTTGATTCTTCCCG
CGGTCAGGTCTCCGGTGGCTGAATGAACTCATGGGCTCCTAGACTGTCACTACCATCTCTAGACTTCCGGCCAATAACGTCTCCCACTAGGATC
AGGTCGATCTAAATGTTGTACATGCTATGGATTTTGTTTTCAAACGTCCAGTGAAAATGTCGTTTTCACCTCTGAATATTCTAGGCCATTTTTC
AAGGGTCCTAACCAATGGACCCCATCCTACCTCTTAGCCCTCTTTGCCCAGACACCCCAGCGCCTCCTCCTGTTTCAGTCAGGAGGCCCAATTT
CTCTTCCATGCCCTGTGACCTTCCCGTCCTCAGGATTCTGGTGGCATCTCCTTAGCGCTCTCCTTTTTGCACTCGTAGCAAATGGGACTCCCGC
CTTGCCTCTGAGAAATCCACAGAACTTTCTACGCCGCCTCTGCCTCTCTTTGGCAGCTGAACGCCTTCGACTTGAAGCTTTAACTGCTTCTTTT
GTGGGGTTCCACAGCTCACTTGGGCTGTGGTCTTTTTGAAGCCGAGGAGAATAGCTAGGCCCTCACACACTGACACCTCGTTGCTGCGTGGAGC
CAGGAGTGACTGCAAGCCTGTCTGGCAAGGCCTTGTGGGAAGTCAGTGGATGGATGAATGTGCCAGGGGATTCTGGGATGCCCCACTTCCTGTC
TTTCGCTTCCCTGCTACATCTTGTAGTCTGGCCATGTCGTACCCCCTCACCAGCCCCAGAGCAACAGGGACAACCAACAGTGGGTTGAAGTTGT
GTGCTCCAATCAGATTTCTCTCTCTCTGAGTTGACTTATTTCAGCCCTCTGTTATGGTGACAGAAGGCATCAGGGGAGGGGGACAAATTAGAAC
AAAGATAATGATGATGTATGAAAATGCTGTAACTAAGCCCATTAATTTGTACTTTTAAAAATAAGATTTATTTATTTCATATATGTGAATACAC
TGTTGCTGTCTTCAGACACACCAGAAGAGGTTGTCAATCCCATTACAGATGGTCGTGAGCCACCATGTGGTTGTTGGGAATTGAACTCAGGACC
TCTGGAAGAGCAGTCAGTGCTCTTAACCTCTGAGTCCTAATTTGTACTTTTTTTAAATTTTTATATCCTGTTCTTCACAGTAGCCTCTCCTGGA
AGCACCAAGCTGAGTTCTTCTTTAATTCTTTCTCAAACAGCATATCTAAATTTTGCGATCATAAGAACAAGCCAGGAGAGTACATATTCTATGC
AGAAAATGATGACGCCCAGTTCACCAAAATGTTCACGCTGAATATAAGAAGTAAGTTGAATCTCATCTTGTCTATTTTATTCCTCCATTAATTT
TTAATTAAGAAGAGCCAAACACAGCTTAGGAGGGACGATATCAAACTAATTTAAAAAAAAAAAAAAAGGATTATTTGCATGTATATGAGTGTTT
TGTAAGTGGTATGTATGTCTCTGGCCCACATGCATGCAGTGCCCACAAAGGCCACAAGAGGGCGTCTGATCCCCTTGGAACTTGAGTTACAGAT
GGTTGTGAGCCATGATGTGGGTGTTGGGAACCCAGTTCCTCTGCAATCACAACCAGTGATCCTAACCTCTGAGCCATCTCTCCAGCCTCTGAAA
CTGCTCTTGTAAGCGCCATGCTTCTTGTGTGTTGGCTGTAGTTATATATGTCCCTTTCTATACTTGTTCTCTGAGCTAGTACATGTTCCATCTC
CGATGTGCTGTGACTTTACTGCCTTGGCGCTATGAAAGGAACACTAAGGAAAGGCTATACAGTCACCTGCTACTTATTTCTTTTAATGATTTTC
GTCTTGGTCTATGCAAAATAAGAAAAAGACACTATATTTCATTAAGGTTTTTGCAGATTTTTTTTACCTGCATTTTTTTTTTTTACTTGCATGT
ATGTCTGTGTGAAGGTGCCAGATATTGGAGTTACAGACAGCTATAAGCTGCCATGTCGATGCTGGGAATTGAACCCAGGTCCTCTGGGTGGTAT
TTTTAAAGCTAAGTGTTACATTGAGGTTTGCAGATAGATGGAGGTTCTACACTTCAGCTCCCTCTAGGAGGTGAGTCATAGAGAGGTGTTGCCT
CCACCAGTCAAGAAAGTTTTGTGACAGAGGAGGAAGGGACCAAACAAACTTTGAGGCATCCTAAATAAGGGGTTGTTCCAGGGGTACATAGCAC
CTGGGCTAAAGAAGCAGCCTAAGTTGAAGCTAGCTCTGAACTGATTCTAGAAAAAAAAAAAAAAATCTATCTTCCATGAGCTTACTGCGCGCTA
CTTTCTACAGAGAAACCTCAAGTGCTAGCAAATGCCTCAGCCAGCCAGGCGTCCTGTTCCTCTGATGGCTACCCGCTACCCTCTTGGACCTGGA
AGAAGTGTTCGGACAAATCTCCCAAGTAATGAGAACCCTGACGTCTCTTGAAGTGGATGAGCCAAGCCGGGCAGTGGTGGCGCATGCCTGTGAT
CCCAGCACTCGGGAGGCTGAGGCAGGAGGATCTTAGAGTTTGAGGCCAGCCTTGGGGAACACAGTGAGGCCCTTTCTCAAAAAACAAGAAGGAA
AAAAAGGAAAGAAGGGAAGGAAGGAGGGAGGGCAAGAGGGGCAAGGGAAAGGAGAAAGAAAAAGAAAGGAAGAAGAAAAGTGAGAA
TAAGGCATAAGATTCTATCACCTGTTGCCATGGATACAGCTTAAGAATGACATTGAAAATGCTTACCCTACAGCCACAGCTTGTTTTCTTTGGG
AACCATCTGTAGAAACCCTGCCTTCCTGTCCTACCATGACCCCACCCATCTAACTTCCTGTCCTACCATGACCCCGCCCATCTAACAATCCCTT
TCCACCATTTTTTTTTTCTTTTCAGTTGCACGGAGGAAATCCCAGAAGGAGTTTGGAATAAAAAGGCTAACAGAAAAGTGTTTGGCCAGTGGGT
GTCGAGCAGTACTCTAAATATGAGTGAGGCCGGGAAAGGGCTTCTGGTCAAATGCTGTGCGTACAATTCTATGGGCACGTCTTGCGAAACCATC
TTTTTAAACTCACCAGGTGTGCAGCCATTTGCTGTTGTGATAAACACACCCTGTCCCCAGAAATTCCCCCACCTGAAGTTGGGCATTGTGGCTG
GCCTTTGCTGGGGAATTCTTATGAGATTGCCCAGTTCTGAGTGAGCATAAGGTCTTTTTGAGTCAAGCAAGAATCCCCAGCAGACTGTAATTTG
ACGTTTCAGGACCCAGTTATCCTTAGGCTGTGTGACTCACAGGTCACGGAGCTGTGGAGTCTGGGAAATCCATGGTGTGAAGATTAGCCTCCAG
AGGTGCAGGAAAGCAGACTTAGTGATCTGGAATTTCTGTCCTTTTCCATTCTGTCAGTTCCCTTATTTACTTTGAGCCGGCTAGTCTAGATTTT
GGAGTTGTGTTTAGAGTCTTTCTAAAATGACACTAACAGTTTAGGGTCACCAGATAGTATTGATTAACTCCAGGGACAAAAGCAAGAGGCTCCT
AAGTTCACGTTCAGCCTGGGCTCCATAGTAAGACGCTGTCTCAGAAAAATGCCAAACAAAGCAAGCACGTAAGTCAAAATTGTGGCTTTGGTCT
CAGTAGTTAAGAACACAGGCTGCTCTTGCAGAGGACCTGGGTTTAATTCCCAGTACCCACATGGTGGCTCATAGCCATCTGTAGCTTTAGCTCC
AGCTCTGGGGGGTGGGGGGGACCTTAACGCCCTCTTCTGGCCTCTGAGGGCTCCAGGCATGTACATGGTACACAAACACACATGCAGGCTAGCA

GTCATACACATAACTTCTCTACATGTGTGTGACGAACCTTGATAACAAATACACAGACTTCTTTTTTACCTGACACGGGCTCTGTAAAAGGTTTA
TATGGGCTTTATTCACGTGACATCATGGTCCAGTTTTTAAGATGGGTTCAGAATCGTTTCTGATTTTTCTGGGGACTCATTGTTTACAGAAACA
AACCAACTTTCTGTGGGGCACCCAGACAGAACACACAGATTGCTCATAAGGCCTGAAGATGGTGGTTACTTGAACAGGATGTGAGAGACTCTAA
CAAGAGACTTAAACAGGCCTGCCTGTTTTATCTCGCCCCCGCCTAGTGATTGCTTCTCTTGCAGGCCCCTTCCCTTTCATCCAAGACAACATCT
CCTTCTATGCGACCATTGGGCTCTGTCTCCCCTTCATTGTTGTTCTCATTGTGTTGATCTGCCACACAAATACAAAAAGGTAAAAACCGGTTGGCG
AAGGCTCATCCCTGTCGTGACTCTGCAGCGCTGCTGACCCGCTGTTCATCTCTCAAGCAATTTAGGTACGAGAGTCAGCTGCAGATGATCCAGG
TGACTGGCCCCCTGGATAACGAGTACTTCTACGTTGACTTCAGGGACTATGAATATGACCTTAAGTGGGAGTTCCCGAGAGAGAACTTAGAGTT
TGGTAAGGATTGACTGTTCAGAGCTTCGGTGGCATTGCCTCTGCCTTGCAAACATTTTTTTAACCCGCACTTACTCCATCTTTACAGGGAAGGT
CCTGGGGTCTGGCGCTTTCGGGAGGGTGATGAACGCCACGGCCTATGGCATTAGTAAAACGGGAGTCTCAATTCAGGTGGCGGTGAAGATGCTA
AAAGGTACCAAAAGGTGGGGTTATCTCAGCAAAGTCCCTCAGAGAACGAGTCCAGCTGCCTCCCCTCCCCTTCTTCTGCCCTCTGCATTATTCT
GTCTGCTAAGCACTGAGGGTTAACGAGAAGCAGGCAGGGGCAGTCGTGAGCAAAGACTGCAAGCAGGGAAGGCAAGCCCCCACCCCTTCCTCTT
TCTCATTGTTCAGTTGGTATCAGCTTCTGTGTTACAGTTTGACACAGATTCTGGGTAGAAAACACACCGGGGACTTCTCACTTCCCACTCTGTC
CCATCCTCTCCCATCTGGCATCCACCCTCGAGCAGGGCCACCCTCAGCCGATTCTTAACCCAGCGCAGAGGATTGAATCCAGGATTTTGTGAAC
GCTAGGCAAGTCCTCTACCTCAGAAATACATCCCCAGCCTGTCATTCTATAACACGATGTCTTGCTATATAGGTCAGGCAGGCCTTGAACTCAC
AACTTCAAGAATGCTGAGATGTATCATCCCCTCGGGACTGATGGCCCATTCTTTTGCTGAGGTGTTCCCTGTAAGGATAAAGGGAGCCCCTCTC
TCCAAACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACAAA
AGAGACAGAGAGAGAGGCAGAGAGAGACAGAGACAGAGAGTCACTGAAGTGCATTGCAGTACGCAGACCAAAAGGAGAAATGGCACACAGGACA
TCATGGACAGAAATCTCACAGTCACCTCCTAGCCAGGTGACTGATGATGCTATACATCCTGGGTTACAGAAAGAAACGGAAGCTGGAACTGTTA
GAGGATAGCTTTAGGATACATACATTTGCCGGGCGGTGGTGGTGCACACCTTTAATCCCAGCACTTGGGAGGCAGAGGCAGGTGGATTTCTGAG
TTCGAGGCCAGCCTGGTCTACAGAGTGAGTTCCAGGACAGCCAGGACTATACTGAGAAACCCTGTCTCAAAAAAACAAAACAAAACAAAACAAA
ACAGGATACATACATTTTCTGTAGATCAAATTCAGGATGTGAAAAGGGATAGACTTTCCCCTCTGATATCTGCAAGGTACAAAACCTTGAAGCA
ATGTCAGAACACGATCACTTGTTACATCCGGGGAACAGATATGAAGGTTTCTTTTTACACTGTTTTTCTTCACCCGTACATCCTAGTTCCACAG
AATAAGGAGTGTCGTCGCTGTGGTATTCCCATATGTATACTTTGGTCCAGTTCACTAGCACCGTTCCCCCTCCCCTCGTCAATTCTCTTCCTGT
CGGTCCATTTCTTCTTCTCAAATAGCTCCCCCCTCTACTTCCGTGCCTTTTCCTTTTAATCTCGATCCTACATATGAGAGATGATGCACTGCTT
GTCTTCCTGAGTTTGGCTTTTTTACTTAACATCCCAGTGTCTGGTTCCATCCATCTTCCTGCAGGTGGCCCATCCCGTTCTTCGCAGCCAAATA
CACCACTTCCTATGGATCGTATTTCCAACATCCATCCATCCATCTGTGGCAGGCCCCTAGGCTGGTTAGATAGCATGTTGATTGTAATAGTGCC
AACATCGACTTCCTGTGTGGAGTTCCTTATGCCTCCACTCGCTCCACGCACTCACCAAGGACCCCCCTCTATAACCCAGCTTCATCTCCTGTAC
CAATAGCTCTCATAACTGGTTCCCTAAGCCTTGGCTTTGTGTGCCCAAATACTTGTATCTCAGCACTGTTCATCCAGGCTGAAGTCCTCCAACC
CTGGCCTCCATCTCTACTCCAGCCTGGTAATTACTGGAACGTTTCAGTGAGACTACACATTCCACACAACCATAGAAACAAGGAAGCGGGTTCC
ATAGCTGGCTCTCTCTCAGCCTTCCCCAACAGGTTTCCTGCACAGTGTCTGCTGGGCCCATCCTCATCTCTCCGTGGTCTCTGTGGTGGTCCAG
TTCTGTCTCTCCTAGAGACTCTTAATGGTAGCTTTTAAAAAGCATCCCACCGATTCTGCTAGGGGCTATGTGCTGAGGTGGGGCATGGCCACGA
TGCAGAACACCTTCTTGCTTGGCACTGCCCTAAGCATTGACAATGGCTTTCTACTGCTCTGAAAATGGTTCCCACAGGGGCTGGAGAGATGGCT
CAGTCAGTGGTTAAGAGCACTGACTGCTCTTCTGAAGGTCCTGAGTTCAAATCCCAGCAACCACATGGTGGCTCACAACCATCTATAATGAGAT
CTGAATCCCTCTCCTGGTGCGTCTGAAGACAGCTACAGTGTACTCACATATAATAAATAAATAAATCTTAAAAGAAGAAAGAAAAAAGAAAGAA
AAGAAAATGGTTCCCACAACTTTGAGCAGTGCAGCCGTGGCTCAGCCTTTCCGCCTCATTCTTAACCTTCTTTCGGTTCCCCAGAGTGCCTCGT
TTCCCTGCCCACAGGCTTTGCGCAGGTGAATCCTTCCACCTGCTCTTCCCCTTTTGCTGTAGGAAGCCACTTACCTCTCAAATGTCAGCTTTGA
GATCACTTCCTCAGGGACACCTCCTTTCACGCCATGGACAAGATCAAGTCCCTGGGGACCGTGGGTGTTCTAAGTGGTACAAGACATACTCAGC
ATGCTTGAGGCCCTGAGACGAATTCTAACATTAAAAATATAGTACGTCCTAAGAACACTATGTAGACTTCTCCCAGAATCGGAGACTCTAACAC
AGTTGCGTTTAGGGATTCAGTTAGGTTCTAAGCCCTCTGAAAGCGGCATGTGGCTTTTCCCGTGCTGTTGTTACTTAATACTGTGTATTCTGCT
GCCTCCGCCTGCGGTGGTCTTGTGTGACTCCTTTCGGTTCCCCACTGAGGGAGAACTACAGGGTCCTGCTTTTTCGGGCTGTCTGGTGTCCCCC
CTAGAGTTCCCCCACAGGACTTTCACTGTCTCTCTCTCATCTTGTGTGGTCATCCCTCAGTTTCTGCAGGAAGTTGGTTGCACAGTCCCCTTTG
CAGACGCCAGGGTCCCAGACGATCAGGTCCCTTCTATAACACAACAGTATGTGCATAGAACCAGGAGTCCCTGGAACAGAGACCCCAAAGAAAG
GTGTTACCCTTGTCCCCGAGGCCCCAAAACCCACGGATGCAAGGGTGCCCCAGGCAGCTATGCTAGCCTCAGTGACCAGAGCCCTGGGAGTAAC
AACCCATGCTTGCATCCTAGCAAGATCGTGGACACAGTTTGCTCCACTGGAGAGATTGCATTGGTTCATGTGTTGTCTTCTTTAACTTTCCCCC
ATTGAGCACACTTACCAATGGAAGTTTCTAGACCTGAGGAGCAACTTCATGTTGGAGACATCTGTGCTTGCTGACCCTCCTCCTTCTGGTCTTC
CTATCAGCTGAATAATCTGATTTTTTTTTAACTAGGAAAATCACGTTCTGTTTATCGTGTTGTCTACCTGCTTTGAGAGCTGGGTGGAAGGACT
TTTATTTTTCTCAGGGAAAGTCAAGTAGAAATGTATATTCTTGCTGGGCATGGTGGTGCATAATTTGATCCCAGCTCTCAGGAAGTAGACGTAG
GCAGGACTCAGTGAATTCGAGGCCAGCCTAATCTGCAGGGTGAGTTCCAGGCCAGCCAGCGCTATATAGTGAGACCCCGTCTCGAGGAAGGAAG
AGATTATACATTCATATAGTTAATATCTATAACTCACGTTTTAAAACGCTGTCTTAAAACACAGAACATTATTGTCTAAATTTATGTGTTATTT
TTGTGTCAGTTTTTCTCTTCCAGTTTTGAATGTGTGTAAGTTGTGATCTGAACCAAGGAGAGCCTTGGTTTCTAAAACAGCATACAGTTCCCTG
AGGTCAATCCTGTTTCTGCTCCTCCACCAACAGAGAAAGCTGACAGCTGTGAAAAAGAAGCTCTCATGTCGGAGCTCAAAATGATGACCCACCT
GGGACACCATGACAACATCGTGAATCTGCTGGGGGCATGCACACTGTCAGGTAATGTCTACACATCTGCATATCGAAGCCCTGTTCCACACTAC
TGCAGCCCAAGGGAGCGAGGCCTGCGCTCTTTCCTCAGCCCAGTTTGTAGACGATGGGTCTGTTTCTTCCTTCCAGCCCCATGCTCCCAGAAA
TAAGACTCAGACTCAAAATATATTTACAAATACCTTGACCATAGAGCTAGGCTCTCCTTTGACTAGATAAAAACTTAATATAACCCATTTATTC
TAATCTACATTCTGCCACCTGTGCTCGGGTGCCATGAGCCTGTCTCGTCTCGTTTTGTCACGTCTTCCTGGGTGAATCTCCCAAGCCTGGCTCT
ATCCCAGAATCCTTTCTGTCTCCCAGATGTCCTACCTCTTATTTCATTCCTAAACCATAGGCCATCAGACTTATATGGGCATAAGCTATTCTCT
TCACACCAGTTCAAGTGGAATTAGACGGTGTCCCCTCTGCAGAGCACATGACCCCGTCTTTCCCCTACTCTATCTGTCACAGAGTCCTAACCGC
CTGAGAGAAAGCGGCCACCCTGCACATTCATGTTGTGGGGTCTGAGCTCCTCCCTAGACTGTGAAGCTGGCCTAAATGCAGTAGTGACATCAGC
TTCAGAACTCAGCACACACATACTGATATGTTGATGATGGTGAGGTCAGACGTTTAGAACTGGAGAGAAAGGCTAGAAGACAGATTCTTGTATA
CAGTGCTGAGATCGAGTGTAGTCTAATGTACGAGCTCATTTAAAGCACCTTCTGAGGGCAAGGAGAGCAGGAAAGGCCCAGGTCCTGTTGCGCT
ACAGTGTGATTTTGGAGGAAAGACCTGACCTGTGTCTAAACCTGTAACTACAATTGTAACTGTTTCAGGGCCAGTGTCTGCAGTCTGTCTAACC
TTGTAACTACAATTGTAACTGTTTCAGGGCCAGTGTACTTGATTTTTGAATATTGTTGCTATGGTGACCTCCTCAACTACCTAAGAAGTAAAAG
AGAGAAGTTTCACAGGACATGGACAGAGATTTTTAAGGAACATAATTTCAGTTTTTACCCTACTTTCCAGGCACATTCAAATTCCAGGTAAGAG
CTCCATCAGAGGTTTATGGCTGTAAACCCCGGGACAGACAGAATGACCACTGCACACACCTACCTGCAACCCCACCCGGGCAACATTCGGAGTT
GCTGTGTGTGGCCTGAGACCTAAGGCAGCTATTTGTTTATGCTGGGAATTTCTGTCCCATTATTTCTTATTTTACTTAATAAAGTTTCAATTAC
CCACCAGAAGACATGGTTCAAAGATCCTAAATAGAAAAGTCCAGAAATAAACAATCCTTAAGTTTTAAGTACCTTTACAAACAGCTTATTAATT
AACATTATACTATCTTATCATTGGTTATTATTGTTCGTGTGTTACTATGCCCAATTTATTTGTACTTTACTTACTATTATATTTCATTTATTAT
TTATTATTGTGTGAGTTTGTAGTGCTAGGGGGCAAACCCAGGGCTTTATGAATGCTTGACGCATCCTCCCTCTCTGAGCTACATCCCTAGTCTG
CCATGCATGCTCTAGAGGAACTATCCTAACACAGACGTGCGTAGCCAATAATTAGATCCTTTGGTTCATTTTTGGTCACTGGGCTATTAAATAA
ACTAAAAGCATTAAGCCTTTTTTTCAAAGGGAAGGGGAGTTGAAAACTGGGATAAACTCTTATGGTGGGAAATACTGAGTCCTGACCTATTTGTA
GTGGTGCGGGCCTCTCTTTGATGCGCTTGAAAAGGTAATCTGGCCAGACAGTGGTGGTGGTGGCATGGTGCACGCCTTTAGTCCTAGCACTCGG
GAGGCAGAGACAGATCTCTGTGAGTTCAAGGCCAGCCTGGTCTACTGAGAGTTCCAGAGCAGCCAGGGATAGACAGAGAAACCCTGTCTCTAAA
AACCAGACCAAAACAAAACAAAAACAAACAAACGAAAGAATGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAACAAGCAAAAG

GAAAGACAGAATCTGTTGCAGCTATTTGCTTATCCCTCAGAGGAGGGGAACGTGGTTCACAGACGCTGGCTTGAAAAGATGGCGCTGGAAATGT
ACACCTTCCCACGAGGCAGAAACCTACACATCAAACACATTGATGAAAAGAATATCAAAACTCTAAATTTGTAAGCTCTGTGTTGCATGAACTC
TGAAAGGTGAAATGGCCTGTGTCTGGAGCAGCAGGATGCCCTGTAAATTGGTTCCTCTCTTTATAAACTTGAGGACATAGTAATCATTTACTGC
CCCAGTTTCTGTTTTATGTACCCAGCTTACAGCGTGACAGTGACTGAATGGCAGCTCTTATCCAGGTTGGCTCGGCAAATTCCAACACACAGAT
GTTTTTAATGTACACGGGGTACCGTTGACAAGCCAGCATCGTGCTTTCTGTTTAAAAGCCCATTTGTAACTGAAATCTGTTCCTCTGATGAATT
GTCCTTTTTGTAATAAAGTGTCTGCTCAGAGGAACAATGTAAATAACAAAGGAACAAATTTATTTTTAATAGCATGCCTGGTTCACGAGAAGTT
CAGTTACACCCGCCCTTGGATCAGCTCTCAGGGTTCAATGGGAATTCAATTCATTCTGAAGGTAATGTTTTACTTTTCATTGGTATTTTACACT
CACTGAAATGAATCCAAGAGTCCCATGCCAGCTATTTTTAAACTTTTTAAAAAAATTATGAGTGTATGTGTGTATGTGCATACACGTGTGCATG
CATGGTGTGTATATGTGTGTGCTGTGTGTATGTGTGTGTTTTATGTGTATATGTTTATGTGTGCTGTGTGTGTATGTGTGCATGCTATATATAC
ATATACATACATGTATATATATGTATATATATGTATTGTATGCATGTATGTGTGCTGTGAATGTTTGTATTTGTGTACATGTGTGTGTGGTATG
TGTGTGTATGTGTGTCGAGTGTGTGTATATATATGATGAATGTGTATGTAAGGTTTGTGTTTATGTGTATATGTGTTTTTGTGTAGGGTGTG
TGTTTATATGTATGTATGTGTGTATATGTTTGTATGTGTGTATATGTGTGGAGGATATGTGTATGTAAGTATGTGTGTGTGTTTGTGTATAGAG
TATGTGTTTATGTGTATGCGTGTGTTGTATGTGTGTATGTGTGTGTTTATGTGTATGTGTGTATATATGTGTGGAATATGTGTATGTATGTGTG
TGTTTGTGTGTAGGGTATGTATGTATGTTTATGTGTATGTGTGGTATGTATATATGTATATGTTTGTAGGTGTATATATGTA
TGTGTGATATGTGTATGTATGTGTGTGTTTGTATGTGTGATATATATATACACACATATACATATATATGTATATGTGGGTTTGTATGTGTGTA
TATGTGTGTGATATGTATATGATGTGTGTGTATTTGTATGTGTGTGGTGTATATATATATGTATATATGTTTTGTGATATGTGTATGTATGTGT
GTGTTTGTATATTGTGATGTTTAAAGATATATATGTATATATGTATACGTGTGTGTCTGTGTGTGTGGTGTCTATATATATATATTTATTTATA
TGTATATGTGTGTGTTTGTATGTGTGTGATATGTGTACATATGTATGAATGTGTGTGGTATATATATGTATGTGTGTATATATATATGTGTG
TGTGTGTGTGTGTGTGTGTTTGTATGTGTGTGGGGTATAAGTATATATGTGTGTATGTGTTTGTATGTGTATGAAGTATATATATGTACATGTG
TGTATTTGTATATGTATGGTATATGTGTGTGTATATATATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTTTGTATGTGTATATGT
GTGTGTGCTTGTGTGTGGGCATGATCGTGCCGTGGCACCCATGAAGGTCAACTAGTAAGAGCTAGTACCAGGGCTCAGTACCAGGGTGTCAGCC
TGATGGTAGCTTTTCTCCAGTGAGCCATGGCAGCAGAGTGGAAGCAGTGTGTCTTTGCTCTGGTCAAAGGCAGACTCTGTCAGTGCACACTTTC
TCGGAAAGTCAAAAGCTGATAGTTGTGAACTCTGTGTCCATGGTCAACAACAGGCACCTGAACTGTTTTGTTTGTTCGGAATATTCTTTATAAA
GTCATAAGCTAATTGGAGCCAGCTTGTACCTGGTAAGACTGTGAGCTCTAGAATCAGAGTTTGGTTATGTTCCAACTCTTTTCCTTTCGAAACA
GTTGGCTCCAGACGAGAGTCCCCACTTCTCACTTATAAAATTGGTCCAATTCTACTTTCCTCATAGGACTGTTAGGAGGCATACACAGAAGGTT
GTGAAGTATAAAGTACAGTCCATGAAATGTGGTAGACAGTTGGTCAGTCTTTGCTTTTTTCTACTGACAGATTTACCTAGCATGAAGGGAAGGA
GGGATAATGTTTGGGAGTTTTGCTTACCCTCTCTGTCTGTGCACCACCTGGGTGCAGTGCCCTTGGAGACCCAGAAGAGGGCACTCGATGCTCT
GAGACTGGAATTGTGAGCCACCATATGAGTTCAGGGAACAGAACCCAGGTCCTCTGGGAGAGCAGCCAGTGCTCTTGAATCACTGAGTCCCAAG
AAGGATTCATAATTAGTATTCCTTGTCTTAGCTCAGATGGCTTTAACAGATTATTAAAGACTGGGTATCATAAGCTACAGTATTTCTCACAGTT
TCAGAGGCTACTGCTTTCAAAACTGAGGTGCAGGAGACACTTGCTTCTCACATGCACATGGTGATCTTTCTGGGTCCTCAGGCCTCACACAGAG
GCAAGAGTACACGCTTTCTTCTCTTTAAAAAACTTTAAAAAAAAAGTATTTAGTGTGTGTCTTGTGGGGGAGCAACTTACAGGAATCCATTCTC
TCCTTCCACCATGTGGGTTCCAGGGATTAAACTCAGGTCTTTCGCCTCTGTAGAAACACCTTTACCTGACAAGCCATCTTGCCCATTCTCCTCT
TCCTATTTTATAGAGTTCATGGTCCCATTTTTATAACCTGGCCACTTCACAAACACCCTACTCCTGATACCATTGCTTGAGAGTTCGTTTGCCT
GTATGTGTGTATGCATGTATGTATACACGTATGTATGTATGTATGTATGTATGTATGTATGTATGTATGTACGCACGCATATATGTATGC
ATGCATGCATGCATGTATGTATGTATACATGCATGTATGTGCACTGTATGTGCCTGGTAACCTTTGGAGGCCAAA
AGATAGAGTCACATTCTCTGGAGCTAGCATTGTTACAGACAGTTGTGAGCCATCATATGGGTGCTGGGAACCAAGCCTGGGTTCTCTGTAAGAT
CATCCAGTGTTCTTAGCTATGGAGCCGTCTCTCCAGCCCCTGGGGATTTGAACAGGGCTTCATTCCAGAAAACAGAATGAGTGTTCAAGTAGAC
TAAGAGGAGACAGGTTTATAGAGACAAAAAAATGACTAAGGGCAGGAAAAAAAGGGAGGCAGAGATCAGGACAGGAATGACTGTGCACAACTTT
AACCCAAGCATCCAGGCGGCAGAGTGTTAGTCTGTGAGTTCAAGGTCAGCTAAGTCTACATAGTACATTTCGGGACAGCCAGGGCCACATGTTG
CTTATGAGGACAGGCTGATCATTCCAATCATTTCCCCGGGTTTGGAGTCAGGAAATGGACAAGGTGGCTAGTAGCTTAGCCCCAGGCTCCCCAG
GAGAAGCTCTTCTGTAAGGTTTGAAGCAGAGGCCATTCCATCTTCATGCCCAGGAACCTGGCCTGCGCAGAAGGTTTGATGGTTGCTTCGGATT
TCTCCGAAGGTCAAATAATCCTTTCTCTTTGTATGGCGGACCTTTTGTCTGGGTGACGCCATTCGATTTGGTCTATTGAGTCTAGAGCAGGAGA
TCAGATCAAACGCCTCTTATAAATATCTCCACACTGAGGTCGCCTTAGCTGCCTCTCACAGAGGTCTGATAGGGTACTGCCTAGTGTCTGGGGA
AAGTGACAAGTGGACGTCTTTTTACAGATGAGATTGAATATGAAAACCAGAAGAGGCTGGCAGAAGAAGAGGAGGAAGATTTGAACGTGCTGAC
GTTTGAAGACCTCCTTTGCTTTGCGTACCAAGTGGCCAAAGGCATGGAATTCCTGGAGTTCAAGTCGGTAAGTACCTTTTAAAGAGAAAACCGA
CAGAAGGCGCAAACACAGAGCCGCAGAAAGGAATGCATGCGTGCAGCTTTGAATGAGCCGTGTGTCTACGTTTGTTCCATGGTCATTTTAACAT
GCCTCCCTTGCTGTCTGCCCTGCTTCCCCTAATTCTTTTCATACCTGCAGCACGAAGGCCCAGAGTCACTGGTTAGAGCCAACGTCCCGTGGGA
TGTCTAGGGAAGTCCCAGAAAAGCCATACTGAAAGAAGCACAGTATCACAGTATCGTCATCCCTGCCAATACAGGGATTCATTCGGGTTGTTCC
CTGCAGTCGGGGGCATGAGCAGAGGCCCAAAGTTCACCAGCTCTGCCACCCCAGCCAGCCAGCCTGAACAGATTCAGCCTAGGCTAGCCACAGC
GCTGTGGAACCTGTCTCTTCTCAGTGGCTGGCCCTGTATTCACAAGTGCTGCAGCAGGAAGACTGCGGGACCCACCCCAAACCATGACCTCCCC
GTGCTGCGCTAGGCAATGCTGCTTCTCCACCCGCTGTCCCCTGTCATTCCACACTATAAGCCACCAAAGCCTCAAATCTTTATGTCTGCTGAAG
TAACATGGTAGTAAACAGATTAGCGGGGGTGGGGTGGGGGGGGGGAGACAACATCTTTAGCTGTGTACGCACCTACACAAACTATTGAAACACA
AGGAAGGGCTAGGTTGGTGTATCTTACTAAGTTTCTCCATAGGAAAAGATGTCTGTGTTTCAGAGGGGTAGTATGTTAATTAGGGCTCCCTAAA
GAAACAGAACTGATAGAATTAAAAATAATACATATATATGTATTATTTTTAATTATAAAGTTATATATAGGGCTGGAGAGATGGCTCAGTAGTT
AAGAGCACTGACTGCTCTTCCAGAGGTCCTGAGTTCAATTCTCAGCAACCACACGGTGGGTCACAACCATCTGTAATGGGATCTGATGACCACT
TCTGCTGTTTCAAGAGAGCAACAGAGTACTCATATAAAATAAATAAATAAGTAAAAATTTAAAAAGTTATATATATATAAGTATATATACATAT
AAAATTATATATTATTTTACTCTCTATGTAAAAATATTTTATGCACAGACATACACACATACACACGCATATATGGGGGATTTGTTAGAGCG
GCTTACAGGCAGCAGTTCATGTAATCCAACAAGGTGCACGAGACTGGATGTCTCAGAAATCCCCATCTGGAGTCCCGGGGAAGTCTTAGAAAGC
AGGTGGTCCTGGGTCTACATTGGGATCCTGAAGAAGTCAGTGAGAAAGCAACCACAGCAGCAGAGCAGATGGACTTGCCAGTAAGAGTGAAGGC
AAGCAGGCAAAATGCAAACGCTTCCTCCTTCATACCCTCTATGGCTGCCACCAGAAGGCGTGGCCCAGGTGTTAGGCAGGTCTTCTGACCTCAG
AATCCAGAAATTCTCTGTCCCCCGTGCTGCAGAGCCGCAATGACCAGTTTAGATAATCCAGCACAGTTTGTTCATGTTCTCTAATTACAGCAGG
CCTTTTTATTTTTACTCTTAGGTGTGTTATGACATGGACTTTTGAAGAGCATCCAGTTTTTTTTTTTTAAAGATTTATTTATTATTATATCTAA
GTACACTGTAACTGTCTTCAGACGCACCAGAAGAGGGCATCAGATCTCATGGATGAGATGTGAGCCACCATGTGGTTGTTGGGATTTGAACTCA
GGATCTTTGGAAGAGCAGTCAGTGCTCTTAACCACTGAACCATCTCTCCAGCCCCGGGCATCCAGTTTTTAGACGGTTTGTCTTCACTGCAGCC
TTCCGCTCCAATCATGCCAAGCACTGTGCTCTTCCCCACTCTGTGACTGTGTCACACATTTGTGTGGCTCCATGCGACACTGTGCTGGGGCAGA
AAACCAATGAGGATGTGACTTCAGGGCCCACAGGTTTTATGTTTCTAGGAGAAAGACAAGCAGACCTATACATCAGATCAGTGTCTTGTGATTG
ATACTGTCACTAAAGTTAGCATGGCTACCCCAAGAAAAAAGGGGTGAGGAACAGGCAAGAGAGCAAGAGAGCCTCCCTTGGATGGAATCCAGAG
GGAGAGGGACTAGTCAAAGCCAGTCCAGGCTGGGCAGGCTTCTTGCTGGTCAGAAGGAGCCTTCCCAGAGCAGCTGGGAAGAATACGGGCAGGG
CAGGTAGTCAGGAGGACATGATGGGGATGGGGACAGACATCTAGGAGATGCCACATGAAGAAAGCCAGACTTGGAGAAGGAGGGCAGGAGTCAC
GGCACAGACATTCCTGTTTTTATAGGCTTTGTTCTTTTAAAGGCTGAGGAGAGCGTAGTGGACCCCCATGGGACACCATGTGCTCTCTTACAGA
GTTCATTCCCTTCAGAGACTCTGGGCTCTACTCTCATGTACTCCTCGAAACTCATCGTTATCTTCTGTCTGTCTGTCTGCCCCCTGTACCCTGT
ATGTGCATGTGAAAGCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATGAGAATGTGGGGCCCATGTACCGTAG
TGTGTGTGCAGAAGTCAGAGGACAAACTGTGGGAGTTAATTCTTCCACTGTGGGACCCAGGAATCGAACTCAGGACATCAGGGTTACATGGTTA

ATGCGTTTTCTCACTGAGCTGTCATCTCTTTGGTCCCCCCAAACTCACTTCTTCTGAATGCTTTCTTCGATCTTAATCTATTTATTCATTTAGA
GACACGACCTCTATGTGTAGTCCAGGCTGGCCTCAAACTTAGAAATCCTCCTGCCTCAGCCTCTCCAGTGCTGCGATTATGGATCTGCACCACT
AGGCCTGTCAGATATGATGCACTTTTATTCTGAAAGCCAGTTCTTTATCCAAAAGGGATTCTGTTCTCGCACGCACACACGCACGCACAGGAAG
CTGGCTGTTAGAAGCGTCTCTGGAGCTAGGCGAAGGCCCCCTTTGGCACTTCTTTGGCTCATAGCTCCAGGGATGCCTCAGATGACTGCAGCTG
AGTTAACTTAGGACTCAGCCAGTGTTCTCGGGATGTATGACAGTCATGGGTCTCTGTCCTCTGTAACTGTTGTGAGTCTCTCTCTGAAGGTGTA
AGTCACAGACCATGTCATTCCAGCCTCTCTCTTCCAGTGTGTCCACAGAGACCTGGCAGCCAGGAATGTGTTGGTCACCCACGGGAAGGTGGTG
AAGATCTGTGACTTTGGACTGGCCCGAGACATCCTGAGCGACTCCAGCTACGTCGTCAGGGGCAACGTGAGCCGTTTGCTTTTTGTCACGAGTA
CAGGAAACACCTGCACTCTCTGTGATGCGTTTTTGATTTATGGTGACACCAAGGGGAGAAAAAAAAAACTCCCAGTGCTTCACTTCTTTAGGCT
GAAAAGATTGTTTTGTGCTCACTAAGAGCTAAGCAAAATAGCCACGCATCTCTGGGGGGCTGGCCACTCAGAACAGATCCATTAGGGGTTGGCA
TGAGATCTTCACCTGAAAAAAAAAATGCCCTTACTCAGACCTGTTTCGGTTTCCTTAGCTATAAAGTGGCTTTATATGTGTTTTATGTTTCCGA
TCATGAGACAAGCTAGCATGTATAAAAAGCTTTTTGTTTTTTTTTTTTCTGAACAGGCAGCACACAGGTATTCACTATAAAGTTTAAAGGTGCT
GTAGTTAACTGGTAGCGTTTGTTACCCTGTTACTATATGAAGAGTTCAGGAAGACTCCAAATACAACATAACTGACATGTGTTCGTTCAAAGAG
AATGTGAGGGGGCCAGAGAGATGGCTCAGTGGTTAAGAGCATAGAGTGCTTTTCCAGGGGACCCAAGTTTGATACCCAGCACCCACGGCAGGAT
GCTCGCAAGCATCTATAACTCCAGCTCCAAGGAATCTAGTGCCTCTGGCCTCTTTGGACATGTGTGCTCATGTGCACATACTTACACATAAGTG
AAAATCAATTCAAAGTATGATGAGGCAAAAAATGAATGTTTAAGAAGGGAAGAAAGAGAGAGAAAGAAAGATAGACAGAAAATGATAGATAG
ATAAACAGACAAATGATTGATAGATAAACAGACAGAAGACATATAGACAATGATAGACAGACAGATAGACAGTGAGATGTCTCAGCAGGTAAAG
GTAGTTGCTACCAAGCCTGAGGGCTGGAGTTGCCCCCCAAAAACACATGGTGGAAAAACTGGAATGGTATAAGTTGACCTCTGACCTTCACCTG
TGTGCCGAGCATGCACCCTCCCCCAGCGCCCACACACATGCACAGGAATAAAAACATAATTATTCTTCTTTTCATTTTTCAAGACAGGGTTTCT
CTGTGTAGCCCTGGCTGTCCTGGAACTCACTCTGTAGACCAGGCTGGCCTCGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNGGAGTCTCAGTACCATCATCCCTGCTTATGAAATGACAGCAGCCCAGGCTGCCCCAGTTCCTCCTCTCTGCTCGACACTC
TCAGTACTCACTTCGGTCTGAAAATACCCACTCTGTGAAGAGGAAATTGAGACAAAGAAAAGCAACTTGCCCGCGGTTGCTAACTTGCCCCGTG
TGGATGCGAGCGTGCAGAGCCTGCATCCCTGTCGTTCACGGTGGTGTCCTCCTGACTAACTTCCTACAGGATTCTGATTTTACTTCCTAGGTTC
TCAGAAACCAACCAATACAATCAATGACATAGCCCTTTAACCCAAAATGAGAACTCCAATGAATGCTCATCTCAGGTGGCTTAGAGCCGGTTCC
CAGGGATGGTCGCTGGCTGTGGTTACAGTACACTGACCTCTCTGTGTGCTTATGGGGTTTTCACCCCACCAGTGGGCTCTCCTGTGGGAAGGTG
AATTCCGTTCAGAACCTTCTGTTAATGAATCAGGTAACCCAGCCTGGACCACAGATTGGGCCAGTGACTCCATTTGCATAGGATTTAAAAGAGG
ATTTCCTTCTGGGGCTCTTCTTTAGCCTGGCCAATTAAACACATGAGGTTCCTACTGGAACCAAATCAGAACAAAACTCCGTGCCCCAGGAGCT
AACCAGCCACTGTGTCCTGATGCAAATCAAAGCCTGTGCAAACAGAGGCCAACCCCCTGTCCCGCCTCTGGAAGTTATTCAAGCCCCGGAGGGC
AGCTATGGTTACTCTAGGCATGATCACGTAAGTCCTTGAGGGCGATGCTTCTCAGTTCTGAGGAAAGCTCCCGTAAATGATTCTCCCCGCGGCC
TTGAACTTGTCGACCTCTGAGCAAATACAGAGCTCTTCCTTAACGAACGAACGGCATCGCTACGGCACTTGCCAATCCCAAGCACAAGCCTGTG
TCCAAGATGACTTTTAAAGAAGTGTATTTTGCCAGGAGTGGTGCCCTACGCCTTTAAACCCAGCTCTCAGGAGGCAAAGGCAGGTTGATTTGTG
TGTTTGAGGCCCTATTCTGCTTATGTCACCAGAGCTACATAGTGAGACCTTGTCTCAAAATAGAAAAACAGATGAGCTGGACGGTGGTGGCGCA
CGTCTTTAATCCCAGCACTTGGGAGGCAGAGGCAGGTGGATTTCTGAGTTCGAGGCCAGCCTGGTCTACAGAGTGAGTTCCAGGACAGCCAGGG
CTACACAGAGAAACCCTGTCTCAAAAAAGAAAAGAAAAAAAAAAGGAAAACAAATGATAGATAGATAGATAGATAGATAGATAGATAGATAGAT
AGATAGATAGATAGAGAGAGAGAGAGAGAGATCGCTATAGGTAGGTAGGTAGATAGGTAGGTATAGACAGGTAGATAGATAAACAGATACTTAG
ATAGATGTTAAATATAGATAATAGATGATAATGGGTGGATAGATGGATAGATAGATAAGAAACGTATTTCTAAAAAGCTTCTACTTTTTCTTTT
TTTCTAGAACATGATTTTAATATTTTCAACTTAATATTCAACAGACAGAATAATTATTTTAAGATATATTTTGTTGTTATGTCTCCTTTTCATT
TCTGATGTTATTAATTTGAATACTGTCTCTGTGCCCTCTGGTTAGTCAGGCTAAGGGTCTATCTATCTTGTTTTTTCTCAAAGAACCAGCTCCT
GGTTTTGTTGATTCTTTATAGAGTTCTTTTTGTTTCTATTTGGCTGATTTCAGCCCTGAGTTTGACTATTTCCTGCCGTCTACTCCTCTTGGGT
GTATTTGCTTTGTTTTGTTCTAGAGCTTTCATGTGTGCTGTCAAGCTGCTAGTGTGTGCTCTCTCCAGTTTCTTTTTGGAAGCACTCAGAGCTA
TGAGTTTTCCTCTTAGCACTGCTTTCATTGTGTCCCATAAGCTTTGATATGATGTGCCTTCATTTTCATTAAATTCTAAAAAGATAGACTTTAC
TTTCTTTTTTTATTTCTTCCTTGACCAAGTTATCATTGAGCAGAGCATTGTTCAGCTTCTGTGTGTATGTGTGCTTTCTGTTGTTTTTGTTGGT
ATTTAAGACCAGCCTTAGTCTGTGGTGATCTGATAGGGTATATGGGATTATTTCAGTCTTCTTGTATCTGTTGAGGCCTGTTTTGTGACCAATT
ATATGGTCAGTTTTGAAGAAGGTACTGTGAGGTGCTGAGAAGAAGGTATATTCTTTTGCTTTAGGATGAAATGTTCTATAAATACCTGTTAGAT
CCATTTGGTTCATAATTTCTGTTAGTTTCACTGTGTCTCGATTTAGTTTCTGTTTCCATGATCTGTCCATTGCTGAGAGTGGGGTGTTGAAGTC
TCCCGCTATTATTGTGTGGGGTGCAATGTGTGCTTTGAGCTTTAGTAAAGTCTCTTTTATGACTGTGGATGCCCTTGCATTTGGAGCATAGATG
TTCAGAACTGAGAATTCATCTTCTTAGATTTTTCCTTTGACCAGTATAAAGTGTCCTTCCTTATCTTTTTTGATAACTTTTGGTTGAAAGTTGA
TTTTATTCGATATTAGAATGGATACTCCAGCTTGTTTCCTGAAACAATTTGCTTGGAAAATTGTTTTCCAGACTTTTACTCTGAGGTCGTGTCA
GTCTTTGTCACTGAGGTGCATTTCCTGTGTGCAGCAAAATGCTGGGTCCTGTTTATGTATCCAGTCTGTTAGTCTATGTCTTTTTATTGGGGAA
TTGAGTCCATTGATGTTAATAGATATTAAGGAAAAGTGATTGTTACTTCCTGTTATTTTTGTTGTTAGAGGTGGAATTATGTTTGTGTGGCTAT
CTTCTTCTGGGTTTGTTGAAAGATTACTTTCTTGTTTTTTCTAGGATGTAGTTTCTCTTCTTGTGAAGTGTTTTCCATCTATTATCCTTTGTAG
GGCTGGATTTATGGAAAGATACTGTGTAAATTTGGTTTTGTCATGGAATATCTTGGTTTCTCTGTCTATGGCAATTTAGAGTTTTGCTGGGTAT
AATAGTCTGGGCTGGCATTTGTGTTCTCTTAGGGTCTGTATGACATCTGCCCAGGATCTTCTGGCTTTCATAGTCTCTGGTGAGAAGTCTGGTG
TAATTCTGATAGGTCTGTCTTTATATGTTACTTGACCTTTTTCCCTTACTGCTTTTAATATTATTCCTTTGTTTAGTGCATTTGGTGTTTTGAT
TATTATGTGATGGGAGGAATTTCTTCTCTGGTCGAGTCTATTTGGAGTTCTGTAGGCTTCTTGTATGTTCATGGGCATCTCTTTCTTTAGGTTA
GGGAAATTTTCTTCTATAATTTTGTTAAAGATATTTACTGGCCCTTTAAGTTGGGAATCTTCACTCTCTTCTATAACTACTATCCTTAGGTTTG
GTCTTCTCATTGTATCCTGGATTTCCTGGATGTTTTGGGTTAGGAGCTTTTTTGCTTTTTGCGTTTTCTTTAACTGCAGTGCCAATGTTTTCTA
TGGTATTTTCTATACCTAAGATTCTCTCTTGTATTCTGTTGGTGATGCTTGCATCTATGACTCCTGATCTCTTCCCTAGGTTTTCTATCTCCGG
GTTTGTCTCCCTTTGTGATTTCTTTATTGTTTCTATTTCCATTTTAGATCTTGGATAGTTTTGTTCATTTCCTTCGCCTGTTTGATTGTGTTTT
CCTGTAATTCTTTAAGGGAGATATTTATGTCCTTCTTAAAGTCCTCTATCATCATCATCAGGAGAAGTCATTTTAGAGCCCAATCCGGTGTGAT
GTGTATCCAGGACTTGCTATGGTGGAAGAATTGGGTTCTGATGATGCCAAGTAACCTCGGTTTCTGTTGCGTGTGTTCTTACACTTACCTCCTG
CCATCTGATTATCTCTAGCGCTACCTGCCCTGGCTATGTCTGACTGGAGCCTGTCCTTCCTGTGATCCTAGTTGTATCAGAGCTCCTCGGAGTT
CAGCTGTCTCTGGGATCCTGTGGTTCTGGGATTCTGAGATCCTGGGGTGTTCCTGGGTGCCTGGGTCCCTCCTGCTGGTCCCAGTTACTTCTGG
TGGTGGAACAGGTGTTGCTCTCCTCCTCCACCTGATCATATCCTCCTTTTCCATATCAAGCATTAAAAGTGTTCTTAGGTTTAAATTTTATCAT
CTAATGCTGGGCAATGGTGGCATACACCTTTAATCCCAGCACTCAGGAGGCAGAGGCAGGTGGATCTCTGTGAGTTTGAGGCCAGCCTGGTCTA
CAGAGCCAATTCCTGGACAGCCACGGGTGTATGAAGAAACCCTCCCTTGAAAAACAAAAATAAGTTGAGTAAATAAATAAATAAGTAGATATTG
TCATCCAATGGAAAACAAAAACTAAAACTTGGAAAGGCTGGAGAGACAGCTCAGTGGTTAAGAGCACTGGCTGTTCTTCCAGCCGATCCGGGTT
CAATTCCCAGCACCTTCATGTCAGCTCACACTTGTTTGTAACTCTAGTTCCAGGAAACACAGCACTTTTACAGACAGACATGAAGGCAAAACAC
CAAATAAATCTTTTTTTTTTTTTAAGTGGCCTCAAGTTTTAAATTTTATCATCTAACAACAACAAAGAGGGGCTGGAGAGATTGCTCAGTGGTTA
GAGCACTGGCTGCTCTTGCTGAAGACCCAGGTTCAGTTCTCAGCACCCATATAGTGGCTCACATCCATCTAGAATGTCAGTTTCAAGGGATCCG
ACACCCACTCCTGGCAGCCTCTGGCACTGTATGCATAAGGTGCACTTACATACATGCAGGCAAAACACCCATGCACATAAAATTAAAAACAAAA

CAAAACAAAACAAAAAAAAACTTTAAAAAAATCTCCAAGTCTGCATGTGGGGGAACTTCACCAGCCTCTCTTGAATCGTACACAGGCACGGCTG
CCGGTGAAGTGGATGGCACCCGAGAGCTTATTTGAAGGGATCTACACAATCAAGAGTGACGTCTGGTCCTACGGCATCCTTCTCTGGGAGATAT
TTTCACTGGGTATGTGTGGCACTCTGCAGGCCTCCTTGGGCTCTGGCTTTGTGTCCCCCACCCCTCTGTACCCTTCCTTTACCCTGCATGCCAA
GGGCGGTTAACACACCACTCAAGACCCTAGCTTCTAGTCTTGCCTCTGTTGCCAGAGTTATTTGCTGACATCTGAGATCTTTCTTTCCCACACT
CTGTAATTGATTAAGAGGCTTGGGGCCCTCTGGATCCACTTGCAGCCCTCAGTACAGGGTGGGTCTGGCACTGGGGAATTCTCTTTGCTTGTTT
TCAGACAGAATGTATACCAAATAGACAAATAGGAAGAACAGTGTTTGTGAGGCCCCACTGAGCGCGTGTTTTTCTCAGGTGTGAACCCTTACCC
TGGCATTCCTGTCGACGCTAACTTCTATAAACTGATTCAGAGTGGATTTAAAATGGAGCAGCCATTCTATGCCACAGAAGGGATGTGAGTACAG
CCAGACCGGGGTTGGGTATCAAACATTTACCGTGTGCTCTAAGTCCTCCAGATGCATTGCAAAAACAAAAGCTTGATGGCTTTGTTGGTTTGTT
TGTTTCTTCTTTCTGTTTTGTTTTCTTTTTGAGCCAAGGTTCCCCTGTGTAGCCCTGGCTGTCCTGGAATTGACTCTGTAAACCAGGCTGGCCT
CAAACTCAGAGATCCAGCTGTCTCTGCCTCCTGAGAGCTGTTATTAAAAATGGGCACCGCTGGGCTGGTGAGATGGCTCAGTGGTTAAGAGCGC
AGACTGCTCTTCTGAAAGCCCCTAGTTCAAATCCCAGCAACTACATGGTGGCTCACAACCAAACGTAATGAAAACTGATGCCCTCTTCTGGAGT
ATCTGAGGACAGCTACAGTGTACTTACATATAATAAATAAATACATTTTTAAAAATGTGCACTGCCACCACACCTGGTTAAAACACACTTTCCT
ACGACATTGCTGAGATCTTATTTATTTATATTTATTTATTCATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTAATGTATGT
GAGTATACTGTCACTATCTTCAGAGATACCAGAAAAGGGCATTGGATCCCACTACAGATGGTTGTGAACCACCATGTGGTTGCTGGGAATTGAA
CTCAGGACCTCTGGAAGAGCAGTCTTAACCACTTAACCGCTGAGCCATCTCTCCAGCCCTTGTTTGCTGTTTAAAAGCAGAGACATCTTGGTAC
AGTGGCACCCACCTTTAATTCCCACAGCGAGGAAGCAGAGAGGCAGCCAGATCTCTGTGATTTGAGGCCAGCCTGGTCGACAGCCAAAGCTGTG
TAGTGAGATCCTGTCTTGAAAAAAACAATCGCCAATCAATCAATAAATTGGGGGGGGGGGGCAGGAAGGGCAAGGAGACACTTGCCTATAATCC
CAGTACTCCAGAGGTAAGGTATGAGGCTGTAGGCTAATCTGTGCTAATAGCAAGACAAGAAAGGAAGGAAGGAANNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNGAGGGAGGGAGGGAGGGAGGAAGGGAGAGAGAGAGAGAGAGAGAGAGAAAGAGAGAGAGAGAAAGGAAGGAAGGA
AGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAAAGAAAGAAAGAAAGCTTCAGGTAGCTTGCGCCCTCTTGGGCAGC
CTCCAAGGCTTCATTCTTCTGCTTGTGGTACCTGAGGATTTGACTTCACCTCACTCTCTGGTGTGGTACCAATTCTAGTCTTCCCACAAAGCCA
GCAGCGCACAGTGCACAGCCCCCACCCCCCACCCCCATGCTGCCCTGGGTGTGAACTGTGGGTGGAGCCTTGCCAAGTTCATTCACACCCCCTC
AGCTCTGCTCTGTTTTGCTCTCTCACAGATACTTTGTAATGCAATCCTGCTGGGCTTTTGACTCAAGGAAGCGGCCATCCTTCCCCAACCTGAC
TTCATTTTTAGGATGTCAGCTGGCAGAGGCAGAAGAAGCGGTACGTGGAGGCTTGGCTTAATCATAACGGTCCCCAGGGAGATGTGTGGGTGTC
ACACCGGGCACTAATGGCCTCAGATCCGGTTTAGGCCGACCATCTTTCTCACCTCACTTTGCCTAGATTACCCTTCCACAGTCCTGTGCAGAAG
ATGTACTATCTGGTGTGGGCTTGGGGGCGGGGCTTTCCTGTGATTTCATCCAAGTGATTAATAGGTTAAAAGCTCTTAAGGGTCCAGTGCAAAG
GGCTAGACAACTAAATAAACCTTAACTCCTCCAGGAGCCACTGGCCTTTTCTAAGTCAACATGGTGTGAGGGTGGGTATGGATGGGAAGGGCTT
TAGCCCAAAGCCCTGAGGACCCATTCAGTCTCTGCTGCTCATTCCCCACTGATCTGAACGATGGCAAGTTTCTTCTTTGGCCTCGGTGTTCCCA
TCTGTAAAATGGGTTGCAAAGGTAAATGATCCTCAAGCAGCAGGATCTTGGTATTACGTCATTAGCCCCTCCTCCTTAGCACTCTTAGCACAGG
AGAGGTCTGCTCCAGATAAGGGTGGAGCCTTGAACACTCAGAGCCCAGGTTCAGATCCTGCCTCCGTCACTAGTGTCTCACATAGTGACTCACA
TAATGTCTCACATTAGTGACTTTAATGTCACTAATGTCTCACGTAGCATTTGCAACTTTAGACTTTAATGTGGACATCTTGTGGGATGATAGTT
CTGTAAAGGACAAATCACCTGCCATCTGCCCTTTTCCTACTTTTTATTAAAAATGAGTGGCGGGCTGGTGAGATGGCTCAGTGGGTAAGAACAC
CCGACTGCTCTTCCGAAGGTCCAGAGTTCAAATCCCAGCAACCACATGGTGGCTCACAACCATCCGTAACGAGATCTGACTCCCTCTTCTGGAG
TGTCTGAAGACAGCTACAGTGTACTTACATATAATTAATAAATAAATAAACAAATAAATAAATATAAATAAATAAATAAATAGATTTAGTCTTT
TAAAAAAAATGAGTGGCTGCTGTTTCAGAAAAAACAAAACCCATGGAGGGGACTGGACAGATGGCTCAGTAGTTAGAGCACTGGCTGCTCTTG
CAGAGGATCAGGGTTCACTTCCCAGTAAACAGGGTAGCTCACAGTCACCTATACCTCCTATTCCAGGAGCTCCAGCGCCCTCTTCTGGCCATTG
CAGGCACTGCATTCAAATACTGACACAGGTGCACACTTGCACACATAAAGTAAATAAAACTTCAAAACAAGCCTGGAAACTACCCAAATTCATA
GTTTTATATTTTTAAGATTATTTTACTTTTCAATTACATGTAGTAGTGTTTACAGGGACCCTCAGAAATCAGAAGAGGGTGTCGAATCCCCTGG
GGCTGGAGTTACAAGCAATCGTGAGCCACCTCACATGGGCTCTTAGAACCAAACTCAGGTCCTCTTCAAGAGCAGCAGGTGTTCTAACCACTGA
GCCATCTCTCCAGCCCCTAAACTCATACTTCATGATCTGTATAAAAGTAAGGTGTATTTAAGTACTGTGCTTTCTAGGCACACAGGCGAGTCCT
GCTCAGCCGGTCATTCTTCTCCCTTTCCAGATGTATCAGAACATGGGTGGCAACGTCCCAGAACATCCATCCATCTACCAAAACAGGCGGCCCC
TCAGCAGAGAGGCGGGCTCAGAGCCGCCATCGCCACAGGCCCAGGTGAAGATTCACAGAGAAAGAAGTTAGCGAGGAGGNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

GATACAGGAATTTGCAAAGCCCCTTGAGCTACTTGTCGTGAGATGTGTGTTGATAGAGCAAGGCAGAATAGTGATGTGAGCTACCCAAGCCTCT
TCCTTCTTTCAAAGTGATTTTGCCCAGGGCATGTGCACATTGTGTCTGTGACATCCCTCTGGATGGAGCCAAACACACAGTCACATCTGGAGTC
ATGTCCTTGTGTGCAGCGTTAAAACCCTCAAAGGACTTCATTTCCACGGAAATGGATATTCTCTTGTGGGTTTCGTAAAAGTGGTTTTATAGCC
TTAATACTACCAAATGCTTCTTTTAATAGCATAATATTGGGGCTGGAAAGACAGTTAATAGTCCATACTGCTATTGTGGAGGACCTGAGTTCAA
TTCCTAGCACTCACAACTGGAACATCACAGCCTCTGGCAACTCCAGTTCTGAGGGATCTGACGCCCTCTACTGGCCTCCATGGGCACTGCATGC
ACATAGTGCATACACACACTCAGGCACATACACATAGACATAAAATACATAAATCCTTCTTTTAAAAAGCGTAATATTGACTTGTTCTTCAAAG
ATGTATTCATGTTATGCAGTGATCATCCCTAATCTGAAATACTAAAACCCAGAATCTGAGCTTGATGAACATCCGCATAATACGTCACACACAC
ACACACACACACGGAAAAGAGAGAGAGAGAGAGAACTCGATGCCTGGCCTCCAATGAACAGACGTTAGAATGAAGTGAGTTAAAATTATCACATCA
AGTTACCACCAGGCTGTGTACATAAGGCACACATGAAATGTTAACTGATCCTTTGAATTATATGTGCAAAATTATTCCAGTCATAGCAAGTTTA
GTCTGGTTCCTGTCACTCCAGCCAAGGGGTACTCTACCTGCCTTACCCCAAGCTGACATTGTCCATATTGCTGATGTCCTATGAAAACACACTC
CTTGACCACCATCTTCAAACTAAGGACATTTGAATATGCTTCTGGGCTGTGTCGGGTAGAGGTTTGGAGCATCTCCTTCATAGAAAGTGAAGTC
AGCAGAGGTGGAAACTTAAGGGCTCGTTGGAAAGTCAGTGGTGCGGGAAGGTGTTTGCTAAGGCAGACACGTGAAGGAATATTTAGCTGAAGCA
GACACAGGAGAAAAGGATGTTCTGCTAAGGCAAGCATGTGATGAAGGACTCTTTGCTAACAACACGCATGCGTTAGTCCATCTTACGTTGTGTA
GCTCTATTTGTCCGGAATCTATAGAGAGAAATGCACCAAAACAAAACAAAACAAAAAACAACTTCTGGTGGTGTATTGTGGCTTCTTGCTGCTC
CCAAGGACTCCGATTGGCAGAGTAATGTCAGCTGAGACAGTCGCACAGGATGAGGCAAGACCTGTGGAGGACACGTGATGATTGGATGGAGTAT
AAGTAGAACTCAACAGACAGTCATGGAGACTGAGCTTGGCTTGTTTATAGAGCTAGCTGTGCAATGCTTGTTGATCTCTTGTCTTCACCAGTCT
TCGATTCCCCGAGAGAGGCACAGCTAAGAACTTCTCCTGTGTCCCTCTGGGTCCTTCCTGCTGACTCTGCTAGGTAGGTTGTGCCACCGCTGCT
GATTCTGTTTGCTGTCCCGGCTCTTCCAAACTGGACTGCTGATGTTTCTGTGAAGTGTTTGTGCGTGGATCGAGCTGCTGACCTGTGAACTGAA
CTGCTAATTTCCAGACAGCACAGACCGGAGTTGCTCTAAAGAACCTTTCTAAACAGGTCCACTTTCCCCGTATCCTCCCCCCCCCCCCACTTCC
TCTGGTGGGTGGTGGACTAAAAGGGAGGTTAAAGCATTTAAAAGCCATCATTAAAAATAAGGATTGGCAGAGCCGCACTCAGGCACTGCAGCGC
AGCTCAGGTCTGCACCAGGCGCGCGAAGGTGAGCCAGAGCCAAGATGGCTGTCCTTTCTAAGGAATATGGATTTGTGCTTCTCACTGGTGCTGC
CAGCTTTGATATGGTGCTCCACCTAGCCATCAACGTGGGCAAAGCCTGCAAGAAGGACAAGGTAGAGTACCCTGTCACCTACAGCATGGATCCT
GAAAGTGGGCATATGTTCAGCTGCATTCAGCGCGCCCACCAGAACGTGTTGGAGGTACACCCTCCCTCCCTGTTTTTCCTAACGGTGGGAGGTG
TTAACTACCCCCGTATAGCTTCTGGCCTGGGCTTGGCCTTGATTTCTTGGACGAGTTCTTTACACATATGGAGACCCTAGCAAGCGGTATCGAG
GAGCCACGGGGCTCTCTTGCCCTCTTTACTCTGATGGGCACCGCCATGTGCTCTGCTTCCCAGCATCCTCTGCTTCCCAGCATCTTGGCTGGAT
CAGACCGGGCTTAAGCTGCGGGTCCAGATCCTGCCACTGAGGAAAGGGGGGCCGGGGGGGGGCTTCCTATTCTCATTTGCCTCCTACGACTCAT
CCTGATTTCCAGTTCCACTGTTTAGTTTTTGTTGTTGTTTTAAATATAATAAAAACTTACCTGACATCAGCCTCATACCTAAAAATGAAGAAAT
AAAAATAAAAATAAGGATTGAAAAAGTTAAGGTTACAGTTAGGATCACAAAGCATGCCCCTGTTCACTTTAGTGTGGGCCAAGCTGTGTCCCCT
GAGGGGAGGGTACCCCTCTTTTTCTTTCCCTTTCTTCCTTTCTTCCTTCCTTTCTTCCTTCCTTTCTCTCTTTTAAAAATGTATTTATT
TTATTTGTATGGGTGCTCTATCAGTACCTGCGTGACAGAAGAGGGCATCAGATGCCATTACAGATAGTTGTGAACCACCATGTGGTTGCTGGGA
ATTGAACTCGGGGCCTCTGGAAGAGCAGTGTACTGGCTGGTTTTGTGTCAACTTGATACAGCTGGAGTTATCACAGAGAAAGGAGCTTCAGTTG
AGGAAATGCCTCCATGAGATCCAGCTGTAAGGCATTTTCTCAATTAGTGATCAAGGTGGGGAGGGCCCTTTGTGGGTGGTGCCATCCCTGGGCT
GGTGGTCTTGGGTTCTATAAGAGAGCAGGCTGAAAGCCGGGCGTGGTGGCGCACGCCTTTAATCCCAGCACTTGGGANNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

AAGATGTACTCAATCTTTTTCACAATGTTTCTAGAACAGAGAGAGAGAGAAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAG
GAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGTCTCAATGTATTTGAAGGGTCATTTAAAAATCCT
TAATGGGAAGTGGTGGTGAAC

MOUSE SEQUENCE - mRNA
GCGGCCTGGCTACCGCGCGCTCCGGAGGCCATGCGGGCGTTGGCGCAGCGCAGCGACCGGCGGCTGCTGCTGCTTGTTGTTTTGTCAGTAATGA
TTCTTGAGACCGTTACAAACCAAGACCTGCCTGTGATCAAGTGTGTTTTAATCAGTCATGAGAACAATGGCTCATCAGCGGGAAAGCCATCATC
GTACCGAATGGTGCGAGGATCCCCAGAAGACCTCCAGTGTACCCCGAGGCGCCAGAGTGAAGGGACGGTATATGAAGCGGCCACCGTGGAGGTG
GCCGAGTCTGGGTCCATCACCCTGCAAGTGCAGCTCGCCACCCCAGGGGACCTTTCCTGCCTCTGGGTCTTTAAGCACAGCTCCCTGGGCTGCC
AGCCGCACTTTGATTTACAAAACAGAGGAATCGTTTCCATGGCCATCTTGAACGTGACAGAGACCCAGGCAGGAGAATACCTACTCCATATTCA
GAGCGAACGCGCCAACTACACAGTACTGTTCACAGTGAATGTAAGAGATACACAGCTGTATGTGCTAAGGAGACCTTACTTTAGGAAGATGGAA
AACCAGGATGCACTGCTCTGCATCTCCGAGGGTGTTCCGGAGCCCACTGTGGAGTGGGTGCTCTGCAGCTCCCACAGGGAAAGCTGTAAAGAAG
AAGGCCCTGCTGTTGTCAGAAAGGAGGAAAAGGTACTTCATGAGTTGTTCGGAACAGACATCAGATGCTGTGCTAGAAATGCACTGGGCCGCGA
ATGCACCAAGCTGTTCACCATAGATCTAAACCAGGCTCCTCAGAGCACACTGCCCCAGTTATTCCTGAAAGTGGGGGAACCCTTGTGGATCAGG
TGTAAGGCCATCCATGTGAACCATGGATTCGGGCTCACCTGGGAGCTGGAAGACAAAGCCCTGGAGGAGGGCAGCTACTTTGAGATGAGTACCT
ACTCCACAAACAGGACCATGATTCGGATTCTCTTGGCCTTTGTGTCTTCCGTGGGAAGGAACGACACCGGATATTACACCTGCTCTTCCTCAAA
GCACCCCAGCCAGTCAGCGTTGGTGACCATCCTAGAAAAAGGGTTTATAAACGCTACCAGCTCGCAAGAAGAGTATGAAATTGACCCGTACGAA
AAGTTCTGCTTCTCAGTCAGGTTTAAAGCGTACCCACGAATCCGATGCACGTGGATCTTCTCTCAAGCCTCATTTCCTTGTGAACAGAGAGGCC
TGGAGGATGGGTACAGCATATCTAAATTTTGCGATCATAAGAACAAGCCAGGAGAGTACATATTCTATGCAGAAAATGATGACGCCCAGTTCAC
CAAAATGTTCACGCTGAATATAAGAAAGAAACCTCAAGTGCTAGCAAATGCCTCAGCCAGCCAGGCGTCCTGTTCCTCTGATGGCTACCCGCTA
CCCTCTTGGACCTGGAAGAAGTGTTCGGACAAATCTCCCAATTGCACGGAGGAAATCCCAGAAGGAGTTTGGAATAAAAAGGCTAACAGAAAAG
TGTTTGGCCAGTGGGTGTCGAGCAGTACTCTAAATATGAGTGAGGCCGGGAAAGGGCTTCTGGTCAAATGCTGTGCGTACAATTCTATGGGCAC
GTCTTGCGAAACCATCTTTTTAAACTCACCAGGCCCCTTCCCTTTCATCCAAGACAACATCTCCTTCTATGCGACCATTGGGCTCTGTCTCCCC
TTCATTGTTGTTCTCATTGTGTTGATCTGCCACAAATACAAAAAGCAATTTAGGTACGAGAGTCAGCTGCAGATGATCCAGGTGACTGGCCCCC
TGGATAACGAGTACTTCTACGTTGACTTCAGGGACTATGAATATGACCTTAAGTGGGAGTTCCCGAGAGAGAACTTAGAGTTTGGGAAGGTCCT
GGGGTCTGGCGCTTTCGGGAGGGTGATGAACGCCACGGCCTATGGCATTAGTAAAACGGGAGTCTCAATTCAGGTGGCGGTGAAGATGCTAAAA
GAGAAAGCTGACAGCTGTGAAAAAGAAGCTCTCATGTCGGAGCTCAAAATGATGACCCACCTGGGACACCATGACAACATCGTGAATCTGCTGG
GGGCATGCACACTGTCAGGGCCAGTGTACTTGATTTTTGAATATTGTTGCTATGGTGACCTCCTCAACTACCTAAGAAGTAAAAGAGAGAAGTT
TCACAGGACATGGACAGAGATTTTTAAGGAACATAATTTCAGTTCTTACCCTACTTTCCAGGCACATTCAAATTCCAGCATGCCTGGTTCACGA
GAAGTTCAGTTACACCCGCCCTTGGATCAGCTCTCAGGGTTCAATGGGAATTCAATTCATTCTGAAGATGAGATTGAATATGAAAACCAGAAGA
GGCTGGCAGAAGAAGAGGAGGAAGATTTGAACGTGCTGACGTTTGAAGACCTCCTTTGCTTTGCGTACCAAGTGGCCAAAGGCATGGAATTCCT
GGAGTTCAAGTCGTGTGTCCACAGAGACCTGGCAGCCAGGAATGTGTTGGTCACCCACGGGAAGGTGGTGAAGATCTGTGACTTTGGACTGGCC
CGAGACATCCTGAGCGACTCCAGCTACGTCGTCAGGGGCAACGCACGGCTGCCGGTGAAGTGGATGGCACCCGAGAGCTTATTTGAAGGGATCT
ACACAATCAAGAGTGACGTCTGGTCCTACGGCATCCTTCTCTGGGAGATATTTTCACTGGGTGTGAACCCTTACCCTGGCATTCCTGTCGACGC
TAACTTCTATAAACTGATTCAGAGTGGATTTAAAATGGAGCAGCCATTCTATGCCACAGAAGGGATATACTTTGTAATGCAATCCTGCTGGGCT
TTTGACTCAAGGAAGCGGCCATCCTTCCCCAACCTGACTTCATTTTTAGGATGTCAGCTGGCAGAGGCAGAAGAAGCATGTATCAGAACATCCA
TCCATCTACCAAAACAGGCGGCCCCTCAGCAGAGAGGCGGGCTCAGAGCCCAGTCGCCACAGCGCCAGGTGAAGATTCACAGAGAAAGAAGTTA
GCGAGGAGGCCTTGGACCCCGCCACCCTAGCAGGCTGTAGACCGCAGAGCCAAGATTAGCCTCGCCTCTGAGGAAGCGCCCTACAGCGCGTTGC
TTCGCTGGACTTTTCTCTAGATGCTGTCTGCCATTACTCCAAAGTGACTTCTATAAAATCAAACCTCTCCTCGCACAGGCGGGAGAGCCAATAA
TGAGACTTGTTGGTGAGCCCGCCTACCCTGGGGGCCTTTCCACGAGCTTGAGGGGAAAGCCATGTATCTGAAATATAGTATATTCTTGTAAATA
CGTGAAACAAACCAAACCCGTTTTTTGCTAAGGGAAAGCTAAATATGATTTTTAAAAATCTATGTTTTAAAATACTATGTAACTTTTTCATCTA
TTTAGTGATATATTTTATGGATGGAAATAAACTTTCTACTGT

MOUSE SEQUENCE - CODING
ATGCGGGCGTTGGCGCAGCGCAGCGACCGGCGGCTGCTGCTGCTTGTTGTTTTGTCAGTAATGATTCTTGAGACCGTTACAAACCAAGACCTGC
CTGTGATCAAGTGTGTTTTAATCAGTCATGAGAACAATGGCTCATCAGCGGGAAAGCCATCATCGTACCGAATGGTGCGAGGATCCCCAGAAGA
CCTCCAGTGTACCCCGAGGCGCCAGAGTGAAGGGACGGTATATGAAGCGGCCACCGTGGAGGTGGCCGAGTCTGGGTCCATCACCCTGCAAGTG
CAGCTCGCCACCCCAGGGGACCTTTCCTGCCTCTGGGTCTTTAAGCACAGCTCCCTGGGCTGCCAGCCGCACTTTGATTTACAAAACAGAGGAA
TCGTTTCCATGGCCATCTTGAACGTGACAGAGACCCAGGCAGGAGAATACCTACTCCATATTCAGAGCGAACGCGCCAACTACACAGTACTGTT
CACAGTGAATGTAAGAGATACACAGCTGTATGTGCTAAGGAGACCTTACTTTAGGAAGATGGAAAACCAGGATGCACTGCTCTGCATCTCCGAG
GGTGTTCCGGAGCCCACTGTGGAGTGGGTGCTCTGCAGCTCCCACAGGGAAAGCTGTAAAGAAGAAGGCCCTGCTGTTGTCAGAAAGGAGGAAA
AGGTACTTCATGAGTTGTTCGGAACAGACATCAGATGCTGTGCTAGAAATGCACTGGGCCGCGAATGCACCAAGCTGTTCACCATAGATCTAAA
CCAGGCTCCTCAGAGCACACTGCCCCAGTTATTCCTGAAAGTGGGGGAACCCTTGTGGATCAGGTGTAAGGCCATCCATGTGAACCATGGATTC
GGGCTCACCTGGGAGCTGGAAGACAAAGCCCTGGAGGAGGGCAGCTACTTTGAGATGAGTACCTACTCCACAAACAGGACCATGATTCGGATTC
TCTTGGCCTTTGTGTCTTCCGTGGGAAGGAACGACACCGGATATTACACCTGCTCTTCCTCAAAGCACCCCAGCCAGTCAGCGTTGGTGACCAT
CCTAGAAAAAGGGTTTATAAACGCTACCAGCTCGCAAGAAGAGTATGAAATTGACCCGTACGAAAAGTTCTGCTTCTCAGTCAGGTTTAAAGCG
TACCCACGAATCCGATGCACGTGGATCTTCTCTCAAGCCTCATTTCCTTGTGAACAGAGAGGCCTGGAGGATGGGTACAGCATATCTAAATTTT
GCGATCATAAGAACAAGCCAGGAGAGTACATATTCTATGCAGAAAATGATGACGCCCAGTTCACCAAAATGTTCACGCTGAATATAAGAAAGAA
ACCTCAAGTGCTAGCAAATGCCTCAGCCAGCCAGGCGTCCTGTTCCTCTGATGGCTACCCGCTACCCTCTTGGACCTGGAAGAAGTGTTCGGAC
AAATCTCCCAATTGCACGGAGGAAATCCCAGAAGGAGTTTGGAATAAAAAGGCTAACAGAAAAGTGTTTGGCCAGTGGGTGTCGAGCAGTACTC
TAAATATGAGTGAGGCCGGGAAAGGGCTTCTGGTCAAATGCTGTGCGTACAATTCTATGGGCACGTCTTGCGAAACCATCTTTTTAAACTCACC
AGGCCCCTTCCCTTTCATCCAAGACAACATCTCCTTCTATGCGACCATTGGGCTCTGTCTCCCCTTCATTGTTGTTCTCATTGTGTTGATCTGC
CACAAATACAAAAAGCAATTTAGGTACGAGAGTCAGCTGCAGATGATCCAGGTGACTGGCCCCCTGGATAACGAGTACTTCTACGTTGACTTCA
GGGACTATGAATATGACCTTAAGTGGGAGTTCCCGAGAGAGAACTTAGAGTTTGGGAAGGTCCTGGGGTCTGGCGCTTTCGGGAGGGTGATGAA
CGCCACGGCCTATGGCATTAGTAAAACGGGAGTCTCAATTCAGGTGGCGGTGAAGATGCTAAAAGAGAAAGCTGACAGCTGTGAAAAAGAAGCT
CTCATGTCGGAGCTCAAAATGATGACCCACCTGGGACACCATGACAACATCGTGAATCTGCTGGGGGCATGCACACTGTCAGGGCCAGTGTACT
TGATTTTTGAATATTGTTGCTATGGTGACCTCCTCAACTACCTAAGAAGTAAAAGAGAGAAGTTTCACAGGACATGGACAGAGATTTTTAAGGA
ACATAATTTCAGTTCTTACCCTACTTTCCAGGCACATTCAAATTCCAGCATGCCTGGTTCACGAGAAGTTCAGTTACACCCGCCCTTGGATCAG
CTCTCAGGGTTCAATGGGAATTCAATTCATTCTGAAGATGAGATTGAATATGAAAACCAGAAGAGGCTGGCAGAAGAAGAGGAGGAAGATTTGA
ACGTGCTGACGTTTGAAGACCTCCTTTGCTTTGCGTACCAAGTGGCCAAAGGCATGGAATTCCTGGAGTTCAAGTCGTGTGTCCACAGAGACCT
GGCAGCCAGGAATGTGTTGGTCACCCACGGGAAGGTGGTGAAGATCTGTGACTTTGGACTGGCCCGAGACATCCTGAGCGACTCCAGCTACGTC
GTCAGGGGCAACGCACGGCTGCCGGTGAAGTGGATGGCACCCGAGAGCTTATTTGAAGGGATCTACACAATCAAGAGTGACGTCTGGTCCTACG
GCATCCTTCTCTGGGAGATATTTTCACTGGGTGTGAACCCTTACCCTGGCATTCCTGTCGACGCTAACTTCTATAAACTGATTCAGAGTGGATT

TAAAATGGAGCAGCCATTCTATGCCACAGAAGGGATATACTTTGTAATGCAATCCTGCTGGGCTTTTGACTCAAGGAAGCGGCCATCCTTCCCC
AACCTGACTTCATTTTTAGGATGTCAGCTGGCAGAGGCAGAAGAAGCATGTATCAGAACATCCATCCATCTACCAAAACAGGCGGCCCCTCAGC
AGAGAGGCGGGCTCAGAGCCCAGTCGCCACAGCGCCAGGTGAAGATTCACAGAGAAAGAAGTTAG

HUMAN SEQUENCE - GENOMIC
CACTGAGACGCACATGTTATCTTTCAAACAAGTCAATGGACTAGAATAAATCATCCTTTCTCAGCATGTGGTCTGTTGAACAACTGTGTAAGAA
TCATCTGAGCAAATGTTTAAAATGTGGATTCCTGGCTCCCATTCCAGACATGCTGACTCAAAACTGGGGCAAAACGCTCAGACTCTGCTTTTTT
AATGAGAACCTTTGGTGATTCCTATCACAGGTCTAGATCTGTGCTGTCCGGTACGGTAGCCACCAGCCACATGTGGCTATTGAGAGCTTGAAGT
GTGTCTGGTCCAAATTGAGATGTACTCTAATTGTAAAATACACACTAGATTTTGAAGACTTAGTATGAAAAAAAGAATGTAAAATATATTATTA
ATAATTTTTATATTGGCCGGGCTCGGTGGGTCACACCTGTCATCCCAGCACTTTATGAAGCCAAGGCGGGTGGATCGCTTGATCCTAGGAGTTT
GAGACCAGCCTGGATAACATGGCAAAATCCCATCTCTACAGAAAATACAAAAATGAGTTGAGTGTGGTGGTGTACACCTTTAGTCCCAGCTACT
TGGGAGGCTGAGGTTGGAGGATTGATTGAGCCCAGGTGGTCGAGGCTGCAGTAGCCATGATCACGTCACCGCACTCCAGCCTGGATGCAGAGCA
AGAACCTGCCTCAAAAAGAAAAAATAATAATAAAATTAAAACAATTTTTACATTGATTATATATTAAAATGATAGTATTTTGGATATATCGCAT
TCAGCGAAATATGTTATTAAACTTAATTTCACCTGCTTCCTTTTACTTTATACAGCCAACAGAATTTGTAAATGATGTACAAGGCTTGAAGTTG
TGACTCACATTCTGTTTCATTGGCTAGCCCTGTTCTAGATGAAGAGTAGGAGTTCTTTTCACCTTGATTCCGCTAAGTGTTTGTTTCATGATTA
TTGTTACTCTTTATACCTAAAAGGGATTTGTACTAAAAGTCCCTTGTTGGGACTTTTAGAATCTCAGTGCAGGGTTTGCATGGAGTTGTCTACT
GTCTCTTACTGAAACCCCCCAATGTTCAGAGCATTCATTTTTAAAGTAATTAAGAATGCAGACTGGTCTGGGAGCTGACTGAAACACACTCCCC
CAAACTCAGGGTTTGTCAACAGTGGCGCTGCTGGCATGTTGAGCTGGATAATTCTTTGTTGTGAAGGACTGTCCCGTGCACTGTAGGATACTTT
TCAGCATCCCGGGTCTCCTCCCACTGGATGCCAGGAGCACATTCCCTTTTCCCAGTGTGACCAAAAATATCTCCAGACACTGCCAAATTGAGAA
AAATAACCCCTGGCATTTTTTTTTTTTTTTTTTTTTTGAGAACCATTGCCTTAGAGGCATCAACCCACAGTCATCGTAAGCTGTTATTCAGAAA
TATCAAGCTTTTTTTTTTTTTTTGAGACAGAGTCTTATTCTGTTGCCCAGACTGAAGTGCAGTGGCACGATCTTGGCTCACTGCAAGCTCCTGG
GTTCAAGCAATTCTCCTGCCTCAGCCTCCTAAGTAGCTGGGATTATAGGTGCATGCCACCATGCCCAGCTAATTTTTTGTATTTTTAATAGAGA
CGGGGTTTCTTCATGTTGGCCAGGCTGTTCTCGAACTCCTGACCTCAAGTGATCCAACCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGT
GAGCCACCGCGCCTGGCCCATCAAGCTTTTAAATGTAGAAGGTTGGAGAGTCAGCCCCTCTTTACCCTAGTTGACTTGATTACCACTTGGCCTG
TGTTCAGAAGGAAATCAGCATATCACTGTCCCCTCTCTCCTTTGTATCCTATCCCCATGTTAGATAAGCTCTTAGCATTATGGGAATCTCTTCT
GAACCTGATTCAAAGAGAGAAGGGGTCGATTCAATTTAGTTCAACAAATATTACTTTAATATCCTCTTGATGGGTGTGATGCTGTGATGGGCTG
CAAGAGTGAATAAGGTAATGTTGCTTTCCCTCTCCCGCAAGAATGTACACAGATTGCTACTGTGCTGGTGATATCTGGTATAACCTTTTGAGAT
TTTACAGAATCGCCAGTTGGGGACCATGTCACTGACATATGGGTCATGGGCCAATGTAGTGGGCTGCTTCATGTAGTTTCATTCCATGGCTACA
ATCCATACCCATGACCCCAGATTGTTATCCTATAGAGGTAGCCAAATGAATGAATTAGGTGAGCTCCTGACTCCTATAGCGTTTTGTACCTCAC
TCATTCCTACTTATCTGGCAACAGATAAGTATGTATGTCACATCTCACCAGGGAGTTTATAAACTCTAAGAATAGGTATGCTGCCATATTTCTC
TATCTTTGTACAATGCCTTGTTCAGTAAGTGTGTTTAATAAATGAATGAATTCATCATCATATCTGGAATGCAACTCACAGTGCAGTCTGGGCC
AAAGATGAGTCGACAGCATCCTCTTCACTGCAAGGACCACGCACATGGTTCTTAGCACAACACCCAGTACTCAGTGTTTATTGTTATTTGAAAG
TTCTTGAAGAGCTACAGTGTTTGTGCTAATGATGTGCATTGTTGGTACTGATAATGTACCAGGTGTTATGGGCCACTGACGACACACAGCAAAG
GAAAGATGGGCCCTCCTTCTTCATGAGAAAACATGCTCAAAGTACTGAACAAGAAACGAACAACACAAAATTTGAACACGCCTCTGAGTGCTCT
AAATGTCTTTTTCTCTCCACATGAGGCTCTATGTTGAGATGGGGATGGAGGACTAGATTATAGTCAGGGGTAATTTCCACTTTTCTTTGTTTTT
GCCTTTTTTTTTTTTTTTGAGACAGAGTCTCACTCTGTCGCCCAGGCTGGAGTGCAGTGGCATGATCTTGGCTCACTGCAACCTCCGTCTCCTGG
GTTCAAGTGATTCTCCTGCCTCAGCCTCCCTAGTAGCTGAGATTACAAGCATGTGCCACCCTGCCCAGCTATTTTTTTGTATTTTTAGTAGAGA
CGGGGTTTTGCCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAAATGATACGCCCACCTCGGCCTGCCAAAGTGCTGGGATTACAGGTAT
GAACCACCGCGCCTGGCCCTTCTTTTTGCTTTTTTTTTTGAGACGGAGTCTCGCTCTGTCACCCAGGCTAGAGTGCAGTGGCGCAATCTTGGCT
TACTGCAACCTCCTCCTCCTGGCGGAGGTGATTAAGTGATTCTCCTCTCGGTGGAGGTGAGTAAGTGATTCTCCTGCCTCAGCCTCTCGAGTAG
CTGGGATTACAGGCATGCACCACCACACTCGGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTCACCATGTTGGCCAGGCTGGTCTCAAACT
CCTGACCTCGTGATCTGCCCGCCTTGCCCTCCCAAAGTGCTGGGATTACAGCCGTGAACCACCTTTCCTGGCTTCTTTTTGCTTTTTAGAGTCA
GGGTCTTGCTATATTGCCCAGGTTGGATTCTAACTCCTGGGCTCAAGTGATCCTCCCGCCTCAGCCTCCTGAGTAGCTGCAACTTGGCGTGTGC
CACTGCACCCGTCTTTCCTTTTGACTTTTTATTATAGAAAGTTTCAAATTTACTAATAAGTTGAAATAATAGTGCATGAGCATTCTTTACCTAC
CACCTAGATTCAACAATTTAATTGAACCGAATTTGGTTTGTGAAGTACAATATTTTAGTCATGTATCAAGATTTTATAGGCAAAGTGATACAAT
TTTTTAAAAATCTGTTACTGAAAGGCCCCTGTAATAACACTACCCCTGAAAAAACTTTGGTGTGGTCATGGTATGTGCACCAGAAATCTCTCGG
CTTCCCCACTTTCATGGCTTCATTTCTCCAATTTACTTCCTCAAATATTACGCCAAAGTTTACTAGGGCTTGCCTTTATGTTTTATTAAATTAT
AACTTTCTAGCCGTCCTGGTGTCCTGGTCCTGATAAAGGTTTCCAGGATATTTCACCCATTAGTTTGTATAATTTCCTATCTCTACAGACTTAA
TTACAAATTCCAAATCTACCTTAGCTTTTTCCACTTTTATGGGAAAAAAAAAGGAATAGGACTGTTGTAATTACTTAGTAACCTCTTCTGAAA
CCTTCTCCTTAGCCTTGCCTAAGCCTGATGTTTTCCTTTTTCCTGAAATATTTAATTTTCCAACTCTGTGAATCTAAGTTTTGCCCACAGTAGG
CACTAACCGAGTGCTTACGGGGTAAACAGCTGTGTGGTGGTCGTTTGGGTTCTGGGTGGTGAGCCAGGGTCCTGCTCAGAAGAACCACAAACTG
AAAAGCAGGCTGTCACATACAATGAGTGACACACAATTGCAGAAGATTATGGAGCCTGGGAGAGGAGTTGTTTTTTTTTTTTTCCTATTTTCTG
AAGGAGTTGAGCCTTGAGCACAGACAGAAAGGAGGGAAAATGAGGGAAAAGTTTGAGTCTAGAGAAATACCAGCAGCTCCTACCTAAATGCCGT
TCCCATTCACTTCTGCAGTTTGAGACAACATTCCTGGCTGCAGGTCTTCCCAAGACCCCACTCAGTTGTAAGTTATTAACCACATCTTAAGAAG
CCATTCTGTGAGAATAAAAGATCCTTCTTTGAGCTCTTACCATGTGCAAAATCCTATAGGTGTATTACCTCATTTAACTCTCATAATCCCATTT
TATGAAATGTGGAAATTGAGGCTAAATTACTTGCCCAATCACAGAAGGCAAAGCCAACACCCTTTATTCCTTCTTTTTTTCTGAAATTGCCTTA
TAAAAACACATAATTCCACCTCCAGAGATAACATTGCAGACTTTTTCTATGTAAGCACCATGATAGAAACATACAATATGGATCTTTGTATAAA
CATGAAATAAGGTACCATTTGTAATCTGATTTTTCACTTAAAATATATCATGAGTATCTTTCTATATTAATAAGTATGTTGTTATATCTACCTT
ATTGCTGTAATGGCTGCATAGTATTCCACTTTTCAGAAATTTTTATTTTAACTAACTCCTGTTGATGGGCATCAACTTTACTTTTTTTTCTTTC
TCTTTCTTTGACATTTTTATTTATTATTATTATTATTATTATTATTATTATTTCGGATGGAGGCTTGCCCTCTCACCCA
TGCTGGAGTGCAATGGTGCGATCTCGGCTCACTGCATCCTCCACCTCAAGCGATTCTCCTGCCTCAGCCTCCCGAATAGCTGGGATTACAGGCG
TGTGCCACCGTGCCCAGCTAATTTTTTGTATCTTTAGTAGAGACGGAGTTTCACCATGTTGGCCAGGCTGATCTCGAACTCCTTACCTCAAGTG
ATCCTCCTCCTTTGGCCTCCCAAAGTGTTGGGATTGCAGGCGTGAGCCATCGTTCCCAGCCAAGAAACCCCTTTTCTTAGTTTTAATGAGAACG
CATCTTCTTAGACACCGAGGTATTGTTTTACTGTAAACTCAAATGTCCTGACCTCCGTCTCCTGCCGGCTGGCCATTTGTAGAAAACCCCTAGG
CGAAAGAGGAAGCTTTGCATCTCCCAATCAGCCTAATTAGTTAGTCCCCTTGGAATTCCCATGGGGTCAGGACACGGTTGTCATTGCAGTTGTC
ATTGTTTCCAGGGTTAACTGTCATAAGCATGAGGAAAGGCAGTTTAAAGCCATTGGATATTCAGTTTTGTGTTCCTGCTATTTATGTGACCAAT
TTCATACTTGGAGTTTGTTCAGAAGAGTGAAAAATGTTTCAAGTGCTATCTCTTCTAAACCATGGCAAACCACACTCTATTAAGACAGCACAAA
AGACTGAGGAAGAAAAATGTTTACGAAACATTTTGCTTTGGTCTGCCTCATGATAAGTAATTGTACTGGTCATTTCTTTTTCCACTGAATTGAC
TGGTGTCTCTGACATGCTCTCTGGTGAGCCACACTGGCTTCATTACCTCCTCTCTTCTCCTTTTTCAGGGTCTTTGGCCATTGTCCAGAGAGAA
TTACACTTTCTCTCTTAGAAGCTCACGTCTTTCTTCTCTTGGGCCACTTCCACGCCAGCCTCTTCCACACTGCCTTCCTGAGGTCGGGCACTGG
CATGGAGCTCTGTTTCCTCTTCTCCTCCCTAGGGTTGTAATCTGGCTTTCCCCCAATCTTTCTATTGTTTCCACTTCACCAGTGATTTCCTCCT
TGTTGTCCAGAAATAGGTCAGGATAAGAAATTCCCCTTTTTGACTTCTTCAGCCTTCTTGTTAACAAAGCAAAAGAAGGTTAAACACCTCATTC
AATGCTCAGCATTTTTTTTTTTTTTTTTGAGTCCGGGTCTTGCTCTGCTGCCTAGGCTGGAGTATAGTGGCTCCAGCAATTCCCCTACCTCGGC

CTCCCAAGTAGCTGGGACCACAGGTGTGTGCCATCGCACCCAGCTAATTAAAAAAAAAAAATTCTGTAGAGACAAGGTCTTGCCATGTTGCCCA
GGCCGATCTCAAACTCCTGGGCTCAAGTATTGCACCCTCCTCGGCCTCTCAGAGTGCTGGGATTACAGATGTGAACCCCTGCACGCACCCAAAG
GTCAACTTTTAACTGCCTGAAACTTTTGATAGGTCAGAGAGATGAATTCTCTTGTTCACAATACACAGTCAGAATTACCTTGGCTTACGAGTTC
AGGGCACAGAACACTGGTGTCACACAAACGTGGGCTCAAAAGCTGCAATTACGCAGTGGCGTTTTGTGGATTTTTTTTTGTAGAGATGGGATCTC
AGTAGATTGCCAAGGCTGGTCTCAAACTTCTGGCCTCAAGCAGTCCACCCATCTCAGCCTCCCAAAGTGTTGGGATTACAGGTGTGTTTTGAGT
CTTGGGGACCAACTGGGATTCTCTTCTCCCCTTTATCTTCTGTATCCAATCTAGCCCCTGCCATTTCTTTTTTTCTGGTGCCTCTAGGGTTTGC
TCTTTTCTCTCCTTTCCCATTCTCCTCCATTAAACAACGCTCCCCTTGTCATGCTCCGAAACCTCAAATCTGAACTTTTACTTCTCCTATCACA
GAAACTTCCCACACTCCAACTGCTTATTACCCCTCTACCTTCACCACCAAATTGTAAATTCTGTGAGAACAGAAACCCAATTTTTTGAATTTGC
TGTTGTGTCCTCAATTTCCGTCACAAACAGGTTCTAACATTGACAGTTGAATGAAGGAATGAATGAACGAGTTCTTGGATTGCTACAACTGCCT
TTAAACTTCCAGTAAACTTTTGCTGCCATCAGCAGGTGCATATAAAACACTCTTCATAGGCCAAGCCACCCTGACTCATACCTGTTATCCCAGC
ACTTTGGGAGGCCGAGGTGGGGAGGATGGCTTGAGGGCAGGAGTTTGAGACCAGCCTGGGCAACATAGTGAGACCCCATCTGTACAGAAAAATT
ACATAAAATAAAATTAAGGCTAGGTGCAGTGGCTCATGCCTGTAATCCCAGCACTTTTGGAGGCCAAGGAGAGAGGATCACATGAGGTCAGGAA
TTCAAGACGAGTCTGGCCAACATGGTGAAACCCTGTCTCTATGAAAAATATAAAAATTAGCTGGCTGTGGTGGCGTGTGCCTGTAATCCCAGCTA
CTTGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCCAAGATCACGCCACTGAACTCCAGCCTGGGCGACAG
AGTGAGACTCCATCTCAAAAAAAAAAAAAAAAAGTTTTATTGCAATGCTCAGGGCAGTAAGCATTGTTGTAGAAAATAAGTAATTTGTATTTTTA
AAATGCGTAATTCATCCCGGCACTTTGGGAGGCTGAGGTGGGTGGATCACTAGGTCAAGAGATCAAGATCATCCTGGCCAACATGGTGAAACCC
CGTCTCTACTAAAAATACAAAAAATTAGCCAGGCGTGGTGGCGGGCACCTGTAATCTCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGA
ACCCGGGAGGCAGAGGTTGCAATAAGCCGAGATAGTGCCACTGCACTCCAACCTGGGTGACAGAGTGAGACTCCATATCAATAAATAAATAAAG
TAAGTAAATAAAATACTGTTCATGATATTCTGCTCCCATGAGAAGCTTGCCGTTCCTCCTCATTGCAGCCCTATGACTTCCCGTCTGGCGCCTT
CAGTCGCTGCTTTGTCTCCTCCTTGGATGCCTTTTCTTTTGTCCTCTCATCAAAACCAACTCATCCGTGAGGCTCCAGCTTGAGCTCTACCTCC
TCTATGAAGCCCCCGAACCTTTCCCACCGACACAGACCTCTGCCTTCTTTGATCATCTGCTGGACTTCAGTTTAATGCTTTAATGATTCCACTT
GTATGGGTCCTGTCTATCCACCCGGTTTAGGTATCTTTGAAGATAGGAGCTACCTACTTTTTAGGTCTTTTGCATCCTCCACACTCCTCATCTA
AAGCTGCGTCCACTCTGACTCACCTTCCTAACCTGCCAGGCAGGGTCTTTTTGTTTTTTAAACTTTAAGTAGGCTAGGCCGGGCGCAGTGGCTC
ATGTATGTAATCCCAGCGCTTTGGGAGTCTGAGGCAGGCAGATCACAAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAACCCCTGTC
TCTACTAAAAAATATAAAAAATTAGCCGGGCGTGGTGGCAGGAGCCTGTAGTCCCAGCTACTCCGGAGGCTGAGGCAGGAGAGTGGCGGGCACC
CGGGAGGCGGAGCTTGCAGTGAGCCGAGATAGTGCCACTGCACTCCAGCCTGGGAGACAGAGCGAGACTCTGTCTCAAGAAAAAAAAAAAAAAA
CTTTCAGTAGGCTATGTGGAGGTCGAGTTAGATATCTTCGGTACAAGCCTTAGATTTCTTTTTCTGTTTTAAGGGAATTTTTTTCTTTTTCTCC
AATTTTGTTACTGTGAGTTCACGAAGGCATATTCAACAGCTCATTGCTGCCCTGCCTCTCCTGCACCATCCAACATCTCACTGCAGTATCCAGC
AACCCACAGGCCTGCTGGGCGTGGTGGACAGTCCCCAAGATCAGGTTATCCGTGTCAAAATATTGAGTGGTTGATGAGTGCTCCAAGTAGGCAC
TAGAGCCTGCTGAGAGCACTCAGAGGTTTCTGCACAAGCTCAGTGGATTTGAGCCCTCATCATTGTTCATTGCTATGTAAGTCAAGGGTTGGTC
ATAGGTCCTGCCTTGGACTGTCATTTCAGGAAGCAGGGCAGCTACAGCAGCAGTCCCCAACGTTTTTGGCACCAAGGATCCATTTTGTGGAAGA
CAATTTTTCCATAGATTGGGGGTAGGGGGATGGTTTCGGGATGAAACTGTTCTATCTCAGATCATCGGGGATTAGATTCTCTTAAGGAACGCAC
AACCTAGATCCCTGGCGTGTGCAATTCACAGTGGGGTTTCCGCTCCTGTGGGAATCTAATCCCTCTGCTGATCTGACAGGAAGCGGTAAAGCTC
TCTTGCCTGCTGCTCACTTCCTGCTGTGTGGCCCCTTTCCTAATAGGCCATGGACAGTTACCAGTCTAGAGGCTGGGGGGCTGGGGACCTCTGA
ACTACAGGCTTCTCCACCTGCACAAGTTCTGAGAAGTTAGACTATCCAGAGCAAGAGGGGCAGGAACTTCCTGGTCTCACTGAGAATCTTCGGC
CAATCTCAACTCCCAATGGGCATATGACTCACACGGTGATCATCTTAAAATGCAGATTCTGAGTCAGTGATTTGAAAGGGACCTGAAATCTTGC
AATTGTAACAAGCTCCCAGATGATACCAATGGCGATGTTGATGCTGCCTGTCTGTGGACCACACTTTGAGTAGCAAGGGTCTACAATATGGACA
TTTCCTTTTCCAGTGAACTTTAGCAAGTGAGGAGCATTTCAAGGAAGACACCTCCCATGCACACTGTCATTAGTTGCAGCATCTCCTGTAGCAA
TTGGGCTAAATCTGTCTTTAATTCTTTTTCAAACAGCATATCCAAGTTTTGCAATCATAAGCACCAGCCAGGAGAATATATTCCATGCAGAA
AATGATGATGCCCAATTTACCAAAATGTTCACGCTGAATATAAGAAGTAAGTTAAATTGCCGAGAATTTGATTTTTATTTTTTAATTCCTTAAT
TTTTTATTAGTCTTAACTAGGAAAAGTTAAGTAATGGCTTAGAAGGGCTACTACAAAACTGTTTTTGTACGCTGAAGTGTTTTGAAACTTTACT
CTCATATCTACTGGCATTGATCATATATCTCTTTATTTTTTATGTTATTTTGTTCTGTTTCATTTTTAAGACCAGGTCTCACTCTACCACGCAG
GCTGGGGTGCCATGGCACAATCATAGATCCCTGTAGCTTCAAACTCCTGGGCTCAAGTGATCCTCCTAAGCCTCCCGAGTAGCTGGGACTACAG
GCACGCGCCACCATGCTCAGCTAATTTTAAAACCATTTTTGTAGAGAGGGGGCCTCCCTTTGTTGCCGAGGTTGGTCTCAAACTCCTGGCCTTA
AGGGATCCTCATACCTTGGCCTCCCAAAGTGCTAGGATTACAGGCGAGAGCCACTGCACCTGGCCATATATCTCTTTCTGTGTGTATCATCAGA
AGCTGAAAGACTTATTTCACATTGTCTCTGAATATGAATTAGTGTTATGACTTTATTGATTTTAGTATTTTGAAAGGTCATGTTAAGGAAAGGC
TGAAAGTCATTTTATCTCTCATTTATTTGTTTTTAATAATTTTCATTTCTTTGGCTTATAAAACAATGAGAAGTCCAACTTCTCCTGAAGCTAA
GAATCATTTTAAGGCATGCAAACAGGTGGAGGTCTGTACCTCAGCTCTCTCCAGGGAGAGGCTGGCAATGGAAAAATGGTGTGTAGCAGAGAGG
TTGCATGGCAAGGAGGTTGCATGGCAAGGAGGAAAGAAGAAATTACCAGAGGTCTGGAGGCATCCTAAATGAGAAATCCTCCCAGAAGCACAAA
CTGCCCTGGAGTAAATGGGTAGCCTGTACTGTAGGCAACTTTGAAACTATTTCCAGAAAGTACCATACTCCATGAGCTTATTTTATTTTATTAT
TTTCAGAGACAGGGTCTTGCTGTGTTGCCCAGGCTGGTCTTGAACTCCTGGCCCAAGTGATCCTCCCACCTTGGCTTCACAAAGTATTGGTAT
TATAGGAGTGAACCACTATGCCCAGCCAGTGAGCTTATTTCACACGTTCTTTTCTACAGGGAAACCTCAAGTGCTCGCAGAAGCATCGGCAAGT
CAGGCGTCCTGTTTCTCGGATGGATACCCATTACCATCTTGGACCTGGAAGAAGTGTTCAGACAAGTCTCCCAAGTAATAAGGACATTGATGCC
TCTTATAATGGAAGAACATAAAACTCTCTGACCTATTGACTCTTTCATGAATACGGTTTAGGAGGAAATGATGAAATATTTAAAATGCTAACCT
TCTCAATCAACCATAACTCTCAATAGTCATAGACTGTTTCTGATAACTTATACTGGATGAATCTCTTTTAGAACTCGCTGCAGAAATCCTAACT
TCCAATCTGATGACAGCACACCTGTCTAAATTCTTTGCCATTTTTTTTTTCAGCTGCACAGAAGAGATCACAGAAGGAGTCTGGAATAGAAAGG
CTAACAGAAAAGTGTTTGGACAGTGGGTGTCGAGCAGTACTCTAAACATGAGTGAAGCCATAAAAGGGTTCCTGGTCAAGTGCTGTGCATACAA
TTCCCTTGGCACATCTTGTGAGACGATCCTTTTAAACTCTCCAGGTACAACAGTTGTTCTTGTGATATTCCACCATCAGGAATTCCCCACTAGA
AGTTAGTCCCCATCGCTGACTTTTACTTGGGGAATTTTACAGGAGAGTATAGGGTCAGTGTGTGAGAAAAGGTTTCTTGAGTCAGGCAAGAATC
CCCAGAGAGACTGTTTCACAGGTTGGGGCGGAGTCCTCCCTGTGCCCTTGTGACTCATGTGTCACAGTGACCGGGAGAAGCAGAAACTGCCGGT
GTGGTGAATCTCCATGGAAAGATCTAACTCTAGAGAAACAGATTTTGTCACTTGGAGTCTCTGTCATTTTCCCTTTTGATTAGCCTCCTTATTT
GCCCTCAGCTTGCTGTTTTATAATTTTTGGTTTGCTTTTTAGAGCCCTCCTAAGTTAAACAGTTGTGAAACCTGGCTGCCCACCCTAGTAGTTA
GGATCACCAACCTCACAAAACTGACTTCTCCACTTTCATGTGCGACCTTCATAAAAGGGATATGAACTTCTTTTTTCTCTGACTTGTACATCCT
GTAGGTTTAAATCCATGCATTTTTTTTTTTTTTGAGATGGAGTCTCGCTCTGTCACCCAGGCTGCAGTGCAGTGGCGTGATCTTGGCTCACCTCT
GCCAGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGCAGCTGGGATTACAGGCACCTGCCACCACGCCCAGCTAATTTTTGAATTTTTTTA
GAGACGGGATTTCACTGTGTTGCCTGGGCTGGTGTCTAATTCTTGGACTCAAGTGATCCTCCCATCTTGGCCTCCCAAAGTGCTGGGACTACAG
GCGTGAGCCATCGTGCCTGGCCCAGATGTAATTCTTGTAAATTTACCCTAGTAAATGGTTTTAAAGAATGGATTGAGAATAATCCGCAATTTTC
TAGGGAGGAAATGTATCCTTTACAGGGACATTGCCTGATTGTCTGTGGGGAGTAGAGTATATGTAGAGTGGTTGTTAGGACTGAAAATGATTAT
TACTGAAACAGGATGTGAGAGATTATAATGAGTTGTCCACTATTTATAATGTCACACAGGAATTCTGTTTCATCGCTGAGTGACACTCTTTTGT
TGCAGGCCCCTTCCCTTTCATCCAAGACAACATCTCATTCTATGCAACAATTGGTGTTTGTCCTCTTCATTGTCGTTTTAACCCTGCTAATT
TGTCACAAGTACAAAAAGGTAAAAGCAAAGGTAAAAATTCATTATTCTTTCCTCTATCTGCAGAACTGCCTATTCCTAACTGACTCATCATTTC
ATCTCTGAAGCAATTTAGGTATGAAAGCCAGCTACAGATGGTACAGGTGACCGGCTCCTCAGATAATGAGTACTTCTACGTTGATTTCAGAGAA
TATGAATATGATCTCAAATGGGAGTTTCCAAGAGAAAATTTAGAGTTTGGTAAGAATGGAATGTGCCAAATGTTTCTGCAGCATTTCTTTTCCA

TTGGAAAATCTTTAAAATGCACGTACTCACCATTTGTCTTTGCAGGGAAGGTACTAGGATCAGGTGCTTTTGGAAAAGTGATGAACGCAACAGC
TTATGGAATTAGCAAAACAGGAGTCTCAATCCAGGTTGCCGTCAAAATGCTGAAAGGTACAGTATAGTGGAAGGACAGCAACAAAGATGCCCAA
AAATGGGAGGCACAGTTTCCCACCCATGCCTTCTTCTCTTTTCCATCCTTTTAATGGTTACTGTTTGCCTTGTTTCAAGGCTAAAAATGGAGTG
GATTGGGGTGTCAACCCAGTCATGAATACAAAATTCAAGTCATAAATACAAAACTCCACCTCTTCTTCCACTTCTCTCTTTGTTTATTTTTATT
TTCTTTTATTTTTTTGAGACAGGGTCTCACTCTGTCACCTAGGCTGGAGTACAGTAGTGTGATCATGGCTCACTGCAGCCTCCACCCCCTGGGC
TCAGGCTCCTCAGCAGCTGGGGCTACAGGCGTGCACCACCACGCTCAGCTAAGTTTTTTATTTTTGGTAGAGACGGGGTTTCACCATGTTGCCT
AGGCTGATCTGGGACTCCTGAGCTCAAACTATCTGCCCGCCTCGGCCTCCCAAAGTGTTGGGATTACAGGCGTGAGCCACTGTGCCAGGCCTAT
TTAGTTTTTATAGGCTTTGATATTTGGGGATACAGTTGCCACAGGCAGAAGTTCTTTCTTACATTTGTGTTGTTTTATTTTGTTTTATTTTTAG
AGACAGGATCTTGCTCTGTTACCCAGGCTAGAGTGCTGTGATCATAGCTCACTGCAGCCTCGACCTCCTTGGCTCTAGCAATGCTCTCACCTCA
GCCTCACAGGAGTGTGCCAAGACAATTGGCTAATTTTTTTTTTTTTTGGTAGATACGGTGTCTCACCATATTGCCCAGGATGGTTGCAAACTCC
TGGCTCAAGTGAGGCTGCCTTGGCCTCCTAAAGTGCTGGGATTACAGGTGTGGGTTGAAACAGACTCTGGGTAGGAGAGAAAACTGGGGCCCTT
TGTATCCTCACTTCGTTGCTCCATCCATTCCGATCTGGCGTCCAGCCCCATTGCTGGCCTCACCGTTACCACCGCTGACCCAGCAAAAGCATCT
CCAGCTGGCTCTCTTGCTAAGGTCAACAGTGACTTCAAACCAAACCAAGCCTAATGGATATTTTTCAGTCCTCATTACTTGATTGTTCAGCATG
AATTGATGCTGTTGATTCTTCTCTCCATCCAGAAGCTTTCTTTCTTTGGGTTTTGTGTCACCATATTCTGGTTTTCCTCCCACCCCTCTGCCCT
TCTCAGTCCTTTGTGGGCTCATCTTCTTCCATCCAGCTTTTGTTGTTGTGGCTGATTTTGAAACTCAGTCCTTTGTGGGCTCATCTTCTTCCAT
CCAGCTTTTGTTGTTGTGGCTGATTTTGAAACACAGCCTTGCTCTGTTGCCCAGGCTGGAGTGCAGTGGTGTGATCTCAGCTCACTGCAACCTC
CACTTCCCAGGCTCAAGCCATCCTCCCACTTCAGGCCCCTGAGTAGGGGGGACTACAGGCATGCGCCACCATGCCTGGCTAATTTTTGTATTTT
TGGTAGAGATGGGGCTTCGCCATGTTGCCCAGGCTCCATCCAGCTTTTTATGGGGCATCCCTGTGGGCTTGCTCCTGGACCGCCTTGCGTTTTC
GCTCCACACACTCAACACAGTCCATCCCCACTACACCCGTGATGTCCTCCCATACACCAAGGGCCCTCATGCTTGCGTCTCCTTTCGGAGCTTC
AGGTTCATATGTTAAATGTTTGGATGTCTCAAAGGTCCCTTTAACACAGTGTATGCAAGGTGAATTCCCCTAACCCTGGCCCTGCACCAGCAGT
CCTCTCTGTGACTGGTAATGAATGCCAGTGAATAAATAACCACATTCTATATAGTTGGGCACACTAGAAACCCGTGACTTTTCCTTGACACCTT
CCTCTTTCTAACACCCTGTGAGCTAATCCTATCAGGTTTCCGATTAGTGTCTCTTGATTCCATCCTCGTCCCTCCATCTCTATGACCACCACTC
TAGTTCAAGGCTCTCTCCTGGACAAAAGCTTCCAAAGCAGGTTCCTGTATCCACTCTTGCCTCCCTTTGGCTTCTCCATACTGAGGTCCAAGTG
ACAGTGGCGAAAGGCTAAGCAGATCAAATGGCTTTCCTACTTCACATTTCCTCCACCACCCGCATGGCTGGGCCACCGCTGCCTCCCCACCTCT
TGCTCTCGGCACCCCAGAGCGCTGGCCTTCTTTCAGTTCCCCAGCACTGTCCTCCCACCCACTGTGGGGCCTTTGCACAAGTGGATCCTTCTG
CTTCCCCTTCCCCTTTCATGTAAGTATCTCCCACTGCCCCCTCAGATCTCAGCTTAAACACCACTTCCTCTGTCTCACACCACAGACAATATTG
AGGCCCTTGCAATGTGCGACATTAGCTCTCTGCAGGCTTTCCCCCGTAGAATCCATCACCTTTGTCATGACATTTTTTAACATCCAATTGTTGT
CCCATCTGTCCAGTAGCCCCTGTGCCTCATGAGGGCAGGGTCTGTGTCTGTGGTGCTGTGCTCTCTCCTTTCTCGACCTTTGCCCACTCTTTCA
CAACCCTCAGCACTGTTCTCCTCCCCTTCCACCATGAGTCACCTGGCCAGCTCCCATTTTTCTTCAGGACTCAGTTTAGACATTGAATGCTCCT
TTCTCCACCCCTCCAAGGCTAAGGTAGCTATCCCTTTTGACCCTACAGTACCCCTGCACTCCTTTGCCACGTTGCATTTTTTCTTTTTTTTTTG
AGACGGAGTCTCACTCTGTCGCCCAGGCTGGAGTGCAGTGGCACCATCTCAGCTCACTGTAAGCTCCGCCTCCTGGGTTCACGCCATTCTCCTG
CCTCAGCCTCCCTAGCAGCTGGGACTACAGGCACCCACCACCACGCCCGGCTAAATTTTTTTGTATTTTTAGTAGAGACAGAGTTTCACCGTGT
TAGCCAGGATGGTCTTGATCTCCTGACCTCGTGATCCGCCTGTCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGTGCCCAGCC
CAACGTTGCATTTTTTCTTTTTCTTTCTTTTTTCTTTTTTTGAGATAGGGTCTCACTCTGTCACCCAGGCTGGAGTGCAGTGAAGTCATCATAG
CTCACGGCAAGCTTCAAGTCCTGGGCTCAAGTGATGGTCTGCAGCCTTTCCAGTAACTGGAACTACATGCAGGCACCACCAAGCCCAGCTAATT
TTTATTTTATTTTATTTTATTTATTTATGTATTTTTACTTTATTTTATTTTTAAGTAGAGACAAGCTCTTGCTATTTTGCCCGGGCCTTTCTTG
AACTTCTGGGTACCAGCAATTCTCCCGCTTGTCTCAGCCTCCCAAGATGTTGGGATTAGACGCGCAGGGACCCACGTCTTGCCTGCCGTATTGC
ATTTATGGCACTGTATTGTCATGGCTTATTTACTTCTCTGCCTTCTCCAGGAGACTCTAAGATCCAGGAAGACAAGGGTTGTGTCTTGTTTTTC
CTTCATTCCCCAGTGTCTAGGACATTGGCTCTTACAGAGTAGGCACTCAATAAATACTTGTTGAATGACTGAATGAAAGAGGTAATGGTACATG
AAAATGCTTAGAAGAAGCTAAGCATGCTAAAAAATGTAAGATATTATTTTAGCCATGAGGAATAGGACATGAACAAGTAAAGCCCCGAATCCCT
GTCCAGCGTGAAGCTGAAGACATGATGTATTAGGGGGTCCCAGTGCCCACAGGAAATCCCACCCCCAAGCTAAAATCTTGGAAACAAGGATACC
CCTGAGAGCTTGCCCAAACCAAAATAGAGGATGTCAGCACCGGAGAAGCCACTATAAAGGTTAGGATGCCTTCCTGGACAAAATAATGGAACCT
GGCAATCGAACCAAATCTTCACTGAATGTAAAGAAGAGTTACTATATCTGGAAGAAAAAGTCTGTTCACAGAGGGGTGGTGCCTGGAGCCTGGA
GAGGGAAGTCCAGAGACCCTGCCCTTGCCCCTGTGGCTGCCCGGGCTGCCCTGACCAACTGCACATGAGCCGCAATGACGGGAGCCCTTGGATT
CCATAGCGACTTTCCTCACACTGTGCTTCTAAGTCAGCTTATAAGTACAGTTTGCTGAGCTATCTGGAATTTTCCCTAGAGAGAGAATGCATTG
GCCAACCAATATGTTCTAGCCTGCTTGGCAGTTTTATTTCTCAATGTCAATTAATGGGTCTCTTGAGCACCTGATAGTGGGAATTAGTCCTCTT
TGACCTTCTCCCATTGGACTTGCTGGCAAATCTAATGTTCTAGACCTGAGGGCCACAGGCTAGAGTCAACCATGCTCACGACACTGTTATCTCT
CTCTGACTACAACAGATCCAAGAGTTCAAACAAACAAACAAAAAGGACGTTTCTCCCTTCTGTTAACTTGTACTGAGGAGGAAAAGCATGTGTT
ATTATTTTGTTTGTTTGTTTTGAGGGCCAACTGTAAGGATTTTTATTTTGGTAGGTAGAGGAAAGTCCTGTTGAAAGGTGCATTACCAGATTCA
ACATTTATACTATAGTCTTTGTTTTGTTTTGTTTTGTTTTGTTTTTGAGACAGAGTCTCGCTCTGTCACCCAGGCTGGAGTGGTGCAGGGGCTC
AATCTCGGCTCACTGCAACCTCTGCCTCCCCAGTTCAAGGGATTCTTTTGCCTCATCCTCCTGAGTAGCTGGAATTACAGGTACGCACCGGCAC
GCCCGGCTAATTTTTTGTATGTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGGTTGGTCTTCAACTCCTGACCTTAAGTGATCCACCCGCC
TTGGCCTCCCAAAGTGTTGGGATTACAGGTGTGAGCCACTGCGCCCAGCCCTATACTACAGTCTGAATTCTGCCTTAGGCTGGGCATGGTGGCT
CATGCCTGTATTCCCAGCACTTTGGGAGGCGGAGTTGGGAGGATTGCTTGAATCTAGGAGTTCAAGACCAGCCTGGGCAACATGGTGAGACCCC
ATCTCTACAAAAAATATAAAAATTAGCTGGGCATGATGGCCTGTGCTTGTAGTACCAGTAACTTGGAGGGCTGAGGTAGGAGGATCACTTGAGC
CCAGGAGGCAGAGGCTACAGTAAGCTGAGATCATGTCACTACACTCCAGCCTGGGTGACAGAGTGAGATACTGTGTCAAAAAAAAAAGAAAGAA
AGAAAAGGAAAAAAAAAAAAAGAAAAAGGAGAAATTCTGTCTTAAAACACAGGATATTGTTTGTTTGTTTATTTATTTATTTATTTTAAGATGG
AGTTTCACTCTTGTTGCCCAGGCTGGAGTGCAATGGTGCAATCTCAGCTAATTGCAACCTCTGCCTCCCACATTCAAGCGATTCTCCTGCCTCA
TCCTCCCAAGTAGCTGGGATTACAGGTGCCTGCCACCACGCCTGGCTAATTTTTGTATTTTTAGTAGAGACGAGGTTTCACCATATTGGCCAGG
CCAGTCTTGAACTTCTGACCTCAAGTGATCCACCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGACCCACCATGCCTGGCTTCTCTC
ATAATTTTGAATTTAAATAAATAATGCAGATTGACTCTGAGCTGAGAAAAATTTTATTTAATGACATAAAATTCGTATTTTACTTGAGTTTTAC
ATTTTTAATGCTCCTTTCTTTGACAGAAAAAGCAGACAGCTCTGAAAGAGAGGCACTCATGTCAGAACTCAAGATGATGACCCAGCTGGGAAGC
CACGAGAATATTGTGAACCTGCTGGGGGCGTGCACACTGTCAGGTAACCCACTTCCACGAAAATCACCTCATCAAAAAGACTGTAGCTTGATGA
CAAAGAGGATGTTTGCTCTCTCTCTCTCTCTCTCTTTTTAATTCTTTGTCTTTTCTCAGTCACAGTGTGAACTCTCAAACCCAAGTGGAATTAG
ACACTGAGCACTCTATAAATCAGAGGGGTCAAAATAAAGAATGCCTCATTCATCTGCTTTATCGTGATATATTGCATAATTCTCACCTGCTTAA
AAACAACAACAACAACAACATTGCAAGTACATTTGGTGGTGTCTGTGCTTCTCTCCCAGCTTGGAAGCTGGTGCACAGGCGTGGTGAGAGTGGT
TACAGAGCCTGGCCACTGCCCCAGTTGGGCTGCCGTCAAATACGGCACAGCCTAGCTAGGATATCAGACTTTACTTTCCCAGAATTCTCTGGGG
CATGCCCTCTGATCTTCTCTCTTCTGCCTAGAAATACCCAAATGATGTGCCCAAGGTTCATTCTTTCTGCAGCAGCAGGCCTGGGGCTGGTACT
AAAAGGAAAAAGAGGAAAGTGAATCTGAGAGAGGACTGGGAATATATTTCTCCCTCCTCAAGCAAACAGCAAATCAGCATATAGTTACCAAGTG
TTCACCTATAATACACAGCTAGAACATTACTTTCAGTTGCCAACTGGAGAATCCAGGAGGCCAGTGGTATTGGTGAGGCCACACATACAAAAAA
GGGCCACAGAGAATGTCAAGAAGATGCTGCTTTCCAAAGAAATTTGAGCAAAAGCTGAAACTGAATTTAAAGTATAAGAAGAGCTAGGCTCAGA
AAAAGTTGTACTGTCCCCAAGTCAGCAGAGAACCAAGCCCTCCTAAGAGTATGTTGTCTGCTACATAGACTTCTGAAATAACAGTTTGCTTTGT
GTATGCCTATAATTGAAACTGTAACTATTTCAGGACCAATTTACTTGATTTTTGAATACTGTTGCTATGGTGATCTTCTCAACTATCTAAGAAG

TAAAAGAGAAAAATTTCACAGGACTTGGACAGAGATTTTCAAGGAACACAATTTCAGTTTTTACCCCACTTTCCAATCACATCCAAATTCCAGG
TAAGAGGCTGGGTCAGGGTTTCGTAATTACACATCATAGAACGTAGGCAAAGTGTGCTGTTCAAACACACTTCGTTGACCAGTTTCTAAAGGCA
CCGTGAAGTCTGTGGGTCCTGCAACCTAGAGATTTCCTGAATCTTTGCTATAGTTTCCCTGTTGACATGGAACGAGTCCTGTCCCTTTCCTTCA
GTACAGGTACTATAGCTGAGCTAGTCTCTCTCCACCCATGCCTGCATCACACCATAGACGCCTATTTGGTTTGGGGAAAGGTGCATTATTCGGT
CTTTCAGGACACCTGGTTGCCTCACAGGTATTGGTAGAAAGAATGAAGACTTTTTCCAAAGTCCTTAACATATGCAAAGAGAGCAGCTCGGGTC
CTGGGACTATTGCGCAAAAGAACGCTGAACTCAAATTGGATTCTAAGATATTAGGATGGATTGATCGACACGTGATGGGGACACAGTAAAGTAG
CAGTAACCTTGTCTCTGCTCTGTTTATCCTCCGCATCCATGGGGATCCTGAGAGATGCTTGGTCCTGCAGGGATTTATTGCTTTAGCGGGCATA
AATGAGGGCTGTAGGAGTTTGCTGGATCTCCTCCTCATCCTTGAACTTTCTTGCTAATTACTTGAGCATCATGGCTTTGTAGCACCTTTCTCTG
AATGGATTCCCAGGCATTCTGATGGAGGCATTCGTTGAGCCTTGGAGCATTCTTTTTTTTTTTTTTTTTTTTTCAGACAGAGTTTCGCTCTGTT
GCCTAGGCTGGAGTGGTGCAATGGTGTGATCTCGGCTCACTGCAACCTCCACATCCCAGGTTCAAGCGATTCTCTTGCCTCAGCCTCCCGAGTA
GCTGAGATTACAGGCATGTGCCACCACGCCCAGCTAATTTTGTATTTTTAGTGGAGACAGGGTTTCACCATGTTGGTCAGGCTGGTGTTGAACT
CCTGACCTCAGTTGATCCACCCACCTAGGCCCCGCAAAGTGCTGGAATTATAGGCATGAGCCACCGCACCTGGCTGAGCCTTGGCGCGTTCTTA
TTTCCCTCCCTGTATGGAAGTTCTCCCTTATTCTGAAGGGTATTTGTTTATTGGAGACTTTTTTCTTTACCAGGGGCTTTTTAGGGATACATTT
GAGAGTCCCGGCTTTGTTTTCTTAGAATGTAAGTTTTAAGTGCAGGCCTCTGGCCTTCCAGGTCTGAGACACAGACCCAGTGTCTTAAAGCCAC
CAGGCCCCACGGAGATCCCCATGCACGTCCGTGTGCAGCTGCCCTTAACCTATGCATGCCCGTCACACCGTCCTCTCCTTTACATTCATTTCCC
AGCTCATCGTCTAGAAATGAGAACTCTATAAAGCCACTCATATTCTGGAACAGAGGGGCTATCCTACTGAGTCCGATGTGTGTGACCAGTATCC
ACTGGTCAGTACTTAGCCCCTTTGATTCGTTCTGTTCACTGGAATATTAAATACACTGAAATTATTCCTTTTGGAATATTTGTGGTCTGAAAGC
ATGAAGCCATTTCCTAAAGATATGTAAATTGTAAATTGGGTTAAACTCGTATATTAGAATAAATTGAATCGTGATCTACTTATAATTCCTACAG
AGCTCCTCAGGGAAGAATTTTTATATACCTTAAAAGAGATTTGTATTATTGCTATTTATTAATTTCACAGTAAAAAGAAATGAGCTTTACAAAG
GCAAACTGGAAAAAAGAAGGATGGTGAAACGCTTACGGGACTCTCGGGAAGATCTGTATTATGTGAGGGAAAGTGGGCTGAGTTCAGAAACCAA
AGAATGAGATCGATGTGAGTCCTGGTTCCACTCGAATCATATTTATCTCACTGTGCCTAATTTCTCTTTTATAAAATGCCACCCATCTCATAGG
TTGTGGCAAGGATTGAGTGAGGTCCTTTTTGAACTGTAAGATTCTATATGGAAAACAGGGATTACTTTTATCTTAGACTGGCAAGCCCAGTTAC
ACAGATGTTTTTAATGTACACAAAAAATGGACAAATGGATGGTGTGCTTTTAATTTAAAAGTCAATTTATAACTGGAATCCATTTATTTGATGA
ATTACATTTTTAAAATAAAATGTCTGCTGAGAAGAATAATGTAAATAATGAAAAAACAAAATTTTTTAATAGCATGCCTGGTTCAAGAGAAGTT
CAGATACACCCGGACTCGGATCAAATCTCAGGGCTTCATGGGAATTCATTTCACTCTGAAGGTAATATTTTATTCTAAGTAGTAGCACTTTAAA
ATGGAAATGAATGCAAAAGTTTTATGTTAGCTATTTTTTAAAAGTGTGTAAACACAAAAGCATTTTAAAATTTGCTAATTGTCAGATGATAGCT
AAAAGCCAGTTTGTATACTGTAGATTTTATGTCAACATTCAACTAATAAACACTGAGGACTATTTTATTTGGTCAGATTATTCATTTAAAGTCA
TATATTAATTACAGCCATCTTATTACCTGACAAGTGGAAGAGATAATGAGTTCCGAAGTTACATAGAATTTGGATTAACTTCTGCTTACTTTGC
TTTCTGACTGGATGACTTTGGACAAGTTATGTGACCACCAGAATCACAATTTTCTTGTTTATAAAATAGGCCTAACACTACCTTCCTCACAGGA
CTGTTAGAAGGAGTAAATGAGGGGCTGGCCGTGGTGGCTCACGCCTGTAATCACGCCTTGGGAGGCCGAGGCAGGCAGGTCACCTGAGGTCAGG
AGTTCAAGACCAGCCTGGCCCAATATGGAGAAACCTTGTCTCTACTAAAAATACAAAAATTAGCTGGGTATGGTGGTGCACGCCTGCAATCCCA
GCTACTTGGGAGGCTGAGGCAGGAGGATTGCTTGAACCCAAGAGGCAGAGGTTGCAGTGAGCTGAGATTGCACCACTGCATTCCAACCTGGGCA
ACAGAGTGAGACTTCAACTCAAAAAAAAAAAAGAAAGAAAGAAAAAAAAAGGAAGGAGTAAATGGAAGAATATAAAATGCACAATATAGTTTAT
AAAATAGGATAGATGGGCCGGGCACAGTGGCTCACGCCTGTAATCCCACCACTTTGGGAGGCTCAGGTGGGTGGATCACGAGGTCAGGAGATCA
AGACCATCCTGGCTAACACGGTGAAACCCTTCTCTACTAAAAATACAAAAAATTAGCATGAGCCTGTAGTCCCAGCTACTCGGGAAGCTGAGGC
AGGAGAATCCAGTTGCAGCAGGCCAAGATCGTGTCACTGCACTCCAGCCTGGGCGACAGAGCGAGACTCCTTCTCAAAAAAAAAAGGGATAGAC
AATTAATATTAATTCCTTTCCCACTGTGACAGCCCTACCTAGTGCAAAAGAGAAGTATCTAAAACTCCTGACTAATCAATCAGGAGGTCATCGG
TCATCAAAGCAGTTCCAAAGTTTATCTCTAACCAAAACAAGTCTCCAGTGACCCTTCATAGGCAGCATAAACAGGTCATCTCTAATGCTGCCGG
GAAGATAATGCGATAGCTTCATGTCTTAGCACCTCACCTAACTCTGGCTTGAATAACCTTCCCATAGAGATTTAATAAGGCAACTTCTTAGAGT
TTTGGCAAAAGTGAAGACTGGCTCTATTTTACAGATGAAATTGAATATGAAAACCAAAAAAGGCTGGAAGAAGAGGAGGACTTGAATGTGCTTA
CATTTGAAGATCTTCTTTGCTTTGCATATCAAGTTGCCAAAGGAATGGAATTTCTGGAATTTAAGTCGGTATGCTCCTTTTAAAGAAAAAACAA
ACCAAAAAAAAGATTTGAAAAGATGTGCTTATATATGTTTTCTTGTTTATTTTAACTTGTATCCCTTAAAGTCTGCCTTTTCTCCCCTGTTCAC
TGTTGGAGTCACCTAGCGTGTTACCTTGGCTCTTGGCTAATTGTAGTAGCATAAAGGCCTGGGATCCCTTGTGAGGTCACGGCTAGCACAGCCC
TCCCAGGCTGCACAAAGTCCCCTGAAACTTCCAAGGCTGAAGGTCGAGATAGGAAGTCCTCAGAAATCCTTCCTCAAAACAAAGCGTAGCATTG
TCAGTCCCTTTCAGAACGGCTGTTCAGGTTGTGCCCTGCATGTGGGCATTCAACCCAGGGGATGAGAGGAGGCTGAAACCGAGCCAGCCACCCT
GAGTGTCTTTGTCTAATTCTCACCCTGCGTGCTGTGGGCTGGCAGCAGTCCTGCAGGCTCACTGCCTCCTCTGTTGCTAACCCCAGATCCATTC
GTTGGTAAGGCCCTGGAGCCTGCCGTGAACCATGTCTCTACCCCAATTTTGCACTCTTTTTGAACTGCCTTTCCACCCGCTGTTCTCTGTGATT
TCAAATGTCTCCTGCCTATAAGCAGATCATAGCCCACTCTCTGGCTACCTTCCTTCCTCGTTTGCTTGCCTTTCATTACCTTCTCTTTATTTCC
CAAAATTCTTCCCCCTCATTTTTCTTGCAGTCTTCTAATCTCCTCCTCCTCTTCTCCCTCCACTTCCTTCCCCTTGCCTCTTCTCTCCTGTTTTC
TCTCTGAATTTGGAAAGACTACTTTCAATTGTATTTTTTTGTTTTGTTTTGTTTTGTTTTTGGAGACAGTCTCGCTCTGTTGCCCAGGCTGGAG
TGCAGTGGCGTGATCTTGGCTCACTACAACCTCTGCTTCCTGGGTTCAAGCAATTCTCATGCCTCGGCCTTCCGTGTAGCTGGGACCACGGGTG
CATACCAGCATGCCTGGCTAATTTTTTGTATTTTAATAGAGATGGGAATTCACCATGTTGCCCAGGCTGGTCTTGAAATCCTGAGCTCAAGCAA
TCCACCTGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACACTCGGCCTTTTTTCTTTAAAAAATTACTGCCTCAGCCAGAT
GTTCATGGTGTGTGTCTGCAGTTCCAGCTACTTGGGAGGCCAAGGTGGGAGGATTGCTTGAGCCCAGGAGTTGGAAACTGCAGTGAGCTAGGAT
CGCACCACTGCACTCCATCCTGGGTGACAGAGCAAGTCTCTTTCTCTAAAAAATAAAAAATAGGCAGCCGGGCGTGGTAGCTCACGCCTGTAAT
CCCAACACTTTGGGAGGCCGAGGTGGGTGAATCACGAGGTCAGGAGATCGAGACCATCCTGGCCAACACGGTGAAACCCCGTCTCTATACAAAA
AAAATTAGCCGAGTGTGGTGGCGGGCGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCATGAACCTGGGAGGCGGAGCTTGC
AGTGAGCCAAGATGGCGCCACTGCACTCCAGCCTGGGCGACAGAGTGAGACTCTGTCTCAAAAAAAAAAAAAATTAATTAAAAATAAATAAATAG
GCTGGGCACAGTGGTGTACGTCTGTAATCCCAGTGCTTTTGGAGGGAAGCCCAAGAGTTCCAGGCTGCAATGAGCTATGACTATACCACTGCCC
TCCAGTCTGTCTATTCAAAATAATAATGAAATAAGCTTAAAAGCAATAATAATACAAGTTTTAAAAAATTACTGTCACAGTAATATTTCCACAC
CTCTGAACTGCGAGGCACATTTTTCTCTTCATTTTCCCCACCTGCTGTTTGGATTCTTCTTGCTCACGCATCTTGCCCACCTGAGTCTTTCTCT
ATTTCACTTATACAACTACAATCCTGCTTTCACAAGCATTTTGTTTTTGTTTTTGAGACAATGTCTTGCTCTGTTGCCCAGGCTGGAGTGCAGG
GGTGTGATCTCAGCTCACTGCATCCTCTGCCTCCCAGGTTCAAGCGATCCTCCTGCCTTGGCTTCCCAAGTAGCTGGGGTTACAGGTGCACACC
ACCACACCTGGCTAATTTTTTTGTATTTTTGTAGGGATAAGGTTTTGCTATGTTGGTCAGACTGGTCTCAAACTCCTGACTCAAGTGATTTGCC
CGCCTCGGCTTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGTACCTGGCCCACGAACATCTTTATAGAGGTGGGAGAACACCTACTTAGA
TTGTCTGGCCTGGTTTGCTGCCCATAGCTAAGTAAATACTCAAACTACTCCCAACTGGCAGTCAAGGGGCACTGCTTCCCCTTCAACCCCAGGC
TTGTAATAATATGAATTTTTGAAGAACATCCAGTTTCTTAGGCCTTCTATCCTTTTATCTTCACATCAGGCCTCCCCTTTGAATCATGCGTGTC
ACTGTCCCCTTCTTGTCTCTCACCCCCTCCCTGATATTCCTCTGGGTGCCCCTCAGTTTCCTCTGTAGGCCCTTGACTTCATCAAACATTTGTT
GAGCCCCAGCTACATGCCAAGCACTGTACTAGATGCTGGAGATACAGAGTCAGTTATGATATGACTCCTGGGCTCGAAGATCTTATGAATGATA
GGGGAGACAGAGACAAGCAGACATGCAAGTCGAAGATGACACTGAGGCCGGGGGTGGGTGGCTCAGGCCTGTAGTCCCAGCAACTTTGGGAGGTT
GAGACGGTGGATTGCTTGAGGCCAAGAGTTCAAGACCAGCCTGGCCAACATGGCAAAACCCCATCTCTACTAAGAATAGAAAAACAGCCAGGCA
CGGTGGTGTACGCCTATAATCCCAGCTACTTAGGAGGCTGAGGCATGAGAATCGCTTGAATTGGGAGGCAGAGGTTGCAGTGAGCAGAGATTGT
ACCGCTGCACTCCAGCCTGGGTGACAGAGTGAGACTTTCTCAAAAAATAAAAATAAAAAATTTTAAAAAGTTTAAAAAAGACAACACTGTAGCA

TGATAAGTGTTGTGACTGAAGTAAGTTCTGGGAACCCAGGGGAGGGATCTGCACAGCAGACCTGGTTGGGGGAAGGGGAGATGCAGTGGAAGAG
GCTTTCTGAGGGAGTGCGTGCTTCATGCTTGGACTAATGGAGATTTTTGAAGGAAAAGGAAAACCAGCAGGGAATGTGGGATAGGATAGGAAGC
ATGGAATCAGGAGGAGTTTTTTTTGGAGAAAGGTAATGAGTTGGACATACTGAATGTGAGGTGCCTTGAGCAACCAAGTAGAGCGTGGTCTAGC
AGACACTTGGACACTTCTCCTGTCTGAAGCTCAAGAGAAATGTTTGGGTTGGAAATAGGGATGTGGGCAATGGTGGTTGCATCCCTAGGTTTGG
ATGAAATGGCTTGGGTGAGGGTGTGGGTTGTGAGGATGCAGCCCTCAGGAGTGAGAGTAGGCTCGTGCACAAAGCCCCTGAGGGAGACAGGAGC
CGGCAGAGCAGTGGGGAGAAAGCAGGAGTGAACCATGCGCAGGGTTCCCAGAGGGAGGACCAGAAGCGGGAGGGGCTGGCCAACAGCAGCAGAC
ACCACAGGGAGGTCCCGTCAGATCGAGACTGTGTGGGTGCCAAGCCAGTCAGTGCAGGCCTCGGCCAGAGCAGCTTGGGCAGACAGGCAGGAGG
AGGAGGCAGGTTGCAGACCTGGGGTAAAGTGGGCAAAGTGCAGGTAGATGGCACTGAAAAAACTGGGTATGGAGGAGGGAGCTCTAGAGGGGCT
GTGGCACAGGGCTGCCAGTGTTCATGGTGCTGCTTTTTATTTTTTAAAGATGAAAGAGTGTACATTGGACCTTTGCTACTAGTGCCCTGTTCCC
CTTCAGATCTTCCTTTGTAAAGTTCATTTTCTTGTCAGACCCCTTTGATTAACATCACGACATCTCTCAGCTCAGGGACTCCTTCTAATTCCAG
TTCAGTAAACCTCTCCAAACTCATTTTTAGCTTTTTGTTTTTCCGATTATTTCCCTCGATATTACTCCATTTATTCCTAAAGCTATTTTCCAGT
CAGAAAAGAGATGCTGGCCAGGCGCGGTGGCTCACGCCTGCAATCCCAGCATTTTGGGAGGCCGAGGTGGGTGGATCACCTGAGGTCAGGAGTT
CGAGACCAGCCTGACCAACATGGCGAAACCCCGTCTCTACTAAAAACACAAAATTAGCTGGGCCTGGTGGCGCGTGCCTGTAATCCCAGCAACT
CGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGACGCAGAGGTTGCAGTGAGCCGAGATCACGCCATTGCACTCCAGCCTGGGGAACAAGA
GTGAAACTCCGTCTCAAAAAAAAAAAAAAAAAAGAAAAGAGATGCTATTTCTCACACCCACAATAAGAGTACTGGAGGACAGCTCTGAGATTCCC
TCTGAAGGCTCAGGGGAGGGCCCCTGTTGGGGAGCCTCTCACTTTTGCTCGGAATCTGCAAAAGATCTGCTCCTCTTTGGCCTCTGGGGATGCT
TCAGAAGCCGCACAAAGAACTGCAGCCACCATAGCTGCAGAATTAGGTCTCCTATATTCACTTTGTTTGTTGCACATCATCATGGCCGCTCACG
GCACAGCCCAGTAAAGATAAGAGGCCTTCCATCACCGGTACCTCCTACTGAAGTTGAGTCTAGAAGAAAGATTGCACTCCAGGATAATACACAT
CACAGTAAATAACACTCTGGTGTCATTCTTGACAGTGTGTTCACAGAGACCTGGCCGCCAGGAACGTGCTTGTCACCCACGGGAAAGTGGTGAA
GATATGTGACTTTGGATTGGCTCGAGATATCATGAGTGATTCCAACTATGTTGTCAGGGGCAATGTGAGGCTGCTATTTCCTACTTATTTTTAT
ACGGCTATTTTGTGTTGTGTCGTTATCATGGTAAACAACTGCACTCACTGTGGTGCATTTTTGATTTATGGTAACATCAAAAAACCCTCACAGC
AGTCTGCTTACTTATGCTTAAAAGGTTTTTCTGCAGCTTCAGGGAATCTTCCATCTATAATAAAAGCTGAGCAAAATAGCATCACATCTGTCCT
TGGGCTAGCTAGTCAGAGTAGATCAGTTAGGGGCCTTTGAGTGCAATCCTCACTTTAAAAAACCCAAAATCTCAATACTTGCACTTAGTTCAGT
TATCCTAGCTATAAAGTGATGATTGAGTTATGTTTTCAATTATGTGAAAAGCTAATAGTCACAATAAAGCACTTTAAAACATATATAGCACATA
CCTATAAAATGTTAAAGCTAAATACTTAAATATGAATTAATGAATATTTATCATCCTTTTACTGTTAACACAGGAAGATCTAAAACATGAGTGA
ATTGGCTGGGTGCAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGAGGGCAGATCATGAGGTCAGGAGTTCGATACCAGCCTGA
CTAATATGGTGAAACTCTGTCTCTACTGAAAATACAAAAAATTAGCTGGGCGTGGTGGCGTGTGCCTGTAATCCCAACTATTCGGGAGGCTGAG
GCAGGAGAATTGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCTGAGATCGCGCCACTGCACTCCAGCCTGGGCAACAAGAGCAAAGCTCTGT
CTCAAAAAAAAAAAAAAAAACAACAACAAAAAAAACAGTGTGAATTGACTTGGTAATGAAAAACTAAGGACAGATGTGTTTACAAAAAGAACTAT
TAGAAGTAATAGATGACAAAATTGTGTAGTTGAAAATGTGTGTTTTTAAAGAATTACAATACCTGGCTGGGTGCTGGTGGCTCACGCCTTTAAT
CCAAGGCACTTTGAGAGGCCAAGGTGGGAGAATTGCTTGAGCCCGGGTTCAAGACCAGCCTATGGAACATGGTGAGACACTCAACTGTCTCTAT
AAAAAATAAAAAACTAGCTGAGTGTGGTGGCACACGCCTGTGGTCTCAGCTACTTGGGAGGCTGAAGTGGGAGGATCACTTGAGCCCAGGAGGT
CGAGGCTGCAGTGAGCTGTGATCACGCCACTGCACTCCAGCCTGGGCAACAGAATGAGACCCTTTTTTTTGAGACCCTGTCTCAAAAAAGAATT
CCCTACTTGTGAAATAATAATAATATTAAATGCTGACTTAGTGCTTACTATGTGCTAAACATCTAAGTGCTTTATGCATATTAATTCATTTATT
CCTCAGAGTACCCACTTGGAAACTGAGGCACAGAAAAGTAACTCGCCCATGGTTACACAGCATGTGGACTTGAACAGGAATAGTCTGAGCCCCG
AGTCTGTGCTAACCACTATGTTGTAGTGTTTCCCATGAGGGTTATGCACTTACCTCATAGCGTTGATGTGGGAAAAAGCCAATAAAACCAACGT
GAAAGCACCTTGTCCAGGGTGAACATCCAGTAAATGTGAAAAGTCAAATTAAACTGTATTCCCACTAGAAACAAATAATCATCTTAGCTGATTT
ACGATCTACTCCTACTCATCATAGACTGCTCATATGTAGTCATTCAGTTTCTACCCCACCAGCTGGTTGTCTCTTATGTGGGAAAGTGAATTCC
ATTTGGAACCACAATTAATTTCTTTAATTAATCAAATTAACCAGACTTGCCTGCATGAATCAATAGCTCATCAGTTTGCATACATTTAAAAGAG
GGTTTACTTGGCTGATTAAGCATGTGCTGATTAAACATGTGCTGTGAAGGACTCGTCAACCCATGTAAAAGAAAATCAGTACAGCCAGGTGTGG
TGGCTCACAGCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAAT
CCCGTCTCTACGAAAAATACAAAAATTAGCTGGGCATGGTGGTGCGTACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAACCACTTA
AACCAGGGAGTCTGAGGTTGCAGTAAGCTGAGATAGCGCCATTGCACTCCAGCCTGGGCAACAAGAGCAAAACTCCGTCTCAAAAAAAAAAGAG
AAAGAAAATCAGTACAAAGCTCTGCCCCAGTAACCTACCCATCTTGTGTCTTGATTCTAGTCTGAGACTATACTAAGTCAAAACTCCCTTTCAT
GCTAGTGGAAATTATTAAAGCCACAGAAGCCAGACTGGTATCATTTCTGGAAGTGATGGCGTGGGCTCCCCTCCCGACATTATTGTGGATGACA
TTTCCACTAAAGGTCTTCCCAGAAATGCTGTAACAGAAGATCTCACTAATTCACTAGTACCCACTTACCCCTAGGCAACTGACTGGCTATTCCT
TAATGGAAAGTACCTCTTTCCAGTGGAAAGATGGCAAGTTAAACTTACCCATTCCAAGCACAAGCCTTTGTTCGAGAGGAGTTGTAAAGAAATA
TGCCTTATGTTTTAGGCTAGTATTATTAGAATGTTAATTTGAAAGTGAAAACCTTTCACGTGAGGAATGTGATTTTCTCAATAAGGCATTAAGA
GTGGTCTTAGGAAGATGATGCATTTCATCTTAATACAAAAGAAAAGAAGTCATGTCTGTATGTGGAAAATTCACCATCTTATCTCCTCTGGGTT
TTCCACAGGCCCGTCTGCCTGTAAAATGGATGGCCCCCGAAAGCCTGTTTGAAGGCATCTACACCATTAAGAGTGATGTCTGGTCATATGGAAT
ATTACTGTGGGAAATCTTCTCACTTGGTAAGTTGGGCAGCTGCTGGCCTCCCTTGGCTCCTGGCTTTGCATCCTCTGCTCTCTCGGTGCCCCCC
CACCCCTCCCCCCAACACTGATGGGTCTTACTTGTATTGCAGCCCATGACTTTATGTTTATTTGCTGGTGTCCTTTAGCCTGTCTTCCTCACTG
GTCTATAACCTGCTTGAGAGCGTGAACCGTGACTTCTTTTTCCCAGCCGCAGCCCGTGTGCCTGCAACAGTGTCTGGCACATGGCAGATCTCAA
TACGTGTTTAATTGAATGAATCAATAAACAAATGAAGAAATGGATGAATGGCTGCAATTGTCTAATGTTTTCCTCAGGTGTGAATCCTTACCCT
GGCATTCCGGTTGATGCTAACTTCTACAAACTGATTCAAAATGGATTTAAAATGGATCAGCCATTTTATGCTACAGAAGAAATGTAAGTTCAAG
TCAGACTGTAATTTGGTTGAAATCAGAAAGGTACAGTCTGTCTACTTCCAAATGCATGACCAAAAAAAGTCAAACTCCTTAGTGCAAAGCGTAT
AGGATTCTTTTTTTTAAAAAATAGAAGTGAGGTCTTGCTGTGTTGGCCAGGCTGGTCTCAAACTCCTGGCTTCAAGCAATCTTCCTGGCTCAGCC
TCTCAAAGTGCTGGGATTACAGGTGTGAGCCACCACACCTGGCTGTCTGATTCCATTTTAAAAAGAAAAGAAAACTCTTTGTTTTGGGAGTTTC
TGA

HUMAN SEQUENCE - mRNA

CGAGGCGGCATCCGAGGGCTGGGCCGGCGCCCTGGGGGACCCCGGGCTCCGGAGGCCATGCCGGCGTTGGCGCGCGACGCGGGCACCGTGCCGC
TGCTCGTTGTTTTTTCTGCAATGATATTTGGGACTATTACAAATCAAGATCTGCCTGTGATCAAGTGTGTTTAATCAATCATAAGAACAATGA
TTCATCAGTGGGGAAGTCATCATCATATCCCATGGTATCAGAATCCCCGGAAGACCTCGGGTGTGCGTTGAGACCCCAGAGCTCAGGGACAGTG
TACGAAGCTGCCGCTGTGGAAGTGGATGTATCTGCTTCCATCACACTGCAAGTGCTGGTCGATGCCCCAGGGAACATTTCCTGTCTCTGGGTCT
TTAAGCACAGCTCCCTGAATTGCCAGCCACATTTTGATTTACAAAACAGAGGAGTTGTTTCCATGGTCATTTTGAAAATGACAGAAACCCAAGC
TGGAGAATACCTACTTTTTATTCAGAGTGAAGCTACCAATTACACAATATTGTTTACAGTGAGTATAAGAAATACCCTGCTTTACACATTAAGA
AGACCTTACTTTAGAAAAATGGAAAACCAGGACGCCCTGGTCTGCATATCTGAGAGCGTTCCAGAGCCGATCGTGGAATGGGTGCTTTGCGATT
CACAGGGGGAAAGCTGTAAGAAGAAAGTCCAGCTGTTGTTAAAAAGGAGGAAAAAGTGCTTCATGAATTATTTGGGACGGACATAAGGTGCTG
TGCCAGAAATGAACTGGGCAGGGAATGCACCAGGCTGTTCACAATAGATCTAAATCAAACTCCTCAGACCACATTGCCACAATTATTTCTTAAA
GTAGGGGAACCCTTATGGATAAGGTGCAAAGCTGTTCATGTGAACCATGGATTCGGGCTCACCTGGGAATTAGAAAACAAAGCACTCGAGGAGG
GCAACTACTTTGAGATGAGTACCTATTCAACAAACAGAACTATGATACGGATTCTGTTTGCTTTTGTATCATCAGTGGCAAGAAACGACACCGG
ATACTACACTTGTTCCTCTTCAAAGCATCCCAGTCAATCAGCTTTGGTTACCATCGTAGGAAAGGGATTTATAAATGCTACCAATTCAAGTGAA

GATTATGAAATTGACCAATATGAAGAGTTTTGTTTTTTCTGTCAGGTTTAAAGCCTACCCACAAATCAGATGTACGTGGACCTTCTCTCGAAAAT
CATTTCCTTGTGAGCAAAAGGGTCTTGATAACGGATACAGCATATCCAAGTTTTGCAATCATAAGCACCAGCCAGGAGAATATATATTCCATGC
AGAAAATGATGATGCCCAATTTACCAAAATGTTCACGCTGAATATAAGAAGGAAACCTCAAGTGCTCGCAGAAGCATCGGCAAGTCAGGCGTCC
TGTTTCTCGGATGGATACCCATTACCATCTTGGACCTGGAAGAAGTGTTCAGACAAGTCTCCCAACTGCACAGAAGAGATCACAGAAGGAGTCT
GGAATAGAAAGGCTAACAGAAAAGTGTTTGGACAGTGGGTGTCGAGCAGTACTCTAAACATGAGTGAAGCCATAAAAGGGTTCCTGGTCAAGTG
CTGTGCATACAATTCCCTTGGCACATCTTGTGAGACGATCCTTTTAAACTCTCCAGGCCCCTTCCCTTTCATCCAAGACAACATCTCATTCTAT
GCAACAATTGGTGTTTGTCTCCTCTTCATTGTCGTTTTAACCCTGCTAATTTGTCACAAGTACAAAAAGCAATTTAGGTATGAAAGCCAGCTAC
AGATGGTACAGGTGACCGGCTCCTCAGATAATGAGTACTTCTACGTTGATTTCAGAGAATATGAATATGATCTCAAATGGGAGTTTCCAAGAGA
AAATTTAGAGTTTGGGAAGGTACTAGGATCAGGTGCTTTTGGAAAAGTGATGAACGCAACAGCTTATGGAATTAGCAAAACAGGAGTCTCAATC
CAGGTTGCCGTCAAAATGCTGAAAGAAAAAGCAGACAGCTCTGAAAGAGAGGCACTCATGTCAGAACTCAAGATGATGACCCAGCTGGGAAGCC
ACGAGAATATTGTGAACCTGCTGGGGGCGTGCACACTGTCAGGACCAATTTACTTGATTTTTGAATACTGTTGCTATGGTGATCTTCTCAACTA
TCTAAGAAGTAAAAGAGAAAAATTTCACAGGACTTGGACAGAGATTTTCAAGGAACACAATTTCAGTTTTTACCCCACTTTCCAATCACATCCA
AATTCCAGCATGCCTGGTTCAAGAGAAGTTCAGATACACCCGGACTCGGATCAAATCTCAGGGCTTCATGGGAATTCATTTCACTCTGAAGATG
AAATTGAATATGAAAACCAAAAAAGGCTGGAAGAAGAGGAGGACTTGAATGTGCTTACATTTGAAGATCTTCTTTGCTTTGCATATCAAGTTGC
CAAAGGAATGGAATTTCTGGAATTTAAGTCGTGTGTTCACAGAGACCTGGCCGCCAGGAACGTGCTTGTCACCCACGGGAAAGTGGTGAAGATA
TGTGACTTTGGATTGGCTCGAGATATCATGAGTGATTCCAACTATGTTGTCAGGGGCAATGCCCGTCTGCCTGTAAAATGGATGGCCCCCGAAA
GCCTGTTTGAAGGCATCTACACCATTAAGAGTGATGTCTGGTCATATGGAATATTACTGTGGGAAATCTTCTCACTTGGTGTGAATCCTTACCC
TGGCATTCCGGTTGATGCTAACTTCTACAAACTGATTCAAAATGGATTTAAAATGGATCAGCCATTTTATGCTACAGAAGAAATATACATTATA
ATGCAATCCTGCTGGGCTTTTGACTCAAGGAAACGGCCATCCTTCCCTAATTTGACTTCGTTTTTAGGATGTCAGCTGGCAGATGCAGAAGAAG
CGATGTATCAGAATGTGGATGGCCGTGTTTCGGAATGTCCTCACACCTACCAAAACAGGCGACCTTTCAGCAGAGAGATGGATTTGGGGCTACT
CTCTCCGCAGGCTCAGGTCGAAGATTCGTAGAGGAACAATTTAGTTTTAAGGACTTCATCCCTCCACCTATCCCTAACAGGCTGTAGATTACCA
AAACAAGATTAATTTCATCACTAAAAGAAAATCTATTATCAACTGCTGCTTCACCAGACTTTTCTCTAGAAGCCGTCTGCGTTTACTCTTGTTT
TCAAAGGGACTTTTGTAAAATCAAATCATCCTGTCACAAGGCAGGAGGAGCTGATAATGAACTTTATTGGAGCATTGATCTGCATCCAAGGCCT
TCTCAGGCCGGCTTGAGTGAATTGTGTACCTGAAGTACAGTATATTCTTGTAAATACATAAAACAAAAGCATTTTGCTAAGGAGAAGCTAATAT
GATTTTTTAAGTCTATGTTTTAAAATAATATGTAAATTTTTCAGCTATTTAGTGATATATTTTATGGGTGGGAATAAAATTTCTACTACAG

HUMAN SEQUENCE - CODING
ATGCCGGCGTTGGCGCGCGACGCGGGCACCGTGCCGCTGCTCGTTGTTTTTTCTGCAATGATATTTGGGACTATTACAAATCAAGATCTGCCTG
TGATCAAGTGTGTTTTAATCAATCATAAGAACAATGATTCATCAGTGGGGAAGTCATCATCATATCCCATGGTATCAGAATCCCCGGAAGACCT
CGGGTGTGCGTTGAGACCCCAGAGCTCAGGGACAGTGTACGAAGCTGCCGCTGTGGAAGTGGATGTATCTGCTTCCATCACACTGCAAGTGCTG
GTCGATGCCCCAGGGAACATTTCCTGTCTCTGGGTCTTTAAGCACAGCTCCCTGAATTGCCAGCCACATTTTGATTTACAAAACAGAGGAGTTG
TTTCCATGGTCATTTTGAAAATGACAGAAACCCAAGCTGGAGAATACCTACTTTTTATTCAGAGTGAAGCTACCAATTACACAATATTGTTTAC
AGTGAGTATAAGAAATACCCTGCTTTACACATTAAGAAGACCTTACTTTAGAAAAATGGAAAACCAGGACGCCCTGGTCTGCATATCTGAGAGC
GTTCCAGAGCCGATCGTGGAATGGGTGCTTTGCGATTCACAGGGGGAAAGCTGTAAAGAAGAAAGTCCAGCTGTTGTTAAAAAGGAGGAAAAAG
TGCTTCATGAATTATTTGGGACGGACATAAGGTGCTGTGCCAGAAATGAACTGGGCAGGGAATGCACCAGGCTGTTCACAATAGATCTAAATCA
AACTCCTCAGACCACATTGCCACAATTATTTCTTAAAGTAGGGGAACCCTTATGGATAAGGTGCAAAGCTGTTCATGTGAACCATGGATTCGGG
CTCACCTGGGAATTAGAAAACAAAGCACTCGAGGAGGGCAACTACTTTGAGATGAGTACCTATTCAACAAACAGAACTATGATACGGATTCTGT
TTGCTTTTGTATCATCAGTGGCAAGAAACGACACCGGATACTACACTTGTTCCTCTTCAAAGCATCCCAGTCAATCAGCTTTGGTTACCATCGT
AGGAAAGGGATTTATAAATGCTACCAATTCAAGTGAAGATTATGAAATTGACCAATATGAAGAGTTTTGTTTTTCTGTCAGGTTTAAAGCCTAC
CCACAAATCAGATGTACGTGGACCTTCTCTCGAAAATCATTTCCTTGTGAGCAAAAGGGTCTTGATAACGGATACAGCATATCCAAGTTTTGCA
ATCATAAGCACCAGCCAGGAGAATATATATTCCATGCAGAAAATGATGATGCCCAATTTACCAAAATGTTCACGCTGAATATAAGAAGGAAACC
TCAAGTGCTCGCAGAAGCATCGGCAAGTCAGGCGTCCTGTTTCTCGGATGGATACCCATTACCATCTTGGACCTGGAAGAAGTGTTCAGACAAG
TCTCCCAACTGCACAGAAGAGATCACAGAAGGAGTCTGGAATAGAAAGGCTAACAGAAAAGTGTTTGGACAGTGGGTGTCGAGCAGTACTCTAA
ACATGAGTGAAGCCATAAAAGGGTTCCTGGTCAAGTGCTGTGCATACAATTCCCTTGGCACATCTTGTGAGACGATCCTTTTAAACTCTCCAGG
CCCCTTCCCTTTCATCCAAGACAACATCTCATTCTATGCAACAATTGGTGTTTGTCTCCTCTTCATTGTCGTTTTAACCCTGCTAATTTGTCAC
AAGTACAAAAAGCAATTTAGGTATGAAAGCCAGCTACAGATGGTACAGGTGACCGGCTCCTCAGATAATGAGTACTTCTACGTTGATTTCAGAG
AATATGAATATGATCTCAAATGGGAGTTTCCAAGAGAAAATTTAGAGTTTGGGAAGGTACTAGGATCAGGTGCTTTTGGAAAAGTGATGAACGC
AACAGCTTATGGAATTAGCAAAACAGGAGTCTCAATCCAGGTTGCCGTCAAAATGCTGAAAGAAAAAGCAGACAGCTCTGAAAGAGAGGCACTC
ATGTCAGAACTCAAGATGATGACCCAGCTGGGAAGCCACGAGAATATTGTGAACCTGCTGGGGGCGTGCACACTGTCAGGACCAATTTACTTGA
TTTTTGAATACTGTTGCTATGGTGATCTTCTCAACTATCTAAGAAGTAAAAGAGAAAAATTTCACAGGACTTGGACAGAGATTTTCAAGGAACA
CAATTTCAGTTTTTACCCCACTTTCCAATCACATCCAAATTCCAGCATGCCTGGTTCAAGAGAAGTTCAGATACACCCGGACTCGGATCAAATC
TCAGGGCTTCATGGGAATTCATTTCACTCTGAAGATGAAATTGAATATGAAAACCAAAAAAGGCTGGAAGAAGAGGAGGACTTGAATGTGCTTA
CATTTGAAGATCTTCTTTGCTTTGCATATCAAGTTGCCAAAGGAATGGAATTTCTGGAATTTAAGTCGTGTGTTCACAGAGACCTGGCCGCCAG
GAACGTGCTTGTCACCCACGGGAAAGTGGTGAAGATATGTGACTTTGGATTGGCTCGAGATATCATGAGTGATTCCAACTATGTTGTCAGGGGC
AATGCCCGTCTGCCTGTAAAATGGATGGCCCCCGAAAGCCTGTTTGAAGGCATCTACACCATTAAGAGTGATGTCTGGTCATATGGAATATTAC
TGTGGGAAATCTTCTCACTTGGTGTGAATCCTTACCCTGGCATTCCGGTTGATGCTAACTTCTACAAACTGATTCAAAATGGATTTAAAATGGA
TCAGCCATTTTATGCTACAGAAGAAATATACATTATAATGCAATCCTGCTGGGCTTTTGACTCAAGGAAACGGCCATCCTTCCCTAATTTGACT
TCGTTTTTAGGATGTCAGCTGGCAGATGCAGAAGAAGCGATGTATCAGAATGTGGATGGCCGTGTTTCGGAATGTCCTCACACCTACCAAAACA
GGCGACCTTTCAGCAGAGAGATGGATTTGGGGCTACTCTCTCCGCAGGCTCAGGTCGAAGATTCGTAG

TABLE 24

MOUSE NOMENCLATURE
ICSGNM Dntt
Celera mCG2378

HUMAN NOMENCLATURE
HGNC DNTT
Celera hCG24648

MOUSE SEQUENCE - GENOMIC

GATGCTCAGCCCTCCAGGGCAGGAGAGGGCTATACTCTAAGTGGAGAGATAAGCTACACTTGTCCATTTATAGAGTGGTAGGTAGGTATATTAA
CGGTGTGTTCTCTGAGGAAGTCTCCAGGACCTGAGATGAGGGATGTGTGTGGGGTCAGCATCTCTGGGGCAGTGGGAGAAGACTGGTCAGGAGG
AATCACGGTAGAGTATATCAACACAGGCAGTTGTTAGAGCTCTGTGATCATTCAGTGCTATCACCCATGGCAACAACCTCTCCCAACCATTGAT
TGGGAATTGGTGTGGGTTTCCCCTAAGGGAAGTCCTGACAGAGATGTGGAGGCATTTTCTCTGAGCCATCAGCCTCCTGTCTGAGGACCTGGGG
AGGCTTTGTCAGCATCCTCTATAGAAGGTCAGTGTCTTGGTGATCACTGTCTATGCTGGAGAGAAGAGAGAGAGGGTCTGAGGCTAAGGGGCTG
GACGTGATCAGGGGATCTTGTAGTGATATCAGTTTCTGTTTACTAGCCGTTTTACCCCCACTTAAGACAGCGTAAACTCCCAGAGCTACAGTTA
TTCCCATTGTCTTAGGTCCCCCGATAAAACTCAGGAAAGAAAACCAAAACCATTTAAAAGATCTCTTCAAGCCACGCAGGTCAGACGCTCACCA
AGTTTAGTCTAACTCGACTAACATTTTTGTTGTTGTTGTTTTGTTTTGTTTTGTTTTTTTGAGACAGGGTTTCTCTGTGCATCCCTGGCTGTCC
TGGAACTCACTCTGTAGACCAGGTTGGTCTCGAACTCGAAATCTGCCTGCCTCTACCTCCTAAGTGCTGGGATCAAAGGCGTGTGCCACCACTT
TCCTGGCTTCAACACTTTTTTTCTTTCTTTCTTTTTTTTTTTTTACTGTTTTTGTTAACAGTTCTATTCGGTCTTTCAATTAGTTGTCTAAAGAC
TGCAAAAGTCACTTTTGAAATTGCTTCTTTCTGACTTGACTCCTTAGCCCAGCAAGTTTGTCCTCTAATCCCCACTCTTATGGTTTGCATCTCA
GACCCCTGCTTAAATTTTACCTTCTACTTAATTGCACTGAAAACAAGTAAAGCCTTCTCAGAGCAACTTGGTTAAAATCGGGTCCAGTCCCACC
CACAGACACCTGCCCCCTTCCTCCTTCCCACAGCATGTACACCAGCCACCTCTAGTGGATTATTTACCGTCTGTTTTTTATCTAATAAATGGTA
AGCTCTGAGAGGGCAGGGACCAGCTGTTTGAGCCTGGAAGAACTGGCTTCTGGAGGGCACCCGACAGAACTGTAGGTTGAACTCATGGCTGGAC
TCTCTGCTTCCATTAGCTCCACTCTGGCCATTGGCAACAATGTCTAGCTGGAATCACAGCTCTGAGTCTCCATCCTAATCCTCTGGGTAGATCC
TGTTAAGCCAGCATGCTCACCTCCAGCGATAGCTGAAGGTCAGGACAAATGTTAAAGTGTTTCCTAATACAGACCATCTCTATAGATGTCCACG
ATTACTAATATCTCAGCGTATTGTTGACTTCTCAGTGAAAGGGTATGTGCTCTGAAAGCTGTGACCAGAACTGAGTGAGATTTTCCAGGTTATG
GGTAGTGGCACAGGCTGGTCGACTCCATGTGTAGAAGCCACCTGAGGACAGCCACCTGAAGAGCGTGAGTGGCTGAGAGTTCAAGAGCTTGTAA
TGTTCACCTGCCATATCTACTGCTCTCTGACCCGGTACTCACGGCTTATCAGCAATCCAGAAGGAGAGGGTATTTAGCGGGTTGCCTCAAGAGT
TTACTGAGCAAAAGAGAGGCTGGAAAAGATTTCAGAGATAGTGGGGAGTGGTGGTGAATAACCCTGTCTTAGGATTTTGGAAATGTTACTAAGT
GGAATTAAATAGTCCCGGAAGTGAAGACAGAGATGCAGACCAGGCATTGGGGCTCCCACTTGTAACTTCCACACTCAAGAGATAGAGGCAGAAA
GACAGAGCGTTCAAAGTCATCCTGAGATCAAGGCAGTGCAGCCTGGCTACAGGAGACCCTACTTCAAGAAGAAAAGCAAAGAGCAAGAAGGGGA
ATGGGCTAGAGATACAAATGCAATAGAAGCCAGGAATGGCAGGGCTGGAGGGCTCTGCAGGCTACCAGGGGCCATGGATGAGAAGCCTTTCTTC
CAGCCAGCGACCAACAAGCAGTTCAGCCTGTGGTCTGGGGCTGCCATCCCACTTGAGACTCTGTTCCCATTCCCGTCTGGTCATAGTTCACATC
TCACAACTATCATCTTCTCATTGGTTCCCTCTCTCTTCTCTGATTCACCCTTGCCTAGTTGGTTTTCAGGAGGTGCCATATTGCTCAGTGGGTC
TCCATGCAAACTCATATCAACGGCTCCCACGCCTGCAAACAAAACCCCAGCTCTCCTATCTACACCTTTCCTGTGGGCAACTGCCTGTCCCTCC
TCACACCCACAGGGGATGCTCAGGATGTAGCCTGCTCATTTTGTGTTCCTCTGGAGTTTAATAAATATGGTTGGATGAAAACTAGAGGCCACCA
GTACCATGATATGTCCATCGACTCCCTTGTCCTGTCCTGTCTCACTTGGTAGATAACAAAATAAAGTGGAAATACAGAATGTTCTTGTATTAGG
CACTCAGATGATAACTATTACTGTGGGTGGCTTCTCAATGACAAGAAACTTTGAGAAACTCTATAGTTTTCCCCAGTGGGGCAGTTCCAGAAGA
CACCTGCTGTGAAGAGCCAAGAACAGCTGTGCAGGCAATAGAGGAAGCTGGCACTCACTCAGTAAAAAAACCAAACCAAAACAAGACCCTGCCT
GCAGTTGGATGGCAAAGTTCCCAGATGGGCAGCTTGACATAAAGAGGCGCTGTGAGGTGTTTGATATAAAAGAAGATAAAACCGCCGGAAACAG
ACATCTCCTCTCCTAAACTGACTCCCTCAATGTGTGCAAAGAACAACCCGGCTCAGGGTAAAAATAGTGTTTGTGGATGAAGGGGGATGTGTTT
GTCCACCCAGGGAAAGACTGCAGCTGGCCAGCCTCTTTCCTGCACAGTGGAGGGTTTGAAGGACAGTCAGATGGGTGACCAAGGAGAGGAGAGC
AGGGTGGAGATACAGATGTGGATCCATATTAAACCCAGAGGAGAAGCAACCGCTCAGGAATGGCAGAATGGTGGCCAGATGTGGCCTTTGTCTC
CTCATCCCTGTGACATCATATCCAGGCAGGAGCACCAGTCATGCCAGCTAGCACCTTGGAGTGGCAGGGTGGGAGGGCAGGGAGAATGGTGAGT
GGTGCCCAAGCAGGCCAGGCAGGCAGAGGAAGTTTTGTCTTAGGAGGCCGTGAAGGTCAGTACTCTGTTGGAAGCTGAGGAGTCCACCGGTGAC
AGAAATTGCCCAGGCAGACACACCCAAAAAGTGTCAAGTGGCTCAGGCTTGTCTAGTCCGGGGTCATGATACTCCTTACTAAGTCAATAGATTG
TCTAAGTACTGTGCAAAACAGCAAACAGAACAGGGCCGAGCCGGGCTCCAGACTCAACAAACCAAGCAGGATTCTTTATTGCAGGGCCCCATGA
GGTGTTGGACATTTTAATACTCGTTGCATAGAGTTTGTCTGATCCCTCTGACCTAACTCATTACAGAATCATCATCATCATCAACTTTATCAGC
AGTCATCAACAGAGTCTCACTGTATAATCCAGGCTGGCCTCAAACTCATGACCCTGCTGCCTCAATTTCCCCGTTTCTGGGATCTCAAGTGTGC
TCCACCATACCCAGCACTGAAGACTGTCTTGTTTGGCTTGGAGCATCTCCCTGAGACCCTGGGCTCCTTGCAGATCTCTTCACCAGATCTCTTT
ACCCTCCCTAGGATGCAGAGTCTACCTTGAGTGGCACTGGCAGAAATATTGGTGAAGTGCAAAGAGACACAGGGACGTGAAGGGGGAACAAAGA
GAAGTCACAGCCTTTCAGTTAACAGTATTGTCCTGAGAAAGCACTGCATGCCAATATTCCTGTATTTAGTCTTCATAAACACTCACAAGACAGA
AACCACTAGAACCTCACTGTGCATATTAGGGAACTGAGGCACAGGAATGTCTGGCAACACACCTGTGGGTATGTCTGTCTGTAGCTCATAATGC
TGTGTGTTATGGGCAAGACAGAAAGATGGTCGGGGCAGGAAGGCCACCAGAAAAACCTGGGAAAACCCTCCATCACTTTGTTCACAGGGCTCC
CACCAGATCAAGTTTGGAAGTATTAGTTGATGTGGTTCAGGGAGACCAGACCTCCTTGTGTGTTCACATCAACAACTGAGAACTCTAGCCTGAG
CACAGCAGTGGGTGTTGCTTCCACTCAGGTGGGGAGAGGGTGGTCCTGGGGCCTCCCTATTCCCTTTCCTGGCATCACGCACATTCCCCATCAT
CCCCTTGACATCAGCCAGCATATAAATCCTGACATGTCAGGAACATGTATTCTCCCACATCCCACATGCTCTCCTGTGGCCCTGCCATAGAGAGG
TAGACTCTTGAGGCTACTCTAACCAATAGGCAATGAACAACAGCAATGTGTATTACTTGGCATTGAGTGTGGGTACTAGGTAATCCTGCTGTGA
TCTCTGTCCGACTGCAGCAGTGGCTGAGACGGTCCAGATGTGGCAGGTACAAACATGTCAAGCTTCCATTTGGCCTGGATTTAGAGTAGAGCAG
AACCCTCCAACAAGTAGCATGAAGGAAAAAAATAGACTTTGATTTGTTTAGCCAACACAAAGGATTTGGAACTAATTGGCCATTGACTGGACCA
AGGAGCCACTTAACACCTGATGCAATTAGCACCAGAAAATTATGGTATAGAAGGAAGAAATTAACTCCTGCCGCTATCAGGAATGCCAATGGAA
ATAACAAAACAATTGACTTTTGTATAGTGTTTCATAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATTCAGAGGACAACCT
AGGATGCCACCCACTTGTTTTGAGACAATGTCTCTCACTCTAATTAGGCGAGGCTGGCTGGGCAATAAACCCTAGTAATCTGCCTGTCCCTGTC
ACCCTAGCACTGGATTACAAGTTCATGCTGTCACAACCAGCTTTTAATACGAATACCATGGGATCAAACTCACATCCTTCATGCTTGGGTGGCT
AACACTTTACCAACTGAGATAGCTCCCCAGACCCATGTTTCACAATGTTCAAGGTACTTGATAAACAGAGTTTAATTAATTCCAAAAGTGACCA
CCATGCTTCCATGATTCTGAGCAGTTTTCCACCTCCTTTCATTAAGCCGTGACTGTGTAGTCCATTTTCAGCTGTTAGAGCAAACCATCTGAAA
CTGGGTAATTTATAAGACTTATTTTGGCTAACCGTTCTGCAGGCTGGGATGTCACTGAACATAGATAAGGTTGCATTCTTCTTCCCATGGTGGG
AACAGAAAGGCAAGAGGGGTGTGTGTGGCAGGGATGAATAATGAAGGGTGGCTTTATGTTTCAACAACCCTGCATCCAACCTGTGACAAAGGCA
CTAATCCTTTTTGATGTCTAGTTGCCCCTCCAGGTCCACCTCCCAACAATGCTCCAATGGCAATAAAGTTCCCATATAGGTTTCGAGGGTAAAA
ACTATTTTCAAATCATAGTACAAAGGCTTCAGGCTACATGATGCTATTGTGAAGGACCCCGAGAGTCAGAAAACTGGGATTGGAAGCCCCAGAC

TTCATCTCCAGAGTTGGTTAGGGTGAGATTCCTAAACGGTTCTAACTCCAACCCCTGCTTTCCCCACCATCAGGGCTCTGGATCAGTAGAGTAT
TGCCTGACAGTCAGGCAGGACCTCACACAGGATGAAGCAGAGACATGTCCACCCTTTATTCAGCTCACTTAAAATAATCTCACCACCTTTGAGT
CACCAAGATGTAAACACAAGAGAAAAAAATTAAAAGTAATTTACTGTTGTGGCTAAAATACAATTCCTGTCTATTGTAGGAGTCTGTTAAACAA
CAGCCAAACATAGTGTGTAGTACAAGTTGCTCCAAGAGGTGGCGTTGGGAAAGGCCTTGTAAGTTGCTGGGTTAGATCAGCCTGGGAAGCATGC
TTGACTCCATCTCAAAGAAAAATAAATAAGGAAAGGAGAGGAAGGAAAGAAATAAGTCTGTAAAAGAAAAATGCACAAAGACAAAGCTAAAAGT
CCTGCCTAAACCCCCTGAGTGGCAGGATTCTCTGTTCTGATGTAGGGCTGGTCATATGCCTCCTTGCTCCTCTCTATGAGAATTGGTCACCACG
TATTATGAGCTGGTTTTGTAATTATTAGATTGTGGACATTTACACATGCCATTAACTAGTTTATGGCATGACTTACCTGTTACCCTTTATCCAA
CAGCTGGCTAGTAGACAGCTCGTGTTGTTTCTAAACTCTATGTACAGATCAGGCCATGATGAGCTGCCTGGTATGTGCGTCTTCCTGAGTCTCT
CTTCAGATGGAGTATGCCTCTAGTGGTGTGGCTAATGCCCTGCGTGTACCTCTGCTCTCATTGTATTAAAGATTCAGTTGGGTGTTTCATACAA
GAGAGAATTTACCATAGAAGACTTCTTTTTTATTTGTTTGGTTTTTTTGTTTGTTTGTTTTTTTGAGACAGGGTTTCTCTGTGTAGCCCTGGCT
GTCCTGGAACTCACTTTGTAGACCAGGCTGGCCTTGAACTTGGAAATCTGCCTGCCTCTGCCTCCCGAGTGCTGGGATTAAAGGCGTGCGCCAC
CACACCCGGCCATAGAAGACTTCTTTAATGGGCACTGGAAATCTAGGAATCAGAAAAGGACACTGAGTCAGCTCAGACTGACTGTAGAAAACAC
GTCCCACTCTTGGGTGCAGCAGTAGTTAACACTGGTCAATGTGATACTTGGATAACTTAACAATTTTATAAACTATAGATCTGATTTTAGATTG
AGCTAAGTTGACCCTCTGAACAAAATAAAAGTTACTATTGACTCTTACTTAAGGTTCTCCTCTGTGTCACGCCTTCTGTACGGGGGTGAAATGG
GCTATCTCAGTTCTTGATTTAGATGTGGGGAAAACAGGCTTAAGGAAGTGAAGCAACTACGCAAGGTCACAGCCTCCCAGCTGTGCAGATGGGA
GCTCGTGCATCCCTGGCTGCATCCTCTGTCTGTGTGCTATTCTCTGTTCCTATTGCTGCTTCTGTGGTCTCACATTGCTGTGCAGATAGAAGCT
TGTGCATCTATGGCGGCATCCTCTGTCTGTGTGCTATTCTCTGTCCCCGTTGCTGCTTCTGTGGACTCACGTTACTATGGGGATGATACCACCC
CGGGGCCTAGCTAGAGGACTGCCTTGTTCATGCTGTCAGACCACTTGGAGGCTAAGACTAATTCTATCATGTAGCTGTCTGAAACCAAGCATCT
AACAGGGGGCCAAAGTGTGTGTGGGGGGAGGCTTGTCCCCACTCATTGGTCTCTATCAAGCAAACATTGCACCCTAGTCTCAGAGAGCTGCACA
AAAGGCCCCTCCAGATGATTAAGTTCCTTCTGCTACATGTCCGTGAACACCGTCAAGGTCTCTACCACACAGGGAGCCCACTCTGCACTTTTGA
CAGGTGTAGATACTTGCAGAGAGCCAAAGTCTGTTCACTACAGCTCTCTGTCATTCTTGCATGAAACAGCCTTGTGGATGCCCGATGGCAGCTG
TCATAGCACCCTCCTTTGGCAGTGCTGAGGTGCTCATGCGTTCATACGCTCTTGAAGGCAGTAAAAGTCCCAAATGCTGTGGTGGAATACATGA
GAAGGGTCCATATTTATTACTGGGTAAGGAGGCATGACAGAAGGAGGCTGTTTGGTATGTGTATGTGTGTAAATACATGTGTGTGTGTGTACAC
ATATATATTTGTTTTTGCTTTTTGTTTTTTGTTTTTTTTTTTGTTTTTTTTTTTTTTTTGTTTGTTTTTTGAGGCAGGGTTTCTCTGTGTAGCC
CTGGCTGCCCTGGAACTGACTCTATAGACCAGGCTGACCTTGAACTCACAGAGATCTTCCTACCTCTGCCTCCTAAGTGCTGGGATTAAAGGCA
TTGTACTACCAGTCTGGTTAAGAGCATACATTTTTAATTTTGATTTTTTAGTTTATGTNNNNNNNNNNNNNNNNNNNNCTCCTTGTGGGTGAGC
CTCACCACCCATTGAATGTTCTCTCAGACAGGCCCTGACACAGAAGCACCAGCTCTTAGGAGTAACTGAAAGTTTCCTGCTAGTAACCTTTGTT
AGACCCAGTTCTACCCACAATAGTTTACATAAAAATGAAGCAACAAAGGAACCCCCGGGAGACCGTTTGCTTTGAAGCACAAATGTAAACGGTC
TGGTTTCAGCACCCTCAGATTGCTTTCTGTGCAGAAAAGGGCTAAACAATCACTGCCTGGGTCACTGGCAAGGTGACATTCCTGGAATTACTCC
TTAGACTGTAGGAGACGCCAGGCACAACCGCTGTTATTTGGGAGAATGTTCTTGTAAACCCTTTCTTCCTCTCTGACTGCACAGCCTTCTCTCA
AGCTCATGACCACAGCTGTGTGGGCATCTCCAGATGACACGAGGGAGCTGGTCCTCCCATAGCACTTATCTGTGATCCACTGTGGTTAACTGAC
ATTTTGTAGAGTTCTTTCCCTCTCCCTGTAGGTGAACCATCAGCCCCCCCCCCCCCCGTATTATATGGGTATCTAGCTGGCAGTATGGTCTTATA
AGAATTCAGTCAGCAAAGGTTTTGAGGTCTTGCCTAGGTCCTGTAGTAGGTGTTCCAGAAGTGAGACCTACTAAGTAATATTAACTAAAGATGA
AATTTTCATTTTGCACAGGGCTGTGAAAATGTCCCTAACTCCATGCCCATGACTCTTCTCCAAAACTCATCTCGTCTCAGAGACCTATGTTAGT
TATGTAGCGACCACTCTCTGGAAACTTAGTGCACTGAAAAAATAGAAACCAAAAACAAACTAAGTTGCATCACGGTTGAAGTCTGAAGAACTGC
ATTCATGATCTCATTTGCCCCATACTCTGTGATCTGCAGTGTCTGAACCTTAGCTTTCTATAAAATGTGCTCACACACTGGAGCCTGTGGTCCT
GTGCCCACTGCAAAACGATAGTAACTAAAGCAGCAGAGTAGACAGAGCCAGGAAAATCACAGTTATGGGCTTGTTGGGAAAAAAGTGACCATGG
GGCCAGGAGAGATAGCTCAGTGATTAGGAGCACTAACTGCTCTTCCAGCAGGCCAGAGTTCAAGTCTCAGCAACCATGTGGCAGCTTACAACTG
TCTGCAATTCCAGTTCCAGGGAATCTGACACCTTCCAACACCAATGCACATAAAATAAAAAAAAATTAAAAAAAAAAAAGCAACCAGCAGAGTG
AGAAATTCAGGTGGCATTCACGTGAAATCACAACAGCTGTATGTAACACATCTGTGCCAATTACAGACATCCAGTGTACCATAACGTAGGTCCG
AGAGAAAGAATAGAAGTGAGCTAGAGTAAAGCAGGAATCAATGAATAAAGTCAGCAGGAGCAGTTAGATGACTAAGTGGTGATGATAGAAGCTT
GCTACCAAGACTGACAACCCACGTTTGATTCCTGGGACCTACAACGGTGGAGGGGGAAAGATGCCTCTGACTGCCACACTGATGTCATGGCATG
CACACACATGCCCCCTTGCGCAGTAAGCAAATGTAATACATTTTTTAAAAAATGGCTTTTAAAATGCAACCTAAAGGGTTTGAACATGTCTAAA
GATAAATAACAGTACTCAACCAGTGGCGAGGTCCCCCTTTCTTCATAAGTTTATTCTGAGGTACTGCCGAGATCAAGTGTATGAAAACCCAAGT
TCACTGTTCTTTCTGTCAAGAGCTCCATTTTGGGAGAAAGGACCTGATCAGAGTGAGACATTCCTTCAGCAGGAAGTTGTCACCAGGGTGGTAC
CTATGGGTCTGCTGGTGAGAGGACATCAGAGCCCTCATTCTGGAGACACCACCTGATGGCACAGACAGAGCTAGACTGTCTGCTTCCATGGATC
CACTGCAAGCAGTCCACCTGGGTCCTCGGAAGAAAAGACCCAGGCAGCTGGGCACCCCAGTGGCTTCCACGCCTTATGACATCCGATTTCGAGA
CTTGGTCCTCTTCATTTTGGAAAAGAAGATGGGAACAACTCGAAGAGCCTTCCTCATGGAGCTGGCCCGAAGGAAAGGGTTCAGGGTGGAAAAT
GAGCTCAGGTAGGACAGCCCTGGTCACTTTGCAAGCATGCAAGAGCCCTGAGGACATCCCCAAGGGACCCAAGGGGCCAGTTGGCTAAGGGAGA
TGAGTGGGGACTAAATGAGATTATATAGAAACTAATTGGTACCAAAAAATAATATTTTTTAAAAAAAATATGGCTTTCCATGACTGACTCTGAG
ATTAAGTATCCAGGAGTGATAACCAGAAAACTAGTCAGAGAACCACATAGAAACCACTCGATTCCATTCTGTACCAAACTGAACCAACACCATT
GGGTTCAATTTTTTACATTGCTACTTTGGAGCAGGGAGGGTGTTCTGATTGTCTGGCTCTGACTTATACACACCTGCTCTGCTAAGGGTCTATG
GTGGGCTAGGCTGAGGTGAGTCACCACGGGTACCTTAATGGCCTTGGTGATGGTTTTCCAAAGGGTGGTCCAAGTGGGCTTCAGGAAGAGATGC
TGGTTAAAGATGTTTGTCTAGGGGTGACAGATGGCACCCCAGTGTGCTATGATCAGAGTCTAGGCAGGGAGGTGATTGAAGCTACCATCTGCAC
TCGTTCAGTAAGCACCAATTATCATTGTTTTGCTGACTATTGTGTACGTTCACTCTCTTGACCCAATGAAAAGAATCAAAGCGATTCAGAAAGT
CCCAGTAAAAGGCCCTGGTGTGCCTGACGGCTGCAGACAGAAGTGTTGGGGTTACAGTGGGAGTGGGGGGGGCACTCAGTTCACTGCCTTCAGC
CATGCAAGTTGGGAGGGGTGCTGAACATACCGTGTCAGAGATGATCTGACTTTTACACTTGGGATTTTGGAAAGTCTTTGAATTTAAAAGAAAA
TTGCCAAACGTTTCTTGCTGATGAAATGCTGGCTTTGGAGACATTGAGGAGACACATTTCCAAGGTCAGTACTCAGGAATTTCACACTCCACAT
GCCCAGCTGAGGGGATCTTTTTAGATTTTTTGCTAAAATGTCCCCAATCAAAAATTCCTGAGGTTCTGGGCTTCTCTCTTTTCTGAGTCTTTGT
CACATGGTCTCCTATTTTTTGTTTTAAGTCATCACAGCCACTCTCAACTTCATTCCTTGATGTTCTTTTCACACAATCCATTATTTCAACTCGT
TTTTGAGTATAACTAATCTGTTAGCCTTATGTACAGTGTTAGCTTTAAAAGAAAAAGAGATTAGATAGGTAAAGGGGGAGGGATAAAACAGAAA
AAACATCTTCAAAGAGAAAGTTAAAAACAGAAATCAAAAGTTTTAGCAGCTACCAAGATGCTTTTCATGGTAAAGGAACTGAACAGGGACCAGT
CAGGAAAGGGAGAGCCATCAGGCAGGGTGCCACTCACTCAGAAAGCTCTCTGATAAAAGGTCCATACATCTGTTGGAGGCCCATGGACTGAGTC
ACCAATGGAGCAAATGAGCCGAGGCAAGTGTCAGGGGTGATGATGATCACGAAGCAAGTATCTTTGCTGGAGAGGTGAATCAGAGTGGTGCCCC
AGATGCCAGCAGCCAGAGCTATGCCTGCTGCTGGGGAGACAGGAAATGGGTGAGCAAGCCGCTGCTGTGCTCAGGATGGAGCAAAGTTCTCAGG
CGGAGAGCACAGACACTTTCAACGTGTGTGTGTGTGTGTGTGTGTGCGCGCGTGCTGTAGAGGAAGATGAATCACAGGAAGCAGAAGCCCCG
ACGATAACAGAATTTCTGTGCCCAGATAAAGAGTCATTAATTACTGTAGGGAGAACCTTTAGGCTTCATCTCCTGGTGCTGGCCCTTTCCAGAC
CAGCAGTTNNNNNNNNNNNNNNNNNNN

NNNN

GTTTTCTGACCACACTAAGAGACCTGAAAGTCTCAGGAGTGTGACAGAACCCTGGCTAAAGACTGGTCCAGAAGATAGGAAAGGGTTATACCCA
ACCCAGTCATGACTGCTGGGACACCATGGATCCCAGGTCACTACTTGATTAAACTGTTTCTAAATGTCTAATGATTGAACTCAGTTTCCTCATA
AATGCATTAGATACATATCTTTTCAGTTCAGTGACAGAGTCCCACAGGGGAGGATGCAAAGGTACAGGAGCTTGATCCTGACTCCAAAGGCGCT
CCATTAGTAAAGGGGACAGGAGGGACTTGCAAGTGACTCCCACGAGCAGACCTGCTGACCTGGTTTTATTGTTTTAGGATGCCCTTGATATCCT
GGCTGAAAATGATGAGCTTAGAGAGAATGAAGGTTCTTGCCTGGCATTCATGCGAGCATCCTCTGTACTGAAATCTCTGCCATTCCCCATCACC
AGCATGAAAGACACAGAGGGGATTCCTTGCCTAGGGGACAAGGTGAAGAGTATCATAGAGGTAAGGGAGAAGTGGAATTTGCTACATCTCCAAA
GAGGTGAACGGGAGACAGAACAGATCGCATAAGTATGGGCTCTCTCCTCTATTTATCTATAAATGGATCAATATAGCAAGAAACAGATATATGG
GTGTAGACATATAAAATCCATACCCAACACGATCCCAGTAGGAAGACTTTCTCGGGCAGTGACTTTTACTAGCAGCGAAAGACTCGATCGAGCC
TTAGATCTCCAGAGCAGCAGAATATTCTGCTTTCCACCCCAGTCTGGGTGGGAGACTCGGTCTCCCTCAGCGCTTCCTGTACAGCACAGGGTGA
TGTTCAATGGGCTGATTGTGCATCTCTCTGTTCTCAGGAGAGACTGGGCAGTAGTTACATGCTTAGCAACATTTAAGGACTTCCCAACGAGGCA
CGGGTGTCATCTAGTAGCAAGTTTCAATCTAACCAAATGCAAGGTACATCCTTCTAGAAAAATATCGGAGCTCCAGACAACAGAGACCAGACCT
CATAAGGACTTGATAATGGCCAGCTTTTCAGTGGGCCAACAATTAACCCGGTGGTTTAAAAAGCCCTCTTATTTCCACAACTCGAATCAACTGA
AAAGAAAATGACCAGGGTGATTTGAACAATGCTTGTCAGAGAATATTTTGTCTTAGAGTCTCTAGGTTCAGATCTTTATCTTTCTGTATCCTCG
TCAGAGGTTATGAAGGTCTAGGATCTATGGTAAACCAAGATTTTTTTTCAAGATTACAAGGAAATTCTTGCTTTCTCCAGATCAGCCAGGGAAA
AAACCCTCAAGTTTCAGGAGAAACCAGTAGTTGGGTCTTGCGCGCGCTCGACTGGCCAGGAAGAACGACGCTGCAACAGGATCCTTCTGCACAC
GTTTATTGGGAGAGCTTGATTGTAGAGGCGAAAAGACTTCGAGCCCAGAACTGGTGCTGCTTTTATAGGCCTAGGAGGGGCGTGTCTCACACCC
GGATTGGTTATGCACTAAGCCTCATTTGCATGTTCCTCATCTGATTGGCTACTCTCTCTCAGTACCTTACAGAACCTCATTATCATACCTCATT
TGCATGTCTCACATCTGATTGGTTATACTCTCAGTACCTTACAGAACCTCATTATCATGCCTGGGCCAGGCAGTGTCTTTGCAAAAAACTTTAC
TGCATATGTACACATTGGTTGTTTGTCCAATCTTATGCGTGGTGGCCAGCAGTAGTCAGTGCCACTCTGCAACGGCACATGTGGCTTCCCACAG
TTGGGGCTGGGCTGTCGGTTTGAGACTGGCACTTTGATTATGCAGAGACATAACTCAAAATCTTTTGTTCAACCCTCCTTGCAGGGAATTATTG
AAGATGGAGAAAGTTCTGAAGCTAAAGCTGTGTTAAATGATGAGCGATATAAATCCTTCAAAGTAAGCGACTGTACATTTGGATACTGGGGCGT
GTTTTGTTTTATTTATCCTGTTGTTTGCTGTCGATGGTTATATAACTCAGGCTGCTATACCAAATGCCACAGAGTGAACTGATTAGTCATAGAA
ATTTATTTTCTCTCAGTTCTGGAAGCAGAAAGTTTAGGTTAAGTTTCAGTGTAAAGATTCTGTGGAGGACTTTGTGGTTTTCAGTGGCCAGCCA
CCCTCTTGCTGCTGCCCTGACATAGCAGAGATAGAGATGGACAAATGCTCATTCTCAGCTAGCTTTCTTTATTCTTACATTATTGTGTGAAGCA
CGACTCCTTGCTTAGGGAATGGCACCTTCCACAGTGGGCATCCTACATTAATTAACAGACATGCCCACAGGCCAAGGTAGTATGGATAATTCCT
CATTAAGACTCCTTTCCCGGGAGATTCTAAATTGTGTTAAAAATTAAACTAACCAGCACATCCCACAAAGACACTACATGCCAAGACTTACCTA
TCACACTGAGACTACCTACCAAGAATCTGTCACTCATGGTTACAAATGTCAAAGGGACACAGGATTCAAATAGAGCAAGTGTGGTCCTGAAGCA
CAAACTCTGTCTGAAAATTCCTCATTGCACCTCAATTTCTGGGACTTAGGGTTGACCACCCTCCAATTTGTTTTTGTTTTTGTTTTTTTACCTT
AAAGTTTATGGTACTATGGCCAGTCCATTCAGTTCATAAGTGATACAGGGCCTAACATACGGCCAGAACAGGAGCTAGGCTCAGAGTACAGACA
GACCAGGGTTGAAGTTTGTACTTTGCTGTTATCCACTTGTAGATGGGGTGAATTTGCTGAGGATCTTTGAGCAAGATTTACCTCATGAGTCTCC
TTCCACCAAAGGTGTGGTTCAGGACTTCATGTAAAAGACTGCAAAATCTGAAGACAGACAGACAGACAGATAGACAGCTTCTCATACAGACACA
GAACAGGCTTCTTCTTACACCGATGCCCAGCCATCTTTCACCTGTTTCGTTTTTGTGACACTTTGATTATGGAAGGATCCTTCAGAAACAAAAAG
CCTCTCAACGTTACCATCCCCAGGCTCAAGAGAGAACTCCCTAAAGTGCAGAGAGACTGAGCAAGAGTCCCAGAACCAACAAAAAAGCTGGGTG
TGGTAGCGCACCTTTTAAACCTAAGCACTGAAGAGTTAGAGAGAAGCAGAGTGGCCCTAAGGCTCACTGGCCAATCGTCCCAGCCTGAGGTTGA
CTTCTGGTTTCCAAATGCACAGTTATGCATGTCTGTGCAAGTACATACATGCGCGCGCACACACACACACACACACACACACACACACACAC
ACACACTCACTCACTCCCCATCCCCTTGATGTTTTCAAGAGAAACTGGGCCAAAGGTTTACTTATACTTCTTGTTCCTGGCCTGAGACTTGGA
AAGTGTCGCTCTGTTGTCATAGCAACGATTTGGGTGGATAACAGCCTACCTTTCCCTCCCTTTCAGCTCTTTACCTCTGTGTTTGGTGTGGGAC
TGAAGACAGCTGAGAAATGGTTCAGGATGGGTTTCAGAACTCTCAGCAAAATACAATCAGACAAAAGCCTGAGGTTTACACAAATGCAGAAAGC
AGGTAACGGTCTTGGGGAAGTCACGGGTCATTCTGGGCTTGTCAGGGTCCAGTGACATGGAAGCCAGTTTGACTTGCTCCAGACTTGAGACTCC
GGTAAATCTTGGCTCCAGCACTTGTCACTGAGTGATCTTGAGTAAGCTAGTTAAAACCTTGAGCCTTCGTTGCCTCACTGGTGAACCTGAGCTA
ACCAGGGACTAGATCAGCTTGCGCAAAGCCCTGAGAATATGAGAACAAGGCCTCTTCCTGGGGTGCTATGGTTCTCTTTATCCAGAAGTTACAG
CAGAGTGGGCACTGTCCCGATTCCTACAGACACACCTTAGGTCTGGCTGTCTCCCTGTGTAAGAAGCATGCATGAAGGGTCGAGGACAGAAGGG
TAAGCTGACGTGCAAGAAGGACAGAGGGGAGTACTGAACAAAGTACACTCTCGACGGCTTGGTTCACACTGGGAATGTGCGCTGGGGGCTGGAA
AACGGAAGAGAAAGGGGAGAAAGTCTAGCCACAGCCTTGATCTGTCCAATCAGAGCCCTAAGCCTAGGAAGAGACAAGAGTCCAGAGCAGAGAC
GGAAGAGCTCTCATTATCATCTGAACGTCTGGCAAGCCCCGCGGCCACCACGTAGGCCAGTTCACTGCCTTCCATGGACAGTGCTGGTACCTTT
TCCAGAAATGAGGAGATGCGATTCATAGCCCCTTCTAAACGTGTGAAAATTTTTTAAAGAATTATTTATTTATGTATATGAGTACACACTGTAG
CTATACAGATAGTTGTGAACCTTTATCTGGTTGTTCGGAATTGAATTTAGTACCTCTGCTCCCTCAGGTCATCCGGGTGGTCCACCATATGGTT
GCTGAGATTTGAATTCAGGACCTTTGAAAGCACAGCCAGTCCTCTTACCCACTGAGCCACCTCACCAGGCCAACATGTGAAATTTTTAAATGTT
TCCTTTTAATGTACAATAAAAATAGAGTAAAATTGTCCTTCAAGAGGGAGTCACTGCTATAGTTCCCTAGCTTCTGGGGAAATATGTGAAGTTA
TCAAGTTTTTTTAATATGGAAGTGATAGAGTCTTCTACCAGAGGATTCTGGGTATGCGCAATTATTCAACAGCTATCTTCTGTTTAAGTGATAA
TAGAAAGACAGACAGACAGAATGAACAAAAATGATATCATAAGAAGTGGTAGATGAGGTGAATCATATCTTGGGGGGGTCCCATCAATGACACT
ATAGAAAGCCCCTATTAATCTTATAAGCCCACTAAGTTCTTTATAAAAACATTTTTATTTATTTTTAGTTTATGTATATGGGTGTTGTCTGTAT
GTTTGTGTATGTACCACATTTGTCCAGTGTCCAAGGAGGCCAGAAGAGGGTATAAGCTCCCTTGGAACTGAAGTTACAGATGGTTGTGTGTTGC
TGTTGGTGCTGGGAATCAAACCTGGGCCCTCTGGAAGAGGAGCTAGTACTCCTAGCTACTGAGTCATTTCTCAAGTTTGATGATTTCTGAGTGA
CTATTAATAAGCTTTATATAATGCCACACAGGAAATAAAAGAGTCTAAGAAAAAAACATCTAATATTTCTACTCTGGATGCCAGAAAGTGTAGT
CTAGTAAGGGTGTTTTACACCAGCTCTAGAGATGCTGTTAAAGAGAAATGTATATGACTATCAAACCTAAGGGCATGGAGATGGTTTGGAACAA
TAGTGAGGACTCCTAACACTTACAGCAGAAGTGGGGAACAGTGGAATATTTTCTCAGAAAGCCTTGAACTTGTGATGTCCTGTTTCAGCATCTT
GAGTGCTAGGAATGCAGGTTGAGGTGTTGGCTGACATCCACACAGTCTTAAAAAGTCATAACCTCACATTCTTGCACATCATCTAGTGAGTGAG
CGGAGGGATTTCCTGGCACCACCCGAGGTGAACTTAAGTGCCAGTGATGATGGCAATGTCTATATATATTAGCACCTAAAAGAATGTTGCTTCT
TAGATCAAACACACACACACACACACACACACACACACACACACTCACTCACAGCAGCCATGTCCCAATCAAAAGGCAACTGTTGA
CAACAGAACAAGAGAAGTTTATGTCGTGTCAGTTATCGATATGAAGATGGCAGATCCCCCAAGGAACTGGCTTGGTAGTAACAAGTGATAGGTG
GATTAGCATCACCATCTTTTCCTGGTCCTGAAAACACAGTTCTGCAACTGTCCCGTTTAGAGATTACAGATGACTTTGAACTTGGTAACTGTTT
ACAGTGTGCTCAAGCCAAATGACTTTCTGGTCGTGTCTCATCCTGGGGTGAGAAACAGGAGCCAATCAGCAGCCTCTAGAGAAGTACATCCCCC
TCCTGTTTATCGAGTGGCATTTGGATCCCTTAAATGAAAGTTCAGCGTCTTATATGGAAGCATGACTGTCATCAGGCTCTGACTCTCCCAGACA
TGCCCAGCTTCCCACCAGTACTTTACCCCAATCCTTGGAGATAAGCCTCCTTCTCGCTCTGCCTCCCTCCCACTGCTCTGTGGTGACAGCCAAA
TGCTCTGCTCTCCCTCGTGACCCTGCTTCTGAACGGTCATTGGTTCATAGTCCTCAGGCCAGGAAGCAGCACGTCAGCCCCTCGAAGGCACTTT
ACACTTGGCTTTGGACACTGACCCACCCTCTTCCTCCCACTGTCTTTTCTAATGAAGCCATCACTGCCAAGTCCTGAATTTTCCTACCCCCTT
TTAAATAGTATGGCATAGCTTGTTGGTCAAGAAGGCTGGACACAGTGCTACATACATGGAATCTCAGCACTTGGGAGGTAGAGGAATTAGGAGT
TCACAGAATCTGGGCCTTTCCTCAAAGGAGCAGCAGCAGCAGAAAGAGGAGGAGGAGGGGGAAGAGGGGAGGAGGAAGAGGAGGAGGAGGAGA
GGCAGTGTTGGATTTTCATTATAATATCAGATAGGATCAATTTAGATTCCAGAAGGATCTGAATACTTCCCCCTTGATATGAATATTGTATACT
TCTACATGAGGAAGTCAAAACTCCTTTGAAACCATGAAAAAAACCCAAGCAAGTGGGCAAGGCAGTGCCATAGATTACTGGGCTCTGTACAGAG
TCTGGCCAATGCCTAAGAGCACTGTATGAGACAGCATCCTCTCCTATCAACAGCTGGTCCTCTTATGTGTGCCTTTCTCTCCACTGGCTGATCA
GGATTCCTCTACTACGAAGACCTCGTTAGCTGTGTGAACAGGCCAGAAGCCGAGGCTGTCAGCATGCTAGTTAAGGAGGCGGTTGTGACATTTC

TTCCAGATGCCTTGGTCACCATGACTGGGGGGTTCCGCAGGTAAGTGATGTAGCTGTTTTAGAACCCCTCTTCTACCTGCCTCTGAAATGGTGC
AAAACGCCTTTTCTGACAACAGAACCAACCTCACTCTGTAGCTTTGGCTCCTGCTGCCTGTGTTTCGTGTCAGAGTCTCAGATAGCTTGACACC
CCGCACACAGAGCTGTTTCTTACCTCTGTGACTTTGCTCAGGTGAAACTTTCTCTACAGTTTTGTGAATTTGGTACTAATCTGACTTCACAATT
CCTTCAGACTCAATTTAGATGCTGCCACCTCCAGGAAGCCCTCCTCGACTCCTTATAGCTCTATTCTGGGCTAGGAACTTTCTTCTGTGCTTCC
CAGGTGCCTACTGCATCATGTGTGCTTTCCCCGTGGAGCTTAGTTCCCACGGAGACCAGGGTGTGAGCCTGACCACTAAGTAGATGCTCAAGAA
ACTGGTTGAGTCAAAGAAAGCTCAATGAACAAGCCTTCAGACATGAAATCTTCAGTTGGATACAAATGCCTCCATTTCAGAAAGAGGCTTGTCC
CTCCACCTCTCCTTTTGAGATCTTACCTGGTCACTTGCATCAAAGAGGTTTTCTGGGCTGGGTCTGTCACTTAGCAGAGTGGCTACTTAGTATG
GAGGAAACCTGGCTTTGATTCCCAGTATCCAGTAAATCAGGTATGGTGATGTAGACCTATAATCCCAGCACTTGGGAAGTACAGGCAGGAAGAT
AAGAGGTCCAGGGTCACCCTCAGCTTCAAAACGTGCTCAAAGCCAGTCTGCATCATATAAGACTCCATCCTTAAAAAAAAAAAAAAAAACAAAAA
ACAATGATAAAGAGCAATCTCTTAAGCCATACCATAGTTCCAAGAAGGCTACCTTGTATGGTGTTACCAAAGCTCTTGGTTGGCTGCCTATTGT
CATACATGTTTCTCTATGTATGTGATGCATATAGAAGTAATATTTATTACTTGCTTTCCATCCATATACAACAACACACATTCTGGATGAAGTT
TTTTTTTTTTCTGTCACAAATTTGTTTTGCAAGAAGTGAGTTGAACAACCAGGAATAGCTGGTTTTAAAATGTTGTGAGTATTTTGAACTACAA
ACCTCACACTTGAGACACAATAACAAAGAGTTTTGTTTTGTTGTTTTGTTTTTAAATGAAAGGCTAAAAGTCCAACTGATTTTCCTTTTGTGCT
TTTTTCCCCCCAAACTAGGGGTAAGATGACTGGACATGACGTAGACTTTCTAATTACCAGCCCAGAAGCCACAGAGGATGAAGAGCAGCAGCTC
TTGCATAAAGTGACAGACTTTTGGAAGCAGCAGGTAAGGAGGCCAGATGGCACCTGCCATTTAAGGCTGGCTTAGATTGATTTCTGCTTGTTTC
TTTTCCGTGTGTGTGTGTGTGTGTGTGTGTGCTTGTGTGTGTGTGAATGTGTGTGTGAGTGTGTGTGTGTGGTATGTATGTTATGTTTGATA
TGTATGTGTGTGTACTGCTGTGCGTGTGTATGATGTGTGTATGTGTGTGTGATGTGTTTGTTATGCATGGTGTGTATGTGACACGCACATGTGT
GCATATTTTTGCATATGTGTAGGCACATGGGTGCGGACATGTGGAGCCTGAGTTTGATGTTGAAAATCATCTTCCGCTACTTCTCCACCTTATT
CATGGAGGCAGGCTCTCTCAATCAAATCCAGAGCTCATCGATCTGGCTAGTCCTACTAGCCAGTTTGTTCTGGGAATCCCTTTGTCTCCACCTT
CTGAGGCTGGAATTGCAGGCAGGCTGTCATGCGTACCAAGCATTTGTATGGGTTCTGGGGATCTGAACCTTGGCCCCCTGTGTTGTAAAGCAGG
CGCTTTAACCACCGAGCCATCTCCCTAGCCCCTTGCTAATCTTAGGTGTTACATGATCAGTGTACAGTGACTACTATTCTCACTTGTTTGTAAC
ACCTCATCGCAGCACCATGTGGCTGGCATGAGACTGACCAGCTTTGGGTCCTAGGCAACACTTTACGGGCATGCATCTTGTTTGAAGAAGGAAG
ATAAGGAGGGCAAGCTGGGCCCTGCAGAGGTCATGGCCAATGGCTCACACTGGATGAAATCAAACCTGCCACGTGGCAGCCAGTGGTTAATGGT
CAAAGCTGAGTTAAGTTAACCCCACAGCCAAAAACCTCTGGCTCTCTAGTCAAGCACCATTTCCTAGAGAGACCAAGGGCTCTTTCCTGGGATC
CTACCTGTCTGGCTGAATGGAGGAGGCTGGACCAGAGTTTTCCTAGTACAGACAGCTTTCCCCTTCCTGGGCTGAGCTCACTGATGCACCAGAG
AGATAAGACCAGATAAAGTGAAAACTAGAAGGGGCTGGAGAGATGGCTCAGTGGTTAAGATCACTGACTGCTCTACCAGAGGTCCTGAGTTCAA
TTCCCAGCAACCACGTGGTGGCTCACAACCATCTGTAATGGGATCTGATGCCCTCTTACTGGTGTATCTGACAGCTATAGTGTACTCACATAAA
ATAAGTAAATAAATCTTTGGGCTGTGGTGGCACACGCCTTTAATCCCAGCACTTGGGAGGCAGAGGCAGGAGAATTTCTGAGTTCGAGGCCAGC
CTGCTCTACAGAGTGAGTTCCAGGACAGCCCTAGCTATACAGAGAAACCCTGTCTTGAAAAAACAAAAACAAAAAAAAACAAAAACAAACTAGA
AATAGCCAGCCCCCGAGAGCCATGAGATTTATAAATGAAAGCTAGATTTCAGATGCAGATCCAAATTCATCTGTGAGACCATTCCATGTCCCCC
CCTGTCACCCCTCCTGAGAAGTCAGGAGAAGGTGCACTGGAGAACCCCTTCAGTGATAGCAAGATAGGCATGACAAGAGTCAGAATACTTTTCC
AATTCTCGATTCTCTGCTCCAGGGGTTGGGAGTGGGGGACGTTCGGGGGGTTGGGTAGGGGAGAATAGGGGAAGATTAAAGACTCACTGAAAGA
CCAAAGAATACCTCCCCACCCCCAGGCCTGTTGCCAAGGCTGGAAACTCATTGATGTTTGTTTTTGTGCCATTGTCCTATGCTAAGACATCTGC
TGGAGTTGAGAGGTGACAGAGGAGCCCTCTTTGCATCGCTAGTTTCAAGGTAGTTTTCCTCTGGACCCTGGGTAGAGATAGTCATTAGAAGCCC
AGGCCCTGCATTCGGAGCCAATAGTAAAACAGGCCTAAATGAGACTTTAGAAGTGCTGGTACAACCTGGGGTGGTGCTTAACAGTTCATGGCCC
ATTTTCTGTCTGTGCTAACCCGGGATTCAATGAAAGTCTCGGGGATTCAATAGAAAATCTCTGGTGTCTGACAAATGGTGGCTAAGATCAGCAG
CAGCAGGATTGCTTATTGAATTCAGTTTGAGGGCCAAGCACTGGGCTGCAGGGGACCCAGGAACCAGCAGGCCAGTTCCTTCCCTTCCCTCAAG
TACCGTGATTCAGTGTCCCTGCTCTGAATGACCCATCCCCCTGAAGCCCTGGACCCATCCCCAATAACTCAATTGTGAAATCAGATGAGTTCTT
CCCATCTGGCTCCCACTTCCACTTGACTCCCTTCCCTGCCAGCCTAACCCTGAGCTTCACTTTACAGATGGCCGTGAGCACAGCTTAGTACAGT
GCATACCGGTGTACTCACAGTACACACACAGCATGCCCACAAGATGCTTAAATGTCTGCGAAGTAGGTTGAACAGCCTTTAGTGCTTTCTCCTA
TCTAAATGGTGTCCTTTGGAGACAACCCCTGGGTCAGAGGTAGGAGAAAGGAGGTGAAGAGCTTAGAAATCTCATCTCCAGGGAGGTTGTAATT
CCCCCAAACATTTGTTCTGCCTGAATTCCAAGCAGACTGCTGGTAGCTCACCTCAAAGGAAGGAGAGAGACTTCATGACTCAGGCTTGCGGTCA
GGCCTGGTAAATGGGACCGGGGTACAGGGACCCTAAGTGCTTCAGGTGGTCTGTCACCCCTGGAGTTCATGGAACTTCTGGGAGTCAAAATGTT
GAGTCTACAGAGTAAGACTGTAAGTCAGAACCAACCATGGTGGCTCACACTTCTCACCTCAGCCATTCAGGAGGCAGAGGCATGAGTTCCATTA
CAGGATACCTAGAACCAAAAGGAGTTTAAACTGGCCATGACCTTGGGTTCTGAATTCATAGGTTTCACTGACCTCAGATAGGAAAAGATACTTT
AAGAAGAAAGAAAGATAGGAAAAAAGAAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG
AAAGAAAGAAAGAAAGAAAGGAAGAAAGACCCACACCTATACTACCTATACTGAGCATCCATAGGCACCTCCTATCGTCAGTCTCTAAATACTA
CACTGTGACAACACTGCATGCACTTATATAGTATTAAGTAATTAATCTAAGAGTGATTGAAAGTCTGTGGGGATGTGTGTGGCTCATATATAAA
CATTCTTACCACTTTGCAGGAAGAACGTGATCATCTGTTGCTACCGTGATGACTGCTAGACGACTGAGGGATAACTATGGGACAACTGAGGGAC
AACTGTGGGATAACTGAGGGATGACTGAGGGATGATTGAGGGATGATTGAAGGATGACTGAGGGATGACTGAGGGATGACTGA
GGGATGATTGAAGAATGACTGAGGGATGACTGAGGGATGACTGAGGGATGACTGAGGGATGACTGAGGGATGACTGAGGGATG
ACTGAGGGATGACTGAGGGATGGCTGTGGGATGACTGAGGGATGATTGAGGGATGACTGAGGGATGACTGAGGGATGACTGAG
GGATGATTGAAGGATGACTGAGGGATGACTGTGGGATGACTGAGGGATGATTGAAGGATGACTGAGGGATGACAGGGATGACT
GTGGGATGACTGAGGGATCACTGTGGGATGACAGAGGGATGATTGAGGGATGATTGAGGGATGACTGAGGGATGACTGTGGGATGACAGAGGGA
TGATTAGGGAATATTGAGGGATGATTAAGGGATGATTGCAAGATGACTGAGGGATCACTGAGGGATCACTGAGGAATGACTGAAGGATTACTGA
GGGATTACTAATGGATGACTATGGAATCACTGAGGGATGACTGAGGAATCACTGAGGGATGACTGAGAGAATCACTAAAGTTGATGACTGAGAG
ATCACTGAGGAATGACAGAGGGATCATTGAGGAATCACTGAGGAATCATTGAGGGGGGAACTACAGGATCACTGAGGGATGACTGACTGAAGAA
TAATTAAGGAATATTGAGAGATGATTAAGGGATAATTGAAAGATGACTGAGGGATCACTGAGGGATCACTGAGGGATCAATGAGGGATCACTGA
GGAATAACTATAGGATCACTGAGGAATGACTGAGGACTCTCTGAGGGATGACTGAGAGATGACTTCCCCCACTTGAGTTTGAATACTAGATTGG
TTCCTCTGAGGAGAAGATGGGAAGGAACTGAAAACAAAGGTCAAGAATCCTGGCTGGAGGACTCCTCATAGAGTCCTGACAACACTTCCTGCTC
TTACACCATTGCTTGGGGTAGCCTATGGCTAATTGGTCCACTAAGTTGGAAGAGGTAGATCCTCTTTCTTGTAAGAAGCAAAGCTGAACTGCCC
TAACCCCACCCTGATCCCTCCGACCCCCATACCCTGGGAGCAGAGAGAAGGAATGGCAGGGAGAGCTCCTTCCTAGCCTAGCCACTGATCTTCT
AATAGGAAGACAACCCTGGGCAGCCATGGCCGAGCCTGAGCCCAACCTCAGAGCAGTTCCAGAGGAGATAAATCACACTGAGGGACGTGGGGAC
AGGAAAGGAAACTGCAAACAGTAGGGGAAACCCAACAGAAAGCTGGCCTGGAAAGCTAGGACCACGTCTGAGGTGGTACCAGGCTCCACTACAG
ACAGCACCCAGAATCAGATGGAACGCCCCAGTCAAAGCCTCGCCAAGTTCAGGATCAATTCACCCAAGAATGTCCCATCTGTCACCAGCCAAGT
GCTACCCCCCACCCCCACCCCGTGTGCAGCACAGGAACCCCTAGGGGCTGGTGCTTGCCTAACATTCCCTTGAATTACTTATTAACTTTCTGGA
TAGAAACTTGAGATAAAGCAGGCTTCGTGGGCCTTCTTTCACTGCCTCCGAGATGGAGAGAGAGTTCTTTCAGGGCTGGGGTGTACTCAGTGGT
AGAGTGCATAGCTAGCAGGTTCAACCCTGAGCATTGCAAAAACAACACAACAACAGATGTAACAGGTCACCATGCCCCACACTGGGTCTGGAAT
TTCAGACACAACCTTTTGACCCAGTCCAGACAACCGACATGCAGGGAACAGTGTGAATTTCTGTTCACCGTGTCTTTGCTTTTCAAGGAGCAAA
GTTGTCTCTCAGAAGCAAACAAGGAGAGATGGAGGCTCTGAGGTTTTCTTATTGGGGACTTTGAGCTCAGCCTTTCTGTGGAGAGAATCATGTA
TTACCTCCTCTCCCAGATGCTGGATGAGGAAGAACAAAAATGCATCCCCATTTGTTCAGCTCTGAAGAGGCTCTCTTGAGAGCACTGTAATATC
ACATGGGTGCCCCACCCCCAGCCCCCTAGGACCCTTTCTAAACCCTCCCATTGCTTTTCAGGGGTTGCTTTTGTACTGCGACATCTTAGAGTCA
ACCTTTGAAAAGTTCAAGCAGCCCAGCAGGAAGGTGGATGCTCTCGACCATTTCCAGAAATGCTTCCTGATTCTGAAGCTGGACCACGGGAGAG

TGCACAGCGAGAAGAGCGGCCAGCAGGAAGGAAAGGGCTGGAAGGCCATCCGTGTAGATCTGGTCATGTGCCCCTATGATCGCCGGGCCTTCGC
CCTGCTCGGATGGACCGGCTCCAGAGTAAGAGCTGTCTGCTACTAGCTTTCCTGGCTCAGGGGAAGAAAGCTTCCGCTGCGGGGCAGAAGGCTG
AGAGAACTAAGGGACCATGCCCCCAAGCCTCTAAACTGGGGCATGGTTTGGGTACATGTTCACACGAGTTAGATTCATTTAGATTCCCAATGTA
TGGTTCACCAAGCCAGCAGCAGTGGCCTTACCTGGGGACAGGTTAGATTTATAAATTCTTCACTGTATACCTACCACTACATCAGAGGCTCTAG
GCAGTTAAGCTCTGACACGGATGTTTGTAAAACACCCTAGGTAACTGAGAGGTATCTCAGGTGAGAGCTACTGAAACCTAAGAAGTGTCAGGGT
AGTGAGTAACTCAGATGGATTCGGGTCCTAGACCTACAGAAGGACCCAACCCTGCCTCTTGGACACCTTCCTAAAGCCTATAAGATAGATGGGA
GTGGCGCCCTCTGGGGGCAGCAGTGCACAGCTGCAGGGTGGTCGACTCAAATGCTGCTCTAAGAAACTAGTGAGGGTTAAAAAAAAAAAAAACA
ACTTTCTTTTTCAAGTTTCAAGAGGCTGAAGCTGCTCTGTCCCGGGTTGCGCCGCTTTCAGGTAAATAACACTCCTCCAGCCTTCTCTCTAACA
GCGGCGCTAACCTCACAGGGCTCTGTGGAGGACTCTCTGGGACAGCAGTCCATCCACTCCTCTTAGATGTCATGCCAGGCTCCTGTTAAGCGTC
TGTTGCCCTGTAGCCTCTGGGGCTCAGGAAAAGACTGGATTCCTTAGTTAGGGTTATGATAGCTGTGGCAAAATACCACGATCAAAGAAACTTG
GAGACGGAAGGGTTTATTTTACTGACATTTCTTTATCACTGTTCATCATCAAAGGAAGTCAGGACAGGAACTCAGGTAGGGCAAGGACCTGGAG
GCATGAGCTGATGCAGAGGCCTTGGAGGAGTGTGGCTTACTGGCTTGCTCTCCGTGGCTTGCTCAGCCTGCTTTCTCATAGAACCACCAGCCCA
AAGAAGGTACCATCCACAATAGACTGGGCCTTCTCTCATTAATCACTAATTAAGAAAAGATCCTACAGATGGATCTTACCAAGGCATTTTCTCA
ATTTAGGTTTTCCCCTTTCAGATAACTCAAGCATGTGTCAAGTTGACACAAAGCTATCCCACACAGCACAACTCTCTTGGCCATTCTGCAGCCA
TTTTGGTTTTTAATCACCTCCTTCGAGCCCTCGTTCAGTGATGCTCACCATGGAAGCCCTGCTCAGTCTGGATGCAGCACTGGCTTCCTATGGG
CCCATAGTTTTCTTATTTCTTGTTATTATAAACCATTTGTGTGCCCAGCTAGATTCTGCTCCGGAGGAACTGGCACTCTGCAGGTATTTGGCAG
GTGAACTGAATTTCTCTCTGCACCACAGAAACACTCTTGGCCTTGGCCGAGGAGTTCAGGAATGTTTCTCACTCCCAAATCACACAGGGCAGGG
AACCGGGAGTAGCCCATCATTGACTGCATATAACCAACCCCCATTACACCTCCAGCCTCTCCAGTTGCTGGGAACCAGTGTTAGCTGTGGGAAG
ACACTGCCAGTCAAGAGCTGGGGTGAGCTAAGCAGGACCCACAACTTCCCAGACCAGCGCTAAGCAAATCTGCTTCCTCAGCAATTGTTACACA
AAGCTGGTTCCACCTACAGCTGCTTCTGTAAAGGGCTTCTGGAGGCAATGTCTCACCCAGTCTCAGAAACTTTCCAGCAGAGAGGAAATGAATT
CTTACTGCTAGAGGGTGCGACTGTCCCAATGTTTTGCCTAATCCCAGGGGGAAAGACAAAGTTCTGGACCTGGGAAGTTTCCAGGTTTCTCTCA
GGAAACCAGCAGCAGTATTTGTGATTCACTGTCCTTGTTTCTAGTGTTTGCTGGTCACTTGTCCTAGGCTTCAGATTTGCTCCCTGAAACCTCA
GGGTATTCTTTTGATCATGATAGATGTCATTCCGGGGCAGGTGACTCTTGACAGAATCTCAGATTGAGTGGACATCAAAGAAGAAAGGACCTTA
ACGTTCACTCCCTCCACCTTGGGACAAAGCAAGGTTCAGAGAAGCTACGTAGTAAGGACACATAGATAGGCATAATATCTGGGCCAAGATCTCC
CCACTCCTCACCCTCTATTATAATAATGATATTTGAAACTTAAAACGATTTAGGTCACATTTTCCTCTGGACCAGGTATTATTCTAGAAACAAC
GCTCCTACTGTCCATTTATCCACTCAACAGATATTCACACATCACCTGCCGCCTGTTGGGCAGTGATTGACAAGGGTCCAAGCCAATCAGCTTC
TTGTTCACATTGAGTTTCTGTTCTAGTACAGGGAGCCCAGAGCTCAGCCACCCGGGAGCTTTGCCCTGAGGAAGAAAGTCACCCCAAGAATTTA
TGTTAGAGACAGCAGTTTCAAACACCCAAGGGCTTCGGATAGCTCTAAACACCATGTACCAGAAATAATCTGGACTGGAGGGTAATTTGTTTTA
ATTCTCTTTGTAGCAGTTTGAGAGAGACTTGCGGCGCTATGCCACACACGAGAGGAAGATGATGCTGGACAACCACGCCCTGTATGACAGGACT
AAGGTAGTGTTCCCTTCTGGGGATGGGTGACTGACCTTTACCTGTAAGCCCTCCCTTTGAACAGATTTTCTAAAACAATATTCATTACACTTAT
TTATTTTTTTTACATTGGGGAAAATGGTTGCATGTAGAGGTCAGGGGAGCCAGTTCTTTCCTATCACATAGGTTCTAGGGATGGAACTCCGGGC
CTCAGGTTTGGCAGCAAGTACCTTCACCTGCTGGTCCCACTTATCCCATCCCTACCCCCAACCCAAACTGATTTTAGTGTCTAGGTTTGCTTCT
TTTTGCTGCAAATGTTCTGTTCTCTGTGGATCACAGTTGAAAGGAGCTGGAAACATTGCTTCAACCCCTACTGGGCCCAGGGTGCAACTCCAGG
CTTCTACTTCAGAGAGTGAAGTAGCAGGGCTCTAGAACCAGCACATAGGTGAGCAGAGCTGAGCTGGCCGTGTTCCTGGTGTTTACGGTCTTTT
ACTCCAAAGAAAATCAGGGATTCCTGTAAATCATAAATGTCACAGGAATAACCATCCAGTGTAGGGGCAATCACCTTCTGAGGGGGTCATCAAT
GGGTGTCTCCCACAGTAGAGCGACACAGGTGCCCAGAGGTGGATGGGAAGCCATCAAGCCCCAGTCACTAACCATGGGGGACTTGAGTGTCAGC
AGCATCTCATTAAAGCCACGCCTCAGAAAAGTGGCAAGTTACCATGTGGCTGGCTGATGAAGAATGAACAATTCTATCGTGAAATCCATGAACA
AAAAGGTCTCCTGTTCTTCAAGTGGTCAAGGGCACCAAATTAGGCTTGGAGGGAAAAGAAGGTATAAAATCACCAAAAGCAAGAACTGATCTCC
TTGCCTCCTAGGGGTTTATTATAGTTTAAAAGAAATGGATATGCATTGGATATCTAACACTTAACCTAGAACTTTAAATAGACTGACAGCAAGG
CCTCTCTGGGACTTTTGACTTCATCAGACTGAAGTGTGATTCAAATTTCAATATATTTTATTGCGGGGGGGGGGTGGGGAGGGAGACAGAGACA
GAAACACAGAGAGAGAGACAAAGAGAGATTCAGAGANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

TCTGTGAAGTTGCTTATAGAACTGTTATTGCAAAGCTTTGCCAAGCCCACCTGCTTTGTGAAATTTACTCAAATAAGCTTAACTTTTCCTTTTC
TTAAAAAAAAAATCTCTTTTTCATACTTTTGGATATAGGCCAGAGCCTAGGCTGTCTCTGATGCTCTGGGCTTTAGTGCTTTTTTCTCTGAAGC
CATATCCTTCCACTTACCAAGTGAAGTGACTGCTTGTCTGACATCTGACTGCAGCCCTCCATGCTTAAGCAAAAAGCCCCGTTCTTCTCTCTTC
CTATATACTTCCTCTTCTTCCCTCTCTCTTCCATGCATCTGGCAAAATTTAAACCTTTTTTTCTTTCTTCCTTTTCTTTTCTTTGCTTAAATGCTA
ATAAAGCTATCCCAAAGCTGCTATCTGAGCTATTTTTTTTTAACCTTTCATTATTAGGGCCAAGAATTTGAAGAGGATAACCCCAAATTCCCTA
GTAACATCAACATTGCAGCAGAACACCCCAAGGCTGGGCTCGGGCAATACTGGGGGAGATGAGGCTTCAATCTGTAGCACAAAAAAGCAGCCCA
CGCCCTTGGGAAGTGAGATTGGCAGCATCAGTTTGACCAGAGCCCAGGTCTCACGGGCATCCCAGGCTCAAGCCCAAAGTCTGGAAGCACATGGG
ACCCTGAAGTGAACGTGTACATGGGGCTGCTTGAATCCAAGCTCCTCCCAATACCTTAAGGGGTCTAAGAACAAAACCCTCAGGGAACCCAAGG
GTTGTCTAGCAGGGTAATAGGACATTCTGCCAACCCTTAAGGAGACAGGCCTTCCCACTGCTGGTGATTGACAGATGCCTCTCCAGCCACTTTA
GCTCTATCCATTACACCTTTAGAGTCCCATGCCACAGTCACTCAAAGGGGATCGCTCAGCACCTCTCCATGCAGGTATGTGCCCCAGTCATGGG
ATAGTGCATCAAAGGTTCACACATGACCTCAGCAGCCTGTCGAGTGGTTGAATGGCAACCAACTACATGGCATTGGCTAAACCAGTGCTCCCAG
ATTCTCCCTCATGTCCAAACATGGGCATGGGAATCTAAAGGTGATAAGTCTTCGTACCAACAGAAGTCCTGAACCTTGCAAGTTTAGTGAAAAC
AATTTGAAATGAAGATTCTAAGCAATTGATTGTAAGGAGAATTAAAATGAAGAACACAAAAACAAAAACAAAAAAACAAAATAGTCATACTTTA
TTTTATAAGTTGCAAGGCTTGCTGATCTGTATATTTCAGTCAGGCCTCACAGCTGTCCTCGGGGATCAGTTTTATAAGTATAAAACTGAGGCTC
TAGGTGGCCAACATTCTAGGCTGGAGCTGAAACCCATATATGTCAAAGCCATAGTCTCTTCAAGTTCTCAGGGAGTCTAAGGTCATTACCCATC
ATGCAAGAGAAATGAGGCTTCATCCCTGGGCACAGCTGATTGAAGATGTTCAAATGTGTTTATCTAAGACCTGAGCCCATGAAATAACCCAAAA
TTGAATTTCAGAGGGGCTTTGAAAGGCAGCTGTTAACATGTGATGGTCATTGGGTTTACAGAACCATTCCCTATAGCTCAAGAAATCCAACTAT
TTCTAAACAACCAGAGGCCCCATGCAAGAAGAGTTGGTTCTCTGGGATATCAAGGTGGCTCAAGGAGACCATGGATGTTTCTAGAGATGCCCTG
AGGCCTCAGCTCTCCCACTGTGAAGCATGGTGTATTTCAAGGCAGTGGCTGTGCACTAGAAGGTCACAAGGAAACTGTCTGGGGAAGTGAAGGC
AAAGATCAGGCCCGAACTGGTGAAGTTGTCCCTAGATGTCCCTTGCATAGCAGGTGTAGCTATCCCAACCCATCCCTTTGCTCCTGTGTTCATC
TTTGGTCCTCTTGATGCCCTCTCCCTCACAAACATCTTTTCTTTATGGTACTTCAAAGCAAATGGCTCATTACAAAGAAAAGTCATTAAAACATG
AATATCAGTTTTATATTAGCTTACTTCTCTCAGTGTTATGATAAAGTCAACTTAAGGGTGGAGGTATTTATTTTGGTTCAGTCCAAGAAAGGTG
TGGCAGCAGGAGTGTGGGGTAGCTGGCCAAACACTTTATCTGTCGTCAGGAAGGATAGTGATGAGTTCTGCATGCTCAACTTGAATTCCCAGAA
CCCCAGGCTATGGAATGATGCTGGGCCACATTCAGGTGGATCTTCTTACTCAGTTAAATCTTTCTGGAGGTGTGTCTCCTTGGTGATTCTCAAT
CCCATTGAGTTGACAGTGAAGATTAACCATCCAGGACTCGAGCATCCTAAAGGTTAATATGTAATGTGTAACACAGATCTCTGTACTTGTGATT
TGGAACTTGGTTGACACCCAAGGGGAAAAAAATGGTGTGCAGAGTCGAAGTGAGGAGACTGCCAGTGACCACTAGAGTTATTTTTAAATGTCAA
AAATTCAGATTACAGGCCACAGAGAAGGTTTAGATTTCCTTGTCGACTTTGTGACTCTGGATGGATGATAAGTAGGATGGGAAGATGTGGGAAG
AACTGGGTGAAGAGGATTGATATCTCTAGTGTCTACTAAGTGGAAATTGCTTCCTTTATTCCTGCTGTAATTTTTCCAGTGGCCAAAGGAAGCA
CAGAACCCAAAACAGGCTCGGGGAGGGTAGATGAGCTCATCTGACTTCTCAAAGTGCTCAGCAGCACGTCTGACTAGGGAGTGCCTAGCTCATT
CTCAGCTGTATGACACAAATCAGCCACATACTTCCTTGTGTCGGGGCATGGACGGCTCCATGCGAGCTTTATCCTGAGATATTCAAAAGGAAGA
AATGGCTTCTGTCACATGTCTTTGGTTAGGTTTTATGCCTGTCCTAACTTGTGCCAAGCTGGCCTTGGTCAATGCACCCCCCAAAAAAGCCAAC
TCTCAAAGCTTTATTATTTTTTAAATGATAACATTTGGAGCAGGTAGAGGAGAAGGCAGGACACTCGGGAGCCAAGCCGTTTCCCAAAGGCAGA
CTTCTCTCGATTCAGAAACAGGACATACGGGGCTCATCTGGACACATAGTCGACTCACCTGGGTCGCCTTGCTGATTACCCTGCAAGGTCTGAG
ATCGAATGAACCTGCCTGCAACCATCCCCTAAAGGGGCAAGGCAGCCAGATGTGTCTTGGATCTATAAATGAAATTGATGTTGAGTGAGAGGCA
GCTGACTCCTCGCCTCTCCAAGCATGAACCCTGAGCACAGATTCCAGGTTTTCAGCCCTGATCCAGCTCTGGGTCTGCTCCCTGATGCGGTGAC
ATCATTCTAGGCTCAGGCTGGGTACAAGCCACCAAAGTCCTCTTCTCCTTTCTAGTTCTTCAGGAGGACGGTAGGTGTCCGGCAGGGGCTCCTC
GCTTCCCGAGACAGTCTTCACATATATGTGCCCTTCTTGGCTGCCCCGTGGGTTCATTTCATGTGTGGGTGACCGCCTAGGATTCTTGAGAACA
CAACAGATTTTTAAAATGATACAGTAGAGACTCCAGCTTCCCGCTAAGATGAACTCAAACAGCCATATTGACCCTTGAATGGGAACAGCAAAAT
TCAGACCAAACATTTGAAACAATGGTTGGCAAGACAGTGGGCATCGGGAGAGTAAAGACACTGAACCTTGAGGGGCAGGAAATGAGTGACAGTT
GCCTGAGCTTGTTGTCATCAAGGGGTTTTCAGGCCATGCAACTCTCCCTGGCTAATTATTGCTGGCAGACCGTCTCCAGCTTTTAACTTTTAAT
CTATTCGAGACTATATTCAGAAAGTGTCGTTCTATGGGTTTTTTTTTTTTATAAAGTTGGCTATTGCTTTTACAGCCAACCAGATTCTCTCTGT
CTTGTAAGTGAAGCTACTTATATCTAATATGATTGTTGATCTGGGTGGGCTCAAACCCACTCTCTTGCTTCTCTTTTTCACTTGTCCTGTGTGT
TCACTTCTTAGTGGTCTTCTCCTGCTTTGTCCCCTATAAGCTTTAGAACCTTACAATGTTTACTGAAAATGTGTTGCGATTTATATCACAGATA
TATTTATTTTAATTTAAGATTGTCTATGTGTATAGATGTTTTGCCTAAATGCACACGCCTGGTATCCGAGGAGGCCAGAAGTCTGCAGATGACC
TAGAATTCGAATAATACGCTGTAGTGAGCTGTTATGAGGGCCTGGAAACTGAATCCAGCTCTTCAGACAAAGCACTTATGACTGCTGAGCCGTT
CTCTAGCGCCACAATTACACGATGATAGGGATGCTAAGAGTACCAGGAATTTGTGGCGGCTGACAGCTTGATGCTGCTGAGTCCAGGACCACAG
ATATAACCATCATAACTTAGCTATTGTTGAATGTCTTCTACTAAGTTTTATTATTTCCATGATAGGATTAGACATTCGATCAGATTTATTCTTT
AGCATTCTATGTATTTTATTACCACTATAAAATAGGGTTTTTATAAAATTCCTTTTTCTAACTGATAGCAATTGATATTAAGAAATACATATTG
CTTTTGAATTTTTTTTCAGTGCTGGAAATCAAACATAGGCCTTTGCTCATACAAAGTGGGTACTATACCGCAAAGCTAAGTCCTGTGTATTGTT
TTTATATACAATAAACATATTTGACTATTTTCCTAAGTCCAATAATTTACCTCTAGATTATTAAGTTTTTCTATGTTGACAGTCATATATCATC
TACAAATTATGATAATTTGCTTCTTCCTTTTCAATGTTATATTTAATTTACATATACTTATATTTGTGAATATATATTTATATATATGCTATA
TTTGTTTATATTTCCTTTCAATGTTACATTTTTCTGTCCCATTGTGTATGTTAGGCCCTAAAGTTCAGTGCTGAATGTAAGTGATGAACACTCT
TGATTCACTTCTGATCTTCAAGTCATATTCCTTTGGGTGTCCCTTTTCAGGTTACCATCCTGTTCTAGCTTGGCTTTGAAAGTCCATGTCAAGG
GCTGGGGAGAAATGGTGCTTGCTAGCAAGTATAAGGATCTGAGTTTGAATCCCCAGCCCACATCAAAGCCCAGACAAAGTACAGGCACCTGCAG
CCGCAGCCCCCGCCCCCGCCCCCGCCCCCGCCCCCGCCCCAGCCCCAGCCCCAGCCCCGCCCCAGCCCCGCCCCAGCCCCAGC
CCCGCCCCAGCCCCAGCCCCAGCCCCAGCCCCGCCCCAGCCCCAGCCCCAGCCCCAGCCCCAGCCCCAGCCCCAGCGCTCTC
TCAGGGAGTTGGGTGGCAGAGTCAGGAGAATCCCCGGAAGCTGGTGGGCCAGCACCAGCAGAGGAAAACGGCAAAGAGACCCTTCTTAAGCAAG
GTGGGTGGGAAGGGCTGACACTGAAGTTATCCTCTGACGTCCTCTCACATACATTCCATAGTATAAATACCCACACACAAGCATGTGCACACAT
ACATTGTGCATACATTAAACAAACAAGTAAAACTGCTTTATCACAAGTGACTTATCTTTTAACAAAACCCCATTTTTTTCTTATTAAGATAGCC
ACATATCTGTTTGTTTTGACCATTAAATAAACTATATTAAGCTGATTTCCTTTTTCTGCTGTTGCTATATTTTCAGGACCGGGCACAGAACCCG
ATGACTTCTACATGTTAGGTCAGCACTTTACCACTAAGCTACATCCAACCCCGATTTTCTAATGGTCAATCAGCTTTGAATTCCTGTCTGGTC
AGTAGACACATTGAACACCTCCATTGTGCTTCCACACATTTGGTTGACCTCCTTGCCAGAAGGTCTCACCTTTGCACAAGCGCACACTTAACCC
TTACCGTGCTACACTTTCAGTCACTCTCAGGGATCATAATCAAACGTGCTTACCTCAGATATTTGGGATTGTCATAGAGTTCTGAAATTTCAC
ATGGTATCTCAGTCTCCTAAAATGGTTAAAAATAAATACATAAATAAATAATAAATAAGTGTATGTATGTATGTATGTATGTATGTATGTATGT
ATGTGAAGGGCCATAGCTGTAACCATTCAAATCCTTGTGTTTTAAGCCACTGTGCAGATCAGAATTGCCAGAAGCCTTTAAAACAAAGCAAACA
CATATATAAGAGCCCACCTTGAGCAAAATGAACAGATAGATTTAAGAAGCATCAGTCCTCGGCTGGCATCGGGAAGAAGTGAGCAAGAGCAGAC
ATGAAACCAGACTGGCCATGAGTTGATAACTGGGTCCTCTGTGCTCTACTTCCACAGTAATGAATGTGTAGGTACAGCAACCCCCCCCCCCCC
CGTGCACTTGCAGTGGTTTCAAGTGCCAGCCACCAATGGGGATCTTAAGATGTTAATGGAAATTTCAGAAACCAAAGGTTTTAAATGCCCTTTT
GAACAGCGTGACAAAGCCTTGAGCCACCCTACCTCATCAGAGCCTGGATTAGAAGCCTGGCCTTCTATCTCCCTATGTTAATATCTACCAATAG
AACAGGCATGGTTGTTCATCAATAGAGAATGAAATGAGAACCCAGAAACCATTTGATACAGGTATGAAGCCTTGTCAGGTAGGATGCCAGGAGT
GTATACACATCCTTTTGTATGTAAGTCATGCTCACTTAGATACAGGAGTGGACAAGGCTATGGTCTTATCATATCCCTCCCATAGACACTTCAT
CCCTCTTTGTCTCTTGTCTTCCCTCATGTTCTTACCATCTGACTTGCGCCCTTTTCCTCCCTCAGTGTAGACGACACCCCACTGCACAGAGACA
TGTTTGCATGGCATCAGTCATCTCCCTCCATTCCTATCTTTTGCCACCCTGAATGTCATCTTATTGCCAGAGATTTGCTCAAGCAACCAGGGAG

TTATGTGAAAATCAGCTCTGCCGGAATCTACTGACAAAGGACATCACAGAACAGAAATATTTACTGTCTTGTCCTCAGAAACAACAGAGGTTCT
GAGTTCTGACATGCTAACGCCAGACAGAGGCCAGTGCACGGAGGTACCGACTCAAGCTACTCATTCACACGCAAGAAGCCAGTTATCACCTCTA
CGGGCTCATCATCGATGGTTCTTCTTCGCTGGATCAAGGTAAACAGCAAAGCCACCAGCAGGGCTGTGGCCAGCAGGGATGGGATTCCGGCTGC
CAGTCCAATAGAGGGACCACAGTCCTGTCAGAGAGAAAACTGAGTCAGAAAAGCCCAGATTCTTCAAGAATAGAGGTTACAGCGGGTGTTGTAG
CACACACCTTTAATCCCAGCATTCAGGAGGCAGAGGCAAGCAAATCTCTGTGAGTTTGAGGCTAGCCTGGTCTACAAAGCAAGTCCAGGACAAC
CAGGGCTGGTTACACTGAGAAACCCTGTCTCAACAAAACAAAACAAAATGTAGGACATATTCAGTGATTAAAATAAACAAACAAAAAAGGTGCA
TGGGCTCTGACTGCATTGGAAAAATGAAATATTTCAAAAGATATCTGTACTGTATATGACTGGTGACTTGCTCTCCTAGGACCTAACTATATAG
TTTAAGCCCATTTGGACTGCTGATCATGTGTTAAAACAAGGGACAACTGATTTGAATAGTAGCCTTACTGAACAGAAGCACAAACTACCCTTCA
GAAGAAGAAAAGCCAAGGTACAGTTTGGAGGCACAGTTAAATGCCATAAATGCCATGTTCACAATCGCCTTCAGCCTGAAAAAGTCAAAGCTTT
TTTAAATGTTTATTTTTAATTTTTTTTTTTAGTACTGTGGAGAGTGGTTAATGTAGAGATTTACAACTAGCCAAAGTGCAGAGAACACATGTCG
GTGGAGTGCTCCGTTGTGACTGGGATTTCTATATTTTATCTCCTCTTCTGAGGCTCAAGGAATGTTTCAGAAGAGTGGGGAGAAAAGGTAGAAG
GGCCAGAAGTTGAGAGACACTAGGGAGAAATCAGTGTCTTACACTCAAGACTGGAGCATGCCACACATGAGCTCATGGCAACTGTGTTGTCTGC
ACAAGATCAAGCTACGCAACGGCCTAGCAGAGCTCGGGCTGGGCACATGGGCTCCCACAGCTGGCTGCCGAGATGCTGCAGTTAAAGGCTTTCA
GCAGAGGGAGAGCCGGGTTCTCCAGAGGTTTGGTCCCTGGTAGGTCAGCCATACTCCAGTGGTTGACACCAAAACTATGCACATAAGTCAGCAC
GAATTGGATTTAACAGTTATTAAAAAAATTTAAAAGGAGAAGAAGTTTCGAGAGGTGTGGAGGGGAATTTAAGGAGAGCTGAAGTTGAGAATGG
GGTATGAATATATTGAAATATGTTGTGTACATGCACAAAACTCTAAAAGAACAATTAAAAAGTTATATTAAAAAGAATAACCTAGATAGAGAAA
CAAAAAGTCCGCGTTGTTAGCACATCCTATGCCATCTGTTGTTATTTTGAAAACATTCATATTGCATGCATGACCCTGCTTTCAAGCGCCCACT
CTGGTCTGAGTGGTAACAGACATGCTTGATAGCACCACAAGGTTTCAGGGTTGCAGCATTTTCTGGAAACACTAAAGACGATGTGCAAATTCCT
CTAAACACCCTACAAATGCAACACTAGCGGGGTGTGATTTTTACAAAAGCGTGAAAACCCGTGTCACAAATACATGGAATGAGGACTGTTTGCA
GAATGTCATTTCACACATAAAACCAAACATTTCACACAAACAGACCAAGACGTAGAATGCTCTTGTAGAATTCTCTCCATCCCTTACTTGTGAC
CACCATCCCGAAGTCTATCCCTGTAGATGCTCCTTATTTGGTTTCCAACACACAGATGCAAACATAGCCATTGACTCTTCTATCCCTGGCTGCT
TTCCTCCATGCTCTGTGAATTTGCCTGAGTATGTGTGTGTGTTTGCTTGCTTGCATTTTATTTATTTATTCATTCATTTATTTATTCAACGT
GCATGTATGTGCACCTTGTGCATGCAGGAGCCTTCAGAGGTCACAAGAGAGCATAAGACTCTCAAGAGCTAGG

MOUSE SEQUENCE - mRNA

ATTCTGGAGACACCACCTGATGGTACAGACAGAGCTAGACTGTCTGCTTCCATGGATCCACTGCAAGCAGTCCACCTGGGTCCTCGGAAGAAAA
GACCCAGGCAGCTGGGCACCCCAGTGGCTTCCACGCCTTATGACATCCGATTTCGAGACTTGGTCCTCTTCATTTTGGAAAAGAAGATGGGAAC
AACTCGAAGAGCCTTCCTCATGGAGCTGGCCCGAAGGAAAGGGTTCAGGGTGGAAAATGAGCTCAGTGATTCGGTCACCCACATTGTGGCAGAG
AACAACTCAGGGTCAGACGTCCTGGAGTGGCTCCAGCTGCAGAACATCAAAGCCAGCTCCGAGCTCGAACTCTTGGACATCTCCTGGCTCATCG
AATGCATGGGAGCTGGGAAGCCAGTGGAGATGATGGGGAGACATCAGCTTGTTGTGAATAGAAACTCCTCCCCGAGTCCTGTCCCAGGCTCCCA
GAATGTTCCAGCACCTGCTGTGAAGAAGATCTCCCAATATGCTTGCCAGCGAAGAACCACATTAAACAATTACAACCAACTATTCACGGATGCC
CTTGATATCCTGGCTGAAAATGATGAGCTTAGAGAGAATGAAGGTTCTTGCCTGGCATTCATGGGAGCGTCCTCTGTACTGAAATCTCTGCCAT
TCCCCATCACCAGCATGAAAGACACAGAGGGGATTCCTTGCCTAGGGGACAAGGTGAAGAGTATCATAGAGGGAATTATTGAAGATGGAGAAAG
TTCTGAAGCTAAAGCTGTGTTAAATGATGAGCGATATAAATCCTTCAAACTCTTTACCTCTGTGTTTGGTGTGGGACTGAAGACAGCTGAGAAA
TGGTTCAGGATGGGTTTCAGAACTCTCAGCAAAATACAATCAGACAAAAGCCTGAGGTTCACAAAAATGCAGAAAGCAGGATTCCTCTACTACG
AAGACCTCGTTAGCTGTGTGAACAGGCCAGAAGCCCAGGCTGTCAGCATGCTAGTTAAGGAGGCGGTTGTGACATTTCTTCCAGATGCCTTGGT
CACCATGACTGGGGGGTTCCGCAGGGGTAAGATGACTGGACATGATGTAGACTTTCTAATTACCAGCCCAGAAGCCACAGAGGATGAAGAGCAG
CAGCTCTTGCATAAAGTGACACACTTTTGGAAGCAGCAGGGGTTGCTTTTGTACTGCGACATCTTAGAGTCAACCTTTGAAAAGTTCAAGCAGC
CCAGCAGGAAGGTGGATGCTCTCGACCATTTCCAGAAATGCTTCCTGATTCTAAAACTGGACCACGGGAGAGTGCACAGCGAGAAGAGCGGCCA
GCAGGAAGGAAAGGGCTGGAAGGCCATCCGTGTAGATCTGGTCATGTGCCCCTATGAGTGCGCCTGTGCCCTGCTTGGATGGACCGGCTCCAGA
CAGTTTGAGAGAGACCTTCGGCGCTATGCCACACACGAGAGGAAGATGATGCTGGACAACCACGCCCTGTATGACAGGACTAAGGGGAAGACTG
TCACGATTTCACCTTTGGATGGGAAAGTGTCAAAACTACAGAAAGCCTTGAGGGTGTTTCTTGAAGCAGAAAGTGAAGAAGAGATCTTTGCCCA
TCTGGGACTGGACTACATTGAACCATGGGAAAGAAATGCCTAAGACGGAGTTGTTGACATTTTTCTTTTCGGTTTAGACAAGCTGTGCTCTGTG
TTAGTAAAAGATGGCTTGGGAAAGTCTGGGATTCTTTGACCTCAGAGGATGCTGGCAGCAAGTGGATCATAAGTATACTATGCAGAGAGAATAT
TCTAAGGCAACTTTGAAGTCTTGATAAACCAGGATGCAGCCATGGTTCACAGGTCTTGGGCCATCTGGCCTACTGTTGCATAGAATTCATAGTC
TTTTGTCTGCTTTGTTTGAATAAAAATGGTGTTGTCATTGCAGCATCATCTAGAGAAGCGCATCAATGCCCACCTGACTCCTGTGTGTCTGAAT
CTCTGTGTATTGCCAATAAAAATAGGAAAC

MOUSE SEQUENCE - CODING

ATGGATCCACTGCAAGCAGTCCACCTGGGTCCTCGGAAGAAAAGACCCAGGCAGCTGGGCACCCCAGTGGCTTCCACGCCTTATGACATCCGAT
TTCGAGACTTGGTCCTCTTCATTTTGGAAAAGAAGATGGGAACAACTCGAAGAGCCTTCCTCATGGAGCTGGCCCGAAGGAAAGGGTTCAGGGT
GGAAAATGAGCTCAGTGATTCGGTCACCCACATTGTGGCAGAGAACAACTCAGGGTCAGACGTCCTGGAGTGGCTCCAGCTGCAGAACATCAAA
GCCAGCTCCGAGCTCGAACTCTTGGACATCTCCTGGCTCATCGAATGCATGGGAGCTGGGAAGCCAGTGGAGATGATGGGGAGACATCAGCTTG
TTGTGAATAGAAACTCCTCCCCGAGTCCTGTCCCAGGCTCCCAGAATGTTCCAGCACCTGCTGTGAAGAAGATCTCCCAATATGCTTGCCAGCG
AAGAACCACATTAAACAATTACAACCAACTATTCACGGATGCCCTTGATATCCTGGCTGAAAATGATGAGCTTAGAGAGAATGAAGGTTCTTGC
CTGGCATTCATGGGAGCGTCCTCTGTACTGAAATCTCTGCCATTCCCCATCACCAGCATGAAAGACACAGAGGGGATTCCTTGCCTAGGGGACA
AGGTGAAGAGTATCATAGAGGGAATTATTGAAGATGGAGAAAGTTCTGAAGCTAAAGCTGTGTTAAATGATGAGCGATATAAATCCTTCAAACT
CTTTACCTCTGTGTTTGGTGTGGGACTGAAGACAGCTGAGAAATGGTTCAGGATGGGTTTCAGAACTCTCAGCAAAATACAATCAGACAAAAGC
CTGAGGTTCACAAAAATGCAGAAAGCAGGATTCCTCTACTACGAAGACCTCGTTAGCTGTGTGAACAGGCCAGAAGCCCAGGCTGTCAGCATGC
TAGTTAAGGAGGCGGTTGTGACATTTCTTCCAGATGCCTTGGTCACCATGACTGGGGGGTTCCGCAGGGGTAAGATGACTGGACATGATGTAGA
CTTTCTAATTACCAGCCCAGAAGCCACAGAGGATGAAGAGCAGCAGCTCTTGCATAAAGTGACACACTTTTGGAAGCAGCAGGGGTTGCTTTTG
TACTGCGACATCTTAGAGTCAACCTTTGAAAAGTTCAAGCAGCCCAGCAGGAAGGTGGATGCTCTCGACCATTTCCAGAAATGCTTCCTGATTC
TAAAACTGGACCACGGGAGAGTGCACAGCGAGAAGAGCGGCCAGCAGGAAGGAAAGGGCTGGAAGGCCATCCGTGTAGATCTGGTCATGTGCCC
CTATGAGTGCGCCTGTGCCCTGCTTGGATGGACCGGCTCCAGACAGTTTGAGAGAGACCTTCGGCGCTATGCCACACACGAGAGGAAGATGATG
CTGGACAACCACGCCCTGTATGACAGGACTAAGGGGAAGACTGTCACGATTTCACCTTTGGATGGGAAAGTGTCAAAACTACAGAAAGCCTTGA
GGGTGTTTCTTGAAGCAGAAAGTGAAGAAGAGATCTTTGCCCATCTGGGACTGGACTACATTGAACCATGGGAAAGAAATGCCTAA

HUMAN SEQUENCE - GENOMIC

TTTGGGATTCAGATTCTATTAGTGTGCAATGGAGCCTGTTCACTGATATTTTAAAAACTCAGGTAGTTTATTGTGTAGCCAGGGTTGTGAACCA
AAGTTCTACACAGAGAACAAATATTTATGTAACAATGTATTCATGTAACAGGCAAACTGGGTTTTTGTTTGTTTTTGCTTTGTATCCATT
GCTCTGGGCTGAATGTTTGTTTCATCCACAAATTCACATGTTTTTGCCTTAATCCCCATTTGAGATTAGGTGTATTTGGAGTTATACCTTTGG
GAGTAATTAGGACATGAGTGTGGAGCCCTCCTGAACGGGATTAGTGCCCTTAAAGGAGGAAACACGAGAGAGATGATCTCGTTCCCCACCATGT
GAGGATACAGCAAGAAGGTGGCCATCTGCAAACCAGAGCTAGTGCCCTCACCAGGAAACTTTTCAGCTGGCACCTTGATGTTGGATTTCCCAGA

SAGRES DISCOVERY 02-24

CTCTAGAATGGAGAGAAATAAACTTCTCTGGTAATTTTGTTACAGCATCCTGAAGTGACTAAGACACCCTGGTGATCTGGGAGACTCCAATGTG
TGGAATTTACCTAGTTTTCCTCTAAGAGCTGCCAGCCTCCTCTTGGATTTTCCTGGCACTCTTCCCCTTCTCTCCCTGTGCCCTCCTCCTAAGT
TATCTAAGGCAAACCTCTTCCTCCAGTAGAAGTTCTTTCTGTTGGACACTCTTCTGCCCTTTCTAATAGAGCTGAGATTTACTAGTAGTACATA
GGTTTACTTCCGCTGAGAATAAGTAATCTGCTCTCTCAGAAGCTTTGGAAAGGAGCTAGGCCCTTTTTCACCAAGTTAAAACATTTCAGTTAAA
TATAATCACACCATTTAGCACCTAATTATAAACTATTACCTCCACAATTTAAAAATATTGAATATGAGATTTTGTTATTTTTAAAAAGTAAACA
ATTACTCACAGAGCTTTATAAAAAAAGATTACTATGTTGAAAGTGAGTCCCTACTTCCCCCTACCCCCATCAAATTATTCTCTCTGAGAAACAC
ACGTTTAAAATAAATCTCAAATTCGTTGCATTGAGAGCTGAGTTTGGTACCAAATTCACGATGTGACATTGTTTCTGCTGGGCCGTTGAACCCC
TTTTTCCTCCCAGGTGGTGATGAAAGACTTTCACTTCCTGGCAAAGAATAAGAGAGGGTTTTGGCTGCATCCCCAGCAAAACCAGCTTTAGATA
AATGGTTTGGCACAAACACTTGTGGGCCTGAGCTCTCCCCTTCTATGCATTAGGGGTGTGTCACTGACAGAATTCTCACTGGTCTCTCTGGATG
GAAGAGGAATGGTGTTCACAGCCTATACTTTGGGCTGTCATCTATGTACAAAGACATGTGCTAAGCCCTCTAAGACATACAAAGAAGGTTACAC
TCTAAATGGGAAGACGAGCCATACTTGTCTACATAAAGGAAGGTGGTCAGGGGCAGAAGGTAATTGAAACAGGGTAAGTATCAACAATGTGTTA
TTAAGGTGAGTTCCCAGGAAGCCAGCCCTGAGATGGGAATTTGTGTGCAGAAGTCTATTGGGGATGCCCTTGGGATCATCATCTATGGGAGCAT
GAAGGAGGAGATTGGGCAGAGAAAGAGTTGAACCACTATTTGATTGTAGTACAGATCTCAGCCAATCTAATAGGATGCTCTAGAGTTAGGCTGG
CCCTTCAGAGTTGTCACCCCTTGAAATGAGATGACCTGACCTTTGTAACCTTCCCCCGATCATTGACCAATAAGTGGAGGGGTCTGTCCTTAGG
CAAGTGTCTCTCTTTGTCAGTGAGCCATCAGCTCTGCCATTGTCAGTAGCAAAAGGAATGGTGACTCCATCCTGAAGGGGTCTCTGGGCAGCTC
ACCACAGCATCCACTACAGAGGGAGATCTGTGACCTTGAAGATAAATGTGTTTTTGGTTGTTGCTGTTTTGCTTTTTTTTCTTTGAGATGGAGT
CTTGCTCTGTTGCTCAGGCTGGAGTACAGCAGTGTGATCTCGGCTCAGTGCAAGGTCTGCCTCCCAGGTTCAAGTGATTCTCCTGCCTCAGCCT
CCTGAGTAGCTGAGATTACAGGTGTGTGCCACTATGCTCAGCTAATTTTTGTATTTTTAGTAGAGACAGGGTTTCACCATGTAGGTCAGGCTGG
TCTCAAACTCCTGACCTCAGTTGATCCTCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGTGCCTGGGCCAAGGATAAA
TGTTTATAGCACGAGGGAAAAAGGTACATTAGTAAGGCACTGGGAGTAACTGGGGAATCTGAAGCGTATTGTTATGATCAGTCTCTACTTGCTA
TTCATTTCACTCTGATAAGACCATCTCAATCCCCTAGTGTTATAAACACTACAAATACTACTATAGCATAAAATGTCCTCCATAAGATCCAGTA
AAGAATAGCTGAAATATTTAGCTGACTCTTTTCAAACCATAAAGGTCAAACACATTTCAAGTTTAGTTTAATTCTATTTTACAGTTTTGGTTTT
ATAACCCAAAACTATTGTTTTCCAATTCACTGTCTAAATAATTGTGAGATTCTGTCTGTCTCTCTCTTTATTTATTTATTTATGAAATCAGATC
TGGCTCTGTTGCCCAGGCTGGAGTGCAATGGCACAGTCATGGCTCATTATAGCCTCAACCTTCTGGGTTCAAGCAATCCTCCTGCTTCAGCCTT
CTGAGTAGCTGCGAAGACAGGCGTGCACCACCACACTCAACTAATTTTTTTACTTTTATTTTTGTAGAGATGGAGTCCTGTTTTGTTGCCCAGG
CTGGTCTCAAACTCCTGGTCTCAAATGATCCTCCTACCTCAGCCTCTCAAAATGCTGGGATTATAGGCATGAGCCTGGCCTCAATTTTTTTTTA
AGGTAGTCTTTTTTTTTTCCAGTAGTTTTTGGGGAACAAGTGGTGTTTGGTTACATGGATAAGTTGTTTAGGTGTGATTTCTGAGACTTTGATG
TACCCATCCTCTCTCCTTTTACAATGATTTCTTTATGATGTGCCTCCTTGGTCTGGCACATTTATGCCTGTTTCCATCGCTACCATCATTAGTT
TCTTTCAGATCTTTGCTAAAATGTCACCTCCTCAATAAAGCCTAATTGGATAATCTTAGACTGCCATCCCAACCCTGGCATACGCTGTCCCCTT
TATTTCTCTCTACAGCATTTATCACCATCTGGCCTGCTTGAGATTCTTGAATAATTTTATTTATTGTCTGTTTCCTTCTAGTAACAGACAAGTA
TGTAAATCCCATGAGGCAGGGGTTGTTTTATTCACTCTGTATTATTAATGCCTAGAAGTGCCTGGCACATAGTAGGCACACAGTCAATATGCAT
TGAATGAATGAATGGTCCCAGCTGAGGCTTCCACGGTTCTCTTCTGGCCATTTGCAATAGTGACCCAGCTGGAGTAGCAGCTTCAGCTCTCTGC
ACCTTCCAGGAATCCCGTTTTGGACCACGGGATATACACATCACTGCAGGGCTGCCTTCTGTGGCCCTGCCTCGGGCCTGCCACTGTCCTGCTC
AGAAGCTCCCATGACTTCTTAGTGCCAACTCAGGCTCTGGGTGGTCTCTGAGGTCTGCTCCAAACCTAACTTCTCTCCTTTTCTCCCATCTGCT
CAAATCCTTCCAGCCCTCCTGGCCCCCGACAGGCTCCCTCTCATGTGAATGCCCTTCCTGCCACCCTTTCCTGCCCTCCTCTGAATTCCTCCAG
CAGATGAGTGTAAGGGGGCAAGTTAAACATCTTCCAGGGCCTTCTGAAGAATGTGAGGATAAATGGTAAAGCATTTCACAAAGCCTAACATCTT
TAGAGATGACTATTATTGCCAGTATGTCATGATAGTATTATTGTATCATAAACTTCTCAATTCAGTAATAGATGTCTGGAAGGTTGAAGCTAAA
GCATCAAGCCACATTCTCCAGTTTACCAGTAATAAAGCTGATCTTGTGACTCTGGTCACAGTGGTGTGCTGGAGTCAGCTGCTGCCAGCTCACA
AGAACCCATGGCTAAATGTTCTGGAACTCTGCGAGCCGACTGCTAAACATTCACATGCACCCCACTGCCAACTGACCCATGCTTGTTTTGCAGT
CAGTTCATAAGCTGCAGGAGAGAAAGATGTGTTTAACTGCTTACCTTAGAGACGTTATCAGTCAAGAAAAAGAATTAAAAGGATCTGGTGACAG
AAGTGAAGGAACAGTTTGGGGAGTGATGATGAGTAGTTCTGTTTCAGGCATTTTGAATAATATTTTTCAGTGGAATGTAAACGGGCCTGGTGCT
GAAGAGAGAGAAATGGGCTAGAGATAAAGATTTGGAAGTTATGGGATATTGGCAGGACTGGAGGATTTTACCCCCGGATACCCAGGAGCCATGG
CCCCAACCACTGATCCACAGCACAACGTCTATCATCTCACTCAGGCTCTGTTCTCATTCTCTCCAGTGGCCCCAAGTCATATCTTATTATAATT
GTCTCCTGATTCCTTCCCTTCTTTCTCCCTCCTCAATTCACCCCATTCATTATTGCCTGATTAATTTCCCTAAGGCACCATTTTGATCACCTTC
TGTGTTTGCTTAAACACCTTCAGCAGCTCCTAACTCTTTGCAAATAAAATCCCAACTGTCCTATTCAAATTTGTCCTTGAGGCAAATCCCTGTA
CTTTCTCCCCTCCATGCCTGATATTCATGCTGTCACCCATAATTTTGTATACAGTTAAGTTTAATAAACATTTTGGAATAAAGACTAGAAGTCA
CAAATAAGCTGCTGTTGTCCATCAGTTCCATTGTTCTAACTATCACTTCTCATGTTGTAGATGAAGGTGAACCCCTGTTATAACTAAAATATAG
AAATTTCTTGTACTTGTTAGGCACCCAACATATATAGCTACCAAATGCTTCTTAATGGCAAGAAACAAATTTTCCAAGGTTTATTTTTCATTCA
AGACACTCTACACATGCTCCTGGCAAGGCAGTTCTAAGCTCCAGAAGACACTTGCTGCCAAGAACCAAACACAGCTGTTCAGGCAACAGAGGAA
GCTGGTGCTCGGTGAAAAACCAAACCAAAACAAAACCCTGCCCGCACATTTGAGGATGGCACAGGTCCCAGATCTACACCTTGAAACGAATAGA
AGATACAAGATATTTGATATAAAAGAAAATGAAAGTGCCGGAAACAGAAGTTTTCTCTCTCAAACTGACTTCCTCCAACGTGCACAGAGAATAA
CAACAGGACTCCTAAGGATAAAAATAGTGTTTGCTGATGGGAAGAGGGCTACTTCTCCACTGAACCATGGAAAACCTAAAATCCTCCCCATTGT
TTCCTGCCCCATACACTTGTACTCAATAAAGATCTCTAAGAATGATCATGTGGAGACTAAATATTACCCAAAATGGAAAAAATTTAAAAACAAT
CCCGAACTAAGGGGAGAAGTGGCTGCCTGGGAGCATCAGCATGGAAACCAGTGAGCAGCTGTGTTCTTTGTTTCCTCATAGCCATCATCACCTG
AACAGGCAGGAGCATTGGTCACATCTGCCAGCATCATGGGAGTGGCAGCATGAAAGGGAGGACAGAACAGTGGCCCAGCTCCCATGTGGACCAG
GCAGGCAGTTGTCATGCTATCTTATTCATCACTTACAATGTGAAGAAGTTGGCACTATGACTGCTATTTTACATGTTGGAAACTGCGAACCCCC
CATGGGGTAAGGGAATGGCCCAAGCTCATACATCTGGTAAGTAGCAGGTGGTTCAGGCTTGTGTAGCTCCTGAGGCACCAATACTTCCAGTTGC
ATTCAAAAGGGTGCTGTAGGTGTTCTACAAAACAAACAAAGAAAAGGTAAGCATGTTGAGAATACAGTGGGCGAACACAGTTTATTACAAACCT
TTAATGTTCTAACACACATTGTATAGAGTTTCTCTGGTTTCCCTACACTTAATTCACTGCAGAATTTTTGTTTTGCCTGGAACACTTCATGGGA
CCAGTGTTCCCATAAATCATTGCAGGACACCCCTCTGGTCTCATTAGAGTCTTAGGTCTGTTTTATTTTTTTGTCTTGTTTTGTTTTCTTTTTT
GAGACAGGGTCTCACTCTGTTACCCAGGCTGGAGAGCAGTGGCATGGACAGGGCTCTTTGCAGCCCCGATCTACTGGGCTCAAGTGATCCTCCT
GTGTCAGCTCTTCCTAAGCGGGCTGGCACCACTTTTGGAAGAGTCTAGGGAAAGCAAAAGACCATTGGGAAGGATTGTGACAGGATTACCTACA
AAGTATATGGGAACACAGGGAAGGGAAGGGGGAACAAGGAGAAACCTGCACTATTACAATAGCAATGGACAGTTCTTGGAACTTGCATGCCAGT
GGTCTTTGAAGTGCTTTAGTCCTCATAGCCACCTGTAAGATAGAAATCATTCTAACCCCCATTGCAGAGATAAGGGAAATAAAGCAAAGAAAGG
TTAGGTTTTGAATTCAGGTAGTCTGGCTCCTAACACCTGTATTCTATTTGTTCATATTGAAGAGTCTTAAATGGAGCAGAATTCTCCACCAAGT
AGCATAAACAAATAAACTTTTGTTAAGACACTGAGATTTGGAGATTATTGACCAATCTAGTAGATCAAGGAGAGTGCTCAACATCTGATGCAAA
GAGCTTCAGAAAATCATAGTATAGTAAGAAGAAATCAATTCCTGCTATTGGCAGCAATGCCAAAGAGCATAAGAGAACTCTGTATAGTGTTTTA
TTATTTTCAAGGCACTTCATGAGCACGATTTAATTTAGTTCCTGAGAAGGCGATGAGACATCTGTGCTCTCAGACCTTATTTCACACCTCCCTT
CACCACAGGGGATTGGTTTAACAGACATTAATTGCTGAAAAAGCAAAAAGAGGACATTGAGGTAACTCAGAGAAAGAAACTGCAAGAAGCACAC
TACACCACTGGGCTGGAGCAACAAAGGGATGGAGCTGGGATTGTTGAAAACTGGAAGTTTGGAGCAGGGCTCCCATGGAGCTGGAACACAGATC
TTTAATAAGGAAGTGCTGCCTGTCGTCCCTGGTGCCATAGAATTTCATAGGGAAACCTCTGCAGAGCTGGGGCTCAGACTTTTGAGGAGATGTC
ACCTAAGTGGTATTGATACCTCTGAAGGGTACAGTAAGACTGGGTCTGGTTGTGCAGAAAAGAAAAAAAGAAAAAGAAAAAAGCTAAAGACTAG
AACCAATCACTGCTGTCTGAGTAGAGAACCATTACTGCGAAGACCCTGACCTTTGTAGCAGCAAGCAAACAAAAAAGGTCACCTCTTTCCTCTT

ATCTAGACTTTCAGTCTCCCTCTGGTATCACCATTGGCAGAGCCTGACATAAAGTCAGCTGGCAAATGAGAAAGAGAATTTGCTCAGTCCCAGC
CTCAACCTCATGGAATCCATCAGAAAAAAGGTAGATTTGCAGCTGAGAGATGATAGCCTGATAACCAGACAGGCATCAGTACATTTGAAATTTT
TGTTGGTAATGTTTTCAATACCAGTGACTCAAAGCAAATTAAAATGTGACATTGTTTAATATGATATTTTGATGATTTAGTAGTTTCACAAAAC
ATATATATCCGATTTCAGATTGAACTGGAATGTCTCTAAAAACAAAACATAAATTACTACGAACTGACATTTATTGAAAGTGCTACCTTTGTGT
CAAGCACTCTGCCCAGCAGGTTATGTGGGCTATCTCAGTCCTCATTTTACAGATGGGGTAAAGCTGAGGCTTAAAGAAGTTAAGCAACTTGCTT
TGAAGCTTCAGAGCAATAGAGACAGAATTTTTATGGGCAGCCTGACGAAGCCTGAGCTGTTAGCCACATCTCAGTACTACCTCCCCATTCCCTT
TACTGCTTAGGTGGTGCACCTTTACTATTAGGTGGCTATACCTTGGGAACGAACACAACAATCCCAGACTCTTGCTAGAATCATTTACTTAACT
CCCTGCTGCAGCACCATTTGGTAGCTAAGACTGCATTCTAACATGAAGCATTCAGCTCTTCAGTAACCAAACACATAATAGTGAGGGTCAAAAT
AGACTCTCATCTTCCAGTTGATCTCTAGCAAACAGTCATAGCATCCGGGAATTTCAGGGCTGCATTATAGGCCCTTACCAGATGTCTGAATTCC
CTTCTGTTACAGCTCAATAAACAGTTATCCAGCATCTGTTTGAATACTTTTCATGACTTGTAACACACAACTGTATAAAGCTGCTCTCTGTATA
TTTTTAGACAGCTGAGTTACTAAACAGGTCTTACTTGCGGAGAACTGGAATCTATTACTCTACAATTTCCACCTGAAGATTTCTGATTTTGCTT
TCTTGAGCAACACAGAGTGCTTTACCCATGCCTTAAGGCAGCTGTCACATGACTCTTCCCCTAATACGGTTGTGAGGTGCTCACGTGTTTTGGA
GATAGCAAAAGTCTCAAATAATATGGCACAGACGGCCAGCCATGGTGGCTCACACCTGTAATCCCAGCACTCTGAGAGGCCGAGGTGGGCCGAT
CACCTGAGGTCAGGAGTTCAAGACCAGCCTGACCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGCGTGC
GCCTGTAATCCCAGCTATTCAGGAGGCTGAGGTAGCAGGATCGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCTGAGATTGTGTCACTGCAC
TCTAGCCTGGGCAATAAGAGCGAAACTCCATCTCCAAAAAAAAAAAAAAAGGACAAAGGGTGAGCAGAGCTCAGATTGGTTATTGGAGAAGACAA
TACAGAGGAAGGCTCCTTGGTGGTTAAGAGTAGTCTTTTAAAATCAGACAGATCTGAGTCCAAATCCTAGCTCAATCATTTCTCAGTTGTGAAA
ATTCAGTAGCTCTGTGACCTTGGGCAAATTGTTTAGCCAAATGAGAAAGGTAGGACCACCTGACAGTGGTATTGTGAGGATCCTGTCAGCTAAG
GCTGGTAGGTGCTTGCCTTGGCCGTGTAGTAGCTGCTCAGGAAATGAGATCTATAGAGTGTATTGGTGAAAGACAAATTTAATTTTGCACATAA
AGTTATGAAAATGTCTCCTTATGGCAGTGGTTATCATCTAAAAGTCATACCATCCCACTGAAGAAGACCTATTTTAGGGTTTATAACAGACTAC
TCTCTGGACAACCTTAATCCACTTAAAAAACTAATATATGCATACAGCATTTGGAATCCAAAGAACTGAATTCAAGATATGGCTTGGCCCCTTA
TTCTGTGATCTTGAATAACTGAGCCTTGGTTCTCTTGCTTATAAAATGTACCTATGTAAGTGAACAGGTGGTAATACCCACCATGAAATACTAT
GGAGCAGTTAGAAGCAACAGAGCAATTAGAATACGGATCTGGAAAACATAGTTCCAAGTGAAATAAAAAGGTGATTGGCAAAATGAGAAATGTA
ACAATGCCATTTATGTAAAGTCAAAACAACCACAAGCAGAATATAACACCCATGCAAATAACAGACATCCAGTACAGTGTAATGATTGTCTACA
AAAGGAGGAGAATGCAAGTGAGTTGGGAGGTTTAAAGGGGATCAATAAATAAAGACCACAGAAGGGCCTCAGTACATTTAGAAATAAATAACAT
GCAAACAATGATGCTTCCCTACCTTCCTCACGAGGTTACTCTGAGGAGCTAATGAGATTGTGCGTATGAAAACAAAAGTTAATTGACTGTCTTC
ATTATGATCTCCATATTGGACAAATGAACTGAACAGAGATAAAAATTCCCCATCACACTTTGGCAGGAAGCTGTTGCCAGGGCAGCACCTGTGA
AGCCCTGGCCTGGCTTCAGAGTCTGCTGGTGAGATGACATCAAAACCCTTCGTGTAGGAGGGTGGCAGTCTCCCTCCCTTCTGGAGACACCACC
AGATGGGCCAGCCAGAGGCAGCAGCAGCCTCTTCCCATGGATCCACCACGAGCGTCCCACTTGAGCCCTCGGAAGAAGAGACCCCGGCAGACGG
GTGCCTTGATGGCCTCCTCTCCTCAAGACATCAAATTTCAAGATTTGGTCGTCTTCATTTTGGAGAAGAAAATGGGAACCACCCGCAGAGCGTT
CCTCATGGAGCTGGCCCGCAGGAAAGGGTTCAGGGTTGAAAATGAGCTCAGGTAGGACAGCATCGATCTTGCTTTGTAAATAAGCAGAGGCTTT
GTGAACAGCTTCTTGGGAACCCAAGGAACCTGTGTTTTCTTCCACATGTGGAAGAGGTGATCTTCCCACTGGGAGAACAGCAGATTTGAAATCA
AAGAACAACTAGTTAAGGAAAACGAGATAAGTGGGGACTGAATACAATTATATTGAAACTAGTTGACACCAAAAGATGAGATAAATTTTTTGTT
TTTTGCTTTTCACTCCTATGAGATGTGTTATTTAGGGATGATAAGCAGAACACTAATTGGAAAATTTAATGCTGAACCACTCAATTCTATTCTT
GACCAATTTGAACAAAGTATCACTGGGTTCAACAAAAAAGTTTTGGCTACTTTGATGCAGAAAGATGATTTGGTTGCTTGGTTCTTACCTATAC
ATCTGGGCGTGCTAAGGCAGCTAGCATCTGTGGTGGGCGAGGATGACTAGCCAGCTTACCACAGGCACCCAGATGTGGCCTTGACCACATTTTT
CCAAAGAGTGGTCCTAGTGGGGTTCTTAGAAAGAGAGATGCTAGGTAAAGATGTATTCACTGTTAAGACAGCTCTGTCCAGGGATGACAGACAT
CACACTGAGTGAGATGTAATCAGAGCCCAGGCAAGGAGGCGATAGAAGCATTTGGACCACCTAGATTGGTTCACTCACTAATCCACTCACCTTG
AACAGCAATTATTCTTGTTGTTTTTCTAACTTCTGTGTAAGCTCTTCACTGATCTCAAATAGATGAAGAGAAACAAGCAAAATCCAGAAACAA
ATGGTATTAGAACCTTGACATAAGTGATGGTTCTGGATTAAACTGTTAAGGGGCTTGCAATGAAGGAGTAATGATTTATGCAGTTGACCGCTTT
GACTGTGCAAGAAATAAATTGACCACAAATTTTCAGGCAAAACTATAAAAATTTTATGTGAAAGGACATTTTGATTGTATAAATAGTCTTTGAT
ATTTGAAAATAAAACTGACAAGCATGTCATGCAGAAGAAATGTCAGCTTCCAAGTGTTGAGGAGACATATTTCAAAAGTCAGTTTTCAGATATG
TTAATGTTCGCAACACCCTGATTCATATGACATTGACTTTTCATTCATTTTTTGCTAAAATGCCCCATTCAGAAATTCCTGAATTTCCTATGGC
CCTTCTTCCACCTGATTTCTCTTTGCAAGGTCTCCTTTTCTCTCTTGCTGCCTCTTTGTAACCTCCTACAGCCACTCTGAATCTCATTTTCTAA
CATCCTTTCCAAGAAAATCCTAGATTTCATCTAACTGTTAAGCCTGCCTGATATTACAGACTTACATAGAAGGCTAGAGTTGGAGAAGACAGGA
AGATTATATAGGTAAAGAAGCCAAAAAAATAGATTTTTTTTTTTTTTTTTTTTGAGACAGAGTCTTGCTCTGTTGCCCGGGTTGGAGTGCAGTGG
CACAATCTCGGCTCACTGCAACCTCCGCCTCCCAGGTGCAAGTGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACGGACACGCGCCAC
CACAATCAGCTAATTTTTGTGTTTTTAGTAGAGACGGGGTTTCACTATGTTGACCAGGATGGTCTCTATCTCCTGACTTTGTAATCCGCCTGCC
TTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGTCTGGCCAAAAATAGATTTTTTGGAAAAGAAATTAAAAGCCTTAGCAAATA
TGGAACTGCTTTTCATGGTAAAGAAATTTGACAAGGGTTAGGCAGGAAGGAAAGAACCAGAAGCACCACTTACTGGAAAGCTCTCCATTGAAAC
GTCCAAGCTTCCAGCAAGGACCCGCTGATTTATTATAGACACAGCAATGAATACATACAAGGCGGCTGAGGCAGGCACTCAGGGAGATGATGGG
AGGTAAGTTTCTTCTGTTGGCAGGACAGCTGAAGAGGCAGCTACATGCCCCAGATGCCTGCTGCCAGGGACCAAGCCCAGCTGCTCAGGCGGCG
GAGGAAGCTCACTGGTGCATGGTGAGCAAACTGCCGCTGTGCATGTGATGATGGCAAAGTTCCCAGGCTGGTAGCTCAGAAGACACATTAAATA
CAAATGTGCTCTATGGCGCAAAAATAAACCACAGGAAGTAGAAGTCCTAGGTCTCAAACGGAATTTCTGTGCATAGATATATAGACTTTAATTG
GATAGAGAAATAAAAATTATTGTAGGGGACAAATCTCTAGATACGAAATTTAGAAACCTCAAATCCTGGCTCTGAGCCTCCCCAGCCATGGGGT
ATGGGACAAGGTCCCCTCTCTCCCGACTGATTTTAATATCCTGATAAATGGCCTATCTGATGTGATCACCAAATGAGATATGCATGTCAATGT
GCTTTGATAAATTAAAACAGTTAGACAAATGTAAAGTGTAATTATTTTCTTGTGAATTGCTGGATCCATTGACCTTTACAGCAAAACCCTAAGG
AATGGGCTCTCCCTCCACAATATGAACAAGGTCAAATGATATCAACAAATAGAACAAAGACAGGAAAGAAACCCGTCAACATGTTATAACTGGT
TTTTTGGGAGTGGGGGTTGGTAGGGAGAGATTATGGCTGTTTTTATTTTCTGGGTTTTCCAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTG
AGACGGAGTCTCGCTCTGTCCCAGGCTGGAGTGCAGTGGCACGATCTCGGCTCACTGCAACCTCCACCTCCCAGGTTCAAGCGATACTCCTGCC
TAAGCCTCCTGAACAGCTGGGACTACAGGCACGCGTCAGCACGCCCAGATAATCTTTTTTATTTTTAATAGAGTTGGGGTTTCACGATGTTGGC
CAGGATGGTCTCGATCTCTTGACCTCGTGATCCGCCCGCCTTGGCCTCCCAAAATGCTGGGATTACAAGCGTGAGCACCGTGCCTGGCCTCCAA
TATATTTTTTACAATAAGCATATATATATGTGTGTGTGTGTATATATATATATATATATAAGCATATATATGTGTGTG
TGTGTGCATATATATATATATATATATTTTTTTTTTTTGAGGCAGGGTCTTGTTCTGTCACGCAGGCTGGAGTGCAGTGGTGCCATCTCGGCTC
ACTGCAACCTCCGTCTCCCAGACTCAACGGATCCTCTCACCTCAGCCTCCCAAGTAGCTGGGACTACAGATGCGGGCCATGCCCGGCTAATTTT
TGTAGAGATGGGGTTCCGCCATGTTGCCCAGGCTGGTTTTGGACTCCTAGCTCCTGCCTTCACCTCCCAAAGGATTACAGGTGTGAGCCACCGT
GCCCAGGCTACAATAAGCATGTACTTTAAAAATAAAAATAACAAAGAAAGCTGTTTTTTCAGCTGATAGGCAACAGTTTTCATTGTTCCTAACA
CATTCTTTGGCTGTCAGAAGGATTAAATTAGAGAAGAAACCTGATTCCTGCTTTACTTGGGCCTGAACACACAAATTAGAAATGGTGTACCTCA
AAGTGTTGCACTGTCTGGAGCTATTTCATTCTGCAACATGCATGCAACATAATTGGGTGGAGCTTTGCTAACATTTATGCTATATTGCAAAATA
CGTGCCATTCAATGTGCCATAGGAAGCTGGTCTTAAAACGTAGATAAGGGAAAGTATTAAAACCCTTGAGGCATTTTTGCATATTTATGAAAAG
AATACTGAATTTTATTCCATGGCTAACTTCCTAAATTTTAGAGCAATTTGCCACCCGGGTCAAGCTGGAGAAGGATCAGAACCTACTGCTTGTC
ACTTTCTTATTTCATCCTGAGTTCCAATACGTGGAGCTATTTTAAAATTTCATTCTGTTATCAACCCTCCTCCATAAACACATTAGTGTCACTC
GAGTCCATGTGAAGAGACCACCAAACAGGCATTGTGTGAGCAACAAGGCTGTTTATTTCACCTGGGTGCAAGCGAGCTGAGTCTGAAAAGAGAG

TCAGCAAAGGGTGGTGGGATTATCATTAGTTCTTACAGGTTTTGGGATAGGCGGTGGAGTTAGGAGCAATGTTTTGTGGGCAGGGGGCGGATCT
CAACAAAGTACATTCTTAAAGGTGGGGAGAATTACAAAGAACCTTCTTAAGGGTGGGGGAGATTACAAAATACATTCGTTAGGGTGAGGCAGAA
ACAAATCACAATGGTGGAATGTCATCAGTTAAGGCTATTTTCACTTCTTTTGTGTATCTTCAGTTGCTTCAGGCCATCTGGATGTATACGTGCA
GGTCACAGGGGATATGATGGCCTGGCCTGGGCTCAGAGGCCTGACAATTAGTTAAGCTTACTCTCTGTGTCTTGACCCAAATCATTGATGCTGA
GGAAGAAAATGCACGACCAGGAAGGTTGGCTCTCCACCTTTGCATCTACCTAGCCGTTTAACACTTGCCAAGTTCCATTGTTCAAGCAGCTTGA
CACCCACCAGAGGATACTGTCATCCTTCCTAGACTTCCATAGTTTATCTACAAGGATGCCACTGGAAGGCATTGTCTTCAGTGAAAGCAAGATG
CAGCATCATGTCATCACCAATAAAGGGCTTTGTTAGTACCTACTCTGTGCAGTATTTGTCAGGTTGTGGAGACACAAAATAGTGGAAGACATGA
GTCCTGCAAACAAGGAGTTTACAGTCAGACAGGAAAGTCAGGAATTGTACCTTTGTCATCACCTGGAATTAAAAAAGTAGCATAGCATATATTC
CAAGTTTGAACAAGTTTTCTTTAAAAAAAAAAAAAGTTAGCATTTGCCTGCTCATTTTTTACTTTTAGTCTTCTAGTATTATTTTGGTCTAGT
TTTATCTAAACTGGCTGCTTGCCCTTTCCATTCAGTCATTATATAATGTTTGACATGTGGATTCTGTCTCACTCATTATCCCAAAACCATCGCC
TCCAAAAGTCCCTGGCAATCTCATGGTAGTAAAATGCATTATTTTTTTCCACCTGAATGTTGGTAAAGACTCTCTCCTTGACTAAACTGTAGCA
TGGCTTCTAGCAGTTAAGGCCATGTCCCTAGGATGGCCCCCTTTAAAATGCCTGCCTGAGAAAGTTCATCACTGCCAGGAGAATGTCCTGTTTA
TTCTAGCCAAAGGCAGGCAACAGGGAGCTGGCCCGTGAACCCTCTCTTAAAGCAGTTACTTTAGAAAGTTGCAATGATAAATCCTTTCTCTGTC
CCTTTGAGATGTAAATCTTCTAACCATCCAGAACTGTCTTCCAAGGATCTGAAAAAAGCAACCCTTCAAAGAGGTAACTCCGACTTTCAGATTC
TGTGGGAGGGAGGGCCTAACTTCAGAGGACCTTCCTCTAATTTACACCACAAAAGTTTGCTTCTCCTCCAGGAAAGCTCCAATTAACAAACCCA
GATGGCCTAGTCACAGGGACCAACCCCCCTACTACCCCTCAGGGGCACACCCTTCCCCTAGCAGCACATCCCAGTTTTTTAAAAGTCTCATGCC
TTTTGTTCCCATAAACACTGGGGCCTCTTTCCTATTGCCATCATTATGACTGAATATAACCATCCTTCCCACTTTAACTAGTGTCCAGCTTTGT
TAATCTTTGGCAATGTTCTATTCTACACTTCAAATTTATGGTGTCTGAAATCAAAATATTCAAAGTCATTGTTTGCAAAATAAACAGAACATCA
GTCGAAGGAGGTCAGTTTCCTGCTCTAGAAAATAAAAGTTGAACTGGCCACTCTCCAGGCCAGGCCCAGAATCCAAACACAGATTCCCTGGTTT
TCTTTACAGTTTTTCTTGCTCTTTCCCTACCACCTTGAGTGCCTTCTCCCTTTACCTCTCTGCTTCCCAGACCTTAGACTCCTGAAAGCCCCCA
GAGAGAAGCTTTCCTCCCTAGAATGCTGGTGGGAGTCACTGCCTAGGGTGGGCTCCCAGCTTTTCCTTTTGATGAGCAAAGGCTCTTAATCTCA
TCCAATTACCCCTCTCTGACTCCACAAGCCACGTGTAGACCTCAGCTACAGACTTAGACAATTTTCTTTCACATAGGAGGCCTCAAGAAATATT
TGCTCAGAGAATGATTTATCTGGTGAATATAAAACCAGCCCAAGGAACTTGTGTTTACCAAGAGTAATTTTTGTAATGAATTTTTTTTCTGCAA
TGCATGAGTATTAATTTTGTAATCAGCAACATAATAAATATTTTATTTTTATAAATTCAAGAGCATGAGCATGAGATATAAGCTTTTTTCTTGC
TCTGATCCAAATTACTTTGTATTTCAAAATTTGCGGCTTTAAATTAACAAAAAATTTCTTAATCCCATTTAAGGTGGGCCAAAAAAAATCGAGG
CAAGATCGTCTCAGTCATAAGTACAGCAGGGCTGGAGACAGAAACCTGTCCTTAGTGGTGCTAGGTGCTAGTAAGAGTTTGCAATAAAACCAAA
CAAAACTGCATGATCTTTCTGTTCCAAGGATACTGAAACAGATCAGTTGCTAAGTGAAATTGGTAGAAGGGTTTTTAAACTGTAAACAGGTCAG
TTTAACTGTAAATGACTATTTAAGTCACTGTTTACAAAATAAGTCCTATATCAGATGGGAAGAATCAGGAATGACCTCTCCCTGGGAAGAAGAC
AGCAGGTGACCATCCATGAGGATCCAGAAAGTCAGACAGAGGGTGGGAAGGAGTCTATACCCAGGCAAATAAAAATAGCTGCCACTTTCCTCCT
GGAGGGTTTTTCTAATTATACTTCATGAGAGGCAGGATCAACTAGGAAAAGAAAGACAGGAAGAACAGGGAAATTATTGCCTGAGGGAAAAAAT
GCAGAACTGAAGTCTGTGAGTTAATTCCATAACCCAGGGCTTTTCAGACATCTGAGTGCCACAGTCACGATTCTTGTAATATCTTTTACCACAT
CTTTTATTATAATATATACGTAATCTGTTTATTTTGTTTGTTTATTTGTTTGGGGGGAGACAGGGCCTTGCTCTATCACCCAGGCTGGAGTGCA
GTGGCACGATCTCAGCTCACTACAATCTCCACCTCCTGGGTTCAAGCGATTCTCGTGCCTCAGCCTCCCGAGTGGCTGGGATTACAGGCACGTG
CCACCACACCCAGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTCACCATGTTAGCCAGGCTGATCTTGAACTCTTGACCTCAAGTGATTCG
CCCACCTGGGCCTCCCAGAGTGCTGGGATTATAGGCATAAGCCACCACACCTGGCCAGTGTGTTTCTTTTAATTGTCCCTAAACTGACTCATTT
AAAATAAAATTAGCCTTGTTCTAAGGAATAATATCCATAAAACCTATGATCTGAGATGCATAATTTAAAATACAGATATAAATAACACATAAG
CCTTTTAAATGTTCAATTGTGTACCTCCTAAAATTATGTCACGTACCTGCAGAGAAACGAGTACCATGTTGGAAAACACAGCTGTCATTGAGGC
CAAAGGCTCGAGTGGGAGTCAAATCTAGGCTGGGGCAGTTCAATAGAAAAGATCTTTCTCTACAGTGGTGTTTCTCAAAGTGGAGTTCTTGGGC
TGTGGGGTGGTTTTAAAACATAGGTCCTCCTGTGGAGAGGGAGGGGCAATTTCCCCGTCCTTTGCATCTGAGAGTGCTGGTGACTGATTCAACC
AGTAAGGTACAGTGGAAATGAGACTGTGTGACTTTCCCTGGGACACAATCTCTGGGACCCCAGAGCCTCATGTAAGACATTGGCGCCTCCTCTT
AGACCACATAAAGTTGCTTGGGTCCCCAGTCCCTAGTTGCACTGAGCCCAGCTTTCCAGCCATCCTCACCAAGGTGGCAGAATGTAGAACCACG
GGGAACATCAGCACCTCAGCAGAAGAATACAGGGCAGAGAGATCACCCAGCCAAGCCTGCCTGAAGTGCTGACCCACGAAATTGTGAGATATAA
TAAAATAGTTGCCTTTTTAAGTCATTACATTTTGGGATCACTGGTTATGCAACAGTAGATAACGAAAACAGACTGACTATATCAGAATCACCAA
TGGAGCTTGTCAAAATGCATATTCCTGGGCCTCAGGTGCAATTCTCCAGGAATTCTGAAGTCTCATAATGGGACCCAGTAATCTGAATTTTAAC
CTAGCTTCCTGGATGTCTCTGGTAGACACTAGAGTTTGAGAGACATTCCTTTAGAGCTATTCATTCATTCATTCATCTATCCAGTCTACCGTCA
TCTTTTTACCATTACTATAAATCTGGCCATGTGCTGGGCTCCAGGCATAACCCAGAGACCATGCCACTGTCCCTGCTCTCAGGGACACCAAGGA
CCAAGCTGGGCACCTGACAGTCAAGCACTAGTTGAAGGAGGAGACCCTGAATCTTCTTCCCTGTAGGAGACTGAGGTACCAATGCCAGTTCTCT
CAGAATTGCTATAATTTGTTCAAGACCTCCCAAACTTAGTCCAAAGCACTAACAATCGGTCATGGCCAAGAAATTAGGAGAAGATTGAATTCAC
TGATATTTTGGAAATAGCCATCTCAGCAGAACCTTGGGATCTCTGAGGTTGAGGTTGGCTGCCGGAGGGTTTCTGTCACCTTTTATTATAAGAA
GGAAGCCAAGGTCTCTGTGGGCAAGGCAGAAACAACTTCAGCCTCAATCACAGATTCATTTGCCCTTGAAAATGACATTCATGTATATTTTCCC
CCAAGTAGAAAAGTGACCATAGATAGTTCATTACAGAAAATGAGAAAATAAAGAAAAACATTTCAAACACACAAACAAAGCTCCCCTCAGGCAT
CTAACCACAGTCTAGCAGAACGTTAAGAGGTTGCTTGAGTCAGGCACACCTGGGTTTGAACCTCGGCTTCATGTAAGCTCCCCCAGGCTTGGTT
TTCTCCTCTGTGATTACATTGCCTACTGTGCTAGGCTGTTGTGAGGATTAAGTAAGAATATGTGCACATGTGTGTATGTCATTATCATTATCTT
TGCTAATAGTCACAAGTATTTCTTTCTAGTCTGATTCCCTTTATATGCCAGTATTTATTGTTGGTTACTTAATAGTGCCTTGAGCCCCATCCCA
TCTGTACTCCCCAGCATTCTAATGTCCCCATCAGAGGCAGGGCTGTGTCCAGAGGAATCCTAGGTGGAGAGATGGTGGCGATGGAGCAGCAGGG
TAGGAGTGGATGGTGACAGGCCAGAATTTGGACGATGAGTCCAGGGCTCCCCCTTGACACGTCCATCTCCCTCAGAGGTTTAGGGAAAACCCAG
AGCCCAGAGAGCCTGACAGCCTCCCTGTGGCTGCTCCGTCTTGATGTGTGGCTATGGCAACTGTTCTTTCAAGTTTTCTGGGGCAGTTCTACAT
GTCCTGTAGTCTAGTTTAGTCCATATAATATTGTACATAAAATAGCAAAACACAAATTCTATGTGGCAGCAGCAAGGCAATACGTTTACTGCTG
TTATATAGGAGGTGCTATTCCATCTGTATTTCTGCCCTTGGGAGGAAATCGATTTTCTTATTATTATGATACCCATCCAGATGTTACTCCCTCT
GCAACAAGAGGAAGTGAGCAGCTCCCTCCTTTTCCAAAGAACACAAAGTCATGGATGGCCAAGCACATAGACTTTGATGAGAACAGCCATAGGA
TCAAATCCCTGCTCCACCTACTAATTATTCGCTGGGTGAAATTTTTAACATTTCCAAGGCTATCTCTTCCCTTTTTTTTTTTTTTTTTTTTTTT
TTTTGAGATGGAGTTTCGCTCTGTCGCCCAGGCTGGAGTGTAGTGGCACAATCTCAACTCACTGCAACCTCCGCCTCCCAGGTTCAAGTGATTC
TTCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGCGTTCCACCACGCCCAGCTAATTTTTTGTATTTTTAGTAGAGACAGGGTTTCACCG
TGTTAGCCAGGATGGTCTTGATCTCCTGACCTCATGATCTGCCCCCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCGCCCA
GCCTCTCTTCCCATTTTTAGATGGGGATGATCATATCTATCTCATGGCATTATTGATAATTAAATGAAGTGATGTATAAAGTGTGCCTACCAGA
GTGTCTAGCATATAGTAATATTCTAATATTGTTAACATTTCCAGTATTGGAGTGTTCAGAGCAGAGAGAAAACCACTGTACCAGCAAATAGACA
AACAGCTGCCACAAGATAGTGATAAGAAAGTATCAGCAGAGCACACTAGAGGCCATGGGTCTCCTTAGTAATACTGCTCGGTAAGGGCTCGGAG
CTGAAAGTGAACAACACACAGAGACTGTGAATTGCCTGTGAGGGGCTGATGGCAACCCCGACACGAGGAAGCACATCACAGCCCAGATCTAGCT
GGCCACATGCAGAGGATCAGCCGAACTCAGGCAACACAAGACGATGGGAAATACAGTCTGGGCCACAACAGAGATTCTCTCAACAAAATTTCTT
AAATTATTTGTGGCAAAGGACCAGTTTTCAAAAAATGTGTTGAAGACCAATGCTTCTTTTTTTTTTTTTTAAGCCACAATAAAACTATTTTGGT
GATGTCAAATTACAATTAAAGTTTCTAAATGCTGACTTACAATTTCTGAACTTACCTTGTTGGGAACTAGTGGCAACCAATACTGAGCTCTGAG
TAGCATTGGCTTAAGAGGTTTTGTTTGACTTTTTGGTTTTTGTGTGTGCTTAAGATTATTATTGCTCTTTTGTTTTGTTTGCTAGTTGCTTATT
GAACAGGAAGTGGGAGTTTAAATCAGAGCCTTCCTTCATATGACGTACAGCCTGTCATCCACAAATTTGTTTGTATTAATTAAGAAATGCATAT

GGTTCTCACCCAACAATGTGAGCGCAGACATTCTCACACTGTCTCAGAGAATCCCAGGAGAAGAGGCAGTAGGGGGAGTGGTAAGAGTGTAGGT
GGTTAGGGGTCCCAGGGTTCCTCTTTAACATACCCTTCTCCCTCTCAGGGTTAGGTAAAACTCTATTTATTGTAATAATATTATAATAAATAAT
AATGTATCATAAGTATAATAATATAATAATAATTTTTCCCTCCAAAAGGCAGAAATATAGATGGAAAATATAGATGGAATAACACTTCCTATTA
ATCCTTGATCCAAAGAATCCTTCAGGAATTTTATTATAAATAAATTTTGAAATAATATGGATCTACAATAGGGAAGTGGTTATCCATCTTCCTT
TAATTCTTGTAGAATGTTGCTTTGCCATGACTTATTTCTGTTTAGGCACATCCTGCCATCCAGATGGTCTCAGCTCTGACCCCAGCCCACACCT
CTCTCTGAGCACCAACCTCAGATCCCAACTGTCAACCAGATATTTTAATTTGGATCTCCTGCTGTCCTTCAAATGCGGCATGCCTGAAATAAAC
TTCAGTTCCACCGCTCCACCCCTTCCCCCAAAGAGACGCAACTTCCTAAATCTGATTTCTACCAAAAGTGCCATTACTTTACTGTGATTAATAT
GCTGGAGTAATATTTGACTCCCTCCCTGAATTCATCTTTCATAGGTGAGCTGATGCAGATGTCTACCATATTTCTCCTCTGCTTTTCTGTGCCA
GACTGGGTTAAAATCATCTCACACTTACACAATCATTTCATCTTCCTAAGTAGTTCCGCAACCCTCCCTACCCCATTACGCTCCCCTCCAAATC
ACTGTATGTACCAGACTCGTCTTTTAAAATAACACTGTAGTGCTATCAATGTTCTGCTCACAAAAGCCTTCACTGGCTCCACAACCCCAGAAAA
TAAGATCAAACCTCCTCAACAGGCTTCTAAGACCTTCTAGAATGTAGTTGTCCCTACGAATTCAGCCACATCTACAATTACTTCCCAATATAAA
CTCTCCACTCCAACCCAGGCCATTCTCCTCCCTGTCCTTCTGGCCCCTGACCCTTTTCTTCCAGGAGAACCCTAAGTTCTGCCTTTTAGGTGTG
TCATTCAGGACTAGACACAGTCCCAGCTCTGCCACCAACCAGCTGCCTCTCCCAGCTTACACCATGTTTTTTTCCTTCTCTGAACATGGCAGAT
CTTCATGCCTCATGTCTTGTCATAATTCACATCATAAGCCATCTGTTTCATGTAACATACTAGTGTCTAGTAACTTCCTTTTTCTTCTTTGGTA
CCCAACCTCCTCCTACTACCATCACCGCCACCACTATCACAAGGAATCTAGGGTTGTGCATATAATAGCAAATTTAAAAATACCTCATGAATCA
GATTCTATCAAAAAAAGAAGATGGAGAAAGAGGAAATCAAGGAAACAAAATAGGAGGAGAAAGAGAAAATATTGCTATGTTTTCTCTTCGATGC
TTGGGTATGCTGTGTGCTCATGCTATTGCTCAGATTTATAGACTATTTGAACTGAAAGGATCTTAAAAATCACTGGGTCCAATAATATAATGCT
GAATGTGAAGACTTATTAAAAACTAGAAATAACATATCTGGCCCAGAAAAAACAATAAAAGAAAGATGAGTATCATTTACCAGCTGTGTGACTT
TTAGAATGTCACTTGACCTCTCTGTTCCTCAGTTTCCTCATTTTTGAAGTGTGAATGATGTAACACTTATTGAGGAGCTAAATGAGATGATGTA
GGTAAAGCACATGGCCAATGCCTTAAACATGGTAAGTGCTTAGTACCTGTTAAGAAAAAGATCCCTGTCCATGCTTCGAAAACATGTAAATCAA
AATTTCTTGAAGGCTGGTTATAAATAATTAATTTATTGTTAATAATAAACTGTGAGATCATTTAATGGGGTGTTTCTATGGTCTGAATATTTGT
GTCACCCCAAAATTCATAAATTGAAACCTAATCCCCAAAGCGATGATATTAGAAGGTGGGGCCTTTGGGAGGTGAGTAGGTTATGAGGGCTCCA
CCTAGTGAATGAGAAATTAATGTCCTTAAAAAAGAGGCCCGAGAGAGCTGCCTTCCCCTTCTGCTATGTGAGGACACACAGTGGGTGCCATCTA
TGAAGAATGGGCCTTCACTGGACACCATATCTGCCGACCCCTTGATCATGGGCTTTCCAGCCTCCAGAACTGTGAGCAATAAGTTTCTGTTGTT
TATAAATTACTCAGTCTAAGGTATTTTGTTATAGCAGCCTAAATGGATTAAGACAGTTGCTTAATCCATGTAAGCATAGCTACATCTGTACCTA
TTTCTATGTCTACTTTGGATCATAATATAAAACGTATTTCTAACTGTGGGTCACTGTCAAACAAGTTTGAAGGCCATTGGATTATTAAAGTCCT
CCACTAGTAAAAATGGAGCAGCATGCCAAAACCTCATGTGGAATGCTAGGTGCTACTTTAAGAGCAGTTTTACCTTCCATCTTTTCTGGACCTT
GGTTTTCCATCAACGCCTCAGTCCTGCTAATGTTGTCTTTATTGTTCGTGCATCTGACATGTAACCCGGACCACTGTTGCCATACTAATTAATG
TAGAGAGAATTCCCTTGCATGGAGGCCTAAATTCTCCACACCTATGGTTAGGTCTAGCATGTGCTTTTCTCCATCAGATGGAATGCTCAGAAAC
CTTGAGGAAAGAGGAGAGCTTCTGATTTTGAAAGATGTTTCAGCTGGTAACTCTGTCTTGCATTTTGCAGTGATTCTGTCACCCACATCGTAGC
AGAGAACAACTCGGGTTCGGATGTTCTGGAGTGGCTTCAAGCACAGAAAGTACAAGTCAGCTCACAACCAGAGCTCCTCGATGTCTCCTGGCTG
ATCGAATGCATAAGAGCAGGGAAACCGGTGGAAATGACAGGAAAACACCAGCTTGTTGTAAGTGTCATGGGTGTGATTTTCACTGTTCTTTGCT
TGATGGTTAAGAACATAGGCTTAGGATCAACGGAGCTGGGGTAAACCCTAAATTCTCTGCTTACTACCTGTGTGACCTTGGGCAAGTCACTTAG
CTTTACTGAGCTTCAGTCTCTTCCTTTATAATATGACATAACGATAATGCCAGCCTCACAAAATGGTCATGAAGATTAGAACAACACACATGTA
AAGCGCTGAACACAATGTGTTGACTATAGCAGGCATCTAACGAGTGGTCGCTATTTTCCCGAACACATTTATACACAAATCTTTCAAAATATTT
AAGCCTTGATATTCTAGCAGCCAGAAAAGCAGGAGATTCCTTTTTTTCTCTCACTGTGATCATTCAGAAAACAAAACAAAACAAAACAAACAAA
ACAAAAAGTTAAGCTCTCAATTCCAAATATTTGAGCAATTGTGCTAAAATCTTTGGGAAGAGGGCTTGGACCATAACTACAGAAGTTCATAGAA
AACGAAGATGATATTTAATTGATAGGTCTTTTCATTTTTTTTTCTGATTTCAAAAATAATACGTGTTGATAATAGCAAGTTCAAATATTAGAGA
TGTATATAACATAAATTTTGAGTCTCCTATAATTTTATCCTCCAACTACAGACAACTACTTCCAAATTTTTTCCGTACATATCTGTTATTACTA
TTAATTTTTATTGAAAATGGATGCTTATGCATTTGTTTAGGTGAGAAGAGACTATTCAGATAGCACCAACCCAGGCCCCCCGAAGACTCCACCA
ATTGCTGTACAAAAGATCTCCCAGTATGCGTGTCAGAGAAGAACCACTTTAAACAACTGTAACCAGATATTCACGGTAACGGGACTTTACATCA
ACACCCAGGGCAAACGAAGGGCTTGCAGCTTCTTTCTGTGGACCGCAAATTAAATTATAAATTTTTCTGAAAACCTGGGAAAGTTTTCCTCCCA
CCTACCTGCAGCCCTAGCCTGATCTCTGATCCTTCTATCCTTCTTCTTTCTATCGAGACTGGGTCTCCTTCCTTCCTGGAAATAGACAAATACA
TTTAGGTTATATTCTTTAGAGACAGCGGATTACTATTTACAGATAGTTGTCATTAATGGGCGCAACACTTGTCAAAAGCAAATATTCTGAAAAA
ACAAATACTGGAATTAGTCCAAAACATAGTAAGAGCAAATTACATAGAAATGGTAACAATACATCAACAGCTTTTGCTGGGAAACCAAAAAATT
GAGCAAACCTAGATTCCAGCCTTTCTGATATTCACTAGTTTGGGCAAGTCAATTTCTCTCTCTGAGCCTGTCTCCTCATCTATTCAAAAAGAAA
TTGGATGGATCATATCTAAAGCTCCACTCAGCCCTCAGATTGGTAATTGTGTTTTGAATGGCCCTAAAACCCACAACTGCTTGTCTGCTAGCCT
AGAGTCAGTGGTTAGCTGGATGAAACATGTAGTAGTAGATCAATACAGAGCTTCTCATTTCTAGACTTCCAGCTCCATGTCTGTGTTGGAAAGA
CTAGGAAATTGTAGCTACTGGATATGCTGAGCATGAGATCACACAGCTACAGCTGCTTCCTCCCCTGCTAGAAATACAAACGTGCCCTACCTTA
AATAATCCTGGCTCTGGGTCTGTGTGACCTACGACTACACTCATTCATTCAACAAGCCTGTGTTAAGTGCTGTGTTTCATGGGGCTGCTCAGTG
ATCAAGGCAGAATTCTAGCCACAGGCTAGTGGGAAGATAGTACAGAAGGAGGGATTATGCTGAGTCATGACTAGCAAGATGCTGTGAGCACCAA
AGCATTTTTTAGTTAAATCATCTGTGAATGTTTAATAGCAGTGTACTCCAAGTTTCCGCATAATGCACTCTGGTACCTGTCTTTTCAATTCAAC
TCTACTCCATGACACCAGAGAGGCATACAAGGGTATGGGAGACCCCATCCTGACCTAGAAGGAAACACGCAAGTGGTATTCCAATATTTAAAGG
AGAGCAAGAGGCGTTTGTGAGTGACCACTGGCTCAGGGGCTTGGAAGCAAATCTCCTGCTTATCTGGTTTTATCCTGCAGGATGCCTTTGATAT
ACTGGCTGAAAACTGTGAGTTTAGAGAAAATGAAGACTCCTGTGTGACATTTATGAGAGCAGCTTCTGTATTGAAATCTCTGCCATTCACAATC
ATCAGTATGAAGGACACAGAAGGAATTCCCTGCCTGGGGTCCAAGGTGAAGGGTATCATAGAGGTAAGGGTGAAATGGGATTTGTCCCACTTCC
CAATAGGTAGGTGGGAACGGGGGAGAGAGGGATGTAGCTAACAGATTTTCCTGTCAACTATGTAGATGTGGTGTACATCACAAATTTTCCTTTA
TACATATTCCTCTCTCTCTCCTCTGTCTCTCTCTCTCTCTCTCTCTGTTTATTTTTATACACATACACACACACATACACATATATATATGTTA
GGGGTTGTGAATATCCTAGTCACATGGCACCAAAATACGTTAGTGGTGGCAGGTGTCAGAGTTACCGATAGTGAATCCGTTCGGGTCTGCAGCA
ACCCCAATTATTGCTTCCGCAGAAGAAAGAATTCGACTGGGGGGCATAAGGCAGAAAAAGAGACTGAGGCAAGTTTCAGAGCAGGAGTGGAAGT
TTATTAAAAAGCTTTAGAGCAGGAAAGAAAGGAAAGTACACTTGGAAGAGACCCAAGTGGGCAACTTGGAGGACAAGTGCAGCGTTTGACCTTT
TGACTTGGGGTATATGTTGGCATACTTCTGGGGTCCTGCGTCACTTTTCCCATGATTCTTCCCTTAGGGTGAGCCACCCGCATGCACAGTGCCC
TCCTTGTGCTTGGGAGGGGAGCATGTGCAGTGTGTCTACTGGAGTTGTATGCATGCTCACCTGAGGCATTCTTCCCTTTTCCGGTGGAATGCTC
CGGAAAGTCATACTCTGCCATTTTGTCTCTTAATGTGCATGCTCATGCCCACTCGCCCAATTCCTGAGATTTTAATGGAAGCTGCTGATTACCA
ATTTCAAGTGTTTTTATCTATTGGGAAATTGCCTCTCCCTGGCGCCAGTTGTGACTAATCATTTTATAGGGTGACAACTGCCAGACCATCACGG
AATTGCCTCTCTCTAGCACTGGCTGCAACCAATTATCATTTTAGAGAGACAGTGTGATAACTCCTGGACCATCACCTGATGGTCGCCTGACATT
CCTGGTTTGGAGGGGGGAGCCCTCTCCTGCCCTGCTCATGCCTGACTAGCTACCTACTCTAACATATAAATAGATACAGACGTGTTATTTATAA
TCCATACCCTAATATTATCACAGCTGGAGCTACATGGAACCAGCTAGTAGAAGCAGAACTCTCCCATACTGTTATTAATCACAGTGAAAGACTC
AAGTGGCCTAAATCTTGACAGCAGGGAAATGGTCTGATTTCCCTCAGTTCCACCTGGGGGCGCCACCTTAGAGCAGTGGTGCGTTTGACATGAA
GTGGAGGTGGTTCTACACCTCTCCAGGGAGAGCGCCAGAGGTTGTGCTTATTTACTGAACGGTGTTTAGGGATTCCCCAGCAAAGCAAGTTGGT
CATCTGGTAGTAAGTTTCTGTATAGTCAAGTGCAAGGTATATTATTCAAGGACAATTATCCCAACTCTACTCAGAGGAAGGGGGCTCTGAGCTA
GACATCACAAGGGCTTGAATGTAGATTGGCTTTTTGGTGGGTCCAAAATTAACCTTGTCAATGGAAAAGTCTTCTTATTTCAGTAAGGTCATAT
TCATTGAAGAGAAAATTATCACCAATATTTGGACATACATTTTTCAGTGAATATTTTGGTTTGGGATTCTGTAGATCTGGATCCTAACCATTTG

TATCTTTGTTCCTAAGGATCGTAAAGGGGTCCTTGGATATATGATGAGCTAGCATTTTCAAGATTGTAGGGAAATGTCTTGTTTTCTCCAGATC
AATTAGGGAAATACCCCTGCATGTGATGCATGCACATTTCATGAGAAACCAAACTACTAGGTCCATGAATTTGAGAGTCTTAGACAGTAATTGT
CCAACATCACTAATTTAAAATATTTTTCAACTGTCCATTAGGAGATTATTGAAGATGGAGAAAGTTCTGAAGTTAAAGCTGTGTTAAATGATGA
ACGATATCAATCCTTCAAAGTAAGTGATTTTACATATATTTATTGAAAATGGTTTTTCAGTTAATCTTATTACTTATTCTGGCTGGTTGTATTA
GTCAGCTTGGGCTGCAATAACAAAATACAGAGATGGCGTGGCTTAAACAACAGAAATTTATTTTCTCACCATTCTGGATCAAGATGTCAGCAGG
GTCAGTTTCTGGTGAGGGTTCTCTTTCTGGCTTCTTCCTGTGTCCTCACATGCTCCCCTGCTCACATGGTGAGAGAGAGACAGAGAGAACAAGC
AATCTTTCTGGTGTCACAAAGACACTAATCCTGGGCCGGGCACCATAGCTCATGCCTGTAATCCAAGCACTTTGGGAGGCCAAGGCGGGTGCAC
TTGAAGCCAGGAATTCGACCAGCTTGGCCAACATGGTGAAACCCCATCATTTTACAAAAATACAAAAATTAGGTGTGGTGAGGCATGCCTGTAA
TTCCAGCTACTTGGGAGATTGAGACATGAGAATCACTTGAGTCTGGGAGGCAGAGGTTGCAGTGAGCTGAGATCACGCCACTGTACTCCAGCCT
GGGTGATAGAGTGAGACTGTCTCAAAAACAAGACAAACAAAAAGACACTAATCCCATCATGAGAGCCCCACTCTCATGACCTCAAAGGCCCTGT
CTTAAATACGGTCATACTGGGGATTAGGACTTCAACATACAAATGGGTTGGGAGGGGGAATTCCGTCCATAGCTTTGGTCTAGGAAGAAAATGC
CTAAATAAATTCAGGTGCCCAGATTATTGCCATGCTGTCGTGATGTACAAATTGCCTTACCCTCCAAGAGTCTGTCACTCATGGGTACAAACAT
CATGGGACATGAGGACCATGGGGGGGTTGGTGGGGACAGGACGGAACTGCTCTTAAAGAGCAGATTTGTGTCTGAAAATCTCCTTACTGCATCT
TCATTTACTTGGAAGCAGGGTTTATTACCTCCCAATTTTCCCTACCTTAGAGTTGCAAGTGGAAGGGACTTCCACCAGTTCCTTCAAAGCAAAA
GTGATGTACAGGCCTAAAATATGGCCATGAGCAGGAGCACAGGCTTGGAGTGTAAACAGACCAGGGTTTAAGTTTGGGCTGTGCCACTTCCCAC
CTGTATGATGGTGGAGAAACTATATAACCTACATGAGCATCTCTTTTCAAAATGTGAGGGTACCTATGCAGAGCATGAGTGTCGGTGAGAGACC
CAGCAAAAGGGAGAGCCCTATAGAGCTAGCGTATCACTCATGGACAGCACAGGCAGGCCGTCAATTAGACTATACCTTAGCCCTGCACAGGTGC
CAGAACCTGCTTGTTACTTCTGTTTCATTTTGTAATGCCACATGTCAAGAAAGGACTCACCTGAAATAAAAAATGCCCTTAAAAATAACCATCA
CCCACCTGCTCGTTATATTCAGGAGAAACTAGGTCAAAGATTTGCTTATACTTTTTCTTCATTGCCTGAGACCTAGAAAGGGTCATGACTCGGA
TGTTATAATGATTATCTTAGAGACTGATGGCATGCCTTTCCCTCCATTTTAGCTCTTTACTTCTGTATTTGGAGTGGGGCTGAAGACTTCTGAG
AAGTGGTTCAGGATGGGTTTCAGAACTCTGAGTAAAGTAAGGTCGGACAAAAGCCTGAAATTTACACGAATGCAGAAAGCAGGTAAATTGTCTC
TCCTAAAAGTCATTGTTGCTATGGGCTGGTCGGGTCGTGGTGGAGCTCTAAGTCAGTTACACTGCAACTCCAATCTGGGAGAGCTGGGACACTT
CTTTGATGTCCATTGATGCTTGGATCTAAATCCTAGCTCCAGCAGTTTCCAGCTGTGTGATCTTGAGCAAGTTGGTTAAAACCTTTGAACCTTA
GTTACCTAATCTATGAAAGAGAGATAACATTGATACTTAGCTGAGAAGTCAATCAGTTAATGCAGGCAATGCCTCAGCACTGTGTCTGACACAG
AGCAAAGGCGCCCTCCACTGTGGCTGTTTGTGGTCCTTCACCCAAATGTCAAGCCAGGTTGTGCTGCTGATCTGGTCCTTACTGACTCTTCCGG
ACATTGGGTCCTGGCTGTCTCCCTGGGTAAGAGTTGTGGGTGAAGAGTCAAAGACAGAAGGGTTGGCTGCTAAGAATACTTGAACAGAGTTGTT
GCCTGGCACAAATGTGAAGATGCCCTAGAAACTGTAAAACACCAGGAAAATAGAAGGGAACTGGTGGAAATCTAGGCACAGGGTTGGTATACCC
AACCAGGACTCTTTAGCCTAAGACAAGACCGTGGTGGGACATGAGTGCTGTCATCACCCACCTGGCAGGGCCTCTCAGAGGTTGAA
GGTAGCCTGGTCACTTCCATTTATGAGGCTCCCAGTAAGTTTTTTAAAAATGAAGGAATGGCAATACAGTGTGAAAAAAACTGTGTGTTTAAAA
AAATGTTTACTTTTAACAAGCAATAAAAATACAATACAGTTGTGATTCAAAAAGGAGTCACAGCCATAGTCCCTACTCATTTTTTGTAAAGTTG
CTAATCTTTGAAAGATTGCTAATAATACAATGCCACATAGGAAATAAAAGAGTCTAAGAAAAAAAGATCCAGTATTTATATTCCAGGACCCTGA
AAGCACACGTTTAATAAGGATGATTTACACCAGTTCTCAAGATGCCATTCAAAAGAAATTTAAATAAGTATTAAACATAAGTAGCAAGTAAATG
GTTTGGAATGATGAGTAAAGACTCTCAATGCTTAGAGAGAAATTGGGAGGCAATATAGTGTTTCATTTGGATGAAACCCTTATCAAATGACGTC
CAGTGCTCTCAGGATCTAAGGGCTTCCAATTCCCTAGCTTTGTAAACTGGATTTTTGTTCTTCCTGTTGAGCTTTTCCAACCCTTTGAATGAAA
CAGCTTTATTCATTTAGTCAATCAGTGATTTCCATCTAACTGTTTAATGCTACCAGTTCTATGCAGAAATCAAGGAATGCCCTCCCATTATACT
TATACCCCCACAAGTAGTTATAGGCACCCCTTGGAGCAGCACTACAATGAATGGAATTGCCAATGGGAATAGCTTAGAATACTGTGAAGGGTAA
GCTAATTGAACATATTGAAAGGACAGTTCATGGTCAGATGGATAACCTGATCCAGTTTTACTCATATTTGCACTTGATTGCAGTTCCCTGAGGC
TTGAGCGTGCACATGCCACGTTTGCCTTGAAAAGTCAGTTTATGAACTATAGCAGCACATATTTAACCTTATACTGTGTGATAAGTTTCCTGTA
ATAAGTTAGTCGCCTTGCCATACCAAAAAGGAAAGCCAATTAAATTACTTTCATGGATGTCAACAAATCATCATAGTCTTACATGTTCATTCCT
GATAGCTGCACATCTTCTTAAAGAAATAGTTGTGAATCCTGACTTTTGGATCGTGTATATCACTGCATAAGCACAGGTGTTTGTGGTTACCCAG
TGAGTTGTACTTTGAATATTAGTCATGATGACAGTTTCTGTATTACAGCCTAATAGAGCATTGCTTCTTAGATCAAACTCCTCATGCTCACAAA
AATGGCCATGTTGCAATAATTTTTAGAAATGTGGCTTTTTAATAAAAATAAAAAATAAGTATCATATTGAAATAAAGAAAGTAGTGTTCCACAA
GTGGCGTGGTTTGGTATTGGACACAGTTTATAGGTGTATTCATATGAATACCATTTTCTCTTGGTCTTGCCAGCATGTTTCCGTGACTGTCCCC
ATTAGAGATAACATGGGAAATTTGGCAGGGTGTGCAAGCCAAATGGCCACCCTGCTGCCTCCCTTCCACAATCCCAGGGTGAGAAACAAGGACC
AATAGATTTACTCTTGTCATTTCAGAGGGCCAGTGGCAGGTGAAATCGCAAAGAAGTAGACTTAGGCTTTTCAAAAGAAAGAACTGGCACAACA
GAGTTTACAATTAGGAAACAGGCTCCTCTGGAGGTATCAGAGTTCCCCATTATTAGAGTCAAGCAAAGTTTGAATGGCCCCCTCTTGGAGACCC
TAGATAGGAGAGCAGCGATGCTGAAGCATGATTTGATGTCCCTCAGGCTCTATGGATCTAATCACCAGGCTCATCTCCTCACCAATACTTCACC
CCAATCCTTGGAGATAAGCCTCCCTTCTCCTTTCCTCTTTCTTTCCAAATCTCCCTCCACACTGCTCTGTGGGAACCACCAAGTTAGCTTTTCA
TCATAACAACTCTGAACTTTCATTAATTCATGCTGGTCAGGCAAAGAAGCAACAAGCTAAACCACCTAAGATATTTCCTGCCTTGCTTCAGACA
CACATCTACTCTGCTCCTATTCTTGACTTTAATTTTTTAATGGATCCATCACCTTCCAACTCTAAATCTCCTCATCCCAAATCTTTATGCGTTA
CCTTTTAAAAAACAGTAGGACACAGCCTATTGATCAAGAAGGCTGGTTCTTCAGTAGGAAGTCAGATCTGAACAGTTTGGATTCCAGAGGGATG
TGAAATATTGTCTCCTTCTCAGGAAATTGTAAGCCTCTAGGTTAGAAAGCAAAGAACCACTGTTACCCTGAAAAATTCACAACCAGGAGAACCA
CATGGACTATTCTGTCTCTGTGGGAATGGAGTTTGGTGTTGATGCCTGTAGTCATGTTAGCTCTATCGTGGGGACAGAATCCCCTTCTACTGAG
GGCTGGTTGTTTCACACACGTGTCACTCTCTCCATTGACCTGTCAAATGGCCTCTCAGGATTTCTGTATTATGAAGACCTTGTCAGCTGTGTGA
CCAGGGCAGAAGCAGAGGCCGTCAGTGTGCTGGTTAAAGAGGCTGTCTGGGCATTTCTTCCGGATGCTTTCGTCACCATGACAGGAGGGTTCCG
GAGGTAAATAACTTGGGTGGCTTTGCCTCCTCTGCCCGAATACTTCAGTGGCTCCCTGACTTGGACAGGCATCTGAAACGGCACAAAAGGCTGT
GATCTGGTGCCAGCTTCTTTCTACAGCTTTATCTCCTGCCTCTCACATTTCATTTCAGCAACCCCAAATGGCTTGTCATCCCCTGCACATTCAG
AGCTGTTTCTTGCCTGTTGCTTTGCTTACTCAGACTTTTCTGCTTTGACTGCCATTCCTCAAATTGTCGCTTGGCTGACTTCCCCTCATTCTTT
AACACTCAATTTAGATGGCACCTTCTCCAGAAAGCCTTCCTTGACTCCCTCTTTCTCCATGCTGGATTAGTGCCCCTCTTCCATGCTCCCTGAG
TACCTGCAAAGCCCTTGATCCACATAGTTACAGTGATTTGTTCCTGTGTGTGGTTTCTCCACTAAGTTTGTAGAGCTTAGTTCTCAGCAAGACT
AGTTCATGATGCCTAGCACAAAGTAGGTGCTCAAGAAATCTTGGTTGAGTCAATAAATGACTGACTGAATGAATTCATGAATGAGTGAACGCTT
CACAAGGATGTATGTTGTTGTTGGATATTGAGGCCTGCATTTCAGAAAGGGATTTCTTTCCTCCCACAGCCTCCTCTACCTCTTTCTCCAGCCC
TCTCACCTGGTGGCTTTTGGCCATCCTAACAAAATAGGTTTGGGGCAAGGAAGAAAGTAAGAGAAGATCAAATCTAAGATAATGCCTTTACTCC
ATGTCATAATTCCAAGAGCGCTACCTTGTATTATGTGAATACAATTCTTAGTTTGCTTGTTGTCATGCTTGTCTCCATGTGTGTATGTGTGGGT
GCATGTAGGTTTGTGTGAGTGTGTAGAATAAATAATTTTTTTTGTTATTTTTTGCCTTGATATACATAATCAGATACATGCTATGTATGACTTTT
TCTGTGTCATAAATTTATTTTGTAAGGAACAGCGATGTGTAACCAAGGATATTTGTTTCTTAAAAAAAAGTCAAGAACCTTCTATGTTGCAAA
TCTTAAGCATAGGGCATAGAAACAAAGGTGATTTTTTAAAAATGAAGACTAATATCTAATTGATTTCCATTTTATACTGCTTTTGAAAATTAGG
GGTAAGAAGATGGGGCATGATGTAGATTTTTTAATTACCAGCCCAGGATCAACAGAGGATGAAGAGCAACTTTTACAGAAAGTGATGAACTTAT
GGGAAAAGAAGGTGAGAAGAAAGATGAAAAATACATGCACACGCAAACATTATGTTAACACTTGAATTTTGCACATTACTTGCCTTATAATTGT
GTAATGACCATCTAATCAATTCTCAATTATTTGTGGCAGCTTATACAAAGCCATATGACCTACAATAAGACTTTCCTGTTTTGGGTCCTAGAGT
ACATGTTATGAATATGTCCTGTATCTTGTTTATTATACTTACCCTATTGCCAACAGGGCCAAGGGTGGCTATGCATTTGTGTTTGACATGCAGA
GGCATTAAAGCACCCAATCAAAGTGAAAAGTATGCACTATGAAGACCTGGGAAATGTAAGCTGGAAAGCTGCAAGCTTGGGTGAGGGGGCAGGA
CTGCAAAGACTGGGATAAAATCAGTCTAAGAGGTGTTGATAGTGCCTCGATAGATTCGAGGCACTTCGTGCTGAGATGGAATGAAGGAAACTAA

TGAGGGCAAGCTGAGCCCTGCAGAGGTCATGGCTCAGAAGCCCCCATACATTGCAGAGATCAGACTTGTGACAGGCCTATTGCCTGGTGGAGGA
AACCAAAGTAAGCTAAGCTAACCCTGCAGCCAGAGCCACATGCAAGCCCTGACTCCTGTCCAACTCTAGTGAGAGCCTCACTTCCTAGAGAGAC
CAGAGGGTCCTACCCTTGGGACCTGTAGATAGGTCTGGCTGGGCTGGTGTTTCTCCTCACAGCTTCCTCCTTCCTGAGTAGTTTGCATCTGTTT
GGTGTGGACCAAGCTTACTGATATCCCAGAAAAGGAAAACCTCAGATAAAGTGAAAATAAAAGCTAGAAACACAACCCTAGGGCCAGGGGCACT
GGAAGTGAAGACTCAACTTTAGAACCAGATCCAAACTGACACGAGTTTGAATACTGGGCGTCGAGTCTTCCCAGAAGGAGTTGGAGGGAATTAG
AAGCGAAGGGCAGGGAAGGGATCCTGGCTAGAGAGCCTCACACTCAGCCTTGCAACCCTCCTCAGAAGGCACCTGAGACTAAATTTGGACGGAG
CCTTCCTGTGGGAGGTCAAGCTGAGTGCATCTCCCTCCTGCCCCACAGCTCTCTTCCTGAGAACTGGCCGCTCTGTACCCTGGGGAGGATGGGA
AGGATGGAGAGGTGGGGAAATGCCTCCTCCTAGTCAGGAGTTTCTCAGTGTCCAGTAGGAAAAATAAAAGAACATGCTGATGTCAATATTCAGT
CAACCAGTGGGTATTGATGGGGAAGCCAGAGCCCAGAGGGCTGCCCTGTAGATAGCCGGGGCTGGAGATCTAGAGGTGGCATCAGGGGTTGTGT
GCATGTTTGACAACTGTGGCCTGCTGCAGACAACCTTCTGAATATGCAGACAGGAGCATTACGTTCAAGGATGCATTCTCAAACACCTTGCAAA
ATTCAAGACAAAACCCAATAAAGAATGGCCCATTTCTCTCTTACCCACCAAGTGACTGTTTACTGTTAGGAATCCAGCTTTGTGGGCTTTTTTT
TTTTTTTTAAGGGAAGGTGTGTTATTACAAATTTGGCTTTCATGTGAGACTTGTTCATATGTTTTATATCTCCTTTTTCAAATTTACATAATTG
AAATTTACACAAAAGGCTGCTATTCTGTACTAGTTTCAGCAAGTTTCCTTAAAAAGTGGAATTGTATTTTCCGGAGCTGGTGATTCGAGGTTAA
CTACGGCAACATCTACCACCTCCTCCAGAGGTTCTTCCTAACATTAGTGCTTCCCCCTTCAAATGGTGTTTTTTCTTCAAGGCGTTGAAGGGTG
AAGAGTTCCCTCTATTGAGGTCAACAAAATAAAAAGTATCTTTTTGAATTGAGATAATGTCTTGTGCAGGTTTGTAGAAGAAAGACAAAGCATG
ATTCCTAACAATAATCAATTTACCAATGATGCTCAAAGTGTGGTCCCTGGTCCGGGAACACCAGCATTGCCTGGGAACCTGTCAGAAATGCCCT
CCCTGCCCCTCCTGCATCACTCTGGGGACAGAGCCCTGCAAACTGAGCTTTAGCAAACCTTCCAATTGCTTCTGATGATAGCGCTTTTAAACAT
CTAACCTAAAGAGTACATGGTAACAAATCACACATCCCAGTAGCTTGATGACATTATTTGAGGGTTACTTGCTGTTTTTGTTGCCAGATTTAGT
GGTTGCTAGCACGTTTCTCTCTCCTGTCCCCACATCTGCCCTGTGCCATCAGGAACTCCCACCAAGAATGGCAACTCGATTGGGCACATCTTAG
AATCACTTGTCCACTTTCTGGATAGGCAACTTTAAGTGAAACATGTGTCATTAACTTTATCCCACTTTCTCCAAGGCAGGTGGACTAACACTCT
CATGAGAAAGAGTCTCCCAAGTGCTACCTAGAAATAGCAAGTCATCTTGCCCCAAAGTTAGACTCAGCCTCCAGCCACAACGCTTTTGGCTGGT
TAAACCTGGTCATCAGTATAATATGAAGGGACACTGTCTTTGTCCATTTACCTTGCTATAAAGGAACACCTGAGGCTCGGTAATTTATAAAGAA
AAGACGTTTACTTGGCCCATGGTTCTGCAGGATGTATAAGAAGCACGACACCAAGCATCTGCTTCTGGTGCGGCCTCAGGGGGCTTACACTCAT
GGCAGAAGGCAAGGAAGAGCTGGCAGGTGCCGAGGTCACAGGGTGAGAGAGAAAGCAAGACAGAGTGGGGAGGGGCCAGGCTCTTTGTAACCCC
CAGCTTTCACGGGAGCTAACAAAGTGAGAACTCACTCATTACCATGAGGATGAGGACGGCACAAGTCATTCATGAGAGATCTTCCCCTATGACC
CAAAGACCTCCCATTAGGCCCCACCTCCAACATTGGGGATCAAATTTCTACGTGAGATTTAGGGGGACAAACATCCAAACTATAGCAGACACTA
ACTCAAAGCTGCTCCCCAGAAACAATATGATTTTTTAAGTTTTATTATTTATTTATTTCTGAGACAGGGTCTTGCTCTGTCTCCCAGGCTAGTG
TGCACTGGTGTGATTACAGCTTACTGAAGCCTCAACCTCCCAGGCTCCAGGGATCCTTCCACCTCAGCCTCCTGAGTAGCTGGGACTATAGACA
CGTGCCATCATACCTGGCTAATTTTAAAATTTTATGTAGAAATGAGGTCTTATTATGTCACCCAGGCTGGTCTCAAATTCCTGCAGCGTGGCTT
TTTGTTTATGGTTGGTTTGTTTTTAAAGGACTGAGGAGAGCCCAGAGCACTAGCTGAGGTTCAGAAGTGGAGAGGGAGATTTTCTTGCAGTTTT
GCCATTAAGTGGCTTTGCTTCAGCCTCTCTCATCGCTAAATTCCTTTTCCGTAAAGGGAAGATAATGCAACCACTTTCTTAGTGTTTTCTCCTA
GTGTTTGCAGGTGGGCCTTTAATGCAAGGCCAAACACATGTCCATGTTCTGCTCGAATCTGAAAAGATTTCATTAAGAATCCAGTGTTAAATCA
TAGATCTTCTTCATCAGGGCCTTTTCCTGATGCCATTCTGTTTCTTTTCAGGGATTACTTTTATATTATGACCTTGTGGAGTCAACATTTGAAA
AGCTCAGGTTGCCTAGCAGGAAGGTTGATGCTTTGGATCATTTTCAAAAGTGCTTTCTGATTTTCAAATTGCCTCGTCAAAGAGTGGACAGTGA
CCAGTCCAGCTGGCAGGAAGGAAAGACCTGGAAGGCCATCCGTGTGGATTTAGTTCTGTGCCCCTACGAGCGTCGTGCCTTTGCCCTGTTGGGA
TGGACTGGCTCCCGGGTAAGTGCTACATGGACCCATGGGATGATGTTAGCTTTCTGAAAGACGTAGGCCGAGTCTACCTGGGCCCAGGGGAGAG
ATGACGGCAACAGGGGCTGGGTGACAGGGGAGGGGCCAGTACCCAGAAACCTCTAACTCAAGGCATCCTGTCCACACATGGCCAAGTATGACAG
ATTAATTTAGAACAGTTATTCCCAGTGTGTGGTCCCCAACACCAGCAGCAGCAACCTTACCCAGGAACAGGTTAGACATGGAAATTCTTCACCC
CACTCCAAACCTATGGAATCAAATCAGCATCTCTGGGGATTTCAGCCCAGAAATTTGTTTGGAAAAGGCTTCTAGGTGTTTCTGATGCAGCTCA
AGTAGGAGAACCACTGAAGTACAGAAACCAGCAAGGGGATTGAAATAGGAAACAATTAATAAAGTGGAGAGGCAACTCACAGATTGGGAAAAAA
TATCTGCACATCATACATCACATAAGGGCCATTATCCAGCATATACAAGGAAACCAAAAGACTCAATAACAAGAAAACAAATAATCCTATTTAA
AAATGGGCAAAGGACTTGAATAGATATTTCTCAAAAGAAGACATATAAATGGCAAGCAGATATTGCCATCTTGCTTAACATCTCTAATCATCAG
AGAAATGCAAATTAAAACCACAATAAGATGTTATCTCACATCCGTCAGATTGGCTATTATCAAAAACATGAAAGACAGCAGGTGTTAGTGAGGC
TGTGGAGAAAAGGGAACCCTCTTGTATTGTTGGTGGTGTTGTAAATTACACATTTTGGAAAATAGTATGGAAGTTCCTCAAAAAACTAAAAACA
GGGCTACCATATGATCCAGCAATCTTACTTCTGGGTATATAGCCAAAGGAAATGAACTCAGTATGTCAAAGAGAGGTCTGCACTCCCGTGTTCA
TTGCAGCATGATACACCATAGCCAAGATATTATATAAAAACAACCTAAGCATCCACAGCAGATGAATGGATTTTTAAAATGTAGTATATGCACA
GTGGAGTATGACACAGCCTTTCGAAAACAGGACATTCTGTCATTTGAGACAACATGGTTGAACCTAGAGGACATTATGTTAAGTGGAATAAGTC
AGGCACAGAGAGACAAATACTGTATGATCTCGTTTCTGTATATGTAGAATCTAAAACAGTCAAACTCGTAGAAGTACAGAATAGAATGTAGAAT
GGTGGTTAGCAGAGGCTGGGGGATGAGGACAGAAAATGGACAGGGAAAAGGGTCAACAAGTACAAAGTTCCAGTCAGACAGGTGGAATAAACTC
TGTTCTATTGCACAGTATGGTGACTATAGTTAATAAAAGTGTATATTTCAAAGTAGCTAAAAGAGAGGATTTTTAATGTTCTTACCACAAAGAA
ATGGTAGATGTTTGAGGTGATGGACATGCTAATTAGTCTGATTTTATCATTCTGCAATGTATATAGATGTATCAAAATACCATATTATAACCCA
CAAATGCATACAATTATTATATGTTAATTAAAAATAAAATCAAGCTATAAAATTTTTCTGAAAGAGCACAAGTTGAGTTCATCCCAGACCTGGT
TGCAAGCTCCTGCTCTGCTTCTTGCTGTTGGGTGATCTTGGACAAGTTCCCTATATCCTGTAAAACTCAATTTTCCCGTCAGGAAAATGAGGAC
GATGACCTTAGCTACTTCCCTGAGTTGCAGAGACATTAGGTGACATGATGTTCTCAAAGCCTCAGCACCAAGCCAGCACGTGGCCAGTACTGGA
TAAGTAGTAGCTTCCATATCCTGTCACTCACAGGAGAGGACACCTGTGATTTGAGTCCCATTCGCATGTGTTCCACCCTCCCAACTAAACACCT
CACCCTGTTTCTCCTGTTTTCCCAGGTAGCTGGTTGTTGCTTTGAGTGAAATGGGTTCGTAGAGGGTTTTTTATACAGATGAATGACACAACAC
AAATTAATTGTTCTCAGCCGTGGGTTAAATGTCAGGTGTCTTTGCTTTGGACTGGAATTAATTCAGCACAGCATCTTAGCACTGGGATTTCTTA
CTCTAATCACAAATGTTGACTGACAACTAAATGCTTTTTTCATTCCTAAAAAAAGGGGAAGAAAAGAAAAAATATACCATAAATGCAACTTGTC
TGATAGACATAAATCTTTGGGAACACATAGTTGATTGAGAAAGGGGAACGTTCCAGAAAGAAGTCCTTGGTTATGCAATGTCATGCCAGTTAAG
CATCACTGGCTGAAGTGGTTGACATTTGCCCATTTTATTTTTAAGATGGACATGTTTTCAACACATTCTAGTCTGTTTCCTCAGAGTACTCAGA
AATTGTTGCTGTTGGTTCTGCAAGGCACTGGCAGAGCACTAAGCTCTTTTGCTTTTTAGCTGGGTGACTTTAAACAAATAAAGGACTTCTGATT
GCAAAGTCCATCTCCTCAACCATCCCGGGTGAGCTTTCCTAAAATAGCAAATTGTTCCTTACCACTAGAGGGCACCAGTATCCCAGGCTTGCTC
CCTACTCCCACATGAAGAGGACAAAATTTCTAGATTGTGTTTCTCTCAGGAAAACTAGTCTCCATGACAATTCGTTGCCCTCCTTTCCCAAGGT
GTTCCTGTCCTCTGTCTTAGGCTTCATGTATTGCTCCCTTCAGTCTCAGAGCCCATTCCTGACTGTGGGAGATGTCATCCAGGAGCAGTTGACT
TAGACGATCAGTTTCATGGCATCTCAGTGTGAAAGGATGTTAAAGCCAGAGGGAGTCTTAATCATGTCCTTCCTCCATCCTTTCATTCACTCAA
CCAAGACTCAGGGAGTCTGGATGACTTGACAGGAGATGCACAGCCAGGTAGGGACAAAGTCCAGGCTGGAACGGGTTCCCTGACTCCTCCATCC
TCTTTTACAATAACAATATTCCAAATCATGTAACACCCACCAAACTAGTATTTATCCAGCATTTACTCTGGACCAGGCATTATCCTGGTAGAAC
GCTCACGCTATTCATTTATTCATTCAATAAAACATTTGCTATACATCTTCTACATGCGAGGCACTATTTGAGGGAATACAGTTGTGGACAGAAC
AAACCAGGTTCCTGCTCTCACAGAGCTTACATTCTAGTGTGTTCATGGGAGCACGGACTTCTGTCACCAGAGAATTTGGCCCTGGGGGAGGAAA
ATCACTTTGAGAATGTTTAGTGGAGTTACATATTTCACTAGAGGGATGTAGCCACCTAATACTGAAGACATTCTAGACGTGTTAATAATTTATT
TTAACTATCTCCTATCCAGCAGTTTGAGAGAGACCTCCGGCGCTATGCCACACATGAGCGGAAGATGATTCTGGATAACCATGCTTTATATGAC
AAGACCAAGGTACAGTTCTCTTCCTAAAAGGGGCTACTTTGATCCTCATCCCCAAGGCTGGCCCCCGAGCTCTTTTCATGGACTGATTTTAGTA
TCCAGGTATGGTTTCCTTTGTCATGCGTGTTCTATTTCCAGTTCATCATAGTTGAGGGCAGCAAGAAAGATTTCCACAGACTCGCAGTTTCCAC

CCGGCCCAGAATGCAATTCGAGAGATTTTGGCTGAAACATGATGAGCTAATTGGGCTTCCAGAACAAGTCCAGCAGTGAACATTAACTGGGTTT
GGTATATCCTCGGTGTTGGCAATGAGTAACTCCAAAGTAAACCAGGGATCCCCAGAAATCACAAATACTACTTGTGTACCCCTCAAATGCAGGG
GGCAGTGGCATTTTGAGTGGCCATGTAGGCCATTAACAACAGTCTCCTGCAAGAAAGAGAGCAACAGAGCTGCCCTGAGACATAAATGAGCATC
CAGCTAGTCTCATTGACTACCCATGTCACTCATTTGGTGTGCTAGTCTTACTGTGGTCATGATCCAATTCATCCCTCAGCAAAACGATAGATGC
CTGTAGAAGTTAGAAGAGTTAAATATCCAACTGTTAAATCCACAGTTCTAAGGGCTACTCTTCTTACAGATATCAAGGACACCAAAATAGGCTC
CATGGGGAAGAAAACTCAAAATAACTAGAAGTAATGGTAGTGGCCAGGCGCAGTGGCTCACGTCTGTAATCCCAGCACTTTGGGAGGCCGAGGC
GGGTGGATCACTTGAGGTCAGGAGTTCAAGATCAGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAAATAACCAGGTGTGGCGGCT
CGCACACACCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGCAGAGGCTGCAGTGAGCCGAGATCACACCACTGCACT
CCAGCCTGGGCAACAGAGTGAGACTCTGTGTCAGGAAAAAAAAAAAAAAAAAAGTAATGATCATTTCCCTCTAGGAGCTTGTAGTCTAAATGA
GATGTATTCAGTTAGAGTTGTCTCAGTTACAAATGTTAGAAATCAAATCTAAAGTGGCATAAACAAAAAAGGGAACTTGGGTTATATACTGCAA
TGTCGAAGCGTTCAGGGGCAGCCGAATATGGGTGCTCAGGCAGGCTTCCCTCAGTATTGCCTTTATTCTCAGGCAGGTTTCCCCATAAGTCCCA
CTCTTCCAGCTACTTCAACAGAGAAGAGCCTGTTTCCTAATAGTTCCCCCAAGAATCCTACCTGATGCTCATTGGCCAGGCCTGGGTCATGTGC
CTATCCCTGAACCCATTACTGTGGCTCTGATTGGCCAGACTTGGGTCATGTGCTGCTTCTTGGAATTGGGAGCAGCTGCACCTAACCCTCCTGG
ACTGAGAGTCAAGAGGAGTGGTTTCCCATAGAAAAATCCAGGTGCTGCTCACAGAAGAGGGGGCTGTGGATGCTGGCAGGAAAGCCTCGGATGC
TAAGCATGTGGGTGAAGGCAGATTCACATAGTACAATGAAGGAACACTTACAAATTAATACATTCTAAATAGTTCAATGTAAGCAAGTACCTTC
TATGTGCCTAGCACCGTGCTATGTACAAGAAGGGATGGAGGAGAAGAGCTGCTTGGTCTTAAAGAGATCACAGAGTGGGATCCTGCTGGGGTTA
GAGGCAAGCATGGAAAGCTAAGGAAAACCCAACACATACAAGTATCCTATAATTACCAGCAGTACAAAATTATAACTGCATGTTAGAATTACCC
AGTGCGTTCAGATAGATTGATTATAAGATCTCTCCTGAGCTTCTGATTTCACTGGACTGGGGTATGGCTCAAGCTTCAATGTTTATTTTTTAAA
CTCCATCAGGTTGTTCTAATAAACAGCTGTGGTTCAGAACTACAGCCCGTAGGAAAAATATCCAAATGGCTTTTGCTGAATATGTTAAAGCTGT
TATGATTTTACTTTAATTCATTTAGTACCATGTTTTGGAAAGTCAGTTAAAATGACTTTTTATACTCAGAAGCAGGGAATTATGTTTGGGCTGT
AATTCATTCTGACAAGGCAATTTTATAAGTAACACTTTCACTGTGTCCACACCATGGTGCTTATGAAAAATATCTGAATGCACATATTTCTTGT
TATGTTTTCAGAGGATATTCCTCAAAGCAGAAAGTGAAGAAGAAATTTTTGCGCATCTGGGATTGGATTATATTGAACCGTGGGAAAGAAATGC
CTAGGAAAGTGTTGTCAACATTTTTTTCCTATTCTTTTCAAGTTAAATAAATTATGCTTCATATTAGTAAAAGATGCCATAGGAGAGTTTGGGG
TTATTTAGGTCTTATTGAAATGCAGATTGCTACTAGAAATAAATAACTTTGGAAACATGGGAAGGTGCCACTGGTAATGGGTAAGGTTCTAATA
GGCCATGTTTATGACTGTTGCATAGAATTCACAATGCATTTTTCAAGAGAAATGATGTTGTCACTGGTGGCTCATTCAGGGAAGCTCATCAAAG
CCCACTTTGTTCGCAGTGTAGCTGAAATACTGTCTATCTCTAATAAAAACAGGAGGAAACAAGATGATGGAATCTGTTTTTCTTCACTCAAATA
TTATAAACTATTTTAAAACACAAGTGTAACCAAGTGGAAGAATAAAGAGCTTACAGTTTGTCTTAAGGGGACAAACAGGTTTAATTAGAAGATG
CAGAGATTCCAGAGGGGATTTGGGTCCGTTCTGGAGCTTGTGGAGGAGGGGTGCTGCCTCTGGACTGGCTCAGCTCGGCTCAGTGCCTGCTCCT
TCCCGGCCATCATACAGCTGGTTCCCTAAGCATCCCAGCACAGGACCACATAAAGGATGTATTCTCCCTGCCATCGTGCTGAAGGAAAGACAAT
GTCCTAAACCATCAAAGAAATATCTCCCTCTTTTTTCCATCTTGGAGCTTCTGTCTACACCTTATGGCTCAGTCTCTCTCAGGAAGTCAGTCTC
TCTTGGCTTCTTATCTGAGGGCACCCAAGGGAAGGGAGGGAGCCCTGGCTGAGGGAAATTTTGGAACTCCCAGGCTCCAGACCCATTCTTTCCT
CCTGCCTCCTCCAGGAGGCATAGACCCTTTGCCTTGAAGGGAGTTAACAGGTCATCTGTTCCAGCTGCTTCCGTGTCTTCAGCCTGCTAAAGAG
CTGGGAGGCCCATGACGACCGTTTTCCCTTCCTTCCAGTCCCTCTGGGAAGAGGATATTGGGAGATACAATACCTTTTGGCTATTGTGACTAAT
GCTGCTGTGAACATTGGCCTACAAGTATCTGTTTGAGTCCCTGCTTTCAATCCTTTTGGTAGGGACCTAGTAATAAAATTGCTAGATTCAATGG
CTATTCTATACTATGTTTAACTCTTTGTGGAACCACTGTACTGTTTTCCATAACAACTGCACCGTATTACATTCTTAACCAACAGTGCGCAAGC
GTTCCAATTTCTCCACATCCTCAACACTTGTTATCTTCTGCATTATCTGTTTTATAATAGCTGTCTTAATGGGTGTGAAGTGGCGGGTGAAAAC
TTTTGCCCATCCTGGAACCCAAAGACAGTCCAGGCTGAAACTAACACACTGAAAGGGCCTCAGATGGTGTGTGTGCCTGTCACATCTTGAGTTG
ATGGCTAAAAAAAGCTGGGGACAACAAGAGGGTGGACAGCAGCCACCCCCACTGGCCTCAAATCCCAAAATCCACAAAGTATTCTAGTCTTTTC
TGCTGCCCAGTGTTTCCCAGTTATGACATTCAAGATTATTCTAGGTAGTAAGTAGATGAATATTTTCATACTGATATAATCAATAAATATTTAT
TGGGTGCTTACCATGTCAGTCATTTTTCTAGGCACAGGGCATAGAAAAGATAACAAAACTGTCAAAAATCTCTGCCTGTATGATTATAAGCATA
AAGCTTATGTTCTAGAAAGGTGTTTATTTGTGTTCGAAAGGTGTTAAGÂAAATGGTTCCTTATTGATGGTAGTGATATAAAGCTTCCTTTTTGG
AATAGGTTTATTTATATAAGAAAAGCGACTCAAGGTCAGGGAAATCATTTAGGAAATATTACCAGTGAAATGGGGGAGTGGCAAGAATGAGGAG
AGAGGGACGCAGGTGGCTGACATTTGGGAAATGTGCAGGTGGCCTTGTCGCCTTCACTGAGCAACTCCCCAGCCCTGTTCTCTGGAGGTCCCCA
CCACACAATAGCCCCAGGAGGTCCATGCCAGAGGAGTTTCCCCATCAGAGAACCTCACAGATTCTAAATGCTACTTTCCTTATTTGAAAAGGCC
TGTTGGAGATTCCACAAATGCCATGTCTTTTTTTTCTTTTTTGCTGTAAGCCAGAATTTTTATCAGTTCTGGACATGTTTTTTTTTTTTTTTTT
TTTTTTTTTTTGCCGTAGGCCAGAATTTTTTTCAATTATTGTGGTGACTAGTTACCAGAACTCAGCCTTCGCCTGTGCCTCCTACTTTGGCAGC
AGAGCGCCCTCTGATGGCTGACAGAAGAATCCTTGGAGGCAAGCACAGTATGATATAGCAGATCAAGTAGGAAGCAGATTATCTGTTAAAAACA
TTGGAACTATATGTAAGAAGCCATGGATCACCGATGCTCTATTTGTTCACTTTTTTCCCAGCCTTTTAAATCTGTGTTTTATTTGGGGTAGTTT
TTATTGCTGTATCTTCAAGTTTACTAATCTTTTCTTCTGCAATGTCTAGTTTCATTAAACCTCTCCAGTATTTTATCTCACACATTATAGTTTT
CATCTTTAGATGTATGATTTAGTTTTTAAAAACTATCTTCCATGCTTCTATTTAACATATTCAATTTTTCCTCTAGCTTATTAAATACATGGAA
TATAGTGTAACTGTTTCAATGTCCTTGTCTACTAATGATATCATCTGTGTCAATTTTGAGTCAGTTTCTATTAACTGAGTATTCTCCTCATTAT
GGGTCACATTTTCCTCCCTCTTTGCAAGCTTGGTAATTTTATATTGGATTCTAGACATTGTGAACATTGTGAATTTTTTCCTGGATATTTTTGT
ATTCCTGTTAATATTCTTAAACTTTGTTCCAGGATGTGGTTAATTTACTTGGAAACAGTTTGATGTGTCCTCATCTTGCTTTTGAGCTTTGTTA
GGCAGGACTCATCTTACTTTTGAGCTTTGTTAGGCAGCACTAACGTAGTCTAATCCAGGGTTAATATTCTTCCCCACTACTGAGGCAATACTTT
TCTCAGTGTTCTGCCTGATGCCTGGTGAATTATGGTGTTTTCTACTCTGGCTGTTTGGGAACAGGCACGGTTTGTGGCCTCCCACTGAGAGGCC
TGGCCCATTAGAGCTTAGGGTATTGTTCCCTCTAATCCCTTTGTGTGGTTCTTTCTCCAGCCTTGGGTAGTTTTCTCACATGCATATGCTGATC
AATGGAATAATCAAGAGGTCTCCTCTGTCTCTGTGCAACTCTTTCTCCAGTACTCTGCCCTGCAAATTCTATTCACCTTGGCCTCCATGGACTT
CCAGCTCTATCTCACTAACAGCATGTGCAAAAGCCATGTGGTGCAAGGACCATGGTGTCAGAGAAAAGGCCCACGTGGCAGGAGGGCCATGGCA
TAAAATGAGCAGAGAGAAAGCTCTTGCAGCTGGAGGTTCCCACGTGTCTGAGTTGCAGAGAGAAAGCCTATGTTTGTGGACAGACCATGGCATC
TGAAGGGCAGAGAGGAGGCCTAAGTGGTTGGGGAATAGAAACTAGAAGAGGTGGGACACAAGACTAGGCTTTCCCCAGCTCTCAAAACAAAGAC
CCATATCCTTACCTTGGCTTTCATAAGTGGGTAATCCCTGGCCAGGTGAGTCAACAGTAATCACTGTTTGACTCTTCATGACAAAATCAGTCAC
ATTTATGGTAGAATTTTGTCAACATGGTTTGTTCTCGCTCACAATCAAATCTTTCAAATCATTTTAGCCTGGAAATGAAAGTCTATGATAAACT
GATTCTCTTTCATTATAAATCAGATTTTAAGCCCCAGGTTACACTCACCCTGTCCTCCAGAGGCCCCCTTCAGTTTTAGAAATAGTTCTACAGC
CTATTGGACAAACTCGGCCAACTTCCAAAATGTTCCCCAGTCTCACCTGTCCAGTTTTAGTATTTTTCACCCCTTAACTTÁTTGGAGTTCAGGT
AGCCTCTCTATAGGATGGAGGAGAGAGGTTTTTTTTCTGAGTTTTACTTGGAGGTACAGCACTTTAATGTATGCCCTGACATAACCAGACATTTC
AGCCATTTGGAATTCTCAGAGGATTGAAGTGCTATGCCCATTTCTCCTTCTCCTCTAACTTCAGGTAAAGGAAAAAGAAGAAGAGTATAGATTC
TTATCTTATTTGAGCCCGAGAGAGATAGTTTTATGTCTTTGAGCTTAGAGGCAAAGCACCTGTATAAAAGCTTTCCTGATATTATTTCCTGGATA
TGGAGATTCACATTCAATTGGGTAGAGAAACGTTTCCACAAACACCCAGTTTAGCATTTTCATTATGCCCCCAACATTGTCTTAGGACCTGGCA
GATTGTCTGACATTGGAAGGAAGCCAGTGCACATTTGTTAAATCAATTCACGCATTAAGCAATAATTCTCATCAAGATGGTGGGAGGGCAAAGG
TTATATGACTTCACAATCTTTCAAAAATTAGTTATCACTTTTTGGTCTTCAATTAACATCGCAATGTTGCCTTAAGCAAAAC
TAATAATTGTTATTTCTTGGCAAAATAAAGAAGAAGTGAGTATCTGTCTCCACCAGCAAAGTCAGGAACTGAGAAGAATCATAGAGGGTATAGA
AGGCTGTGCTGATGGGAGTGAGGAACAGGCAGGCAGAAGGAGTGCTTTGCAGGGTTTGGGGAAAATCAAAGTAGAATGTTTGGACTGGATGGAT
GTAACTTTATAGATAAACCAATTCAAACACCAGATGATACAGGAGGAAATGAGACCCACACACATCGTGCAACCTGACTAAGGTCACTTAACTT

SAGRES DISCOVERY 02-24

ACCAGCAGCCCTGGGTTAGGGAAGCAGAGCTTCTGACTTTGGGTCTCATCATTTTGCTTACCACACAGAGCTGCCCTCCATGAAAGACTGAATG
TCTTCTAGCCTGGCAGAGAAAGTGCCAATATCGGGAATATCCCTGGGATAATCTTGGTTCCAGGGACAGAGCCAATGTTCTCTAATATAGGCAA
AGAAAAGCCACAAACATTTTGTAGGTTCATAAGAATGGCCATTTTACTTTTCACTTCATTCCAACATAAGTTCTTGTGTATCATAGCAGAAGTA
AATGACAGAAATGCTGAACCTTTCTAGTTTAATAGAAACAATGTTTAAATATTCTAAGCCGTGGATTATAAGTAGAATTAAAATAAGTGATCCA
AAACACAAGTCATCCCTCACTTTATAGCTACATGGCTTAGTCACATGCATATTTCAATCCAGCCTTACAACCACCCCATGGGCTAAAAGGATGG
AGGATGAGAACTGCTGTCTCCACTTTACAAGTACAGAACTGAGGCTCTGGATGATCAACAATCGGCCCAAGGGCTGACACCTATAAGTATCAAA
GCCAAGGCCACGGCTGAGTTCTCAGTAAATCCAAGGTCCTTCATGACATGTAGGAGGAAGTACAAGCACCAGGATGACTGGGAATGTCTGTTTA
AAAATGGCTAAATCTGCTTGTTTAAGGTAATTAGATCCAGAGGACTTGGCACAAAACTGAGTTTCAAAAGGGGCTTTGAAGAGCAGGTATTGAC
ATGTGGCAGAGATTGGGTTCATAGAACATGTTCTTGGTTATTCAGGGAAGAGGGGCATGTTTCTGAGTAATCAGAAGCCCTGTGTGAGAAAGGA
ATATTTTCTAGGATATCTGTGTGGCTCATGGAGCTGCTGGATGAACTTAAGATGCCCTGGACCCAGGCCTTCCCACTGGGAGGCCTGGCCTGCT
AGAGGGCAATGGCTATACATGGGGGAACCAGGCTGCCTGGAAGCCTCCTCATGGGAGTGAAAGTGAAAGCCTGTCCCAAGCTGGCTGAATGGCA
GGCACGTTGCTCCTTGGCCCATTCCTGTGGTCCTGTCTCCATCCCCTTGGGTCCTCTTGATTTTTCTTTCTGCCAAACAGCTTTCCCCTAGATA
TCCAAGGACTTGGTTCTTTTCTCCAAGTAGACTTGGTTCTACTCCACAGAGTAGATACAGCCCTCATTTCTAATAATCTTTTGGAAAAACTCTT
GCCTTCCCCGCGGCCCCCCATCTTTACTTTCAACACACACACAGTCCGTCGCAGAACTGCCCTCCTTAAATACTCTCTGATTACAGACACAAGT
AGGAGCAATGAATGATGTGTCTCCTAGGCCAGGTGTGTGGTAGGGTAGCTGACACATGTTAGAAGGAAGTCTGCCCAAAGACACAGAGGAAATG
AAACTCATATTGAAGGCAAAAGAAGAGTACAGAAGAAAAAAAAAAAAATGGCTGGGGATGGATTGGAAAATGGGAAGAGGAGTTACTGGGATAAG
AGAAAGCTGGAGGGTGGCCTCTCCTGGAGTAATCCACCCAAAATAAGGCAACCTGGTTATAGTTTGCCCAATAGGCTCAATGGGCCAACACCAC
TTGAAGTAGCCTCTCCTTTTCCATTTGGCCTCCTTGGAGACAGTCCTCAGCAAGCTGAAGCGGCAATGCTATGCGTGGGCTTAAGGGCTCTTGT
TTAATCTGAAGCCTTTAAAAAATAAAATAAAAGAAGTTGTAACTTTAACAACTATCCCTAAAGCACAAAAGTTAAAGTTATTTGAGGAACTGCC
ATCAGAGGTATCATAATGTCTTACTTTAAAAATTAAGCAAAATGTTTCATTGTAAAGACAAAGTGTTGTTTTAATATGAAACATGAATTTCCAT
CAACATTAACATCTTTAAGGTTAAATGTAACACCACCAGTCTCTGTATTTGGAATTCGGAACTTGTAAGAAACTGCCTTTTCCTGATTCATATG
AGGACACGATCACACCTAGATTGGAAGATTCACATACTACCAGCAACACCTAGAATCATCTTTAGATAACAATTTGGATCATAGGCCATGGAGA
AAGTTTGTCCTAAATGTTCCCTTGTGTGGCCCTGTGACTATGGGGAACAAATGCTGGTGATTAGCTGTTTTATCAGGCAAGCAATATGGGAAGA
GGTAGGAAGAAGGTGGTAGAGAGAGAGAACTAACATTTTGACTGGCAACTAAGTAGCAGACACTTCCCTTTATTTCTTATTTAATCTTTTCAAT
TATGACATGAGGCAAATATTTCCCCTCCTTTAAAAAAGCAAAAACTGAGGCTTGAAAATGTTAAACAACTTCTCCAAAGTCGTACAGCTGCTCA
GTGGTAGGTGTGACTTAAGAGTCCGTATTCTTTCCACTGCTGTGTGACATGATTGAGCCAGGTGCTTCCCTGTGGTCAGGGAATGTGTGGCTCC
ACATGGTTCCTACCCTGAGATATTCAGAAACAATTAACTGCTTCCTCTCACACATCCTGCATAAGTTTCATTTGTATCCCAACTTGCACCAGGC
TGACCTCAGCAACACTTCCATGAAAGTCAGATCTGATGGCTTTTTTGAGAAAAAGGATATGAAAAAAAAAGATGAGAAGGCAAGACACTCAGAA
ACCAAGCCCCTTTCCCAAAATGACAAAGAAAAGCAAATTCCCACTGGGAGCAGGAATAGGTCATAAGGACCCATCTGGTGAGTCACATGTACT
AACTAAAGCACAAGATCTGAGAGTTGGAATTAACCATGTTGGGGATGTCCCCTAAAGAGACAAATCAGCCCCAAAGTGTTCCAGAGCTGTAAAT
GAAATTTGGATTGATTAAGAAGCAGCTTGGCATCTTTCCTCTCCAAGTACAAAACCCTGGGTTTTCAACCCTGTTCCAGTGCCAGGTCTGCTGC
TCCTTGACTGAGCTGCATCATTCCAGGCTCAGTCTGGGCACAAGCCACCACAATCCCCTCCTTCTTTCCATTTCTATAGTAGGACGGTAACGGT
CATGCACAGGTTCCTCGCTTCCTGCTACAGTCTTCACATATATGTGGGCCTCTTGTGCTCCCATCGTATTCTTCTCATGTGTGGGTGATCTCCT
AGGATTCTTAAGGAAACAAATAGGTTTTTTAAAAACTACAGCAGAGAATTCTTTCATACAAGATGGACTAACAGCAACCACATTGACCCTCCCA
CCTGAAATAACCAAAATCAGACACAACATTTGAAGCAATAGTTTTCAAGACACTAGACAACAGGCAAGGAGGGACAATGGTCCTGGAGAGACAG
AAAACAAATGAGGAGAGACCCACAATTACCTGATCTTACTGCTTTGGGAGAGCTTTCAGGCCACTCAACTATCTTTTGTTTATTGTTAACAAAG
TTTCTCATTTTTTGTCTTTTAACTGTTAATCTATTTGTGTATTTATATTTAAAGTGAGTTTTGTAGGCATCATATGATTGGACCTTGTTTTTAT
AGCCAATGTGAAATCTCTTCCTGTTAATTCGGGTATCTAGACCATTTACATTTAATGTGATCATTGATATGGTTGGGTTTAAATCTACCATCTT
GCTATTTGTTTTCTGTTTGTTCTACCTGTTTGTTGTGTCTTTTAACTCTTTTTCTACTTTATTTCATATAGATTTTAGAAGAACCTCATTAAG
TTCCATGAAAAAAATTGATTGGGATTTATATTGAAATTACATCTGTTATATAGATCAACATTGTTTGACATCGTTATGTTATTAACACTTTCTA
TCCAGGAGCATAGTATGCAACCCCCATTATTTAGGTATTATTTAATGGGTTTTTTAACCAAAGTTTTATTATTTTCCATAAAGGTATTACATAT
TTTTGTTAGATTTATTCCATAGCATTCTACATATTTTAATACCAATTACCATCACAAATGGTAATTTTTAAAATCACTTTTTCTAATTGTTGTT
GATGTTGAAAGTATAAATTACTTTTATATATTGATTTTTGTATCCAGTAAACTTGTTAAAATTTCTTGTTAATTCAAGTAATTTTTCTGTAGAT
TTAGCTTTTCTTTTCTTTCTTTCTTTCTTCCTTTCTTTCTTTTTTTTTTTCTTTTTTTAAGATGAAGTCTCACTCTTGTCCCCCAGGCTGGAGTG
TGATGGTGTGATCTCAGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGTGATTCTCCTGCTTCAGCCCCCCACGAAGTAGCTGGGATTACAGGC
ACCTGCCACCACACCTGGCTAACTTTTGTGTTTTTAGTAGAGATGGGGTTCACCATGTTGGCCAGGCTGGTCTAGAACTCCTGACCTCAGGTGA
TCCACCTGCCTTGGCCTCCCAAAGTGCTGAGATTACAGGCGTGAGCCACCGCACCCAGCCAGATTTAGCTTTTCTATGTCGACAATCATACCAT
CTGCAAATAATGACAATTTTGTTTCTTCCTTTTCAGTGTTACACTTTCTAATTTTTTTTTTTGAGATGGAGTCTTGCTCTTGTCACCCGGCTGG
AGTGCAGTGGTGCGATCTCAGCTCACTGCAACCTCCACCTACCAGGTTCAAGCGATTCTCTTCCCTCAGCCTCCCGAGTAGCTGGGATTACAGA
CGACCGCCACCACACCCAGCTAATTTTTTGTATTTTTAGTAGACACAGGGTTTCACCATGTTGGCCAGGCTGGTCTCAAACTCCTGACCTCAGA
TGATTCACCCGCCTCAGCCTCCCAAAATGCTGGGATTACAGGCGTGAGCCACTGCACCGGACCTATACTTTCTAATTTTTAAAAATCCTACTTC
ATTGACTAGGATCTAAAGTATAATATTGAATAGAAGTGGTGTTAGTGAAGATCCTTGTTTTATTTCTGATCTAAAGAGAATGCTTTCAACATTT
TACTGTTAGGTATGATGTTAGCTGTAATTTTTTGAAAAAGACATCTTTCAAGTCAAGGAAGTTCCCATTCTATTTTTAATTTGCTGAGAGTTCA
TATCACTGTTAAGTTTTTTTGAACTTTCTTCCCCTATTGAGATGGTCACATGAGTTTTCCATTTTAGTTTGTCAGTAAAATAAATTATATTAAA
TTGATTGTCTAATATTAAAGGGAGCTTGAATTTCTGTTCAGCCAATAAAAATGCACTGAGAACCTCCTTTGTGCTTGAGCTTCCTCTTGGTCAT
CTCTTTTCTACATGTGCTCATACTGTGCTTCTTTTGGTGA

HUMAN SEQUENCE - mRNA
ATGGATCCACCACGAGCGTCCCACTTGAGCCCTCGGAAGAAGAGACCCCGGCAGACGGGTGCCTTGATGGCCTCCTCTCCTCAAGACATCAAAT
TTCAAGATTTGGTCGTCTTCATTTTGGAGAAGAAAATGGGAACCACCCGCAGAGCGTTCCTCATGGAGCTGGCCCGCAGGAAAGGGTTCAGGGT
TGAAAATGAGCTCAGTGATTCTGTCACCCACATTGTAGCAGAGAACAACTCGGGTTCGGATGTTCTGGAGTGGCTTCAAGCACAGAAAGTACAA
GTCAGCTCACAACCAGAGCTCCTCGATGTCTCCTGGCTGATCGAATGCATAGGAGCAGGGAAACCGGTGGAAATGACAGGAAAACACCAGCTTG
TTGTGAGAAGAGACTATTCAGATAGCACCAACCCAGGCCCCCCGAAGACTCCACCAATTGCTGTACAAAAGATCTCCCAGTATGCGTGTCAGAG
AAGAACCACTTTAAACAACTGTAACCAGATATTCACGGATGCCTTTGATATACTGGCTGAAAACTGTGAGTTTAGAGAAAATGAAGACTCCTGT
GTGACATTTATGAGAGCAGCTTCTGTATTGAAATCTCTGCCATTCACAATCATCAGTATGAAGGACACAGAAGGAATTCCCTGCCTGGGGTCCA
AGGTGAAGGGTATCATAGAGGAGATTATTGAAGATGGAGAAAGTTCTGAAGTTAAAGCTGTGTTAAATGATGAACGATATCAATCCTTCAAACT
CTTTACTTCTGTATTTGGAGTGGGGCTGAAGACTTCTGAGAAGTGGTTCAGGATGGGTTTCAGAACTCTGAGTAAAGTAAGGTCGGACAAAAGC
CTGAAATTTACACGAATGCAGAAAGCAGGATTTCTGTATTATGAAGACCTTGTCAGCTGTGTGACCAGGGCAGAAGCAGAGGCCGTCAGTGTGC
TGGTTAAAGAGGCTGTCTGGGCATTTCTTCCGGATGCTTTCGTCACCATGACAGGAGGGTTCCGGAGGGGTAAGAAGATGGGGCATGATGTAGA
TTTTTTAATTACCAGCCCAGGATCAACAGAGGATGAAGAGCAACTTTTACAGAAAGTGATGAACTTATGGGAAAAGAAGGGATTACTTTTATAT
TATGACCTTGTGGAGTCAACATTTGAAAAGCTCAGGTTGCCTAGCAGGAAGGTTGATGCTTTGGATCATTTTCAAAAGTGCTTTCTGATTTTCA
AATTGCCTCGTCAAAGAGTGGACAGTGACCAGTCCAGCTGGCAGGAAGGAAAGACCTGGAAGGCCATCCGTGTGGATTTAGTTCTGTGCCCCTA
CGAGCGTCGTGCCTTTGCCCTGTTGGGATGGACTGGCTCCCCTCGGCAGTTTGAGAGAGACCTCCGGCGCTATGCCACACATGAGCGGAAGATG

SAGRES DISCOVERY 02-24

ATTCTGGATAACCATGCTTTATATGACAAGACCAAGAGGATATTCCTCAAAGCAGAAAGTGAAGAAGAAATTTTTGCGCATCTGGGATTGGATT
ATATTGAACCGTGGGAAAGAAATGCCTAG

HUMAN SEQUENCE - CODING
ATGGATCCACCACGAGCGTCCCACTTGAGCCCTCGGAAGAAGAGACCCCGGCAGACGGGTGCCTTGATGGCCTCCTCTCCTCAAGACATCAAAT
TTCAAGATTTGGTCGTCTTCATTTTGGAGAAGAAAATGGGAACCACCCGCAGAGCGTTCCTCATGGAGCTGGCCCGCAGGAAAGGGTTCAGGGT
TGAAAATGAGCTCAGTGATTCTGTCACCCACATTGTAGCAGAGAACAACTCGGGTTCGGATGTTCTGGAGTGGCTTCAAGCACAGAAAGTACAA
GTCAGCTCACAACCAGAGCTCCTCGATGTCTCCTGGCTGATCGAATGCATAGGAGCAGGGAAACCGGTGGAAATGACAGGAAAACACCAGCTTG
TTGTGAGAAGAGACTATTCAGATAGCACCAACCCAGGCCCCCCGAAGACTCCACCAATTGCTGTACAAAAGATCTCCCAGTATGCGTGTCAGAG
AAGAACCACTTTAAACAACTGTAACCAGATATTCACGGATGCCTTTGATATACTGGCTGAAAACTGTGAGTTTAGAGAAAATGAAGACTCCTGT
GTGACATTTATGAGAGCAGCTTCTGTATTGAAATCTCTGCCATTCACAATCATCAGTATGAAGGACACAGAAGGAATTCCCTGCCTGGGGTCCA
AGGTGAAGGGTATCATAGAGGAGATTATTGAAGATGGAGAAAGTTCTGAAGTTAAAGCTGTGTTAAATGATGAACGATATCAATCCTTCAAACT
CTTTACTTCTGTATTTGGAGTGGGGCTGAAGACTTCTGAGAAGTGGTTCAGGATGGGTTTCAGAACTCTGAGTAAAGTAAGGTCGGACAAAAGC
CTGAAATTTACACGAATGCAGAAAGCAGGATTTCTGTATTATGAAGACCTTGTCAGCTGTGTGACCAGGGCAGAAGCAGAGGCCGTCAGTGTGC
TGGTTAAAGAGGCTGTCTGGGCATTTCTTCCGGATGCTTTCGTCACCATGACAGGAGGGTTCCGGAGGGGTAAGAAGATGGGGCATGATGTAGA
TTTTTTAATTACCAGCCCAGGATCAACAGAGGATGAAGAGCAACTTTTACAGAAAGTGATGAACTTATGGGAAAAGAAGGGATTACTTTTATAT
TATGACCTTGTGGAGTCAACATTTGAAAAGCTCAGGTTGCCTAGCAGGAAGGTTGATGCTTTGGATCATTTTCAAAAGTGCTTTCTGATTTTCA
AATTGCCTCGTCAAAGAGTGGACAGTGACCAGTCCAGCTGGCAGGAAGGAAAGACCTGGAAGGCCATCCGTGTGGATTTAGTTCTGTGCCCCTA
CGAGCGTCGTGCCTTTGCCCTGTTGGGATGGACTGGCTCCCCTCGGCAGTTTGAGAGAGACCTCCGGCGCTATGCCACACATGAGCGGAAGATG
ATTCTGGATAACCATGCTTTATATGACAAGACCAAGAGGATATTCCTCAAAGCAGAAAGTGAAGAAGAAATTTTTGCGCATCTGGGATTGGATT
ATATTGAACCGTGGGAAAGAAATGCCTAG

TABLE 25

MOUSE NOMENCLATURE
ICSGNM Znfn1a1
Celera mCG3994

HUMAN NOMENCLATURE
HGNC ZNFN1A1
Celera hCG1736622

MOUSE SEQUENCE - GENOMIC

TTTAGATAATTTTCTGTTGTATCACATTTTCCACTGGTAAATTTGGAGCAAATAAAATTCCACAAGATGGCTCCCTTTGACCTAATGGGGGGAA
AAATGTTTAATTTATCATCCTTTAAGAGACATGGAAATGAGTAGTTGACCTTTTGTAAGCTTATGTGAGACACTCTAAAAAGTGCCCCAGTGTT
CTTAATGGAAACTAGAGGAAGCCATCGACCCCCTAGTGCGAGCCCCACTTTTAGCCTGGAAAAAAAAAGTGGCCTTTTCTCCCTTGTTTGTGCT
GAGTTTTGGGTAGAGTAGAAAACTAAAGTGATAGAGACCTTTCATAAAAACAGATAAACTGTGTCTCTCGCTTCATCAAATGAAAGCCAGCGGC
TACGTATCTCAGGTCCCGGAAGCCAAGGTTGGCAGTTAATTTGTAAAACATGGTTTGGAAAGTTCAAGTTCTTCTCCAACCGAGAGTGCGCCAG
TGCTTTATCATGACGTTATATGTGAGGTTATATGTGTTTGATAGAATTTAAACGATTTTCACTTGAATTAAGAACATCCAGGACTTTTGTCAAA
GTCATGAACTTTTCTGAAAAGGACTTGGAGCATTGAAAACTCATTGTTGCTGTCTGTTGGGAGACTGCAGAACAGGCATTAAAACCGAGCTTCC
CTGTGTTTGGCTTTCTAAAGAGCAGTTTCTGCCCTATTATAAATAGACACGCCGATTTTTGTAACTGTACAAATGAGGAAGTTGTGAGGTTCCA
TGAGGCTCAGCTGATGACCCTTGTCTCCTGGGTTTGCATGAGGACCTTGTAGGCTGAAGGTGAAGGATTATAAAGCCGTCCAGATAGCCTGGGT
TGGGTGGGTACATGTTACACATTAGCCTCAATCTTGTGCATGGTGTGTTGTATTGGCATGACTATCATGAGGTCTGGGACAGGGGACCCTGCTT
CCTAGCCATACCATAGAATAAAACTTTTTAGAAATGTAGACATTCCTTAGGATCTAACTGGAAGGCCAATGCAGGTCGTCAAGTGGCATTTTTG
TCATTGTTCAGTTTATTGTCTGTAGTTGTTATCATATAACTGATTTTCCTTCTGTTGACACTACAGTTGTCTTGCTTATCCCCGTAGAAGTTGG
GTGAGCAAGGGTAACTTTCCAAAGTACTAAAGCCATTAAAAGACCATGATGTGACTTAGGGAACTCAGTTTTTAAATCTAAGTTATAGTACTGT
AAACATAGTTTTGAAAAAATAAGAGAACATATAACAAATTAATATTTAATAGTTTTTATTAAAAAGTTATTTCATTTTAAGTGACTATGGTTG
ATTTTTATAGGTGCCGTCAATAACACCAACATCAGTTTCAGTACTTTCTGGAAAATGGCCACAGAGTCCATGTGGCCTACCCTAAGTGACAGCG
AGTGACAATGAGCTGGCAATCAGTAAATCATGCTCCTCTCTGGAGCAAAGACTAGATGCTCCTTAATAAGGCTGGGGTGTGCCAAAGTGGCCTT
TTATATTTAAAGAAGCAAAAGGCCAGTGTATGTCACAACAAACTCGGTGATGGTGCTGGCCTGGAGCGTGAGCAGCATCCCATCTCGTTGAGAC
GATGAGTAACATGAAAAGCATGTATGCTGGGACCTAGGAAGTTCTTCTCACTATCACAGTGAACAGTCAAGTCAGAGCACCTTCTCAGTTCCAC
TGGGTCAGTCTGCGTGTAAGGACTTCCAAACAATAGGATACCTCTATGAAGCTCTGTGTGGCTTAACTTCTTTAGGTCCAAACAAAATAAAGCC
TTTGGCAAACAAACTGGCCCAAACCCTTTTAGCTAAAGTAGAATAGCGTTGTAGAAACACCCGCATCAGAGTGCACTTGCTTAATGTTATAGAT
GTACACGTGGTTTCCCTCCACCACATACAGCTTTAAGGTTGTATTTTCAAGTATCCACTTGACTGAATTTACTTGTATGTCTACATAATTTCAC
TGCCGAAAGTCACAATGAGATATTGTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTACTTGGGAGAACCGAATT
CTACCGTCTCTTCTAACAATTACAAACTATCAGCACTTCGGGAATTATCTGTGTGGATCAGTCTTGTGGAAACCGTTGCTGTATTTTAAAGATA
GAAATCTCATTTGTGCTGCATCTCCCTTCCATCACACTCCTCTGGACTACACGTAATGGTCTTCTACAGCAAGAGGGCAGAAGACAATGCTTCT
CAACTTCGGTTTTCCGCCTTAAATGATGAAGTGTGAAAAGCCACTTATGTTTAAGGGAGCTACTTAAGAAGTGGCCAGTGTTGATGGTCCAAAT
CAGAAAGCATGCTAATTGTAACTGCGTGCCTCTCCTCAGTGGCTGTGAGTGGGTGGCTAGTATGGAGGTTAGAGAGGAAACACAGCCTTGTTGT
GTGATCATGGCTTACCTGGGGGAGGAGAGCCAAGGCACCACTGACTGTCATGTCAGCACACATGTGAGCCTCTTGCCTCCAATTCCATTGTC
TTTCTTATATAAAATCTACCATCTTTCTTGTTTTTTGATTCTAGCCTAGGGATTCACTCTGATGCCCAGCCTAGCCTGAAACTCATAAACTCAT
ATGTAGCCTAGGCTGCTAGTCCTGGGATTACAAGGGTGAGAGCTACAGTGCCTGGTTCCACCATTTTCTATTACGTGTCACAGAACAGGTACTC
AGTGTTGCCTTCTAATTGGGAAGCAATCTTTATTTTATTCTCTCTCTCTTTCTCCCCGCCCCGTGTGTGTGTGTACCTGTGTGTGATGGT
GTGCATGCATATGTATAAAGGCCAGAGGTCAAAATGGAGAATCTCCCTTATAGTTCCAGGCCAGAGTCTGCCCCTGACTGGCTCAATTGGCTGT
CAATCTAGCCTCACTGCTCTTTTGTGCCCACCTCCCCAGCACTGGAACTACAGTTGCCTTACTGGGCTTTCTCTGAGGGTTCCTGGGATTAAAC
TCAGGTCCTCACATTTGCCTGGCAAGCGCTTACTGACTGAGGTATTCCTGTAGCCCCTTGGCTGCATTTTTAACAGACTTCCTCATTTCCCTTT
GACCCTCCTTCATATCAGTTTCTGCCCACAGAGGGGAAAATGTGAAGCCAGGGCTGCACATCTGAGTGATTTGCCTTCTGTGGCTTAGCTGACT
GGGGGAGGAGGGGCGTGGGGAACACTAAATTGGATTCCTATGCTCCTGTTTAAATCTTGTTTTTCATTGTGAGTTGTACCAGCAAAGCTCTGGG
AGATAATCATGAAAATGTGTAGATTGGCAGCTAATTTTTGAAAAAATGAAAAGAATCAGAGATGAAATAGGAGCGCTCAGAAGTTTTTATGTTC
TCCCAACCTGTTTTGTCAAATTGTTACACAAACCTAGAAGGTCTCTGACTAGATACAAAGACGTCGCATATTGCTGCTCTTTCTCGTGGAGCAT
CCCTTTTGAAAACTACAGAGTAATTCACAGTGATGTGATAAATTTGCAAAAAAAAAAATGGAATCTTCAGTGTATAGATGAAAAGACATGTCTT
TCACAGAATCATGTGTTTTATTCAAGAGGTCTGTGACCTAGGCATGTTTAATAGGTGATAGTCCCGAGCTCAACCCTGTCTTCCACATGCACAT
TTACTTCCTGCCTTCCGAGAAGGACTTTGAGTATTAAGTGGCTAGTCCCAAGTCTCCCTGGGACAGCTTCACCAGCAAGAAAGAAAACCACCAG
GCACATGTAACTGTATGGCCAGAATTTAGTTGCTGTACAAGTTCTGTTATGAGAAGTTTGTCAAGTTTCAGGCTATTGCAAAGAATGAGTTTAT
ATTCTAGCCAAATATGAGGGGCACCTTCCTCTGTCTGACATTTGGATCTTGTCTCCACTGTGGTGTGTTTATGGAGTTCTTAGAGCAGGTAGGA
AAGGCAGACACTGTCATCTGATGACTGGAAGTTCAGAGCTCAGCTCTGCTATTTGTTGGTGGTGGCCTTGGGCAGGCAACCCTTGCTTCATGAC
TCTGCTCACAGCCTCGGTCTTCTCTTCTGCAAAATGGAAATGATAAAGCAGATTCCTGTGACAAATCAGGATTGGCTGCCAGCTCGATGCTGGA
CTCTGAGGCAGGCTGCCTGAGAAAGTGCTGGGCAAGGCAGGTTGTTCACAGTCTCAGGAAGCTCGTTAGCAGTTTAGCTCTCAGATGCCTCGCA
TGTAATGGGCTGCCTCAGAGGTGCCTGTACTCCTCCTTTTCTTGCTATAGACCAGGTTCTCAAGGACCCTTATAAACACAAAAAGTTAATGTAC
ACTGTTTTTAAATCTCAGGACATTTTTCAAAGCTTATGGAAGTACAATACAGGCCAGGTAACAGACTAATGTCTACTGACCTCCACTCCTGCCT
ACAGCAAGCTTTATATGCCATGTGCTTAGCAGTTCTCCTGATAGCCATATTGTCTGGGTAACTTGAAAAGAAAGATGTTTGTGGTTTCTGCCTG
GCCTCGAGTTTTTTCATTTTGATTTAATAAATCTAGGCTCAGCTTGTGAAAATTCTGGGCCAGGCCCTGGGTTATGACATAAAGCACCACAGGA
AGAGGTGCTTGCTGAAGGGAGATCGGCCAGCACCCCTCCCTTGAGGACTTGTTGAGGTTCTGGGCTCTACTAAGTCCTCCTCTGGGCCTTGCAA
GTTAGACATGGGCCAGCACTAAGGAAGACCTGGCCTGGTGGCTTACCTGGAGACAGCAACTGCCCAGGGCTGTTGGATGCTTCTCCCAGGAGCC
AGCCAGGTTCCAGCCTGGTGGCAATGGCCTCTTCGTGGCAAGAGGAAAGGCTCCTGGCCTCCCAGGAAGACTCCCATGGTATGTAGTTTTGAAT
GTGTGCTTCCTGCCCAGTCCCCAGAGCAGTGAGGTCCTTCCTGTGCAGTCTTGAAACCTGGCTCCCAGCCTCCTCTTTCGCGCCTCTTCTCTAA
CGTTGGTGATGTGTTGAATCCTTCTGTCTGAATCAAGGGAATGAAACCTGTTTGTCCCTGTTTAATCAGAAGAAGAGAAAAACAGTCAAGAAGG
AAGAGGGTCAGGAGGGGAGAGAGGGAGACACAGAAATAAAGAGATGAGAAGAGAAGAGAGTTAGATGAAGAAGACAGGAGATGCAAAGAGATCC
CGAGGGATGGTGGGGTTATAAGGAAGGCCTCACTGCTCACTGTCCTAAAGAGCCAGCCTTGGGCAGCCTCTGTCATGCTGGCCTGCACTTATCT
CTGCATCTATTTCCCCTTGTGCAAGATTCAGAACTGCCTGCTCCAAAGAAACAATAAAAGCATTCATGTTTAGAAGAACTGCCCAGGTGAGAGC
TAGTTTACTGACATTGTGGCATGCTCTCCGGTGGGTTGCCTCTATCTGAGACTTGCTTGCTCTTCTCATGCAAAGTGGACCACCACAGCATGTT
TCTGTGACCGGCTTATTCCATCCAATACCCCTGCCCAGACCTGAAGATGGTAATAATTTGCTTTGGTGGTTAATTCCCTATAGTGAATGAAATC
TCCTTGTTTTATTTAAGGCTGAGACTGTAAGATAACTGAGCTCAAACTATTTGTCTTTTTAAGTTTTTAAAATGTATTCGATTTCTCTGACTCT
CTCTCTCTCTCTCTCTCTCTCTCTCTTTCATACAAGCACACATGGGGGAGGCAGTGTATGCAAGTGTATCTATGTATGAGTGTGTGTGCATG

TGGCATGTGGAGGTCAGAGGATAGCCTGTGAGAATCAGTTCTCTTCTTCTACCACGTGGCTCGTAGGGATCAAACTCAGGTTGCCAGACTTGAG
GGCATCACCATTATCTTTTAAGACATCTCTCTGGCCCTTTAAGTCCTACCCTTCCCCCTCAGATTCCCTGTATTGCTTTCACATGGCAGCAGAT
GTACTTTGTAGGTGTTTTGTAAGCAGTGCCTGGTGGTCAGCAGAGTACCCAGGATGGCCTAGACTCCTTCAGGACACTTAGGGATGTCCTTTGT
AAACTTTGCCTTAAAAGAGGCCAAATGCATTTATCCCCCACTCTGCATTGGTAGGTTACTTCTTTAGTCTCTACCCCAAAAGATGCAGATCTTT
GGTTTTGGGACATTTGAGGGGCTTAAGAAGTCTCTGCAGAATTCGTAGGACACAGTACAGACTGACTCCAGCCCTTAGCTTAAAAATTATCAAG
TACCTGAAACTGTTGTTCTGAAACAAGGGACCCTGCTGGCAACCATACTAGTCACAAGTCCAGAGAGGGTGGGGTTGAAAGTGTGCATGCAAAT
CTAAGGGAGGTAGACTGTGTCACAAGGGTCCATATGCCCTGGCTGGCAGGGAAGGGAGTCTGTCGCTAAGTGACCCACAGAGCAGCCATGTACA
GAGGTGAGCTACTGGGATCCTGACATGCACCTGTGTTACCACAGTACCCACTGGAACTTGCTCCAAGCACTGTTGGTGACCTCACTTGTCTGTC
CCCCTGAGGCATGACAGCTGGCTCCTTTGTCCATGAGATGACTGTTTGGAGAAGGGCAGGCACTCATACTCATGGGCCTGATAAAACATTTGTT
TCTATTTGACTTGGAAGTAGCTTGGGTATATTATCTGGGCTATCACTGCTATCATCTAGTGAACCAAGCCTTCAATGCATAGCCATTAAAATAC
AATAATGGCACTGTATAGTAGTTAAATTAAACATTTTAGCAGTACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

CCCAAATAACATCCTAAGCATTTTCTCATTTTTACCTTATAAAAACCCACTGAAGGAGGATGTAGTTACCTCCAAGTTGCAGAAAGCTAAGACT
CAGCCTATAAGAAATTGACAGGAAGTCCCATAGGGAGCCAGACAGTTATGAGCCTACTTCAGCCCTAGGCTAGAAGCAACTTACTCTCCTCAAG
TGGTGGCTCTGTAGTGAATACATCTATTACCCTGGTATTACTCTCCCTTAAGCCCCTCTGTATCTTACAGATGCATGCCTTTGGGAGAGATTTC
TAGAGATTTGCTGGGTAGCTGGGCAAATCATAATACACTTAAGAACTCATTTACTTTTAGTTTCCGATTAAGGGCACAATTTCTTTAATTTGAC
CACAAACTTCTCAAAGACATACTTGACACACAGGCAACAGGCAAGTTAAGTATAAATTGGTGTGATTATAATTTCACCAGAAGTGTTGTTTTCT
AAGTAAGTGAAATTTTGCTTGCCTCTTCAGAGTCATTCCATTTGACTTATTAAGCATTTGCTGTCTTGCTTTCTCCACCCTATTGCTTTTGCTA
CCTGGTAAAGGTACCACATAGCCTATGCCTCTGTGGTGTACTACAGGTTACCAAGAGTTTACTTAACAAGTTGGTGTTCATGCTTGTGATTAAT
TTTCATCATGACCTGCTGAACTATGCCCAAATCATGGATTCTAGCCTCTTGTTATACCTGAGGAGAGAATTCTAAAGTAGTGGCCATCGCTCCT
TCCCATCAGCTCTCCAATTGCTTTAATCAGACCTATAACCCAGGTTAATCATTGTATTCATAATTGGGGTGTGTTGGCTTTACCTAGCACTTGG
GGGTTTTTTTGTTTTGTTTTGTTTTTTTAAGTAATGATTCAACTGGTTAGTGGGGCAAAAGCCAATATGCACAATAACTTGGTCTATCAGAAAG
GTTTTCATGAGATGGTAAATTTTCTGCAGGAAGACCTCCCAGCAGTAAAAGAATGCAAAGATCCTTGGTCATCAAGCCCCCCTGCCCCCAGAGT
GGTGGATGTCTCTGCAACAGAACTCACACTGGGGGCTTTAGGCAAATCAGAGGACCTCTTAAAAACCATCAGTGAGCCGTGGTGAGGCAGGGT
TGAATTAATGCCACGCTCTTGGCTGCCATGTTAATGCCATGTTCCTTCAGGTCTGATTTTGTACTCTATACCCCTATACACATGGGGACTGACC
TGTTGTTCCTCCTTCTCCCTGTGTGGTTTCATCTGCTCTGAGAGTTCCTATTGATCTGTCTGACCCACAGCGTTTTAGAATCACAATCCCTACT
GTTTTCATTACACCGTGTCCTTCATGTAGGAAAAGTACCAGGATATAAGATGGGAATAGAGGTGAGATGGCCTTTTAATGTACAACTTCAGCCA
GCTGTGATTCTTAAGAAGTCCAGCTGTTACTATGAACATCATCCTTAAGATAGAGTTGAGTTTTGTCCTTTCAAAGATGGATCAGCCACACTTT
TAAAACTGAGTAACCACCATGTGTCTTTTTGCATGCAATTAACTAATCATGAAATGGACTGAGAGTGTGGCCTGCTTTTATTGGCTAATCCTAG
ATCTTTATCACACATACCCCTCCCTCAAGCTCTAGTGTGGCATGGCATGTCCACAGGCCCAGAAGTATCATGGATGATAATATCAAAGTTATTA
TATGGAAGACCATCACAACAAAACAAGTCAAAGCAGTTCCATTTCCCCGTCTCCAATTCCCACTCAATATTAATGCCAGCTGGTGAATCACGGG
TCCCCATGGCTCCACTCTCCGTCTCATGTACCAGCCTCTTAGGCTATGGCGTTGTGGCCAGGGGCCCCACTCCCAATCTCATGGAGGTTCTTTT
TATAATTATTTCTTTTTTTTTTTTTTTGAGGTTATAGCTGTCATTTTCCTCTCCCCTCTGCTCTTTGGGGGTTATTTACTGGCCTTTCAAAAGGC
AAGTGGTGTGGGTATCTGCTAACCAGCCTGCCACTTCCCCACTTCAATGTCTCTACATTATAAAGAATATCTGTTTAACCAGATTTCTGTGTGC
TTATTGTCTTTGAATACCTCCCTAACATCCCCAAACTTTGAAAACCTTCATTCTGGGCCATGACTCTGTATGACTGAAGCTGTCAAATTGTTTG
TATACCTTCTGCATGCTCCTGGATAGAGGCTTTCCTTGCTTATTGCAAAGATGAGAAGCAGAGCCACAAGTCCTGCCACTGTTACTGTAAATGT
CTTCTATTTAGGGTGAGGGAGACAGTGCTGACTACTGCTCCAAGATTCTAGCACAATGTGAACACTTTTAATCAGCCTCTTGGGCTTTTGTTT
TTCTTTGGGAAATTATTATAATCTTACCCCATCTTTAACTATTTATCTCGTATCAGCTATCCAAATATACCCAATAATGCTCTTTCTGAAAATA
TGCCAGTTGCTCTAATCAAGCTAACCTGGGATAGTACATTGTGATGTCTCTTTCTTAGCGATTGTAACACTATTCCCCAAAGCATGTCTTTGGT
GCAGATTCTATTTTAAAGATTCCAGTAAAGCTTGTCTCATGTACTTATTTTAATGATCTTTTCTGGCTCCTAAAAAATGTTGGTGCAGTTCTTG
TGAGTTGATCCAATTTCATACCATGTCTGTTCGTGTTCTCAGAAAATTTTACTCATTGGCATGTTGTTTACATAATGCTCACAAAAGTCTGGG
TTAGTGTTTGTTGGGAGGTCATTTCGCCTATTGGGCCAAGTTGCCAACTCAACGGGCACACGTCTGGTAGCCTACCTTCAGGATCTTGAGCCAG
ACTTTCTTTTGTAAGTAGCTACAATGAGTCAGTCAGCATAGATTTAGGGCCTCACTGGCTGTTTCTCCTATTCAGTTTGAGCCTGTCAATCCCT
TTAAATCAGCTCCAGAAAGGTGGACACTTTCAGAGCTCCAGCCTTGGTGAGAAGAGAGCGTTTTCTACCAGCGACAGCTTCACTGTGTCGATCT
CAATTTCTCCATCCTGGAGCTAGACAAACTTCATTCTAACCCAGCCAATGATTGCTAGGGAGATGGGATTAGGAGGGGAGTGAGGGGGTAACTG
GAAGTGAAAGTGGCCAAAAAGCTGTCTACACGTGTATGAGATTATCAAATAATAACACAGAAGGGAAGGAGGCAGAGGGAAGGACCAAAAAAAG
CTGTATATGCATGTGTGAGGTTTTCAAATAATAGCAAAGAAGGAAGAACGGGAGAGGAAGGGAGAATGGGAACCCTACTTTATGATGTGTAACA
AACTTTTATCTTTGTATGCTTTTGAGTTTGTCAAAGCACGAGAAGAGCCTCAGAAATACAGCCACCATTAGCCCAGCAGTAACATTTCCAAAGA
TGTATACAATGATGATCTTTAAGGATATGTCCAAAATTGACTGAAAGGAGGTTCAGTGCAAAATTGATTATATAGACTCAAAACAATATATAGA
GTCAAAAGAAGCAAAACAATGAACCTAATTCCTTATTTCCCCTATAAATAAAATTGTAGAAATAGGTTTGTATCAACAAATTGTATTGAGGANN
NNNNNNNNNNNNNNNNNNNTATATCAAATATTTATGTAGTAATTTGGTATCAGGAATAGTTAAGGCCACAGATGTTGTTTTGCTTTTTGTTGTTTT
CCTTTTGTAAATCTTTGTTCTGTCCTCTGATGTCTATTTAGTGCTTAGCAGTGATATTCATTCCTAGGAAGAGAAATATGTATTTGTCCTAACA
GGGAAGCATTAATTCAGAGCAGGTACCCCTTCAGTCTGCCCTAGTGCTGTCAAGGTGAAGCCCAGGCAGTGAGGTTTTCCCAGCAGCTGACAAC
GCCTGCCAGAAACTCAAGCTCTGATTTGTGTCTGCAGGAAAGGAGAGCCCCCCAGTCAGTGACACTCCAGATGAAGGGGATGAGCCCATGCCTG
TCCCTGAGGACCTGTCCACTACCTCTGGAGCACAGCAGAACTCCAAGAGTGATCGAGGCATGGGTAAGTGGCTCACCCTGCTGTCCTGCAGGCT
GTAGCATATGCACAGTTAGGAAATGGCTGCTGTGTAGGATAAGGTAGGTGGGCTCATTCCCTCTTGTCCTCTGAGGTCAGTCACATAACAGGGT
TTCCTCAAGTTGGGATATGGGTGATCTGCTTTAATTGATGTGTTTATTTTTAAGGTGGTTTTCTGTTGACTACAGGTGATCTTGGTGTTACTAT
GTGCTGAACAACATGGAACTGTATGAAATACATTTGTATTAATTTAAAGGTCACTTTAAATCAAGGAGTTCGGCCAGTGTTGGAGCATATAGAT
CTCCTTTGCTTAGTCCTGAAAACACCCTGTATGCTAGGGGTTCTTTTCAAAACATAAACAGATGGTCACAACCTGCCTGTGGTTCTCATCACCA
AGCGAGAGGCTCATTCTGGGAAACAGGAGAAATTGTCCTTTGACCATGCCACACAGGGAGAGCCCCTACTTCACAGTCAGGCTAAGGACTTAGT
TCTTGTGGAGAAAGAGGTGGGCTTGCCCAGAATTTCCACAGCTGCTGTGGAACCTCTGCAGAATCATCATGCTGTAGGTGTGATTTAAGGAACC
GAAAACCAGGCTGGTTCCTGGAGAGCGGGAAAGATGTGTGTATTTCACGTGTCATAGATGAATAGGTCACAAGTGCTGTGGGCACCTTGTCCCT
TTGGCCGTGTAGTGTGAGCAGGGAGCAGGCTTCGCTGGCACTGCTGGCTGGCTCCCTCACGGGCCTTTGCATCCTAAATCAAGTGCTCAGTTCC
AGGTGCCCTTGGTATGCGCACTCTGTAGAACATGTCATTCCCAGGGTCTTCTCTCCCTGACTGTCACCATGTACAATTTTCAGTTCAATTTCCT
TTCAAGATGAAGTTTAGAAAGTAATCATTTCAAACTTGAAAAATTAAAATGCCTTGGTAAACGTTTTGCCTGATTTGGCAGTAGCAGTTGACTT
GGCCCTGAAGACAGGAGGAGGCTATTTGATGTGAGCCTCAGAAACAAAGAGAGCAAAGTTTTTGGTGGACAACTAGAAGCCACAACATCACCTG
CTAGAAAAACTGAGAGCAAAAGCCCAGAGAACAGATAGTACATGGGAAAGGGATGAGAAAACCCACCATTGGAACACCCCCAGCCACACTACAT
GGTGGCCGCCTTGTCCTGTGTGATTGTTGAAGGAAATCCACCCATTTCCACATGTAGGCTATATATAGGCTGTAAGTTTCATAATGTGTAGAAT
ATAACATTAAATAGAATGGGGTAATATCTAGGAGGTATTCACAAATTACAGGAAATAAAGTTGAAGCAATACTTCACCACACTGCCTTATGGAG
TGGCTCATGAGAATCATGGATTAAAAAGGACAGGGGACCAGGAATCAGGAGAGTTTGGAATAGGATCAAAGGGCAACAGGGTCAAGCAAGAGTC
ACCATGGAAACAGGGAGGCAGGAGGGCAAGTCTCAGAAGGGACACATCCAAGATTCTGGTCCCTGACTGTGACCCTCAGGGCAGAACTTCTCAT
TTCTCTGAGCCTCCATTTTCCTCATGTGAGCGAGAGCACTACCGCATGCCCCAGAGTGGCTTTGTGGGCCAGATGAATAAAGCAGAAGACAGAA
TGGCAGACAGACTAAAAGAGAGAGAAAGTGTGTGGGTGCATCGCAGGCACAAATGTTCCTAGGGACTGTTCCTAGAGAAAAGGGATCCATGCGG
CCTCAGTAGTAAGATGAGGACAGACAACAGAGCATAAGGAAGAGATGAGTCCATTAATAAAAAACGGACCCATAAAACACGCAAAATTGAAAAC
AGCCAGGAGAGAGAGAGAAATGTGTTAGAGAAGGACAGCGACAAGAGGAGACTGACTGCAGATTGAGAGCTCAAGCCTGTGGAGTGACCAGCAG
TGAGGACGCAACAACCTGGGTCACTCAGTGGAGAGAAATGGGCCTGCTACTGACAGCTGTGACCATGCCAGGAGACTCTGTACCAGACAAGAAC
AGACAGAGTTAGAAAACAAGTGGTGAGAGACTGGAAACCAGCCCCTGACTGGCTAGTGGGTCATTCCCAGGATTAGAAAAGTTGGGGTTTCACA
CACTGCTGCTTTCTGTAATAATGCTGAAAGGACACCATAGATCTATGTATAAAAATTGGGACAATGGCAGTCAGAGGCAGAGTAATACAAGCAC
CATTATTGGGCCTCCATTTTCTTCAAAGTCTGAATAAGAAGAAAAAAAGATTTGAAGAGCTGCTTGAAGAATTTAAGTCAGACCCGAAGAAGAA
CTTTCTGGAAAGCAGGGATTTAGTCATCGGAACGGTCTACTTAATGGCACTGTGGCTTGTTCTTCTGAAGTTATCTCTTTAATAATGAGAACTC
TCAGCTCTCTGAAGTGGTTGTGTCTGAAACCATTTGAAGCTGACGAAGCACTCAATTGACCTCTTCTGGCAAACCTGAGTTTACCAAGTCTCAG
ATGTTTGCTGGAAGAAGGGCAGAGCCGATTGCACTGACACAGAACTCTAGGGCCTCATAAAGGCCTTCCTGTGGGACAGTGTCCAGGTTGATGT
CTAGAGAGCAGATGGGCAACTATAAAGAAAAGTGATGGCTCAATACTCTATTCCTTTGCTCAGTAATACATCTTCCTTCTTTCTGGTGAGTTTC
CCCCTGGTTTGGGTTTGCTCTTGTCACTTGTGGCCTAGAAGAGAACAGAGCTGTGCTCTCCTTCCCAGCTGGCAAGCTGGGGATTGTGGCCAAA
CTGTGATAAAATCCAGAGCACCACTCTGTTTGAATGTGACCATAGGGAAGCTGGGACAGAGAGAGAAGGGAACCCAGAATGAAAGGTGGAATTC

CAGGCTAAATGCACAAACACCTAGAAAAAGCCAAGCCAGTATGAGGCTTGGCAGAGTCCAAGGGAAAAGCCAATAGAAGGATAGGCCTGCTCAA
GGCTGAGCTGAAAATGGGATGTTGCTAAGCAGGGGAGGCTAAGTCCATGACTGAGCACTGGACAATCTGTGCAGAACCCAGACAGAAGGAAATG
GGATTGAACTCTGAGAAGGTGCATTCTAGGATATGCACCCTTCAGTCTCCCTTTGAGTGTATCTCAATCTGATATTCATCTGCCAGATCTGAGA
GAGGCTGACCCTGTACAGCCTCTCAGTGAGTGCTTGCACCTAACTTTTACTCTTCTTAGCTTAGATGAGAAGAGAGAAAACAGATACAAAAGAA
AATCTACATTTTTCATTCTTCTAGGAATCCTGAAATAGTGAAGTGTATAAAAATATTGATCTTGGTTTTTATTTTGTTTGGTTGTCTCCTCCTC
CTCCTCCTCCTCTTCCTCTTCCTCCTCCTCTTCTTCCTCCTCCTTCCCCTCCTCCCCCTCCTCTTCCTCCTCCCCCTCTTCCTGTTCTTTTTTC
TCCTCCTCTTCCTCCTCTTTCCTTCTCCTCCTCCTGCTCTTTCTCCTCCTCTTCATTTCTTCTTCTTCCTCCTCCTCCTCCTTCTTCTGTATTCAT
TACATTGACTCAGCCATGAGGGCAGGGCTGAAGCAGGAACTATAAGCAATCATTTTAAGTTCTCATTGTATATAGGCAATGTACATGTTACTGT
GTCACATGAGAACATTTAGAAATATATTGTCACATATTGACAACTAATTGTCCTGTGCCAGTGTCCTCTCCCATGTGTATGTGTGGGGGTAGCA
ATAAGTTTTGGTTGGCATACAAAATCTGGGATTCACTGTATCATTTTTAAACATACTATGGCACCAGGCTTATTCGCCCCATCACTACCATCAA
CTTTAGGCAGTCAAGGATGGGTCCTCAGGATATAGAGCAGCCATGAGATTCTAGGCCTAGGAGAAAGAAGGGCTGGAGGGAGGGTTTTTAGGACT
GAAAGAGAGACTGCAAGCCTGGCTGGCGAGTGGGAAGCTGGCTTCAAGTACGGATGTGAGCCCAGTTATCTAATCAGCAGCCAAAGGAAGTTGT
TTTTATCAGTGAAATGCATCTCTTCTGAAGCGACAGCCCCACTTCAGCCTAGAAGCAGCATTATCTGGCAGCATCTGAGCAGCTGCAGCAAGTG
CAGGGACTGGAGGTGCAAGTAGGCAGGATCTCCAGCCTCGGGAGCTGCCACCAGCACTGAGTTCCTCTTTTCTGGAGGTGACTGAAGTATGTAG
GTTGGCTCCGTGTGTGCCTTGATTTCTCTTTCTCCCTTCCTTGCCCCGCTTCAGAGCTGAACGTAGCAGAGCACATCTGTCAAATTCAATACTG
TTCATAATGTAACTTACTATCTCTGACCTGAAATGCTTGTAAAAGCCACTGGTACTCCACCATAGGCATTTCTAAGTCAGCTGAGAAGTATTCC
TTTTTCATGGATTTCTCAAAACATGAGACAGTAAGCAGTGGTATAAAAACTATTTTCCCACCCGCCCTCTCTTTCCATCAGAGGAATGAGAATT
GCAGGCTGCCACCCAGGTCTTTGGCCTTCTGCATGCATCTCCCTTACTCTGTCAACCAGTAGGAATCACAAAGATCTTCACAGACCATCCTAAC
AGTTGGTTATTCCTGAACGTTGAAGGGACTCTGCATATCACCTGTCATCATGGATTGGGCTTGGGTGTACACAGGGAGACCAAGCAGCAGGAAT
TTAAATCCATTCCTTGGAGGAAACAGAAACTCAAATGTGTCAGTCAGCACCTGTGTGTGCATGCTTGCTTCTGTGTATGTGGGCATTATGTGTT
GTGTGTATGATGGATGAATGCATTTATGTGCATGCTAGATGTGTATGTGCTAGTTTATGTGTTCCTGTGGGTGGCATGTGCATATATGTGTATA
TTTGTGCACATGTATAGTATATGTGCATATAAATATGTAATATTTTATGCATGTGTGTTTGATATATAAATATGTGTAGTGTATTAGGGTATGA
ATGTGTGAGGTATGTAAACAATGTATATGCATATGTTGTGCTGTGTATTTATGATGTGTTTGTACATGTAATATATACGTATGGTATATGGTAT
GTGCTATGTGTAGTATATATGTATATCTGTATGGGATGTGTATTTGTCATAGTATGTGTGTGGTATATCTATGATATTTTATGTATCACAGAGT
ATATGGGTATGGCAAGTTTATAGTGTGTATCTGTGATGAGTATGAGTGTTTGTATGATGTGTAGCAGTGTTTGAGTAGTGTGTCTGGTATATAT
TTGGTATGTGTGACTTGTGTTATATGTATGTTTGTACCATGTGTGTGGTATGTATATATGTGGCATGTATGTGTGTGGCTTGTATGTGGTATGT
GTGATTTGTGTAATATATATGTAATATTATATATGTCTGTGTCTTGTGTGTAGTGCTTATGTATGGAGTATATATGTGGTGTATATATGTTTGG
TATGTGTTATATGTGTATGGTGTGCAGGGAGCTTGTATGTGCTGTGTATGTATGTGGTATTCATGTGTGTAGTTGAACAATTTGTGTTAGCTA
TGTTGTACACACTGTGACATGTGTGGTGATATGTATATGTGTTATGTGTTATGAGATAAACGTGTGGTTGTTGCTTTTTCTACACTTACAGAAA
TTATGTTAGGGTATATGAAAGTACACGCTGCATGCCGTGGGAGCATGTATAGACATTAAAATACAACTCACAAAAGTCAGTTCTCTTTGTCCAC
CAGTGGGTTCCATGGACTGAAGTCTGGCCATTAAGCTTTGCAGAAAGCACCTTTACCGACTAAGCTATCTTACTAGCTCAAATGTGTGGATCTT
GACAGTATGCCATGGCTATTTTCTTGGAGATTCCTGGCTTTCAACTAGATGCTTTAGAAATAGTTAGAAGCCCTGGTTCTGGTGTGTCCTAAGAT
CATCAGTGCTGCGGTGACTGCCATCTCTGCACCTAGGAGATGAGGGGTTCGCCTTACCTAAGCAATACATGCACATTATACTCTGACATGGAGT
TCACCCCAGCCAATATCCATGATGTTGTTAATGGCATAATATTAATGTCAATAACTCGTGTTGTGCCAATGACAAAAATTACATATCATCTCAG
TTGGGCAGCCCTTTGCCTGAGATTCCATTTGCAAGTGACATGGGGCAGAAGCCTGGACACTAAGCCTGACATGAAATCACACCCTGGGTCCCAG
AGAGGACAACTCCAGGTCTCTGAAAGAACTTCACTACCTTCCTGTCTGAACCATCAACTAGAACTCCTGGGCATAAGAGGCCTAAGCCAGCTCT
GCCAGGCCCTGGCAGAGAGAGAATGGAGACAAATAAGCTAATGTATGGTTGGGAAGAACATGGCTTTCCACTTTGGGCTAGCCTCTTCCTGTAC
ATAAAGGTCACTCTACAACCCACTTAGTGCCTTGTATTTGTAGACTGCTGACCATGAAATCCTGAAATTTCTTTAGTATCTGACCCAAAACAGA
ACCACTTACATGCAAAGCACAACCCTGCCCCAACCCGTGCTGAATTCATTTTAGTATTTGTGTACATGTTGTTTGGTCAGCTCCCAGCTTTGTT
TAGGATGTCTGGACCTCAGAGATAGAAACTCATCCCAGAAACCTTTAGTGGATAAGATGGACTCCCACTGCCTTGGAAACCTTGACAACTAAAG
AAAGCTGTAGTGCCTGTGTTACAACGACACAACGATAAACTCACAAGAATATGAGGTTTTTGTAGAGAATATATTCAAAGAATAAATAGTGTGT
CCTAACTGGGCTGAGGATTGGGGTTCACGAGGGGTTCAGATTCATGGAGTAGCTGGTATGCTCAGGAGTATGAGAGGGAGCCAGGCCTATTTTA
ACTGTAGAATGAGTTGAGCAAAGAGGGAAGAATGCTTAAAAGCAAAAGAGTAGAGGCACAAGAGGACCCCAGCATCTTGATCTGGGGTGTGAGC
AGTGGTGCAGGCAAGGGGCCAGGTGATAGCTCCAGCTGCTTTACATAGTAGAGTTTGTTCTCACGATAGCAACTGTTAGGAGTCTTGGTCTCAG
AGAAGGGTATTTGAACCTGTGCCAAGCAGTGTGAGTAAGGAGAAGTCAGGGAGAGATGGGGTTTGTCTACTGTCTTGGTATAGGTCCATGGGTA
TAGTGACCAACTACAGTGATTGTGGCAACAATGATAGTAATCCAGCGCTGATTAGCATAGAATCATGATAATTCTGATCCAGGGAATTGGCTGG
AATGTAGGGATGGAAGAGGCAGATGTTCCATCTATGCATAGAGTCAGCTAGGTGAGACAAGAGAGGGAACCCTTGGAGGAACACTAGCCTTTAA
CTGTAGAGAAGAGGGGTAGAGGGGAGGAGACAGTCCTGCAGTTCAGATGAAATTTCTCAGAAGAATTATAGGATGGAAGCCACAGAAAACACAT
GGGACAAAAGTGAGAAAGGTCAAAGAGAACTTAGTGAGTGCCCTTAGTGAGGAGAATTTGGGCCAGTTGTGCATTTCCCAAAAGTAGCTCAACG
AGTTGCAGGCAGAAACCAGACTGCCACGGAAACCAGACTGATGATCAGGGAATGGGAGGGTAGCCATGAGGGAGGATGGACAAGTCAGATGGCA
TGGGAACATGAGCTGAGAGTTGCTGGCTGAAGGGGAGATTTCCAGGCTGATACTTTAGGATGAGAATAGTTAAGAAGTAGGAAGGAGGCCAGGC
GTGGTGACACATGCCTTTAACTGCAGAAGCTGGAGGATCTCTCAGTTGGAGGCCAGCCTGGCCTACAGAGGGATTTCCAGGACAGCCGGGGCTA
CACAGAGAAACCCTGTCAAAAACTAAAATTACGGGAAATAGGAAGGACTGGAGAAAAATAGCTAAGCTAAGAAGAAACCTGGGAAGCAAGCAG
GGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCCCAGCAGTATGGATGGAATGATGGGTGTTGCCTTATTGGGGATGAGA
AAGGGAGAGGAGCTATCAAGCAAGAGTTTTTCTAAGAGGAAACATGGCAAGATCTGATGCTCAGCACCTCAACTGTTTTAGGATACTGATTTCA
CAGTAGCACAGCTGTTGTTCAGGGCAGGGATACAGAGCCTTTGTGGGAGGCTGTCCCTGCCACACTGACCAGTAGTGCTACCCCACCCAGGTCT
CTGTGATACCCACATGTCCCCATACAGCTCCCAGGTGAGAAGCTGACTCAGATGTCAGCCACACTTCCCTCAGCGTTCCCACACTCGAGAGCTT
TCGAGTTCACACAGGACATCTTCAGCTGCCTAAGACTTTTATTGTGGTCAGTAATGTTCCAGAACCCAACATAGAAATTAAAAGTATACTATAG
AGAATTTGGACCAAAAAAGATGCCCAAGCCCCACTCTCAAATGTGCAGCCCTTCTTCCGGCTTTTTTTCTCTTTGTGTCTCCAAAAATACAGGT
TAACTGTGCAAAGCGGTTTGTTTCTGTAAATAAAACCCAGCATTAATCTTATCTTCACTGTACTCTGACCACTGAAATTCAAAAATCGCATTGT
GCTCCCTTCATTTACTGAGAGAAACAAAGAGGAGTCCAAGATTAAAAGGCCCTGGAACAGATAGACAAACGCTACTTTCTGTTTCTGGGTTTGG
TCCCAGTGTTATTTTCTGCTTTGTTCTCTGTGTGTTGAAAGAGTCAGTGGCTCTTCTGTATGTAGAGCAGTCAACTGACATTCCGTTAACTTTC
CTTCTGCATGGGGTTTCAGAAAGAAATGGAAAAAAAAAAAAAACAGGTTTTGTGCTGTGGTTGCCAGTTGCCACCTGTCCTCCTATCTGGTTAGG
ACATTTTTCTGATTTGGGAAGTATAAATATAACCCAGAAAAAAAAAAAAAAAACAGCTTCCCTTCCTTTTATGCAAAAGTAGAAAGGTTTAAGT
AGAGACACCAGGCTCTACCCATCACCCTTCAAGTTTGCACAGAAGCAGCTAAGCCCTGTGCAGATGCCTGCTGGGGGAGGGGAAGTGAGAAGCG
TCCCTCCTCAGGCCCTGAGTGGTTGAGTTCCAGCTTCTGACCTCTACCAGAGGAGCTCAACAGAGCACAGATCTGCTCAGAATCTCAAACCTTT
TGTTGGGCTTTATTTATTTATTTATTTATTTATTTATTTATCTATCTATTTATTTATTTTGATATGAGAAACTTAGAAATAATTCAAAATGTAT
GCTCAGTTGGCAGGGAGTCAGCTGACCTCAATAGATCCATTCATGCTGCCAGACTGTTAATGAACAGCTTGAAGACCACCATGGTTCGAAGTAT
TGACACCACAGATACTTGGCCAATGCTACAAGTTAGGGCTTTTTTCGTTTTGTTTTAATTTGGTTTGGGATTTGAGAGCTGGCTTGATACAATT
TTCATATCATGACACGGAAGTGTGGGGGGGTATTTTTTGGATAGCTATTTGTGCAGTAAAGGCCAATAATTGGCTCCCAGTGGCTCTCTGCCAT
TGGTATCACAAATGAGGCCTCCTGCAGCAACTGCCCTCTCCCTTGTCATGAAGAGAGAGGACTTGTGTTGAATCTGTCAGCTATGTTCCACCAG
GATGGCAATAGACATCATGAGGTGACTCCCCTCGCTGCTCCCTGAACCCATGGTGACAATTTCTCAGTAAGACTTAGCAATATGCAAATGTGGA

AGAGAATGATCAAAAGTTCACCTTACCATGGAGGGACCCCAGACTCTTGGAGGCCCTGAAGCACCCCACTTGCTGGAACGCACTTCTGTGGTAA
AAAAGCCATTCATGCTACCTCTGTTAGGAGCAAGGTCAAGGCAGGCATCTCTGGCACAGGACTGGGGTGTGTCATTGGAAGGCTGGCTGCCAGG
AGAGTACTTCCCCTACAGGGGATGTGGCTGCAGGCTGTCGATTTCCACTGAAGTCACCAAGCCAGGATTCCAGTGAAGCACTGAACGTCCAGCA
TCTTCCCCATCCAGCAGGGTATGAGGTGTGATCATGTGATCCATGGATGGCATCCAGGCTGACTCCTGCTGCCTGGCAGGGCCCAGGCAATTGT
GGACATTGACTTTTTCCAAATGAGAGACCGTTACCCTAGAAGTGAAACCCTGCTGAAATGAGAAAAAGGCTTTTATTACAGCCCTGCAGGCAGC
CATATGATTATTGTTATTATTATTCTTAGAACCTGGCAAATGCTGAGTGCTTTCACAGTGTCTCCACACTCCACTTGAACTTGGTGGCAATAAA
AATAAGAATCAGCAGTGACCCCGGAGCATTTCTCTTGGCTTCTGTTGGCACCCCAATGTGTAATAATGACAATTAAGTATTGCCTGGTGTAGTG
ACCACTTGTTTGAGCCTAGTATGACAGTTGGAACTGCCTTCAGTGAGATCAGGGCTGGGGAGAGAAGGCTGACTTAAGTGCAGGCAGGGGTTTA
AATCCTAAGTCCTAAGAAGATGATGCTGGCTTGCCGTAAAGCCATGTGTGTTTCCTTACAGTTTTGGAAGACTGTTACTTCTCCGTGGGTGTTT
AGCCTAGACTTTGCACCTGTTGCGGGTTTGCGTTTCTCTGTGTGTTTCTTGTATTTCACTAACTACTTTTGTTATTGGTGGGATGCCTCTTAAG
TATTCACCCTTAGCTTAACCCGCACTGTGCCTACATACCACACGCATGCCCATACTCCCTGTCATCCCCTGGAGAGACAGACAGACAGACAGGC
TCACCTTTAGCTCAAGACTTTGAAGCATGTCAACCAGGAGCAGTCCCTGTCTGGGTCAGGAGTCTCAGATGAGTGGTAGCCATTGTTTCTGGAA
TATAGCTATGCCATGCATGATTGCCTGTTTTAGTGGAGCACAGTCAGCTTGAAATGTAGTAATCTAGGTGCTAGATGCTTCTGAATTCCCTAGA
GAAAGGAATTATTTTTTTAAAGGAAAAAAATCCTTCAGGTAAAATTAATGTTAATATATTTTATTTAGTCAATATACCCAAATAGTATTACAAA
TATGTACTCACTGTAGTTGTTGTCTTGTTTTTTTGAAAACTTGTACTTTTCCCGTGGACTGAGTGTTTGAGTCCAGTGTTTGATGCTTATATCAC
ATCTCAGTTTGGGTTGAAGCCAGCTATTTGGAGGGGGCTGATTTTTTTTCCAGTGCTGCACTCAAACACTGAGCTGTGGGCCAAGCCTTTGGGC
AGGGATCTTGACAGTTCCTGAGGAAAGCATATAATTGCATTGTAGAGAATATAATGTGAATGCTTGCTGAGTTGTATCATCTAGTTCTTCCATA
TTTTCCTCAGTCTCAGTCCTGTCCCGTTTGTACTGTTGAGTTCCACTTGGCATCAGCATTTTAGCAGGGGCCCCACATGCATTTGCTTCCACCC
TAAGAGCAGTAGGAGCAGAAATACAGGAACCTGGAAAGCCCATCCTCTTCCCTGAGCCCAACTGACATGCGTGGGACAGGGGATGCTTCTGGCT
TTTGTTTGTATCGCTTCCGTCTATTCCTATGCTCTCCCGTGTATCACTGTGAGCCTATTCATTAAATGAAACATCTTCAAAACATGACAGTTGA
TTCATAAACAAGGCACATTACAGAAGAATACCACAGGCATCTGCTCCCACCAAACCCAGCCTCAGAGACACAGTATGACTGCTGTGGAAATGGT
GGCCACTGAGTCCTGTTGCTGTTCCCTAAAAAAATAACACTGCTGCAACCTGATGAGGCAGCAGGGAGGAAGGGGTGTTGGAAAGGACTTTTAA
GGGAGAAATAGAGGCCAGCTTCCCTCCTGCAAGCTTAAAATGAAGCCTGGGATTTGCCTCACTACCCACTGTGGTTCTGAAGGCCCAGGCATAG
ATGGCTCTGGCATTCCCGCCTCTCCCACTTCACTCCCACCTGAGCCCAGCTTATACCCCCAGCCTTCGCAGACGTCTGCACGCCACTGCCCACT
GCACTTCTTACAGTTCAGGAGACAGGGTGTGTCCCTGTGCATGTGACTGCTGGGTTTCCTGAGCACGCCAGGATCCACAGAGATAGGATCTGTC
ATTGTGGCTTTGAATTGTTATTGTCTTATGATTCTCCCTCCCTACCTCTCCCCTCACCCTTCCCACCCTTCCACCCTAGTCTTTTCATTTTCTC
TCTCAGTCTTCTTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNTCTTCTTTCTCCTCCTCTTCTTCCTCCTCATCTTCCTCTTCCTCATCTTCTTTCCTCCATTCCTTCAAACATTTGGTCATA
GATACATTGTCATCAAATTTTGGTTGCTTGCATGGATCAAAGGACCAATAGATGGGTTGATTATATTGTACTAGGCCACCCTCAGCACTGCTCA
AGAGGCACAGGCAGCTCGTCATGGATAGCCTGGCTGTCATAAGTAACCTGAAGCATCTTTAGGAGCCTATTGTCAGTAACTAGCAGAGTCAAAG
CCACATTTCTCAAGGCTTTTGTGTTTTGTGTTTTTTGTGTTTTGCTTCCTGTTAAATGAGTTAGTTGGTCATTCCCTGGATCAGGATGGATTGT
AATGAACTATGTCTAGCTGGTTGTATCACAGAAAGCTTACCACCCAGTGTCGATGGGTATGCAAGCAGGACTTCTGAGCGCATGAGAGTCTTGA
CTTTGTTGACTGCTCCAGGCTATAAACCAAGCTTTACTGTAGCAAAGTTTGAAGAAGTAGATTTGTTTTTTCCTGAATTGAGAAAACCAAAAGA
AAATCTGCATGATTACTTGACATAGTCCTCAAAGCTGTGTAGTCTTGACAATACTGCCATTGCGCCTACCTCTACCCTGGAGTGTCATGAGCAT
CACAGGTGGACATGAACCTGTTCCTTTAAAGAGTTACATGTACACCATGTCTTGCCTCTGAATCATCTTCAGATTTGGAGCTAAGGGGAGATGT
GTTCTGAGTGGCTCGAGCATTCTAGAGCTCAAGGGACAACTGAAGGTAGTATTACGAAAGACACTTGTCCAGGCACCCTGTTAGGCAGAAGCCA
CCAAGTAAGATGAGATCACAGAATTTACCCTTTGATAATATATATACATATATATACAGGGATAGAGAGTCAAGAAAATAACAAGAGAATGGTG
AGCAATAAAATATGGAAGAATATAGTTTGTGGTACAAACCACAAACCATTCTGTTGGTTTTAGACACTTAAAGTTCAATATTTATGAAATAGTC
AGCTAGGTGTAGTGAAGTTCATAGCTGCTTTTATCAAATTCTCTGATGGTAGTATGACTATTCTCCTGGGAAAGGCAAAAAATTGTCATGGGTT
AGAAAATGCCATTTGAGTCACCAGTGGACCACATGTGTGACAGTCCCATTGATGGTATCTGCTAGTCTATCATAGCTGTCTGCATCTGTTCTTA
ACCCGCTGCATGATCACATAGGACTGAGACCACCTCAGGGTGCATTTCTTCTTCAAGAATATCTATGTTTTTAAGTGATGCATTAAAGTAAGAG
CTTCTGTCCCAACATGGATGGAACAGACAGTGAATATACATCATTGGCTTTAATGTTAACGCTTTTCTCCCATGCCCCATACCCACAGAGGAAG
GCAAACACAAGCACAGCTTGTGAGCAATATCATGTTGCTGCTGTGTCAAAAGGTCCCTATTCCCATGAAATACACTGTGTAAAAGGCCACCCAG
ACCTCATGTGGACTCAGCAGTCCATTTAAAACCATCAGCAGGCAGGTCACTCGCTGTAGGTGCTGGCAGCATGGGGGGCCAGACATCAAGCACT
GAACTAAGTCTATGCATCTGCAGACCATTGCTCCTGTCTACAACATTTCCTCAGCAGCCAGAGCTCTTCCAGTTGGAGATGAGACAAACACTAA
ATACCCTTCCTTCTAATAATTCCTTTCCTTGGAATATAATAAAGACAAAGAGTGAAAAACTACAGTGTATTTGCCTTGCTTCTCACCATTCTCA
CTCTTTAGAGGTTTCTTGTCCATGTGCATTTCTCTTATATCAGTGTGGTGGCATGTCATAGCTAGCCATGAATCCAGAGTGTTCACAGATAATG
ATCTATGGGATCATGGCTTCTTAAGCACATGCTCATTGTTTATAAACTCTTAGAGTTCTGAGGACGGAAGGCTGAGTAGGAAGGCCACCTCCCT
CACAGTTGGTGTACTCTCAGAAATGTGTGAGGGGTCTGCAGCCACATCCCTTGTTGCCTGCTGACCTGCAGCTCAGAAACAGTTTGTCAGAAGT
CTGAAGACACTCATAGATCTTTTGCATTCTGGAACCTTTGACATTTGGCTGAACAATGGGATCTGCTCATCTTCTTCTTGCTTGGTTTAATGTG
TCTCAGCTCAGTCTTTGGAGGTCTTTTGCAATTGCCAGACACATAGACATTGTAGAATAAGACAGGACTCCTGCCCTTAAGAGGTTCTTAGTTA
CTTCTTCGGAAGATGGCTGAAATATCCCTTGTTGCTGTTTTGATACCGTGATACTCTGTGGATAGAATGAGGGAATGATGAAGTTAGCATTGCT
GAGCTACTAAGGGTTCTGCATTGATCCCTGATGCCCTAGACAACACAGACACCTACAAGAGGAAACAGCTCATTGTCCAAGCTTACTGGCAAAG
TCATGTTTTCAAGCCATTCAAAATCCAGTTCTTTAAAGGGATCCAAAACAACTAATACACTTCAGTTAAAGGAGTAAAAACATCCAACTGCCCC
TGCACTGTTCAGTTCTCTTATTCCAGTGGAGGTTATTTTACAAGGAGATTTCTCCATCAGGTCTTGTATTGAATTTCATTTTTACTTTGGCAAA
TTAATTTTCTCCTGAAATCCGTGTTTTCTGGAGAAAGGTTTGGTACCATGCCACATAAGTGTGTCAAATCACTCAAGAGCAGATGGTTTACTAT
CAATGCACAAAGAGTTCTTAGAAAGGTTAAGTGAAGGGGAACCAGGTAGAAAGAAAGCTTGATAATAATGGTAAGTGGAGAGGTGGCCATGGCT
GTTGGTACAGCCCTCCTGGTTTGTGTTAAGTGATGTTCCCTTGGTGCTGATGGAGTTCCTTACCCATTCTTCAGGCTGGGGAATCTCTCTTGAA
AGAAATAGGAGCTGGCCAGAAAGGCAGAATGTTTCGCTATAATTGAGATATAAATTTTAGCTTTGGGTTTAGAAAGAATGGCATAAATCCCAAG
ATTTTCCTTCTGTATGTATGCTGGGGCATTACCAAAATGATACCCTTGCTTGATTTCTCATCTGTCACTCACACCTCCACACTGGTAAATGCTG
GCAGAAATTGTTTGAGCTTGTCAGAAAAGTTAAGGTCTGAAACTGTTGCATTCAGAGGTACCACGCAATCTCTTCAGACCCACATGTGTCCCAA
CCAGGATAGGAGGTTTGCTGATCAGAGATGCCCCCATAATTGGGCTGTTAGTAATAATCTCACTTCAGGAAAGAAAGCGAGAACAGGGTAGGCA
TGTTCAGAAAGCTATCTGGTACATATTCTTTGAGGTAAAGCATCTTTAAAAGGTACTGCTTCCCCAACACTATGCATGAAGACTTGAAGAAGAG
TAAAGTGCTTTTGAAGAGTATGGGTATCACCCCACAACAAGCAGGGACCCTACTTACTGGAACAATAAGCTGGCCACCATTTTGTTTCAGGAAC
AAACCAACTAGACCACTATAATAGATACGGATGCCGTTGGCAATGTATCTATAGGTAGATATGTAATAAAATAAATGAGATAGGCTGGAGCAGC
TTCAACGAGCGGTTGTCATGTTTAACAGCCATTAGTAGATGTCCAGTCTCTCAGTAAGATCTATTCACACTCTGAAAAATGTGCTGCCAAGTAC
AGGGAGAGGTAGCACATGGGCCATGTGGATAGGGTTGCTGTAGGAAACCTTGCCTCTGTGCTGTAGACAGGCAGATTCCAAGCGCATGCCCAG
GGACCTGGCACAGGCTGAAAGAGTGGTCACTGTATGGAGTTGCCAGATGCCATGCTTGCTTACCTGGCTAGTTAGCTTAAGGGCTTCATTTTCT
GATCTTTGGCAGAAAATCTCTCACAGGACTATGGATCCAAGTTTTCAGATTCTTTAGGCTGTCACTGACTTTTTCTTTGTTGCTATCCAAAGAA
CAAATACTTGTTAAATGCCATTCTGAGGCCAAGTAGCTGCCATCTAGTCTAATTTTGTTGGGGACATACTTGCCAGGCATATAATGAGGAAAAT
GGGGGTGAATGAGATGAGCTTGAGTTTTTCTGAGGGGCAGGATATTTTAAAAAAAAAAAACCTGCAATGCATACAACAAGCAAGGAGAGAAATC
AGTTTTGAGGAGACATATGTAGGTCTTTAGATGACATATTATGTGTCTTCAAATATGGTGGAAACTGGCTTGCCGGCTTTGGCTTGGGAGTGAC
TGAAGGCCATTGAAGGAAGGCTTGAGTCAGGGATAGTCTTCAACAGGTATGAACAGGCACCCAGGATATGTAATGTTGAGAGTGACTTGGGTGG

CTTTCTCATGATCAAGTGATCCCTAGTCTAAAGCATTTGTTCTGTCACAGCCTTTTCCAAGAAAGCTGAGAGCATGACTCATCCTTATTAAAAC
CACTTGTGGCTAGGCTGAGGCAGGAGGATTGTGATTTCAAAGCAGCTGGGGCTACACAGCAAGACCCTGTCTTGAAAAGGAGTAGAGAAACTGT
CACACTGAAATTCCTGATTCTTACATGTTAACATCTTGAATGGATAAAGGTATGACTCAGTGGTAGAGTACCCATCTAGCTTGTGCAAGGCCCT
GGGTTCAATCCCCACTCCTGTGAAAACAATGAAGAGTGGGTATGTTATGGCATTGATTGAAAATAAGCAAGGGACATTTGAGGACCATCCAGGT
ACAATTTGAGTCAAGACTCTCAAAGCAAGAAGGCCTGTGTGTTTCAGTTTATAAAGGTATTCAGAGAGCCATAGGGTTGGAAGAATCAATATGA
AATAAAAAAGCCAATTTGAAAAGGCAAAATGATTCCCCAATGAGAAATACTTCATCAGCTACAGGGAGCATGTCATGTAGAGCATGGCTGCCCT
GGGGTGGACTTGGAGATGGTTCCTGAGTAACTGTGCTGTGGCCTCAGTCTCAGAACTCAGGGCTGACACCCTGGGATACTTGGCCAGGTGGAGA
CATGATGTATTCTGTACTTTGTCTCCTTGAGCTTCAAGTCTGATCCCTGCTACCGGTAGTGCAAAGACCTACGAACTTTCCTCATCACCACTGG
TCCAGACCCTCTGGCTGCTGCCGTAGCTTTGCAAGCTATGGTTAGCACCCTCCTAGAAATCTAGTGTGCCAAAGCAAAAGCCGCTCCCACTCTC
TACCCTGCTCTTTAAAGAGTGTGTGCTGTGAGGGGCCCTGCAGCTGCACTACAGACCCTCAGCAACTGAATGCTGCTCAACGTTGCCGAGAGGT
GCTAACCTTGCCCACAGAGAGCTCTGCTCACTCCTGACCGTTAGAAATGTGTCACCGAAGTGTGAAAATACTTATGCTGTTAGACTTCCCATCA
TTTCTTTTCTTTCAATCCCTCTCATTTGCATGGGTTACTCATAAATGTAGATCTTGGGTATGATTTGTACAACTGCCCTGCTGTCGGTCTGTAG
GAAAGCCTTGCTGGATGGGCTTGTCTCTGGCCTTCATCTACAAGTGCTGGGTGCAAGTGAGTCACAGGTGGTGCCACAGGCAGCTGGCCTGGAG
CCGGGGGTGCAAAACACAGAGTGATAGTCGTTTGACACAATTTCAGCTCTCAAACCTGCTTTGTAAATGAAAACACTGCTTTTGGACTAAGTCA
TTCTCTCTGATTCCCAATTGTTCAATTAATCTATGTGTGTTAACACCTCTCTATAACATCATAGATAGTGCCTAGTAATGAACTCTGCGAGTTC
AGGCTGAGGAACCCTGAATGATCCGCCACTCTGCAGCTGTTCAGGAGTTGTACCCTTTTTGTGATGTGGTGAACTCTTTGAGGACTTCAGCACT
GTATTCTTAAGATACTGAAGGAGTGGGTTGAACTGTAGTAACAACAAGGATTTTGCTTTTTAAAAGGATGTCCCTGCATACAGCTTAGCAACCT
TGATTGAACTCAGCCTTTCATGGTTACACCTTAAGGTTGAAACCCATTTCATTTCATCATTTCCCAGAAGGGGCACTCAGTTCACCCATTTCCT
GTTTTTAATCTCAGGTTGTTCTGTGCTTGTTCCACATCTACTCTCCCAGTAGCATGGCTATGGAAGCCAGCGTCACACTCTTGCCCCACCTGGC
ATCTATGCATTTTGCACATAGCTGCCATCCGTTCTAAGCTATCTGTGCACAGATCTGTGGACAGGGCTGGCTGTTCCCCTGGTGTCTGGTGCCA
TGGCCACTCATGGAGCTCGTCACCCCAGCACTGTTGTGCCATGTCTGACACACAAGCTCTCGTCTCCCTATGTACCACAGAGTCTCTTTAGTAT
GTCACAGAGGTGGACATGGTGGTTAAGACCAAAGCTTCTAAACTTGCTCCATCCTATTTCCAGTGGACTTGAACCACTGTGTGTAAAGAATTTT
CATTGACTGTGCTTGATACCTCCTGCCCCGACAGTCTTTAAAGATGTGTGTGTGGGGGTGGGAGGTGGGGGTGTCTGTGTGTGTGTGTGTGT
GTGTGTGTGTGTGTGTACTTGCACACGTTGTTGTTGGTAATGATGTTGAGTGAGACCAGCACATGACTGGCATGTGGTATACAACTGAGCCATG
CCCACACATCTACATTCATGTACCCACCCCTTCAGCGTGCCCTTCCCTGGCCTCCCATGTAACCAGAGTATTGACCTGACCCTTTCAATTCTGC
TCAGGTTTCAGATGGTTAGGACCCTAGGGACAGGAGCCATGCTTACGTTTGTTAACCCACAGGTCCTGCGGTCCACCAAAAATAAGTTGCCTTG
CCTGAGTAATCCTGGCTCTAAGCTGTCTTCTCTGTTCTCATACTGAGTCCTGTCTCTTCCTCTGTTAGGCTGCTGGAGATTAGATAAGAAACCG
TCTTTCCCCCCACCCCCACTACAGTCTGTAAAGCAGGGTCCTCACCCTCAGAGTGGGTGTCTCAGGGATTTGCCAGGAAATGCATGAGTTTCAC
TTCAGAACTTTGCTTATCTGGGTTTTAGCTGTTGTTTCTTTCCCATCCTGGGACCCTTTTCACTGCGAGGTGCAGTTGGATGTGAATTACTGAG
TGATGGGGTCGGGCCAGCTACAGAGCTACTGCTCTTCTTAAGAGTGTACAAGTTCTTAGCATCGTTAGGCCACAAGACTGTCACTTTCAGCCTC
TGGTGTCTTTGGATTCTTCCTAGTTAAGCTTCTGTTGTGTTTCTGTCGCTTAAAAGTGACAGAAGCCTCCAAGTTGATGTCCAAATATGTTTCT
GTATTTGTAAAGGATGTGTTTTACAGGGGCTGGAGAGATGGCTCAGTAGTTAGGACACTGACTGCTTTTCCAGAGGTCCTGAGTTCAATTCCCA
GCAACCACATGGTAGCTCACAACCATCTGTAATGGGATCTGATGCCCTCTTCTGGTGTGAGTCTGAAGAGAGCAATAGTGTTCTCATATAACAT
AAAATAAATAAATCTTTTAAAAAGAGAGAGAGAGGAAAGGGGAAAAGAAGGATGTGTTTTACTTGGAACCCTCCTTGGCATCCTTTGGCAGC
ATCAGTAATGGAGACATGAATGTTTCATCGCTGCAGAGTGCACCTTTGCAGATTTCGTGCAGTGCCCGTTTCCGTCAACCGTTTTAGGTTGTTT
AAGCTTTGTTGTTGGAGAATGAGATGGTGTGGTGCTCACTGTGCTGTACAACCTCGCCTCGCTTTCACGGTCCGATTGCTTCATAAGGTTGAGA
GACACAAAGAGGATGAGAGTCCTGGAGGCTGCAGCAGGACTGGCACATTGGGAGAGTGTGTGTTCCTGCACCAGCAGGTTTCCATTCACGATTT
CCCAGGAGCTTGGACTGGCAGGCCCTAATCTTCCTGACATCAGCCCTTCCCCCATCACTGGCAATGACAAGCTGTTTCAGCTTTGCCACCTCTC
CCAGGCCACTGTGGATGTCACCGCATAGCATGGCTGACTATCTAGTGCAGTCTCTGGCTGACACAGGTTAAGTGGCCATGGGTCACAAGTGATG
CTATCCTGGTGATATTGGTTAAGCTATCTATGTGACATGGCACACGTAGGACAGCCATATGTCACGTGACTACATTCAGTGATACAAGTGCGGG
CATCTACATGACCGTTAGGGTATTCTGGTAACAAATGGCACAGATAAGCACAGGCAACCAGAACCAGCACCTCCACCTAAGCTTGAGTGATCAG
TGGGGTCCCAGAGGCTGTGCTGGCAGAGGGATGGCCAAGGGCATGATTGATAAGGCTTTGCTCCAATGTTAGCTGTGTTATATCAACTGTGTTT
CTTTTATTATTTTTGTGTTTATTTCCATAAATACCTAAATTGTTAGTGAGATACTAACATTTCATTGATTACAGAGTTTCAATGACCCTCTTAG
TCGTTCTCCCCCAAGACATTCTGTGTTCAAAAATATGATGGTTTATATATGTGACACATAGAAAATACCATCCAGAGCGTCTGGCCAAGAATGT
GCCCATCAGAAGCCTTGAAGACAGCATGACAGGTGTAGGGCTGGCCAGGGTTTCTAGGGAAGGTGGACACAAGAGTCTTGAGCCCTCTTCTACA
TAGTCCTGCCCACCAGCCTCCACTAGGGGAATCTTCCCCAGCTTCCATTTTCCAGGGAAAGCCTGAGCCATCTGAAATTCCTTTCACAAAGAAA
CACACCTGGCCCATACAGGTGGACAGGTACCTTGTGCTGTGTATCATCTAGGACCCAGTGTAGGTAATATCTGAGTAGAAAGGTCTTGTGTAAA
GAATGCTCAGAGCACACACGAGCACAGAAGAGCCTTCACCCACTCAGTGCATGGCCTTCCCAGGGCTGGACATAAAAACACACAGATGTGTGTA
CACCACACAGTACTCTAAGCCACCAGTCTCACGTCAAAGTCCCTCCAAAGTTTCAGATGCTAGATGGCAAGACAGTAAACAAATAGGAACAGCT
CTTCAGAGCTACTAGCATAGAAAGTCTCCATGGACATCAGTTTGTTGTGAGAGCAACAGTGGCTCTGAGGTGGCTGATAATTCTCTGGAGCAGT
GAGACGGTTGGGACAGAGGCGTGTGACCTTTAATCCCTGCCTTGGTGAGGGTGCCTTCCATTTACACCAGGCCGCTCTCTCGCCTCCTCAGTGG
GGCCTGCGGGCTCTGCCACTAGCCTGTGACATGTTAGATAAGGACTTTTTCTTCTTGGTGTCCACACTCTACTAGTGGGCTGCCTTTGACTCAA
CCCTGTGCTTGCTGATTATCTCCACAAACAGAGTGCCACAGACTAACACGTTAGTTTGGAATTTTCCTCATTCTTCTAGGATATTCTCTTTTCAT
CTGTTCTCTTCATTCAAAAAAACTGAGTTGTAGAGGTTTCTAAATGTGCCCTTTTTAAGTATTAATATATATAAATATATTCTCTGTTTCAGTA
GTCTACTTTTGTTGCTTGTTTGCTTGATTTTATCTCAGTCCTAACACTAGATTTTTATTAAAATGTAAGGAAATCTTATTGTGGTTTTTATTCT
CGCTGTTTAAATACAAGAGAAAAAGAACTGAGTGGCCTACCAGAAGTATCAAGAGTTCCTAGATTTTAGGATCAAATAGCAGATAGAGTCAAAT
ATGCAGGGCACAGTTGAGCAGCCCCTCTCATCCCACAAGACTAAGGTAGCCGTCATACTCTTCTGTGGAGAGTAGGAATACAGAGCTCAAACTC
TCATTTTATGTTCAAGAAAAGCTGTGTAAATACATGTATACATGCCTGTGTGTGAGAAGACACATGTGTGCATGTGTCTCTTGTATTTTTGCAT
CTGTATAGGTCTAATGGCATGTTTGCTGTTGTTCCATCTTGTGTGTGCATGCCTATTCTGTGACAGTATCTGTGCATGGGCCTATATTTGTGTG
TCTGTGTGCATGTGTGTATTGTGTGTGACCCAAGCTCTCTGCTAAACCCTCTGCATCATTCCCTAATCTTACTTCCCTTTCTGTCAGTTCTCCA
TAACTCTTTGATTTCAGTTGGGCTGGTGTCTTGAGCAGCTTCCTCTTTTCCTGCATTCCTATATTTCAGTGTTCACCCTCGTTCCTCTTCACAA
GCTCTTACCATACAGCCAAGAGGATGTGGAAACCCAGTTACAATATGTCACACAACACAGTGTCACAATCACCAAGCATGTCCCCACCTCCTGG
GGATAGTGATCAGGATGGGATAGGAGAGGCAGGGAGGGACATGGACAGAATAGAGAAGTTTGGCTCTGGGAAGCCCAGGACTTCCTGGTGCGTA
GCTGCTATGCCAGATGCATGGTGAGCAAAGTAGACCATTCCATCATTTTCTACAATGGCAGTTGGGGTTCACACATCTGCCTTGGGGCTAGGGC
CTCCCCGTCATTGCCTCATAATCCTGCTTTTCCTCCAAAATGCCTGTTCTGTTTGGCTCCCAACTTCCCTATTTCTGCCTGTTGGGTGTTATGG
TCTCCTCCCCTCCTTGGAAGTTTCTCCATCCCAAAGCCAGTTCCTACCACGTGACCAGCTGAACAAGCACCTCAGACAGTTCCTCTTGTCTGGG
AACTCCAGCTTCCATAGGGCCATAGGATGGCTCCCAGCCTATTATCTCCCCCAGCCCTGTGGATTTCAGAACACTGTCTCCATAAACTCTGAGTA
GGCAGAGGATCACCTACATGCCCAATACAGGTCTCTTCCCACATACGTGACTTCTAATGAGCCCCCCTAGGAACCCAGGGCCCATGGTCCATTT
CTGCTGGTACTCCATGATGGCTCTTGGGCAGTGGGTATGTGTGTGCTGTATCTTATAGTACTGCCAAGCTAAATGCTCCTGAGCCAGAGACATC
TTTCTCCTACAATGTTCTCCAGTGACACCCTGGGGGTTAGAAGCATATTTCTAGAATGGCTGCATTCCTCCAATGATGTGTTTGGCTTGTTGGA
AAGGCCTTGTTTCAAAATCTATTAGAAGCAGAAAGTTTATTTAAAACAAAACATGTCAGGATTTAGGGAATTATCTGGGAGGAACTGGCTATGA
GGTCCCATAAACGTGGGGTGCATCCATAGCTTGCTGAGTCTCACTAGTAACCCTGGGCAGCTCTGTTGTCTGTGAGTCTTACTTCTGTCTCTGG
TAAGATTGGGGAGGGCAGTATTTATAAGGGTTGCTCCAGGAATTAAACAAGTAAATGCATGGTAGATGTTCAACACAGCTCCCTCACCTAACGA

AAGCTCGCAAGCTACTATGGGGACTGTGGGGGAACCAGTAGCCTTGACCTAGATGCTAAGTGCTTAATACGTCTGATTTTAACTGGGAAGAGCA
CATAGCTTAAACTACTCATTTCTATACATTTCCCAATAAAGTTCTATTGAATCATACAATGAAAAAAAACAGGAAAGAAGAAAGAAATTCTCTC
ATTTCAAAGAAATGCTAATAAGGACAGGACTTTTTGCAATGGCCTGGTGGTAAGAAATGGCTGGTCCCTACTAGGAAAAACATGGTATTTGAAG
GTTCTTCCCAGGAGATGTGACATTTTGATGAAAGTGCCAGTAAGCTAGGGGTTTCTGAGTAATGAGCTGAGCTCAGAGAAAGGTAATGGCACCT
GCGCAAAGGGTGCCAGCATTTCCTGAGTGCTGGGTGTCTTATCTGGCCACTCAGACCACATGGAGCCCAGAGACAGCTATTTTTCTGGATTTCC
TTGGGAGGAAGCTGAAACTTGGTGATGTCATGTGACTCTTCAGTCCCACAGAAATGATAATGTAGGGGTAGGAGGGCCTGAATAGAACTTGCTT
GCCTCTGTGGGCCCATTTTCCATGGCAGTTTCCAAAGCTTGGAGGCCAGATGTTAGGACCACAGTCATGACTAACACCTGAGAGCTTTGTAATG
ATGGCCAAACAATATAGAATGTGGTCAGCATTTGTAATGCTCAGTTCCTGTAATGGGAGTCTAGAACAGAAAGGAAGAAGAAGAATAAAAGGGA
GAATGACTCTTGAAGACCTCTCTACAAAAAGAAACATCCAATGCAAAGGCTTTGTTGTGCTGAAGTTAGCAGTAAGTTGCCCCTAGACAGTGAA
GGGCTTGGACTCCCAGCATGTCCTGCCTTCTCACCATGTGAATTAGCAACCCCCAAATCTAATTCTGCCACCAGCTGCCATTCCTTGGCCAGAC
CCTCTTAACAGTGGTTCTCAACCTTCCTAATGCTACAACCGTTTAATACAGTTCCTCGTGTTGTGGTGACCCCACCCATAAAATTATTTTTTAT
TGCCACTGCATAACTATAATTGTGCTACTGTTATGAATCACAATGTAAATATCTATGTTTTCAATGGTCTTAGGTGGCCCACATTAAAAGGGTT
GCTGGACACCTCCACAAAGGGGTAACAAAACACAGGTTGAGAACCACTGCTCTATAGAAATGTGTTTCTGTTCAGATATAGAGGAAGCTCTTGC
AGGCCACATGTAACATCAGGTTCCTGCCCCCAGAGCCAGAATTCTGGAGAATGTGTCTTAGCATGGGGATAAGCTGATCTCATATTCAGAAGAG
TAGCAATGGGTCCCTATCTGTACTGTTCTCATCCTCCATGAAAATGTCCCTGTAAATATGATCTATGTGTGCTACACACCTGTACTGATGCACT
CTTGTCATGACTCTGTATACACACAACCTTGTGCTCTGGTACACCAGGCCAGCCAAGTACATCCATCCCCATGAGCACACACATATCCCAGCCA
CTGACCCAAGCTTGTTCTCCTGTACACATAGCCAGCTCTTGCAGATATCCTCTCTGCTCCTCCCCATCTGAGCTGGCACCTGAGAAACAGGTGT
TCCTGGGAGGAGCACATGGAGAAATAACCAAAGCAGAGCTGGGGTTTCGTTGCCTCCTGTGAGTGAAGTTGTCAAAAGCCTACTGACCACTCCA
ATCCTGATTTCTCAGCCTGAGTGTGCGTAAGTGCCTCTCCACAGACAAAGGCACACACTGCCAGCCAACACCTGGACCTGTGGCTGCAAAAGCT
GCAGGAAAACCGACATCCTTCCCATCAGTCCCCCTTCTTTGCTGAGTCACTCTTTGCTTGGAATTCTGACAGGTGCCCGTTGGGCTTCTGGAAG
GGAGGGACAGCAGAGGATCCACCCTCTGTGTGTCCCAGGAGAGATTACATTATCTTCAGCCACCCTGAAGCTCGGCCTAGGCTTCTGGAATCGG
TGGGGCTGACACAAAGCCAGTTCTGGGGACAGGGAATGTACGGATAGCCACAAGGAGCTAAGCCATCTGATGTTCTCTTCACCTGAGCACCCTA
GGACTTAGAGTGCTCAGCTCTGCTTTGCATGTGTTCCACTCATTTCAAGGACCAGCATACCCTACACCTCACCCATGTGAGAGCTGCACGCTTC
TGAACTATATTTAAGAAGCCAGGTCAAGTACAATCCATGTAGTGTTTTCAGCCCTACATTTTGCCAATTGCTGGTTGGCATTAGCAGGCAGTTC
AACTTGTTGCTCTTGGAAGTATGTTGCTGGGAAGGTCAGTCTACCAGCCATGTGTAACCTCTTCACTCAGCTCACACCTAGCAGTGGATGGAAG
CTCTCATTAGCTGGCTCATACCAATTTACTCTGATAACGACGAAGCTTGTCCTGGGACCCTTCCCGGCTTCCTCCCAAGCCTCTGTACTTCTCT
GGTGAACACGGCCACCTCTTCACTTTGTGGTAGGCGCCTCTGACTATGTCTCACCAGCACTTCTAGGGCCTGAGTTTTGGAAGATAAACACAGA
AGCCTCCTGGTGTCCCTCCTGACATCTGCAGTTAGTGCTCTGGTGCATGGCCTAATTATCCAGCAAGATTCCAGTGTATACTCTATCCTCAGTA
TACTGGCTCATGTGATCTAGTAAAGATGTCTCTCACTGCACAGAATTTCAAATGAAATGGGAAATAAGTATCTCAACTTTTAACTCATACCCAA
GACCTCAAATGATGTCACCATACTATGAGACACAAAACAAGCACCTTTGTAATAATGTTCCCCTCCTCTGCCCACACCTTGTTCACCTTACTCA
TCAGAATACTCCCATTCTCTGTTTTTAAAGCTTTCATTATTGTTTTAATTTTCTCATGCTTATGTGGTTCTTCTTGAATCCCAGGTCTTACAGG
TGATGTTTAGGAGCTTTCTCATGGCAATTTTGCATACTTTGTACCACACACATGAAGAAGTAATGCTTTTGATGAAAATGTAGCACTTCTTTTA
AAAAAAAATCAAAAAAGCAAGAAACTTAAAACATTCATAAAATATCTCTAAGCTTTTTCCCCCAGACAACCAGATTTAACCTCCCAGCTGTGGG
TCTGTAAGACCCAGAGCCTGACCTAGTTGACATGAACTGTGTGTAAGAGGGCCAGGAGAGAACAGCTCAGTGTCAGAACCTGGGGGAATTACAA
ATGGCACCATAGTGATGACTTGTGGCTTCTCCTGTAAATCTGAATAGAAACATTATTGTTGCTCTCTCCTCGTCCTCTCTAAACGAAATTCTGA
ACCCATCTCTGTATTTCTAAGTCATACATTGCTTTTTCTAACCTGATTTGTTCTCTGTGACAATTTAGTACTGTGTTTGTAAAATAGAGACAAA
GCCAGGACAGGGTTGGCGGTGTGATTCAGTGGGAGAGCACATGCCTCATGTCTTCACAGCCCTGGGTCCTGCCCTCAGCACTGAAGGTAAAACT
CAGGTGTTCTACAACAACCAGAAAAAGGGGGACATTGTGTCCTCTGCATTGTCTGACAGGTGGAACTGGGAGCAAGACAAACTGATGCTGGGAA
CGACCCCAACGTCCATGTCCCCCAACAGCCTAAAGCACAGGGAAGATCACCTCAAACATACTACAGATGAGATGAGTCCCCAACAAAATCCTGA
AACAGAAGAACACTGTTAGGGATTTCAGGGCTGGAACATACAAACATCCTCTACCCTGGCTCCATTGTCCTGGGTGAGCTGCCAAGCCCTCTTC
CTGCTGCTGTTCCATTTTGAGGAAGGTGACAAACGGTAGCTGGGTGTAGCCAATGTCATAGGCCCATAGGATTCTTTGTGGACAAGAAGATAAA
GCGTTATCTTCCCAGCCTGTGGCTTTGTGCTGAGCACAAAGCTAACTACTTGTCCTCTCAGGCCCGTGGAGTATTATCATGATTCGGCACACAA
ACCTGACAGAACAGATGGGATTATTCCCACTTGGTGGATAAGGAAAGTGAGCTCAGATAGTCAGCGCATGATACAGTTTCCACCAAGGAGGAAA
AGCCCAGCATCAGATGCCTCCCCCGACCTGGACATGGTCAGCTGCTTCTTCCTTCCATGAGATCATAGCCTCTAGACTTACAAATGTCTAAGTT
CAAGAACATCCAGAACCAATGGAAGCCAAGGGATTCATTTGATTGGAGAGCCAGTAGGCATAGACTGTAGTGATGTATGACACTGGATGAAATT
AATGTCAAAAATTACTTTCCCCACTGTTGACTTTGCTCTAAATATGCTTGCGTCCTAAAACTGCATGTGAACACCAACATGTTCTGCCATGTAC
TCTGACACTTCTCAATTACTGGACATGGATTTCTGAAACTATCCAACTATTGTAGTTATTAAGTAGAGAGCTTTCTAGCTGAACTGTGTCACAG
ATAACCTGTACCTCCTGTGCATGCTACCAAGTGACACTGAGTGCTAGTCAGCCATGGCCTCTTTCTGAGCATGGCTATGGTCAGGTCACATGAG
CATTCAGAGCTGGGCATTTATCTGGAATAGGCTTATGTGAAGACCAAAGGCCAGAGGGGGGAGGGTCTTCTGAAGAAGCGTCTCCAGGCTATGA
TCATCGGGCAGGCCCTGCAACTCCATAATACTGTGAGGACCAAACACAAAGAGTCCAGAGAGTAGGCAATCTGGTTCTAGGGGAGAGATGATCT
GGGTGTCTCCATCTCAGACCCAGAAAGTCACTTAAGCCAGGAAGACACATGCAAATGGTGGCTGTGGGGTGGAGGGTGGGGCATTGCTCTGGAA
CAAGAATGTGCATGGTTAAATGGAAACCATAACATTTGCAAACATGGGTAATTTGTGAGCTTTGGTTATTGTTTTAGCATTTTCCTAAGGTCCA
TCCCTTTATTTATTGAATAGTGTGATTTGACAAGAGATCTATAATAGCAGTTGCCAGAAGTAGAGGAATTTTGACACAAGATTTTCAGTTCTCT
CACAGAGCACTGTAGACTGCTGGGCCATATGGAAGTCAGATGTGATCATAGAGACTCAAGGAAGGTGACAGCCTCAGTCTGATAGACACGTGTG
CTGGGATGGGAGCCCAAAGGCCACAGCCCACAGTGCACAAAAAAACCTAGGCAGGTGGACAATGGTGAGCAGGAAGCACAGTCAGGAGGTAACA
CAGACCCAGCCTGGGCTTCGCAGTGGCAGGGGTATGATTGGAGCACATCAGGGAAACTGAGGCTCCTTCTCAAAGAAACTGGGATGATCATTGG
ACTTTGTGGGTGGCCATGGAGGAGCTCTGGTGGATTCATTGGCTAGAACCTTGTTTACTGACACACATGGAGAAATAGGAAAAAAGCTAGGCCT
TGGGGAGAGGGTGGGTTTGGAGATGGGCAGCTGTCTGGTGCCTGAAGGGCACAGGAGTGGCAGGCAGGAGGCAGCCCGGGTGCATCCTGTTCTC
TGGGCCTTGGCACAGTTCTGCTGCCTGCTCTTTCTATACTTGAATGCCTGGAGGCATGCAGAGCATCGTAGCCTACACAGAAGGACCTCTGATG
TCCCAACAGGAGATGGTTGAAAGAGTTGGGACAGCCTCACAGCTCTTCTGACTCTGCATCTGGGTGAGTGGTGGAAGTCACTTGAGTAGGTGTA
AGACTGCACACCAATGCACCTCTCCACTGTGTCCACAGGTGGGACGTGGGGCTTCTTTGTATCTTAGCTGTCTCTTTGCAAGGCTGAAACCACA
ACGTCTTCTGTCAGTGATGTCATCTAGCTAGTGTCCTCTTCCCGTGAGAAAACCCTGATCAGCCCAACCAACAGGGAGGTTTAAGAAGAAATGT
ATCTGTCTATAAAATATACTGGTTCTCAAAGAGGAAGTGCTTTTGGCTTCACCCTACACTCCTGTAGAATATACCTATANNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

CTGTCTGAGAAAAGAGGACAAAGCCAAAAATCGCACGGTGCTCCCTAGGTCCCATTGTGGGGTGAGCTGCTTCTGATGGGATAGTGTATAGACA
GGGTATCACAGGGCAATGAGCTTGCACCTGAAGATGGCTGCAAAAGAGCAAGCAGCCAGGAACTGTGTCCTGATTCAGAGCTTCTATAAGCAAT
CTGGGAACATTATCCAAGGTACTCTCAGTGACCCCTGAGCTTCCCGCCTCTGTGTGTACATGAAGAACACCAGGCTTAGCTGTGAGGACCACAG
AGCAGGCACAACTAGGCAGTTGTATTTGCAACACCCTGCAAGTTATTAGCTGGCCACGTGTTTGTCATTCGGGAAACTCTGTTGTAAATGCAGT
CACCCAGTGTGACCATATTCAGGCAAGTAAACACATATGCATGGGGGTGCACACTTAAGTGTGTGAATGCAGTGGCAAAACTTACACATTTCCC
AGTGCCTTACAACCACCCAAAAGAAGGCTGCTTGCAAAACTCTGTCTTTTGAATTATGAGGGTCATGTAACTAGCTTTGACTTTAATTTTCGTA
TTTCTGTGCTAAACACCAAAAACTTTACTTTTCACATTTACATGCTAAACACTATGCTTAATGCAAAGTATAGACCTTCCTGTGAGCCCAAGAT
CCCTTACTGCCAAAACAGTGATGGTGTCTACCTCAAAGACCCACAGTGCAGCTTAGAGGCTGCCTGTGGAAAGCAGTTTGTGTGCACCTGACAG
ACCCACTGAGTTGCTGCTGTGAGAGACTGGATTTTAGCATAGATCGGGGGTTTGCTGTTTGCCGTAATTCCTACCCACTTAGAACACCATAGAA
TGTTTTTTCTAAGTCCAGCCATTGTATCTGTATCAATTCCACTTTACTATGCCAGACAGAACTTAGCAACTGGTGCTATATTTTGCTTTTAAGC
TTTTGGTAGATTTTTGGTTAAGGATGAAAATTAGCAGATTGACTTGAGTTATGGTAGACAAATGATTAATTCTTTTGAAAGGGACTCAACATTT
CATGACCCAGCATCATGGTCTTTACATTAAATAGTAAAAATGTAAACTCCAGGCATGGCAATGAACACCTGTAATCCCCACAGTAGCAGAGGGA
GCAACAGGCGGCCCACCCCTGAGCTTTCTGGCTAGCCAGTGCAGTTGGATTGGCAATGTACAAATTCAGTGAGAAGCCCTATCTCAAAAGATGA
TGATGGGGGCTGGAGAGATGGATCAGCGGTTGAGATCACTGACTGCTCTTCCAGGGGTCCTGAGTTCAACTCCCAACACCATAATGGTGGCTCA
CAGCCATCTCTAGTGGGATCTGATGTCTTCTTCTGGTGTGCCTAAAGACAGCTACAGTTTACTCATATACATTGGATAGATAGATAGATAGATA
GATAGATAGATAGATAGATAGATAGATAGATATTTTTTAAAAAAAAAGATTTGATGGTGATGATGGTGATGGTGATAATGTCTAGAGCAATTAA
AGAAACATCAGACGTTGATGTCTCCACATATGTATCCACACAACTGCACATGTACTATCCACATACATAAAGTTTTTCACGGGGAAAAAGGGAA
GGTTCTGTGGCCAAACAAATTTGAGAAACAGTAACTTAAGCAAAGTTTGATAACTATGTCTTTTTCCTGAAGTCCATCAGCCTTTTTTTCCTGC
TGAGTCAGTAGTTGATCCCAGAAGTTTAATTTAGCCAGCTACTTTGTGTATACAATTCTGGCTGACATTTTGGGAAAGAAGTCATGTGAGCGTG
CACCCGGTGTGCATGCATGTACATATACACACACAGACACGTGTACAGAGTATAACAGGTCTTAGGAATTGGAACTCACTAGGAACGGCCTGCG
AAAGACTACAAGCACGGGGCTTGGTGCCATTTTCAAAGGCAACTACTAAGCAATACGGAAATCTGGTAGCTCCTTTTGGAGCAGCAATTCCCTA
TCCAACAGGCAGATGGGAAATGTTTTAATTTTCTCTGGATACAATAAAGAAAAGACAAAAAAAAAAAAAGCAAATGAAGAACGTTTGAGGGGCAG
ACTACCCATGAGGAAGCACACTGATTGTGCAGACGTGTGCTTTCCCGTGTGAGACTGTGATGTGGCCAAGAGCACACTCAGCCAGTACTACTGA
ATGGTTGCTATTGGTTCTAGGATGTTCTAGGCTGTTGAGGCCGTCGGAGCTTGCTCACAGTTCAGAGGTCCTGCTCTGAGGAGTGACTTTTCTG
TAGCTTGTCTGAAGACAACAATAACAAATTAGCAGCTAACTGGTGGTTTTACATAATAACATTGCCTTTTGAAAGCAGCACTGTCTTCTGCACT
CTTGTGTCCGTGATGATTTGACAACCTGGCTTTCTTTTTGCCTTCTCTATTGCAGTTGCATATGGGGCTGATGGCTTTAGGGATTTTCATGCAA
TAATTCCCAAATCTTTCTCTCGTAAGTATATGCTTTGCTTCTAGAAAACAGATGTTCATTTCATGGTCAGTTCCATCACACAGACACCACCACT
TGCATGTTCTCTCATCAACACCTTCCTTTATAACTTGAAAGTGACATGGACTAAATGTTTGCCATTCTATCATTAAACACCCAGCATCCAGTGT
GTCATTGATACAATAAAGTGCAAAGACAGAGGGTGAGGGTGTTGTTTGGTTTTTGTTTTCTGAGGCAGGGTTTCCCTATTATTCCTGGCT
GGCCTAGACTGCTCTGGGATGCCCAGACTCATCTTAAATTTGCAATGATATTCCTGTCTCTGCCTCTGCCCCTGCCCCTACCCCCTCCCTCTGT
CCCTGCCCCCTCCCCTCCCTCTGCCTCTGCCTCACCAATAAGGATCAGATAGTGAGAGGATTATAGGGGACTTTTGGGATAGCATTTGAAATGT
AAATGAAGAAAATACCTAATAAAAAATTGGAAAAAAGAAAGAGAGAAAGAGAGAGAGAGAGAAAGAAAGAAAGAAAGAAAGAAA
GAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAGAGAAAGAAAGAAAGAAAGGTGAAGAAAGAACTAATGTAGCCACAGTGGGTGTCTCACTG
GGAGGCTGCTCAGCAGGGTCCTGATTAAAACTGTGATCAACAACTTTGTGGTCCATGCTTCCTGTCAGCATCAAACAAACCAACATCTTTTCAG
ATAACTTGTGCAATTTTGTGTGACAGGAAAAAAAAAAAAGGTGCACCCTTTTTCCCTTGCTCTGGAGTGCTAACCTCAGAACAGAGAAGAAAAA
CTCATGGGTTTCCAGCCCATTCTTCTGTGGTGGCTCGCCACGTAAGCATGCACCATGTTAGCGTGCATGCAGCCTACCAGCTCTCCTCGGAGCT
GCTGTGCCGAAAACTATATGGTAATTTCATCTCTTAATACATTGAAAGTTGAAAATGATAACTATATTTGAGCAACCATAAGGAGTATTTTCAA
GAATAGAGAAGGCTTTTTTTTTAATGCAAATAAAATCAATGCAAAAGAGTTACAGGTTGTTAGACCCCTTAGGTCTTAAGCCTTCAGACCTTGTA
TCAATAAAATGTTTAATCTTATGAAGCAGCAGCAGAAAGCAGAGTGTATTGGCATCACTTTGAGAAGAGCTTTGTCTGTGTGTCTTGCTTCAGA
TCAAACCAAAGCACACTCTACCACCAAATTACACCCTAAGACCAGCTTGCTGACATCTTACTACTCTAATCTTAATATTGAGATGTCAGCCGCG
TTAGGTTTATGATGTCCTGTTATCAGATATTACTTGGGAAGTACAGTACTTAGCAGTATCCATCTCAGGATGCTCCTGGTCAAAGGCCAGATAG
ACTTCCCTCTCCAGAATATTAGAAGTTTGCTAAGATATTTCTCCTATTAATTATTTCTTCAGTTCAATGTGAAGGTAAGAATTTGAGATTTCCT
TCTTCATGTAAGCATGTATGTTCACATAACATATTTTTATGTGTGAGCTGTGAGTGTGCCAGGGCAGGAAGTCATGTTAATTTTGAGCCTGCCA
ATCACAGTTTTGAAATGTTTTGGTAAGTCAAGTGCACATAAAGGTAAGACAGCACATTCTAAGACACATTTTCATTAAGCCTGAGGAATGGGCA
AAGCCCAGCATTACCTACTGACCAAGCAGATGGGTGAGGTTTTCAGGATGGGAAAAAATGACAGTGGGAGATGTTCTGAAACATGATAAATGTT
TTCATGTTTTTCATGTCTATCTGCTTATAAAGATTAGTTCATAGTAATACTATCTCTTTTTCTTTCTCTCTTCCCCTCAGTTGTATCTTTCTGG
AACAAATGGTTGGTTGAGCCTCAAGTCTCCGCCCAACAACAACCAAACTGTTCTGGGCCAATATCGCCACCTTGTGGTCATGCTTGAGAACTGA
CCTACAGGCTTCCTTCTGGAAGTTAAAACAAACTTTTGGCCTCCTCTGCCATCTTTATCCCATTTTGAGTCCCTAGATACCCCCCAAAAATTAA
ATATGCCTTAAAATTCTTCTTTCTTAATAAGTTTTCATTTTCTGATCTATTTCCATCTCTGACTTCATTGTATTTGAAGGCTAAACATCAAATA
AGATTATTTCTAAAATAGGCTTGATTAGGTAGAAACCCTATTATTTTAACTATTTTTAAATGATATTAAGTCATGCAATTTGTTCTAAATAATG
CTTACAATTTGTTCTGGATTTGAGACAAGGTGCCATGTAGTTCGGGATAGCTTCAAGTTTCCCAGGGAGTTAATGGAGGATGGCCTGGTTCCTC
CTAACCCCTTGTCTCTGCCTCCCACCACACTGCTGGCTCCTTTAGAGGAAATAAAAAACACTAGTCTGCACATACATATGTGTCTCAGGTCTTC
ACCTATTACCACAAATAAATGAAAATGTACAAATATACCTTATATATTTTAATAACTTTGCTTATTAGCTACAGTTATTATAAAGATCTTTACA
CTTGCATCTGCCTTTTTCCATTTAAAATATTGAACATTTCCTTTACCTGACATAAAACCAGGCTGGAATGACAACTTCAGAATTTTTTTTTCCA
ATGGGAAAATAACATTGTACATTCTGAAATGCTACTTTTCCAGTAAATATTAAGATGCAAGGGAAATAACAATGTAGACATCAAATCTGTGACC
CAGAGGCTACCCTGCATATTACACCTCTGCATTAAAAATGCTCAGTTGCTCACAAGGGCACACTTGGCAGCCAAGCCAGGCCTCCCAGTTCCTG
CTGGCCTGAGTTCCTTCACTTCTCCAGAGTCTTTCATTCTAACCTTTTCCTAGATGCTAGAGGCCTTGCCACACTCGGGTCAGGAGGGCATTC
TCTTAGGACAGCAGGGTGACTATGCTGGTATACCTCTAAAATACATAATGAGAGGGTTTTTTGTTTTCTCCATTTTAAGTAACAACTGAGAAGT
AAGGTAGCTTTTATAAGGGGTTTGAAAATACCATGTTAACATAAGCCATGTTTTGTAAACACTCAAATTGGCCTCGCCCATTATCTGTCAGTAT
CTGGAAGAGTAGGTTGAACCCAGAGCTTTGGGGGGACAGGGGGAATATTCACAAGACTCCATTCATGTTTTATATTTAATCAGCTCAGTGAAGC
ACTTCATCAAGCTCCCTGTTGTTCTCAGTAGTAGACTAGGGACAGAGCTTACACAATATGTGTGAGTCTATTCCTTATATGTAGCATTTCACTG
AAGGAATACCACAGCTAAACAGTTCTAGAAAGAGTCCCTTGTTGTCATGGACAACCTTTTTGGTTGAATAGAAATCTGTCAGATTCCTTATTTA
GCAAGCACCCACTTTGCATTTATCCCCAGAGATATGAGGGCCTTTCCCATGTTTGTATAGAAACCCTTCACATAGCAGGAATCTTAAGTTCCCC
ATGCTGACAGTATAACCTGTTTTTTTGCCAAATCATCTTCTCTCTGGTCACTCATCTCCGTTAGACATCACAGACCTTCCAAGTCAAAACATGGC
TGGCAGTGTCTGCATCACAGCCATAAGTCCCAGCTCAGCAAGATGTGTGCACAGCCTGCTGTGTCCCCACTACTTACGGTCCTTGGCCACACCC
ACAGGCATCTGCAGACACAGTATCTTCTTTCTGAAAAACATAAACTTTCAGTCTTTAACTTTCTGATTACTGATCATCCTTCCCGTACTATCTA
TTGACTCTCTCTCTCTCACTCGCTCGCTCGCTCGCTCTCTCGCTCTTACACACACACACACACACATCATATATAATTAAAGCTCCAGTAT
AAATCAGGCCAAGTAGCTTGGACTTCATACTCTATGTCCTTGGCAGCTATCCACCTATTTTTCCACATACATTTCTTACCCCCATTGTATCTGA
TTCCCACACTGACCCTGGGACAACTTGTGAGCAACCCTCATGCCTCCCGAGTTACCTTTCTCCTTTAATGCTATCACAGCTGGTGGCAGCACCA
TCTTCTAAGGCAGAAATGCCAAAGCCCTGCCTTCAGGTGCCCTAGTCACCCTAGTGATAGGCCCTCGGGGGCTTTCAGGAATCCAGTAGCCTAG
AAAGCAGCACCCATCACCTGATTCATAACCTGCTTCCTCCTGACTCTCCCACTCTCCCTCATTTTGCAAGCAGCCTGCTAGAGGAGAGCTGCTCC
TGGTATGAGAAGCCTGAATGTTACTGCCCATGCACCCTGCTGTCCTGGCCTTCTCTGCGAAACACCCACATAGGCATTAGTGACTTGTGCCAAG
AAATCCCCCCAGAGGATTGCACATGAACTCTGCTGTTTTTATTCATACAGAAAAATGCTTACAACTGGCATGAGCTTCTCTGCCCTGCATGCAG

TGTGCTCAGGAAAGCAGGATCACAGCCTCCTTTACCTCAGTGGAGTCAGGAACATGCTAAGGGGATGGATCATCCCAACACATGTTCTTCCACA
AGGTGATTTTTACCCAGCTGTGGATGCTTCCTGTTTATACACTTTGCTGCAGTTCTGTGTCTTAGCTGTCATGGCTAAAAACTTGCCACATGAG
CTATGATCCTCTTCATGGAATCTTTTACTACAGAGAGAGAGAGAGACAGAGACAGAGAGAGAGAGAGAGACAGAGACAGAGAGAGAGAGAGA
GAGAGAGAGAGAGAGAGAGAGAGAGAATATTGAAAAATAACCAGAGGTTGAGATTTTTGTAGTTTTACTGTGCTGACGTAGTCTAT
GATCTGTTGCTATAACAAAGATTCCACAGACTAGTTAGCATATAAACAATGTAAGTTCGTTTAGCTTGTAATTGTGGAGGATAAGAAGCTGAGT
GTGGTGTCTACATCTGGTAAGGGACTTAAGTGGCGAGATGGGACATTGCTCTAGCACAGGCCTGTCTTCCTCTTATTCAGCTTTGCGTTGCTAA
GTGAAAACCCAAAGCAAGGGGTTCCCAGAGGAACGTGTATCTGGTTAGGCTCTAGAGGTTCCAGGCAACCCAGCAGGGAAGGCTTTGGTGAGAG
TGGCCAATGATAGTGATGGGAGCATGTGTCAGAGCCAATCACACATCAAAAGTTGGGAAGTAGAAAGTGACCAACCGGGACAATATAGTCCCAC
AGTCTTTTTGAGGGGACATCACTAGCCATCTAAGGACTTCCCACCAGGTCCCACCTCAGAACAGACTCTCACCCTGAGTGAGCCTTTGGGAAGT
GTTTTTCCAAACCATAGCCATGTGAGTGCAGATACTGGTGAATTTGAATCTACCCAAAGATAACCTAAGAATCGCTACTCCAGAGTCCAGTGTC
ATTAATCACCGCTCTGTGAACCGCAGACCTTTCCCCTCTTGCCACATGGATAGGATCTGGCCTCTGAGGGAAGTAAGGACTGCTGATTTGCAAA
GTTTCGGATCAGAGACTTGTAGGGAAAAGCTTTTAGAGAATTCCCCATTACAGAATTTCTCAGTGTTGTCCTGGACATGTGCGGAATTCAGCCT
CAGAGTTCATTCTCACTTCCAGGACCTCAGAGCCCATGCTCCGGTTTGTACGTCTCATCCCATTACTAAGCCAGTAAGTCTTTTCTGCAAAGAG
CTAACAGGATAATATTGGCAGTAAGTAGGCACTGGAGACCTCTGTGTGGAGACCTCCCAGATCTAGAGCTAGCAGGTTGCTAGCTCTGTGACCA
TAGCAAGTTCTTTGACTGAACCTCTACCACTACAAAATATAGGATGGTAATGGTGTGGCCCTTTTGAGTTGTTGTGAGGTTAAATGGCAAGTGC
CATTAAAGTACCAGAGGGTCTAGGACAAGGTAAGTACAGTAAGCACTGTTGGGATCAGGCAGAGCCTTGGTGGATGTCACTTGCTGTGCCCCAG
TCCACTGCTCCTTTCCTCAGTCCTCTCAGCTGCCCCAGGCTGGCCATGGCTATGAAAGCTCCTGTATTTACAGATGAGGAATGAGGCACAGAGA
AGTCAGATGACCTGCATAAAATCACTGCGCCTTTAAATAAAGGTGCCACCCCTCCAGGCCAGCCATTTTTCTCTTGGTGTCAGAACCTCAAATG
TCCCAGTCAAGAGAAATTTGGGAAATAAGATTCTCTCTCAGGCTGTGAAGCAGGTGGGCTCCTTTAACTCAATATTCTCCATTGTAAAGTAACC
TTAGGTTCCCCTCCAGGGTCGATTTAAACACACAGCTGAATTCACCCCAAAATTTGGGAACCAGAAGGATTGGGGAAACCCAGAAGAGCACACT
TCAGACATCCTCTATGGCCATGTCCTGGCTGCTGCTCTGGGGACCAAACTTTGAGAATCCTTGACCAAAAGTGCTCAAATTATTATGTCAAATA
GAGGCTGGAGATCCAGATCAATGGTTAATAGTAATTGACTGTCTTGCAGAGGACCCAGATTTAGTTCTAAGCACCCACATTTGGCGCTTCACAA
AAGCCTGTAGCTCTAGTCCCACAAAGCTGCACACAGTGTGCATACATAGAAGCAGACACTCCCACATACACACAAACGAAAAGCAAATGCCTGC
TTCTTAATTATGTCACAGTCACCTCACTGGTTATTTTACTTAGAGCAGCATACCTCCCTAACTCTTATGCACCTAGAAAAAACACTGAGAAATT
ATGGCTACAGTTTCCACTGCCATTGCATGTGGGATTCACCACTGTACCATTAGTGTTTTGGGAGCATGTTTATGCAATGTGTTGTATTTTCTTT
TCAAATGAGTAGGCAAATAACAAAACTACATGACTTGTGCTGGGACTACAGCAGAGTCAATAGCGGTGTTTGTTTGTTAACCTACAAGCATCTT
CTTCTTTGAAAGACTGTTACCTGTTGCACTCATAAACTATTCCAGCTCACCTCTTAGCAAATGAAGGAGATGTGAGGACACCTCCACCTTAGGG
CACAGGCTGGGGTATGCTGCTATAAGATAAAAAAGAAAGCCAATTGCTAAGAAAACGGAACTTGGACAAGGGAGTTGGAATCAGAGGTCCAAAC
AGCAAAGAGCTGTTCCAAATTTGTTGTGCATATGCGTAAGAAAATACTCACCCGTTCAGACCCGCATCTGTCCCTGCATCCCTAAGTGCATCCC
GTAGGTACCATCCACACTCTCTGGAAGCTTGGTGCATGCACCAGTCAGACTGCCCGCCCTGAGGTACAGGCTCAAAACTGCTTAGAAGCTCCAA
CTGTCTATTTGATGCCTTGTTGCTGCTGTGTTGCTATCTTGTGACTTATTTTTGCAGTGACACTGAGTGGCCTCCTGTGTTGTCTCTTTCAGCC
AGTAATGTTAAAGTAGAGACTCAGAGTGATGAAGAGAATGGGCGTGCCTGTGAAATGAATGGGGAAGAATGTGCAGAGGATTTACGAATGCTTG
ATGCCTCGGGAGAGAAAATGAATGGCTCCCACAGGGACCAAGGCAGCTCGGCTTTGTCAGGAGTTGGAGGCATTCGACTTCCTAACGGAAAACT
AAAGTGTGATATCTGTGGGATCGTTTGCATCGGGCCCAATGTGCTCATGGTTCACAAAAGAAGTCATACTGGTAAGGCCTGGGAGTTTTCCCTT
GAGTGTCTCCTGAGGTCCTGTGGGGGCTGAAGGAGCAAAATGTACTGTCAAGGGCTGGGGATGCAAGTTAGTATTGTAGAGCACCTACCTAGCA
CACACAGTCCCTAAGTTCAAAGTGCAGAAGGAGGGTGGGAAAAGGAATGTGGTCTTGAAGCATGTTCCCCATAGACTAGCAGGGCGGCACTTGC
TTATAAATAGCTCCCAAGTTGTACTGAGGCACAGCTTTCTTATTCTAGGGCAGTGTCTGAAAGGTCTTCTCAGCATGTACCTAATCAACCCTGT
GAACGAAAGAGAAGGCTAACAGCATGTGTGTGTCAGCTTCTGAGACTCTGATAGTATACTCGCTAGAAAAAAAGAAAAAAAAAATCCCAGCCAC
AGTGCTGACTCTCATGTCCAATCCTTCACAAGACGAGATCAAAAGCTAGAGACACACCAAAACTGACTTCACAAATTTCTCATTGAGAAACTAC
AGAGAATACTTGTTTTAATCTTGTTAACACTTGGGATTCTCTATTCTGAGGCATTAGTGAATCATTAGTGAGGCATTAGCCTAGCAGCAAAATG
GTCTTTTCGGAAAGGGTGTAGGTCAGCATAAAGTGGTTCACCCTCCAGTCTGAGTCTCTGAGTCAGCTAGCCATATTGCCACAAGTTTTCATCA
CAGAGCAGTAGGGGACTTTCTGTCAAACTCCTATTACGGTAGAAGGTTTGCACAGGCTTTAAGAGAATAAGAGAATGCAATAGTCTATTCAAAA
CTAAGAAAATGTTCAAGAGCCATGCCTACCCCTGCCACTGGCACTGTGGGAAGCCTAACCAGCTTCAGTCGGCTCTTCTACTCCTGTTCCACAT
GTATATGAACAGTCAACTCCTTGTTCAACCTAACTGTTACTCCACCACCACTAAGGACACTAAAGAGGCTTCCTAGAAACATCAGTGGTGTTCA
GGACAAGTGTTTGCATGGTATAAGGTTTCTTTGAGAAAAAAACTAAAGAGAAACATTACTCTTCTTTCCATAGAAGTTTCTTGAAAGGTAGATA
TTATAACCTGGCAAATTCACCTAACTCTTATAGCCACAGAAAGCTCACATGTAAAACGTATAGAGCCTGGGCTATCACTACCCATACACTGGCT
TCTTTGGGGCCTGAGAAGGCTGGCATCTGCTAGTGCAGTGTCCAGGAGGGAGAACAACACGCACAGATGAATGATAGCGAGTTTTACTAGACTA
TCTCAAGAAGCTGAGGAAGATGGCTTGGAAAGGACAACCTTGTCTGTTTCTTACACGGGACTCAACAAGCGTGCGTTATCCAAAAAGGAATCAG
GAGCTAGAACAGGTATAGAGCAGTAGTGTCATCACCAAGGAATGAAGGCGTTTCCAAGGTTGGGTTTTATATATGGACAGAAGCAGTTTCTAAA
ATTATATATTCCACGTATAGTATATGTACAAATGATTTATAAGATGATACTTAAATAAATGTTTTGTCTTCAACAAAAGTTTAGCTCTAAAGTTA
GGCAAATTTGGCTTTTCTGAAAGGAGCCTTTAGTTCTCAAGTGACTCGTAGAAATAGACCTGGCATACCCAGCCCTGAGAAAACCAAATGTGAA
GGTAACCTTGCTCTTGCCTTCTGTGAGGCAGTGGAAATTAACATGGAGAACCCTGTGACAGATGCTCAACCAGTCTAGGGCCTGTAGCAAACCA
TTGCTGATAGAGAGCAAACCTCTGACTGTACAGTAAAAATCCCCTTAGATATTTGACAAATGAATCAAATTCTCGTGTAGTAAATTGCTAACAT
ATGACTGCCTGCCTTGACTTAAAAAAAAAGAAGAAAAATTACATGTAATGATTAAACCTGCTATCAACAGATCTGGGAGGGTACCTGATATTTG
CTACATACTTTCCTCAACAAATAGTGACTAAGTATCATACCTACCCCAATATGCTAAGTTCTTCAATTATGGAACAGATAACTTACAGAAAGAG
GAAACAGGAAGAGACTACACACACGCACGCGTGCACTCATAGACAAAGTTTGGTCATTGCCAACTCCACAGTATATCTCCGTATATGTGAATAT
ACAAATCCCCAGGTAGAAGTAAAAACCCCATTTAGCCAACTAGGTTTGAATAGCTAGACAGAGCAGATGGGCTTTCTCTTCCAGGTCTGGGTGG
AATGTGTCAGCAAAGTTTTGGGCTCTGCATTCCTACAATAACAGCAGGTTATGAGAACACTGCCCACCCCTGTGAAAGGCGCTGGGAATCACTT
GGAATCTTGAGAACATGCAGGGCCTAATTCAGACTCTGGGAGAATCTGGAGAGCCAGCATTCCTATGAAGTCCTCGGAACGCTGGGCATGGAAG
CTAGAGCACAATAAGCCCCCGGGGACATGCTGCTGAGGACAGGACAATAAGCAGGAGCCATCTCTGTGGCCTATGAGGAGCTGATGTAGGATGTG
CTGCCCCAGTGGACAGCTAGGATGTGCACCAGAGCCTCTCTCTCTTCTTCCCATTGCCCATGACCCAGTCAACCAGCCTCATGACTTGCAGCCC
CTTTCTAGTAAACAAAGATCTCAGGGGCATAGCCCAGCTTCTACTCCTCTCACTGGGTGGCATTCCACTGCCGCCATTTTCTAAATGGCTTGTG
GGCACCGGTGTGTCACTTCCCCTTGGGTGCTCAGTTGGTTTCATGTTTGATTCAAGTGTCACAACCCCAGCGTAGCCACCAACAGCTCAGGGTG
CATCTGAGGATCACCCTGGGGTGGTAGGGAGCTGCAGAAGGGCAGCGGGGCCCACCTGTAACATCATTATTCTGAATAGCAAAGACTAGGAAGT
GGCCTGAGCAGAACAAGAGGCTGGCTTCCTGTGGTCTCCTGCCTAGCAGGTGCTGCCACAGGCGTGGTAGTTACACATCTATTCTTGTATGCC
AGGCTTTTTTTAAAATCTACCTTCTGCAGACAGGCCTTCGGATGTTCTACCAGGTCTTTTTCTTTTTTTAAAGAAGATATTCTTTATTACCCAA
GTAACAGGTCGCAAACGTTGTGACAGAATAAAAAGTGTGGAGTTCCTGGGATGGAAATTAAATTCAAAATTTGCAGTATCTAATGTCTCATCCC
AGTTAAATGTAGGTGGATACAAGCTTAAAGGACCTTAACTTAGCTACAGGCTGTTGTCCTCCAGGAAACAGGTCATGGCCACTGTCAACAGAAG
CAGACATGGGCACTGTCCCATGATCTTCGAACACACCCCCTTATGTGTAACACCTGCACTGAGTGAAATACCATATGATCCATTTTAGAAATGT
GGTCTTTAAGCCTCCCCACCATGGGCTGTACATTCATGGCCCACACAATCAATTGGAAATCAGTAGATTTACAGTAGCTCTGCCTTACCTTGCT
TTGTAGCAAGGCTTGAGACACCAGGCAAGCAGTCCCCATGGAGAGATTTTGACTCAAGTGAGAAGGCAGGTTTTAGTCCCCAAAGAATGCCCAC
CTTCCCTTCCTGTAGAAGAACAATGTGCTTTGAATTATCAAATTCAAAGAAATTGAAAGAAATTGATAATTCAAAGGCATTATTAGTCCTGTCT
GCCTCCCAATGGCCAGAACACTAGCTCGAATCACATCAGGGAGACACCTGGAGCGCCTCCCAGCTCAGAAAGGGGTCACTCAGCTGCTAAGCAC

GTGACTTGGCCCACTTGGATCACCAGGAGTGTCTTCTGAAGCTGTCCCGTGTGCTTTCCCATGCAGCCTGAGGGCCCAGCCCTCTCTGAGGAGC
AGCTACAGTGTTAGGCACGTTCCACTTCCCCAGCCGGATCTTCCTGCATACACTGCTTACTTTTCTTGTTTCCGCTCCTCCAGTTGGAGCTGAA
CACTTTGTGAACACAGTGTCCGCTGAGTGTGCACTTGGGTTTCCCAGGCGAGGTGATGGTTAGTGAGGCTTCTAAATGCTAACACCTACAGTTA
TCGTTCTCCATCCTCCTTGACGTTAAACAGTGTCGTCACGTTCACCTGGGTCTAATCCAGACAGGAATTTGGGGAAACGTTGAATACTTACTGG
TTAGTATCAAGAGCCCTCTGACTGGCCATTAAATATCATTGTAAATTAATTCTAACTTTTGTGTTTGCAATGCCCAGTGAAAAAGACCTAGAGG
TAATTCGGAAATTCAGGCACCAGTATGCACATTAAAGCTTAACCTGGCACAGCTTTTAACAGTACCACCTGTGATAAAAAAAACTCTCTGCTGC
CCCTCCATTTCCGTGTTGGAGAAATGTTAATTGGGTATTTTTAACACATTGTTCACCCTTAAGAGAAATGTGTCTCGGGACATGGGTTTCATAC
ATAATGGTCTTTTAAATGAAGCATCTGTCCTTCAAAGGCAGCGTTTATAAGGCACATAATGGACACACCATTCCTGAGAGTTAAAGGCTAAGTT
AGTGTCCACCCAGCAGGACAGTCACACACTCTTTACTCACAAGTAGCTCCTGCAACCATCTCCAAAGCCAGGGTGTAAGCCAAAGCTCTTGGGC
ACATAGTGCAGGAACCCTGGGCTGTCTCAGTCACAAACCAAGAAACCTCCTTGGAAACGCCCTCAATGGCAGCAAGATCTGTACCTGGAACATG
ACTTGTCTACTGTGGACACAAAAATGAATTCGAAGGATCTCTGAGTTGTGAGGAAAGGGAAAGGCAGGAAGTCTCAGGCAACTCCGAGCGCGGG
AGCCAGGGGTTCCCTCTGGAGGACAGGTCACGGCTGTCCTGTCCCTGAACTTCTCTTTTATTCAGTCTTTCTCCAGTCTCTCCCTCTCACGCTC
ACACTTTCTCTGTCTGTCTCTCTCCTGATTTGCCTGCTTAGGGACAGACAGGTAATGGAGAAGAAATTGAAAGGGAAAATACAGGGAAAATGTA
AATGAAAAGAAGTTATTATAACTGTTATAATGAAGTGCCTTTCATTTAAATATAAGAATGTAACGCTGAAATGAACTTGTGATCCTGAAATGCA
TTTTTAATGAGTTTCCTTTTTATTTTGCTGCTTCAGTGGCATATTTTAAAGACCCTTTGAAAAAAGCCACATTAAAAACCCCACCAAATGCCAC
AACACGCAAAATTGGATATTGGTTTATTCCAAAACTGCTGATCAGGAAGAGTGACTCTTCATCACAAAATGTTGCAGTCACTTTATTTAAATGA
GTTTGAATTTGCATTGTGATGTGCCATTCTGATTTAGGGAAAAAAAATTAGATTTTCAGATCAAATTGACCCAGCCAGTGAAGCGTTAAGCAGC
TGGCAGGTTTAGTCTGAAAGCCTCATGTTCTATCAAACCTGCAGCCGGTGGAAGTCACCAAGCCCATGGGAAACAACTTTCTCGAGGCCGCGCT
CCTGAGCAGCTCTCTCTCAGTGCTTACCATGCTACCCTCTTCCCTTCTTGCCCAGGTGAACGGCCTTTCCAGTGCAACCAGTGTGGGGCCTCCT
TTACCCAGAAAGGCAACCTCCTGCGGCACATCAAGCTGCACTCGGGTGAGAAGCCCTTCAAATGCCATCTTTGCAACTATGCCTGCCGCCGGAG
GGACGCCCTCACCGGCCACCTGAGGACGCACTCCGGTATGTTCACTGAGCATGGCAGGGATGCCATGTAGGGACCCCGATCATGTGTTCCATGT
TCCCAGCCACTGCCCTTCCAATCCACCCAGTCCACAGCCCTCTGGGGTGTTGGCCTCCTATGTGGTAATCCCTTATTCCTACTGAACCAGAGGA
AATGGGGGGGGGGGGGTGCACACATGGAAACCCTGCCTCCTTGGTGTGTTTTAGAAGAGCTTTCCCTCCCACCATGTCAGGTAAGTGGGTATTTT
TCTGAAGTATACTGCTCATGCCCTTAACCTTCCATACACATCCTTTTACACCTATTGCTGTGTCACTCATATCACTGGCTTATGTGGAATATAT
TGACTAGCAGTAATAAACGTAATTATTTTCGTTGCAGAGAGATAGGTTGGTCAGAATATAACCCTGTCAGCCCAGGGCACACTGCCCCAGCCAG
AGAGTAACTTCCAGGCTGGAAACCAGCAGAGGCTTTGATGGGACTAATCAGTCTAGAGTTGTCAGCAAACTGCAGACAGGAAAATTTCCCTGTA
AGGATGGTCCAGATACTCTAGAGTCTCAGAAGACCATTTATATAAATGCTGGACAGTTGTCAGAATGTTCCCAACCTGTCACACAGACTCATCT
TTAGTTATCATACATCTTCTGCCTCCTGGGTGGCATCTTATCCAGTAGCCCTATAAGCCTCCAGGTCTGAGATATAGGAAATAAAAACTATATG
CTATGTTTGCTTGCAATCTAGTATTTGTAACATGCATATGTCGCTTCCATTCTGCACTGTCGTGTGGTGTCACGTGCTACACTGGCTTTAGGAG
CTCTAGGTTGAGGGGCCTTGCCCCTGCCCTCCTAGAGTGCCCTGTCATAACAAGCTGTCACTCTGTCCTTGCTCAGTGACAGAAGAAAGGTCCT
CAGCTCATCTTCCCAAACAAGATCTCAAGTTATCCATCTCTTCGCCCCATATTTCCTAAGCCCCTCAACAGCGTCCTATGTGTGTGTGGCATGG
TAGAGTCCCGAGGGTCCTGCAGGAGCAGAAAGAAAAGACAGTCTGTCCTGCCTGGAGGATCCATAGAGATTCCCACAGCAGGAGGGCTACAGGG
CGGGGCCAGCTCAAGCTAAGTTTGCTTTAGAGGAACTCTAAACCAATGAGAGCAGAGGTTATTGCAGCACACATTTTAACAGGTGGTATCCAGA
GCTGGGCTTTCTGGTTAGTGGTCACCTCCAGGTGGGCAGATGTAGAGAAGAAAAGAAGCTAAGGCTATGTGTCATCTCCCCTGTACTCTACTTC
CCTACCTGACTGGCAGTAAGCAGTCAGGAGACTCCTAAAAGTGTGCAGCAGAAAGTTGTGACTTGGGCGAGTTTCTTGGCACTGCCAAGAAAGG
TGGTGCCCTCCGTTGAGGAGCTGTCCTCTCAGGCAGCATGTGGGTCAGAGGACGTGTCAGGAGACAGACACCTCCCTGTCTTAGGTAGGACACT
ACCTCAGATCTGGGAGGCGTTTTCTACAAGGAATGAGGAGAGCCAAAGGCTTCCTGGGATGGAGGTAACTCTGTCTGTGTGTAGCTGCTCCACA
AGGTGAAGGCACTGCAAGGCAGGGAGTGACATACAGACCTGGGTAGGTGGCAGGTGACTTAGGAGAAAGTCACAGAGACACAGTAGGCAGGTAC
CATGCACTCAGATTGGCAGCAAGCACGACTTCCCAAGCCAATGGAAAATTCCAAGACCCACTTTTAGGCTGATACCAGTCACAGCACTATCACC
CTTTAATTACTGGTTTACAGTATAAATCTTTCCTGCATGCCCATCCTTCAACTTAAGATAGCAAGATAACATCTTGTGAAATCAGTGCTGAGTT
TTGCGTTTTGCCTACATGCTTGATCATTGCATTTAAGGCATGGTGGTATCCTCCTCTCGGTGGGGCTAATGATTTGAATAATTATTTAAAACAG
ACAGAGGGCTCCTGACAGTTATTTCTGCCACAGAGTCACCAATCTCTGGTAAAGATGTCCACCAGAGACCTGGGGCATTGGTGACTCGATTGTC
TGAAAATGTACTTAACAAACACAGCTCTGGGAGAAAAGAAACACTGTGTTTCCTTCTTCAAAACAATTTTACCAGAATGACAGGACTTCAGCCT
TTGTCTGCAAAGTCCAGGGTGTTATATTTTCTTAATGAATGGCCACGCCCACATTCCATTAGAAGCTAGGGGCAACCATAGCTTTCCCTAGCAT
CCTGTGGTGGTCTGACGTTCTAGACTCTACTGTGATGATGGAATTTGTGCTGGTATCAGGGTTGGTACTCTTTTGAAAACTACAAACTTTGTTA
GAGTCAGTTTGGTTCTCGTGTTCTAGCATTAAAGTCAATCATATACTAAGAAAAATCAGGTACCATACCATTTATATAGGGAGGCAATTTGATT
CACGAAATCACTAAAATTAAATTTTTTTCGGGAAAGGGCATGTATTAATTTCTGTAACCATAGAATATAAATGTGCAACCATATGTAATATTCG
TTCCATATTTCATCATTTGTGGTACATCACTGTCTCTAGACAAAAATTCTATATAACTGGAGAGACGGCCCAGCAGTTGGAGCACTGGCTGCTC
TTCCAGAGGAGCCACATTTGATTCTAGCACCCACGTGGTGATTCATAACAATCTGTAAAGCCAGTTCCAGGGACTCCAACTCCCTCTTACAGCC
TTTGTGGGCAGACACCAGGCAAGCAAGTGGTACACAGACATACAGGCAGGAAAAAAACCCATACCCGTGAAATTAAGTAAAATAAAAATCTGTT
CTGGAGTCTATAGATGAAGCTTTGGTTTCCTTGAGAGCATCTTCATAGCATCTGGTCACTTAGGAAAGAGACTTAAGTCACACTGAATTACCAG
TTATCAAGCATTCCTGTTTGGATGGCTTTATATCATACTTAGCATGAGAAATGCAATGTGATGTTGAGGTGAAACTCTATATTCCACATAAAGT
AATTGGAGACCATCTTCTCTAAAAAAGGGTCTTTATTGAAGTCTTTAAAAACCGATATTATATGGACCCTTTCCTATTCTTCTAAAATACCTCT
CAAAAAAACCAGGAAGGACTAAACTCTTGTAGAACCACATTGCCACACATAAAAGCCACTGGCCATACTTAAGTTTTAGTAAATTAAAATTAAA
CAAAATTAAAATGTTAGTCCTAACATTAATCTAGCCAAACTTAGAAACTCCATGTAACTGGTAGCTACCATAGTAAATAATACAGTGAATGCCA
AGCTGAACAGATATGCAAAGAACACTTAGAGTGCTCAAGTCGTTAGCATGAGTTCTAATGGCCAAGGCTGATCTGGGAGTTTCATCATCTCATA
TTCTTTGGGGATAGAATAGAGGCTTTTCATATGCTCTTCCTATGCAAAACACATTGTATATCCTCCAGGTATATGAAAATGAATTTGGCTTATC
CATATCCCTTTTCATTTTGTGTTTATATATTGTATATTCTTAATATTCTTAAGTGGGATAGTATGTACTATAGTGTAAAATATATTTGTATTAT
ATAGAAAGATACAATTTAGAAATACTCATTTCTTTAAAGCCTTTTCCTGCCATGATTTCTTAGAGACTTGCGCAACCTCATTTTGCCTCCTGAA
TTTTCACCTTATTCATTAGAGGTTGTCACAGTAAGGGGTCAGCCTGGGGAGAGGCCCACCCTGACAGTGAATCTGTACTCTCCTCATGTTTCTG
TCCACACTGGAACATGGAGATAGTTTACTTTTTACCATTAAAGGAGACCCTTGAGTCCGTGTCATAGGTTAAGATGAAATTCATGAATTCTTGG
TACACTCAATGAGTCACCTGGGCATTAACATTTTTAAAATTCATTAATTTTGACTAAGTCCATAATAGTCATAGCTCAGTAGAGAGTACATTAT
TTTTTTATCTTTTTTTTTTTGGTTATAAATGTATTGATTGCATCCCCATTACCCAGAAGGCCAATATTTAATTGGAGTCTTAAACTCAATTGTGT
TTTCTGCAGTTGGTAAGCCTCACAAATGTGGATATTGTGGCCGGAGCTATAAACAGCGAAGCTCTTTAGAGGAGCATAAAGAGCGATGCCACAA
CTACTTGGAAAGCATGGGCCTTCCGGGCATGTACCCAGGTAAGCACTGAGGCCCTGCTGAGCTGCACCCCTCCCCCTCCCAGCGCCTGGGCCAG
GATGGGGCTCTGTGGCCTGTTTCAGCCACAGGAGGAACTTTTTGTCTTGTAGCAATGCATCTACACTAGGGACAAACCGTGCTTCTCTACTTCC
CAAGTTCTCAGTTGACCAGTCATACATAACCTGTCTTAAGACCTCCTTAACAGCAGTGACCCTTTTAAGAGTCTGTGTTGTGGGGTATTTTGTC
GTTGTTGTTTGCGTTGTTTGGTGTGTTTTTTTTCCCCAGGGGGTGGTGGGTGGGATTCAAACCAAGAATTGGCTAAAGCTATAGCTAAGTGATG
AATGAGCTTGCCTGGTGTGCAAGAGGCCCTGAGTTTGATCTCCAGCACCACAAGTGAGAAAATAAAATAACCAAGTTAGAGTAGTGTCGTTCGT
GATTTCTTCTTTGTGTTTAAATATCCAAATAAAATGTGAGTCTTTTAAAAAAACACTAATTACTCATGAAGGTCTTCAAAAAAAGAACTGTTA
AGCTAGAACTAAACATTGATTTAGACTGAGCTTTGAGTATCCACAGTTGGAGAGAGCAGAACTTGTTAGGAGACCTGGTTGGCACTGGTTCTGA
GCCTGAGGAAGAGTGTTGAATGTATATTGAGTACTACATTGTGGTGAGAATCAGTTTCTAATTTGTCCTGCCTGGTGTCTGTTGATTCAGAGCA
CTGCAGTGATGGCTTCATGCTCCAGTTCTTTCTCAAGAAGTGAGAAATTACTCTTGCAAGAAGCAGCAATCTGACCTCAGCATGCCCAAAGAGG

CATTTAATTACATTGGGTTCTTCCTGCCTCTGCCTCAGGGCACATTAAGATACACTAGATGATTATAGTTGCCCCCAAGCCAGTGCTAGCCAGC
TTCCATCACTGTAATGGGTGTCTGAGACAACCGGTAATAATAGGAAGGAAATTCTGTTTTGGAACTTTGGAGGTTTCAAACCATGGTCAATTGG
CTCAATTGCTTTGGCCAGGTCATGCTGGGAGCACAGGTACACTGAAATCTCCTGCCAGAGAGACCCTAATAAGCCAGGGAGAAAGAGAGAAAGA
AAAGGTTAGGGACCCATGCTCCTTGTTGAGAGCATGTCCCAATGATTTAAGGACTTCCCCCAAGACCCCAGCCCTCAAGGTTCCCAGCATCTTT
TCCTTGGTTCATCCTAGAGCCAAGGCCTCCCACATGTGGGCCTGTGGGGGACCCTGCAGTTGCAAACTGTGGTTGCCTAGGTCATGTCTTACTT
CACTATTTCACCCCTGAAACCCCTGCCTTATACATATACACTGAGTGCTGGCTTAGGGAATATGGCATTGAGGCTCCATCCTGCCAATAAACAT
GTACATTCTCATTTGTCTCCTGACCCTGACCCTCCATCTCCCTCAGGTCACCTCATTACTCCCACGGACCTAGTTAGGTTGGGTCCATTAGTTG
AAAACTGCCTAACTCAAGAGATGTAAGCTCAAGAGATGTAAAAGTAAGGTTTGTTTTTCTGAATATGATTTTCTTTAGTAAAAAGGTTAAGGAT
ACCTGTTACATTTCACCTATATCTGCATAGGATAAGGAACTATCTCCTGAGCCTCACATGCACCAAGGACAGAGGAAAAAGTACTGGGCTCAGA
GGTGTGGTATGATGTCACCTGAGAGATGGAGCACCTGAGAGAAGGGAAGATATGTAAATTAGCTTGATAAATCACATGTATGAATGACTTCTAG
AATTAGATTTTATGACTTTCTGTATTTCCTCCTATTAATCAGAGTGGGCTGAATGTTGAGCTATTTAACAAGACACCCTCATAATTCACTGTTA
ACAGAATATGCCAGCAGTAGTATTTGACTAGAAATGCAGGTTTTAAAGTGACGATATAAAAAATGCATAAGGATTGTGTGGGCATGCAGGGTAC
AGAATACCCAAGTGGCAGAAACTACCAGGTCATCCTGGGCAAGGGGGAGATGTAGAAGATGATGGAGTGAATGAAGGCTGAGCCATTGTGAATA
TCCATTTATTGTAAAAAAAAATCTATCAGAAAAAAATATATTTAAATATTGACAAGACTAGGATTATGTGAAGATGTAGCTATGGGTCAAGGAA
CTCTTTGAGGAGCATGAAGATAAACTAGATAGAACCAGATAAACCTATGGTAAATCAATGGCCTGAGAAGGGAAACACACAAGGCAGGAACAGT
ATGGGAAGAGCTGTTTAAAAAGTAGAAGCTGATCACTTTACACTCTAAGCTCCTGGGGAATGAAGGAATTATATATTTTAGAAGTCCCTGCCTT
GCAAACTAGGTGTCAGGATAGAAGAGACTATGCAGGAGACAAACTTGTATCTTCTTCACTTATGGGCAGGGAGAGTTGGTATAGAAAAGCAGAT
GGAATGAGCTAACCTGTATGTCTGTGTTTACCTTAATGGCTGCTCGGCTTCCTACCCTGTGTGATTGCTGTGTGGTCATTAGACATGTGCTGTG
TGGTTGGGGACTGCTCCCTATAGAGTTGTGACTTTAGACCCTTTGTTCATTTCTGGACCAGATGATATTTGGTTCTCATTGTTGTTGTTAAATT
TGGTTAAGGCAATCTTGACAAAGACCCTCCAAAGTAACACAGTTAATTCACTGTGGTCCAACCTTGTGTGGTAGACAGCAGCTTGTTATTTTGG
TCTTAGGGATAATGTGGGTTGAACAGGTGGAGGATGGGGTCCTAGCAGGTGGCTAGTCATTGGCATTGCTGTAGCTGGTTCTGCCAGGGGCTGC
AGGATGAGAAATCGGCTCTTATTGGCACTTGACAAATGTGCAGTTAACACTGAATACAGCAAGATCTTGAAGTGCAAGCATTTCTAAACTAGCC
TCTCTAACTGTCTTTGACTTTAGTCATTAAGGAAGAAACTAACCACAACGAGATGGCAGAAGACCTGTGCAAGATAGGAGCAGAGAGGTCCCTT
GTCCTGGACAGGCTGGCAAGCAATGTCGCCAAACGTAAGAGCTCTATGCCTCAGAAATTTCTTGGTAAGAGTTAAATGTTTGCTGTCTCTTAAC
CTAGAATTATGTGGGTGTTCTAGACAAAAATTATTTGAAAGTAGAAGAAAACAAAAAAAAAATCTCCCTTTTGGAAAAAAAAAAAGCTTATTAT
TTCTTAAATACTGTAAATTTTTTCTAATAATATTATTCAAACTGATAGACCTTTTACCAGGAATTAGATAGGGTGTCATAGCATTTGGAGCCTT
TGGTATGATGTTTCTGTGGCCGCTCTGACATGGTTACATCAACTCTTTCTCCCCTCCAAGGACAGTGAGGGCTAATAAGAACCAAACAGAGATG
AGCCCCCTCAGAAGACAGCGGAAGGGTACAGCTAGACTTGCTGTTCTGATCACTGAATCCTTACCTGTCCTTGATACTATGCGGAATAATGCAG
AGGGAATGAGTTGTTCATGAGGCACTGTTGCCTGCCAGCTAAGGCGGACACTGTAAGGACAAGGAAGTAGCTGAGACAGATGCCTGAATGGCAT
CACTAGCCTCAAAGGCAAGCTTTAGGTCAGAACAGAGATGCTCGTAAACTCTATGGGGGCAACATGGGGGAAATGACCCAACCTTCCCAAGCCT
GGGTTCCATTCTTTATGTGTCTCATAAGGCAACCGGAAGCATAAAATGCCCCCACAGATATAAAAAAAATTTAGAAGCCCTCAGTAGGAAGATC
AGCTACTATCATTGTCAAGAAAAGAAACCTTATGTCCAAGAAAAAAAAAATAAGGTGTTTGAGAAGCTGAGGTGGACTTTGAGAAAGGGGCAGG
ACCTCAGCAGCATGCCATACAGTGAAGGGGTCATGGAGTCTAGGCAGACAAGGAAAATTACTTTGCTGGTGTTGGGATCTAGAGCAGGACTAGT
GGGTATTTCCCAGCTTTGCGCAAGTACTCACTGGAAAGCAGTGAGTAAAGCTGTCCCATGATGCTCTGACTATAACAGTACTGGTCATTGAGGG
CCAAACTGGGCAGCATCATCTCATTTGGAATCACAGAGAAAGCAGGGGTATGCTCCCAATGGGAGCAGAAGCTGAGCACATAAAGATGACATGG
GTCAAAATTATCTGGACATGGGAGATGGCAGGAGAATGGGGAGTAATTGAAAGAATGCTTTGGTGTAGAAGGAATGGAGGTCACGGTAGGGCTG
GTGAAGGAAACTGTGACTTCCCTTGCTTAGTGTGCCATTTGCAGAAAAGACAAAGCCACGTCTGGAAAATAAGAGTTCAGGGTTTGATGTAATT
GCTTTTAAGAATGCTACCCTGGTAAGGCTACCCCATGGAAGCTGTGCTACAAAGGATGTGCAAATAAAACGTTGGTGACACACACACACCTTTA
CAGAGCACCTACACTGAGGCAGAAAGACAGAGGTCAGGTTCTAGGAGTTGATAAGAAGGAGGGGAAGAAAGACCACTAGAAAACAAAACAGAAA
CCACTTATTAGAAATATTGTTCATAGACTTGTCTCTCTGTGTATGAGCTTTTGAACCAAAAGAATGAAGGAGACTTCATATCCTGATCAAAGAA
AGAGGCAATCTTGGTCAAGGAGCCAGCTCTTGGATGGCTGGGGCTTTAGAAAGTATGAGGTGCAGGGCCCTATCTTCTCCCTGAGGAGTGCACA
GAAGACAGGGACCATGATGAACTATCTGGGAGACTGGCAGAGATGAAGCAGCAAATGTGTTCAAGGGTTGTGAAGAGTAACTGACCTCAGGAGG
CAGGGTGTGACTTCCTCTTTCCAATTAGGAACCTGAAGAGTGCCACATGCCTTAGTAATGAGCATCGGCAGTGCCCTGAAGCTTCAGGAGACTT
CCAGCCAAACAGAGCATCTGAAACTTTGTCATGGCTCTCCTGGGTGAATGGGCATTGTCTTGATTCACACGCTCTATGTGAAAGGGATCTACAA
AACTAGTGAAGCAATGCTGAGAGGGGAAAGCGATCTCCAGGGGAGAGGTTAAACACAAGAGGAAGTGGCCTTGTGGGAACAGGAGGACCAGGAT
AGCAGAAGTGAAGTGTGCAAGGAAGGGCTCCCAGCAGCTGTGCTCTGTTGGTGTCCCCCAGAGGTGGTTGGCAGTTCACACACTAACCAGTGCC
TCTTCCTGCTCTCGTGTCTGCCTTCCTCTCAGTGCTACATGACGACATTCCTGTCCACCCTTCCTACTGTGTCACAGTTTTCTCCCTAAAATGA
AGAGAATTGGACCTCAAAGGCTGCTCCCCACATTTAGGATGATATCGTTTTGTGTACTTGAGATGATAGATAAATAGATAGTAAGAGTTTTGAT
AGAACTATTTCATGTTTTTTCAGAAAACCAAATGCAACATCCAGAAATTACCAGTATTAAATTAGAAGAACATCATTGTAAATATCTTCCTGCC
ATATATATTTCAGTGGACAGGATTAATAATAGGTGGACTACAAATAGAGATGTGGAGGAAAGGCCTTTAAGTTCCTGAATGCGCCACCTCAGAA
AGATTGCAGCTGCTCTTCCCTGGGCTGGAGGTGTTGCCTGGCTTCCCCTCTTCCCGTGTATTGATTGAAAATCAGTTCACAGTGGCCACAGCAT
ATTCAACATGTCCTAGGAGATAAAGGCTCCTCAATGCACAGTCATTCCCAACAGGACTTGACTTTTTTAAAAGGATGACTATCAGGGAAAAAAA
ATTATTCTAAAAATTACTTTAAAAACAATCATTTTTATTGCTTTTATTTTTACATTGTACATTTCTATTCATATTCTATGCAGAAATCATTATT
CTTATATAATTTAGATATTCATCACTATATATTTTAACAGGTTACAGAATCAGACCCTGGTCTCTTAGGCTCATTTTCGTTTATTTTGATCAAT
CCCTTCATTGAATACACTTTACATTCAAGCACCCTTGTAGACATTCCATCTCCATCTCTGCTTTGAGTTTGAGGATGTCACCTGTCACCTCTCT
ACAGTAACCCCAGGAGTACGTAGCCTCTGGCCACTCTTCCTTCTCTGACATTGGCAGATTTTTCTTTGTTGAATTATGTGGGTGCCAAGTACAA
CCTGACTTTCTTTTCTTTGATATTACTTTCTCCCAAAATATGTAGTGTTCTTTCCTTGGGCCTAAGTCAACCATCATCAGTAAGAAGCTCTTT
GGTGTTTTACAGTCTACATGAAATGTAGCCTTTAAGAGTGAGAGGCTCCTTTCTTCCTCCTTGTCTTTGGAAACATTCCTTTACATAAGTACC
AATTGTTCTATCTAACATGACTTCTATTCAAGAGTGCTGGTTTTCCATAGACTGGATAAATTGTCTCCCATGTCTGTTAGCATTTTGCTATTTT
AATTTCTTTATTTTTTTAAGTTTACTTACTGTTATTTTATATTTTTCCTGATTTAATTGAGTTCCTAGCAATGTTTATTCTAGTTGTTCTATT
TTTAACTCATGTATTGAGTATGTATTGAATTGGATTTGGTTTTAATTCCTGAGATCTAAAATCTCCCTTTATTCTGGGTTGTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTAGTATTGTCTTTGAATAGCTTCAAAATCTGACTGCTTGCATATTCTAAAAACTAAAATAGCTAAAAC
TTGAAAAAAAAAATTTTACCCCATGTCATGAAGTAATTATGCTTCATTGCTCCTCTTCCTGGAATTAAGTTTCTTTTTCCCCTAGGATGGACTTT
CTGGTTTGTCTTACTTCCCTTCTTGCCAAAAAAATATTTTCCCTGTAACCATGGCATTTCTTTTCATCCTGCTCATTCTACTTGGTCTAATGAG
GCTTGACTGACATTTCAACATTCTTCCCATTGTACCTGAGACTTTTCCTATGAGAACTATAAGTTTTTTAAATCCTGAAAGAATGCCAAGGATG
GTGTTGGGGGAGTTCAGGTGAGGCCAAGTACATACGGCTTCTGTTTAAAGTGTTCCCCTTTGAGAGCTCTCTCAGAGTTTTCAGATTTGGTGAA
AGCTCTAAACCAGCAGATGATGCCTTCTGTCTCCACAAGGGACATCTCAGGGCCTACTTCCCCTGAAGTACAACTCACCAAGGCCTTTGCTTGT
GTGCAGGGGAGCCAGCCCACATGCTAAGGTCTCTGGTGTCATGTGCTGCCTGAAAGTGGAATTTTCAGCTCCATCATCAAAATGAGGAGGGCAT
TTGCCCATTGGAACTCTGTCAGTGTGAGGGTTTGGAAGGAATGCTGAGAGTGTTGTGTTTCTAGAAGTGACATTACCCAAAGCTTTGTCCAGTC
TCAGGCAAGAATCTTCTGTACCTTTCCTTGGTCATATGTAGTTGAATGTAAAGTAGAAATAAGAAGATGGATGGATGGATGGATGGAATGGAATA
GATAGAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGACAGACAGACAGACAGACAGACAGA
AGGGATGGATGAGTAGATGGGATGGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGACAGACAGACAGACAGACAGACAGA
CAGACAGACAGACAGATAGAATAATAGATTTCACTGGGGCACTGGAGGCTTTTATAGCTTTTAATTTTTCACATTTGGGTAGAGAAATTCTACA

GGTAGATTTGTCACGCCATGCTCATCTGGAATGTATATTGCTTTCTTTGCAACACCCACTTCTTGAAGCAGCAGGCTTCAGTGGTTGCTTAGAA
AACCACAGAACCACAGCTCTGGGGAGAAACAGGAAAGTACCACCTCTGGTGAGAGAACACAGACTTTTACAGCTAACAGAACTGGGCACCAGGC
CACACCCTCCTCCTCCATTGCTAGGGTTTGGTAGTAAATGAGATGCAAGTACAAGAATGAGTTCCTCATGTCCACATAATGAGATGGGTTCTCA
CCAAAACCACAAAAACAAACAAACAAACAAACAAATAAACAAAACTCCCCCTTGAGTGGAGAGAGGAATCCCTTCATGGTTTCTACCATC
CACTACACGTGGCTTTTGCTCTGTCCAGTTTCTGAGAGTGTGTAGCTGGACATTAACACGTTTTCTTCCTGTAGCCTGAGGATCATTGTATGTC
GTTACCAGAGTATGCGTTGGTTCTGGCATGAGTAGATGAAAGCAAATGAAATCAAGCCATTGTGTGGTGCACACCCAGGAAGATGAAGAAAATG
CAATCAGGAGGATACTGAATCAGGAGGAATATATTCCAGGGCTACTATAGTCACTGATTATTTTTTCAAGGACTATGGTTAGATTTATGAATTG
TGGAATACTTTTCCTACTGTAGATAAAGAGTTTGGGGGAAGTGCTGACCTCAGTGCTGGCATGAAAGACACTGGGATCATCTTCTACCACCACT
CCATCAGCTGCCTTCAGGTACCACCTGATTGAGCAGCCTGTCACCCTGGTAGCTCAGTCTGTTGCCCCACTGTGGCTGGGTAGTTCACTTTCTT
CAGACCCTTCACCAGTGCCCCTTTTTATTTGAATAAAGTCAGTCTAGTCTAAGGTTCCAGTGTATGATCCCAGCTGTACTTGGACATTCCCTAT
GCCCCCAAGAGCTCTGTCCCCTGGACCTTTAGATTGTCACCAAAGCCCCAGGCTCTCTGTCCCCTCGGGATCTTCACTGCTTCTGTTTCCAACA
GTAAGATACAAAAAGCCCCAGCTGGCTCTTATGAGATGAGAAACCTATGCAACACTCTGGTAGCAAGCCTTCCTGAGCTCGTGGGATTTCATAG
ATAGGGATGGAGTCTGCTGTCATCATTTAGTGTGTATCTCTCCTGCTAGCTGTGTATATCCAAGGATACATATCCATTCTCACTGGCTTTCCTT
TTAGTCCCACTGTTGAGCCAGACATATTGAAGAGAGGAAAAAGGCATTGTGGGAGGTGAGGTATAAAAGTGCATCTGATTCGGCAGACTGCCAA
GTGCCTTCTTCTCGCTGAGAGGGCACTCAGTGACTACCTCTGCCAACAGGAATATAAACTATCCATTTACTGAATGAATATCTTCTCTGGGTCA
TGATTTCACATCAATGTATTTGGAAAATAAATGTTTAAGGAAATTCATTTTGTTTCATTATAAAACATTTTACTCCAAAATTGTATCTGAAGCC
AAATCTGGTCTCATCTTCTTCCATTGCCAGGGAAGATTTGTGTTAGCCAGATTTTCCATTATGATAGGGAAATATCTGAGATGTCCAATTTGTA
AAAAAGAAGAGGTTTGACTTAAGCCTTGGGGTATCCTTCTTCATGACTGATTAGCCCTATTGTGCTGACTCCGTGGCAGGAATGTTGTCTTGTG
GCTGTGAAGCAAAAGGGAAATATATGGGGGTCAGAGTTCCAGGACCCCCTTTAAGAATAAAGTCCCCCAAGTCTAAAATCTTCTCATTAGGCCC
TTCTTCCCTAAAGAGTTGAGAACCTTCCAACAACAGCATGTCCCTGGGTAGACACTAAGCTTCTGGGACATTGGGTTCAGCCACAATCATAGCA
CAGGTTGGACAATACCTGAAAACATGGGCCTTTGGGGACATCGAAGGTCCAGACAGTAGCAGAGTTCATGTAGTCCTACAAGCTAACCATACGA
GACCATAAGTTTCTTGAGTCCCAGGTCTGGCCACTACTGAATTCTTAGTTCTGCTCATCTTTAGTATTAGCTGTGTTTGTAAACAGTAAGTGAA
TGGTGCCCACCTCCAAGCCTACTCAAGTAGATCATCTCTGTTTCCTGCTTCCTGTTTCTGCTGAGCTAATTCACTACTGCTGACTAGGAAGACA
GGGTACATACAATTATGTTTAAGTATTCCTTCAACTTCACCATGCATTGGAACCCATCCACTTTTGAAATATTTATAAGAAATATATAGTTTAT
TATAAATAATATATAATCATGTTTTGAGAACATTTTTAGATTATTAAAATGATAAATGTAATATAGTATCTTAAATTTATTAAATATCATTAAT
TCATGGCTGTGTATTTTTATTAAATAATTTTGGGATAAATTAAACAGTATACATTTAGAATACTCTTTTAAAATATTTAAATTAAATATAATTG
TATGAACTTTATCATACTTAATGAAAGATGGGATTTACCCCTGTGAAATATGCCCTCTTTAATCTGACATGGATAATCTTTAGTTTCTTTTTCA
TTAATGGGTAAATAGGACTTCCTGAAGAACCTACCATAGTAAGTCCCTGGGAAAGATGGCACCTTATCCCTCCTGAGCCCTGGCAGATGTGTCC
TGTCTGCTGTGACACTAGAACACCATTCAACCCCTGGGTGTAGATTTCACTTATGACCATCTACTTCCCGCAGGAGACAAGTGCCTGTCAGACA
TGCCCTATGACAGTGCCAACTATGAGAAGGAGGATATGATGACATCCCACGTGATGGACCAGGCCATCAACAATGCCATCAACTACCTGGGGGC
TGAGTCCCTGCGCCCATTGGTGCAGACACCCCCCGGTAGCTCCGAGGTGGTGCCAGTCATCAGCTCCATGTACCAGCTGCACAAGCCCCCCTCA
GATGGCCCCCCACGGTCCAACCATTCAGCACAGGACGCCGTGGATAACTTGCTGCTGCTGTCCAAGGCCAAGTCTGTGTCATCGGAGCGAGAGG
CCTCCCCGAGCAACAGCTGCCAAGACTCCACAGATACAGAGAGCAACGCGGAGGAACAGCGCAGCGGCCTTATCTACCTAACCAACCACATCAA
CCCGCATGCACGCAATGGGCTGGCTCTCAAGGAGGAGCAGCGCGCCTACGAGGTGCTGAGGGCGGCCTCAGAGAACTCGCAGGATGCCTTCCGT
GTGGTCAGCACGAGTGGCGAGCAGCTGAAGGTGTACAAGTGCGAACACTGCCGCGTGCTCTTCCTGGATCACGTCATGTATACCATTCACATGG
GCTGCCATGGCTTTCGGGATCCCTTTGAGTGTAACATGTGTGGTTATCACAGCCAGGACAGGTACGAGTTCTCATCCCATATCACGCGGGGGGA
GCATCGTTACCACCTGAGCTAAACCCAGCCAGGCCCCACTGAAGCACAAAGATAGCTGGTTATGCCTCCTTCCCGGCAGCTGGACCCACAGCGG
ACAATGTTGGGAGTGGATTTGCAGGCAGCATTTGTTCTTTTATGTTGGTTGTTTGGCGTTTGATTTGCGTTGGAAGATAAGTTTTTAATGTTAG
TGACAGGATTGCATTGCATCAGGAACATTCACAACATCCATCCTTCTAGCCAGTTTTGTTCACTGGTAGCTGAGGTTTCCCGGATATGTGGCTT
CCTAACACTCTCCCCACCCACCCCACCCCCAAAACAGAGCCTGAATCTTCATGAAGTGAATAAAACAATTATCCAAGAAGGAGTAAGGTGGAT
CTTGCCCTAAGCAGAGTTTATGCCACAAAGATTCTCCAAATCCCCCAAGACAGCACAGCCACTGGGGTTGAGCCATCTCAGGGAGCTCTGCAGG
TGAGCCAGAGGACCAGATATAAGGCAGCTGGGGAGGAGCAGGGACATCAGCCTGTGCAGAGACCAAGGCCAAAGGTTGAACTTTGAAAGACTAT
TAAGTCATATATTGTATGGCAATATGGTGTCTGGACAAGTTGTGCAATGTGCTGAAGGGAAGGGATTGGAGAGCCTTGAAGACTCTTCTTCATT
TGCCTGATCAACCCGGCCTCCAGAGGGTTTTTTGCCCAGTAAGACGAGCTCAGTGCTCTTGTGATCATTTTTCTCTTATCGTTTCCATGCCGTT
GATGGCCCTGAAGCTCATCACTGCATTTTAGAACCCAATCCTGAAATTGAGACCTTTTTTTAAACTTCTGATACTGTAAAACTTCTTGGAAGCC
AAAGCTTTCTTCCAAGCCCCATCCTCAGTTATCCTGGTTCCTGTTCTTCCCCGAGCTGATAGTACCAGGACCTGTTATTCCACAAAAGCACAGG
CATCCGTCACTTCAATTCAATCCCTGTTCAGATTATAGATATGGACTTTGCTATCTTGATAAATGTCTTCTCTATGTTATTTTGTCTGAAAAAC
CTATAAAACCATTATTAAGAATGACCATTTTTAGATGGAAGAAATGAGCCCAGCATCTCAGTGGCTAAAACACAAAATATCCATGCTTTTAAAC
AAAATTGTTAAATATTCCGAAGCTCTCTAGTATAAACACCAAGTAGCATGTGTTTTCACATAAAGAAGACAGGGGCCATGCAACCTTTATCAAG
TGGAGGTATTAGAATGTTGTAATGTTTGGAGACACAGTGTGACCAGTACAGGTTCCCAGAGAGGAATGCCCACCATATCACAGAAAGGTAGAGG
TGGGATCTGGTATAGCCAGACCAAGACAGGGATGTCACGCTGAAGCCAAGTCAGTTAGCTGAAGATTCTCAACAGGAAGGCCTCTCTTAAGAGT
CAGTAATAGGGTTGTTACCATCCACCACCTCAACAAAACAAAAAGCTTATAATTGTAAATGTTTACAGCACTGTCTTCGCAGAAACTTTCTGAG
GTGATTCCAAAGAACTAGAGGGGAGATGGTCTATAACAGCTCTTGAAGTAAACGAGGTTCTTAGTCTCAGCTCTCCTGACATATAGGGCTTGAT
TATTACTGGTAGGGATTGTTCTGTGAATTGCTTACTACTACCCCTGGTCTCTCCCCAGTAGATGCCAGGAACATTCTAGCTGATACCTAACTGT
CTTCCCAGGTGTTCGAGGGAGCAAACCACTGATCTAAACTCTAAACGCTGAAGTACGCAGGTTTTCTAAAAATGACAAGCCCTTGAAACCTTTC
CCAGTAGGCAGCCTCGAGCTGGACTTGTGTCTTTGGAATGCTGATGAATTCTATAGATCAGCATTGCAAATACACTTCAAATACGTCTGAGTTC
AAGTGCAGGGACTGAGTTCACCAAGGTGTGAACTGTGCTCAAAAAGTTCAAAAGTGTGTGTTTCTTTGTTTCTAAAACATTGTGGCATCTTTTT
CATTTGTTTCTAAAACTTTTTTTTTTAGAAACAAATGAAGCACTTGGAAAGTGAAAGTAAAATTACAAATATAAGGATTTACACTGAAGAGAGAA
AAATTTTAGGAACTATAGCTGTGAAAAGATTTTGTTCAAAAGGCAGGCTAGCCTTACCCAAATTCATATATGGCAGGTGTCAACCTCCCAAGCT
TACAGTTAGCAGGCAGCTTTTGCTCACTCATCCTTAGCCATGAGAGCCATTAAGTGTGGTCCAAGAAAGATGGCTCCAAACCCTACCCCCGACC
CACCAGTGGTATTCAGAGATTAAAGCAGAATTGTAAATAGTGGCTTCAGGAGCTCTTTTTTAGAATGCTTTGCCCCTTCCTCTCACTGCCTTTT
TTAGCCAATATAAATGTCAATTTGCACACCTTTTGTTGTGGTTTTATATTGTAACAGCATTTTTTTGAAACTATTGTATTTAAGATAAGGTTTC
ATATTATGTCCACAAGTAATTAAATTATGTTTGAAGGTGGCTATATGCTGTATCAGAAGTTGATGATGTTTTTCTTTAGCCGGTAAAGGAGGGT
TTTGCATGACCTCACTGTTTGTTCTGTGGTTTGTTCTGTTGTATGATGTGTGTCTTGAGTTTTGCTGTGTGATGAAGTGCGCTGAGATTCCAGT
GCCCTCAAGTTGTGTTTTAAGTAGCTATCAGAGGCAAGAGGGTTCCTAAGAGCAGGTTGACCTGTTGGCGACAGATGGCAATCACCATTTCTCA
TTCCTTCTTCTCCCTGTTACCCCAGCTTCCTGTCCCAGGTCCCTTCTGTGATTCTTACCTTAGTGTGCATGTGTGTCTGTCCTGGTGAGAGTCA
GGAGCATCGATATGTTATCATTGCATTATCACCAAGGGCACGCACAGCCTAGCACCTGTTGCTTCAGATACCGTCACACTCTGTTTCCAATTTA
GATACAACCACATAATAAAATGTTAGAGTCTTCAATGGGAAGCAGAGGTGCTTGTTATAAAGATGGGGGCTTATGCTTGTGTCACATTTTGTGT
TCTTTTCTTCTTTTGTTTGGTTTAACTTAATTGTGACCCTTGTAACATCATCTTGCCAAAAAAAAAAAAAAAAAGTTGAACTGGATTTATGTAG
ACATGTCAAGACGTACTATCTATTTCTTTGTCAGTTATAGCAATAAGAGTGGATAAACTCTAAAATCCAGATCTCCCACAATGAACATCCGTGT
TCTTTCTATGATTTTTCTTTCTTTATGGTGAGCCACAATTAAACTTGAGATGTACAGCCACCCAAACCCAGGAAGCTCATGTGCATCTGGTGCT
ATGGCACTCACTGTGAATAAGTGTGACCAGATATTAATATGCAATATTGTTTCCAATCCTTTCTAATACATTTTTTCATGATGTTGTGTGTGGT
TAAATCTTCCTGTATCACTACCACTTCAGATCTTCACCTCCTTGCTGACAGGTAAATGGAAGTGTGAGTAAGAAAATGAAGCCATCTCTGCAGC

CCTGACTCTAGCATGATATTAACTCATTTCTGTTTAGCTGGGAACAAGAGGTTTCCACTGGGAGCATAGAGGAGCTATCCTTTTGTACACATTT
TGCCTTAGATCACTACAGACGATCATTACAGAGCAAATAAATTCTACAAATATTCTGTCTGCCCCATCCAGTGAAGTCCAAACACAAGCATAAA
ACAAGCCCCAGTCATTGTGGGAGTCTGCTGTAGCCTCTCTGAAACCAGGAGGTGAGGGAGGAGCCCAGGCCTTGACACAAGAAGTGTGAGCAGA
TACACAGAAAGAGGCACAGCCAGTTAGCTCAGCTGGCCAGCTAGGGAGTCACTGCTAAGCCTCTGGACCTCAGCCACGTGGTGAAGTGGTGGCA
GAAGAGGAGAGCATTCAAGACAGAATGACAAACAGAATGACAGCTTTCGTGTCCTGCCTTTTATTCCTTTCCATTTTAAATAAGCACAAGATCT
CAGGATGATTTTCTGACACCGTGGAGCAAGGCTTTCTCATTCATTTATCTGCTTCACTCTGGAAGAGATTGCCAGAGAAAATGATGCTAACTTC
ACTTCTAAGGAGTATGTCGATGTAAACACTGGGCTCTGTTTTCCATGTGAGCCTGGAATGCGCACTGAGGGATAGGAGGGAGGCCCAAGGTCCC
TGACCCCATTTCCAGTGTTTCTCAGTCATATTTTGATCAGCAGAATTCAGATTTCTACAAGCAGAAAATGATGTGGAAGTTCTGTGACTCCTTA
GTTAAACTTCCTTGCCTTCCTTCTTTGAACCCATTCCAATTCTCAAGAAACAAAGCTTTGGGCACTAGGGATATGGCTCAGCCGGTAGAGTGCT
CATCAATGCCCAGTGCCCTGGGGTTAGATCCCCACACACTGGGTGTGGTGGCAGTACTTGTAATCCCCGTATTCTGAGGAAGAGGCGGGAGTTG
AAGGTCTTTAGCTCCACAGGGAGCTCAAGGGAAGCCTTGGATTCCTGACACCCTGTTTCATAAAAAGAAAGAAACAAAACGTTGGCTGTTTCTG
AAAGTTGCCTTTTGTCATGGCTTCAACTAAGACACAGAGCTAGGAGCAAAAGAGATAGAAAATTGAGCAATTAGTGAAAGGCTCAGAGGAAGTT
CTCAGATGACCAAAGTGGGAACTCCGTGTTCCTCCATCATTCTGGAAACTTCTGGCTCTTTCTCTGCACCAGTACCCAAAGCAGCAACCAACTG
GCACAGCCCCCATATGTAGAGGTGAGGTCAAATGTTGCTATTGCCACACAGCATCCACCTCTTGTGTCTTTTCCCAGGCTACTCTCTCCACCCG
TCACATATACAACCTCTTGGGAAACCCAAAGGGATTCCCATGGCCCCTAGAATTACACTGCTTTTAGCAGCCCCAAACCCTTTGGCTTTTCTAT
TCCACTATTAACCTCCACCCTGAGCAAACCCACTCTAGGATTAGCACACAAGAAGCCCAGCCTCCAGTTCATCAACTACAACCCTGCTGGGTAT
CAGTTGCTCTAGAACTGGTATCTTAGAAGCCTCTCAAACTCTACCCTATCTTACCCCTATTGTTCAGTTGCAGCTTCCAGAGGTCACTTACTGA
ATATTCTGGAGTGGAAAGTATTCATGGGACAACCCGCGGCCCCAGCCCTGAGGTGTGTGCGTGGCCAGCCCTCCAGTACCTGAAGCAAATCATC
AGTCAGTTCACTGAGGACCAGTTAGATCCGGGACTCTCCTGAGCCTGGGCTCACAGTTGTCTGCATAGAGGAACAGTGTCTTCCCACAAATGGT
CTGAAACAGCTTAGATGTAGACAAAGGAATCAGGTGAGAAGCTGAGATGTTCATTTTGCTACTCTCAAAAGGCCAGCTTCCACGTGTAACCACC
CAGCAAAAAGCAACCACATTGAAAGATGCACATAGTCTAACCCTCAGTACCTCAGCATTTCCCCCAGTGGGCAGCTTTGACATCCAACCTGGCT
TGTGTACACTACAAAGACAGAAGGCCACATGCCAACCATCGTGGGTTTCCCTAGCTACTCCATCATAGATGATGTGATTTTCTGTGACTGTCCT
TGCAGGCCTCCTGCCTCCTGAGTCCCGCTACTGTGGTCCAACCATTCTGGGCTTTCAAAAGTGATTTGTGGAAATGGGGACCTGATCCCACATT
ACTGTCCCTACGCACAGGTCATCAGTGGTTGCACTGAAGTTTCAGAGCAGAGCAGAGTTTCCTCAGCTGGGAACATGGACGTTGAGGTTGCATT
GCCTTAAGCAGGTGTCCCCCTGGGTGTGCTCCCAAAAGTATGGTCTGGTGCTTAAGAACAGAATTCTGGAGACCACCAAGTCTGTGTTTGAATG
TCTGCATTGCAGACTAAAGGAATGCAATGGTGGGCAGGTGACCTACCCTTTCCAAGACCTCTTTCCTCATCATTGACAGCTGGAGAGCTGGAGG
CTAAAGCTAGTAACATCTGGCAAAACGTGAGCACTGGGCCTGGGTCATTCAAATATTCTGTTCTTTCTGACTTTTTTATATACTATCCTCTGCC
TCCTATCTTATCTCTGTGACAACCGGACAAGCCAGCAGTTCATTCGTATTCCAACCTTGGAGACCAGGTAGCTGTAGTGGGGAAGCAGCAAGCC
TCTCCTCCCTTGTAGCACCAGCCACACTGAAAAGTCCCCAGCCTTTGCAATTTCCCTGGGAGTTGCAGGGTCATGCCCCATTGGACACATGAAA
GACAGCACCTGGGAGGCCAAGCGTCACAAAAAAGATGGTGCTGTGCAGAGGTAGCTATAGCTGCAGGCCCTGGCCCAGGCCCCTTCTCCACTTG
GCTCCCGCTCCATTCTGGAATGTTCCTTGCAAAGAAAAGTGAATATAATATGATCCTCTTGAGATACAGTGTCTCTCTCAGAAAGGGAGGAAAA
TACCTACACCTATAAACTTGCCTTCAAAGCAGCCCTCAGCTGATCATCACCATACTGGTCCACAGGTTGCATGTCATATCAGTTTCTCACAAAG
AGTCACTATCCCCAAGACTTGCCCCAGAGCAACAAGGCAAGTGGCACAGGGCCAGAATCCAGAGCCAAATAGGAAAAAATAGTGACATGGGTAG
AGCCAGGCACAGGGAGCCAGATCTTGTTTAAATATGACAACTGTGGACATCTCTAGAGCCCAGTGCATGGTAGTTGGACGTGGGCAGCATTGTC
CACCCAAGATGTAATGGAAGCTGTGAGCTGTACTGCAGCTGCTCTGGAGGGTAGAAAACACTGCTCTGGGAGAGGGGAGAGGAACAGGAAGAGC
TGGCAAAGGAAATGAAAATGTTTGTACATGAAGGAAGGAAAGCCAGTTGAGCAGGCATCCCCAATTTTCATCTTCAAAATAAGAGACCAATTAC
AAATCCAAAAAAAAAGAAAGGCCAAATGAGGACAGCCACTGAGGTGGCCTCTGAGCCCAATATATAGTTTGCTCCAAATGACCCTGAAGGTCAA
TCATGAGTAGGAAGAGGTCATACAGCAGAGGTAGGCTCTGACCCCAGGCCTAGCTAACAAGAGAAGACTTCAAAAACACAGTGCCAAAGTTCAG
CTGCTCTCAGTTTCTTGGCCAGATTTTACAAAACAAGGAAGAAGACCCTCACTGGTATGTCTCTTGGCTCTTTCCACGTTTTGACAAGGCTAAG
AGCAGGAGCAAAGTGGACATCCTTTGACCTCTGACTCCTCCGATGACTACAGACGCAGCATGTCTAGGGAGAGGGCTACTTATTGCAGGATGCC
CTAAGCTCCAGCCCAAAGAACAGTCTGGTGGCTCCTTGTACAGCAATGAGCCCCTGACCCGTACTCCATTTACAGTAAGCACTTGACCTGCGGC
AGAGCAGCTGAGCCCTGGAGACTCAGTGAATCGGCACCAAGGGAAGCAGATGTGCTCGCCATGGTCCTCAGGCACAACCAGGAACCAGCCACTA
GGGGAGGAAATTTGCATAATAGGGATAATTTGGTACCAAAACTGTCCCCTGAAGTGAACTACATGGATCTCGGTATAGTTCAACAAATTTCACT
TCTTCTTTCCCATGTTTTCTCACACCAACTAGATATGAGGTAGCATGTGCAACTCGTCCAAAGGTTCGGGGGTGTTGTTTGATTTTTATTATTG
TCTCCCTTCATAAGTCAGTCCCATGCCTTTTCTCTCTTCAACCCACCACTCCCTTGTGCCCAAAGTGAGTTTCTGAGCTCCCTCAGAGACCTCT
CCCAAGCACATGCAATGTGGGGGACACCCAAATGCTCTTACCCTGCAACACAAGCAGATTCACAAACAGCAGTGGTGGTCATCTGCCTCTCTAC
TGATATACTTGACCAATGCTGCCTCACTCTGCCGCTTCCTAGAGCCTGCATGAGCTTCCTCATTGACATTATCCCTGTGGCTTTCTGTGGGCAG
AGGGTGGACCAGTCCCAGGGTACAAAGGGTGTGTGGTTTCAGGGCTCCCCAGTTTCATTCCCCTTTCAGGCCTCCTCCTTTCGTGGTACCACCC
TGATTCCCACCCACAGAGGCACAGCCCTTCTCTAACCCTTCGAGGGACTCCCTATTGCCCCCATAAATTCCCACTTCTGCAAGCATCAGGAGCT
ATTTTTACCATTAGTTTTATAACACCTCACAGGAAGGCTGTTGTGCATTTATATCTACTGATACTGTTACCAAATTTTAGGTGACAAATACTCT
AAAATAAACCAAAGGAAAGAATAGCCTGAGAAAAAATCCCTAAGACACCAGCAAGATGGCCAGATTGCTGTTAAAACACACACACACACACACA
CACACACACACACACACACACACACACACACACACACACACACCCTAAGTAGCCAGTGTGTTTTATATCAAAATTTGGGAGAAAAGAATTATAA
ACCTACACTCTCTACAGATAACAGGGACAGAACAATGTGAGGTAGGCATAGCCTGCGACAGGAGGTTAGGCCTAGGGCAGGCTTCCTCTTCTTC
CTGGTTGGCTGGTCCCACACGCAGAGTATGAAATGGCCTTGATGGCTGATCAGCACACAGATGCTTAGATTCTAAACTGAAGCCTTTCGTTT
GTTGCAGCTGCTGACTTGAGTTGTGGATTCAAATGAGTTAAAATAGGCTTCTTGTCTTTCCTCACTCCATTTTTTAAACATTTAATTTAATTCA
GTATATCTCAAAATACAAAAGTAAAGAGGAGACTTTCTTATGAGTTCAACCTCACGGCCTCGGGGACCATAAAGTGCAGGAATCTATGGGTAAA
AAGCATTCTCCCCATCGTGACAGCCCTGTTCCCAACCCATCTGTTCAGACATCTTCCAAATCACATCTAATTCCCACACCATCCTACTCCAAGA
ACCCTGCTTACCCTCAAAGTCTTCCCACACTGCACTGGCTGCTAAAACAGAATTCTCGGCACTCGGTGTTTGGTGCTTCTTCGAGACCAGATCT
GTTCCTAGAGTAACTTTGCACTTGATCATTCCTGGTCCTGGCTGTTAAGTGGTAGTCTGTCCACATCAGACTAAAAGCTTAGAGGGTTCCAGGC
TCCCCAGAGCCCCCCATAATAATGGTATCCTGTGAGATCAGTCCTCCCTGTATCCTGGGCTCCCTGGCTCTCAGACGGGTCCTGTCCAAGGTGA
TGATCTGGACCCTAGCCCTTCTTTGAGGAGCTCCTTCCCATCTTTGCACTGCTTCAGCTTTCCCCTTGGGAGTGGAAAATGCAGCAGCTCTCAC
CTTGGAATCTCCAGGAGGGGCCACTCCTTGCCCCAGTATTCAGGACAAAGTATCCTGGCACAGGCAGTGGCCTTGGTGTGAAAAAAGCAAAGAG
AGGGGTCATGAGGCAGAGAAGGTGAGTGCAGCCCCTTGAAAACAGGGAAACTAGCCATTTTAGCCGCAAGTACAGGGCAGAGGGTGTCATTCAC
AGATTGGGACTTTTCTAACTTAAGTAATTGTTATTTCTATCAGAATATACTGGTATAAGCCAGTCCTATAAGCATGGTCAAGTTCCATCCCACT
GACTCTAATCAGGCCAGAAGTTGACCTGTCAGGTCCCAAGGCCAGTAATTGAAATATGACAGGACAACAGTTCACTGTTAAGGGGACACCAAAG
TTTTGCCAATAACTACAAGGTTGTTAGATGTTCAGAGTCAAGCACTGAACAGACAGGACCTAGAAACCAGTCAGGATCCACAGACCAGGGGCAT
CTCAACCAACTCTTGAAAAACAGACAGCAGAAAGAATGAATAGTGGAGACATGGAAGAGAATTAAAACCAGAGATGCCAAGTAGAGGAGGAAAC
AAAAAGAAACAAAGAAGCAGGGCGATAAATTTATTTAAAAACAGTGACATACGTAGTAGGTGCTAATCAATCTTTATCAGCAATCATGCTAAGT
GCCAGTGAACAACACACACCAATTAAAAGGCAGACACTGGCAGAATGGACCCCAGCTAAGACTTGTCTACAGGCTGTAGGCTGCTAGGTGAGAA
AGGTTACTTATGATCTTACCCAGCTGTGGGCCCTGTGTAGTACAAAACCAACCTACCGGGCAAGATGTGCCCGCTATCATAACATAATAGTTAT
GATAATAACCAACCACTTTCTGATTGGATTTTAAGCCTGCTACACTAGAGGGAAATCATACGTAGTCAAAAGCCCATGATGAGGGCCTTCACAG
GCCCTGGTGAGAGCAAGGGAAGAACTTAGCTTTTACTTAAGGATGTGTTTATATCCACAGACTAGGTTTATAGCTATAAAGCAACAC

SAGRES DISCOVERY 02-25

MOUSE SEQUENCE - mRNA

CCTTGGGGAGGCACAAGTCTGTTGATAACCTGAAGACAATGGATGTCGATGAGGGTCAAGACATGTCCCAAGTTTCAGGAAAGGAGAGCCCCCC
AGTCAGTGACACTCCAGATGAAGGGGATGAGCCCATGCCTGTCCCTGAGGACCTGTCCACTACCTCTGGAGCACAGCAGAACTCCAAGAGTGAT
CGAGGCATGGGTGAACGGCCTTTCCAGTGCAACCAGTGTGGGGCCTCCTTTACCCAGAAAGGCAACCTCCTGCGGCACATCAAGCTGCACTCGG
GTGAGAAGCCCTTCAAATGCCATCTTTGCAACTATGCCTGCCGCCGGAGGGACGCCCTCACCGGCCACCTGAGGACGCACTCCGTTGGTAAGCC
TCACAAATGTGGATATTGTGGCCGGAGCTATAAACAGCGAAGCTCTTTAGAGGAGCATAAAGAGCGATGCCACAACTACTTGGAAAGCATGGGC
CTTCCGGGCGTGTGCCCAGTCATTAAGGAAGAAACTAACCACAACGAGATGGCAGAAGACCTGTGCAAGATAGGAGCAGAGAGGTCCCTTGTCC
TGGACAGGCTGGCAAGCAATGTCGCCAAACGTAAGAGCTCTATGCCTCAGAAATTTCTTGGAGACAAGTGCCTGTCAGACATGCCCTATGACAG
TGCCAACTATGAGAAGGAGGATATGATGACATCCCACGTGATGGACCAGGCCATCAACAATGCCATCAACTACCTGGGGGCTGAGTCCCTGCGC
CCATTGGTGCAGACACCCCCCGGTAGCTCCGAGGTGGTGCCAGTCATCAGCTCCATGTACCAGCTGCACAAGCCCCCCTCAGATGGCCCCCCAC
GGTCCAACCATTCAGCACAGGACGCCGTGGATAAACTTGCTGCTGCTGTCCAAGGCCAAGTCTGTGTCATCGGAGCGAGAGGCCTCCCCGAGCAA
CAGCTGCCAAGACTCCACAGATACAGAGAGCAACGCGGAGGAACAGCGCAGCGGCCTTATCTACCTAACCAACCACATCAACCCGCATGCACGC
AATGGGCTGGCTCTCAAGGAGGAGCAGCGCGCCTACGAGGTGCTGAGGGCGGCCTCAGAGAACTCGCAGGATGCCTTCCGTGTGGTCAGCACGA
GTGGCGAGCAGCTGAAGGTGTACAAGTGCGAACACTGCCGCGTGCTCTTCCTGGATCACGTCATGTATACCATTCACATGGGCTGCCATGGCTG
CCATGGCTTTCGGGATCCCTTTGAGTGTAACATGTGTGGTTATCACAGCCAGGACAGGTACGAGTTCTCATCCCATATCACGCGGGGGGAGCAT
CGTTACCACCTGAGCTAAACCCAGCCAGGCCCCACTGAAGCACAAAGATAGCTGGTTATGCCTCCTTCCCGGCAGCTGGACCCACAGCGGACAA
TGTGGGAGTGGATTTGCAGGCAGCATTTGTTCTTTTATGTTGGTTGTTTGGCGTTTGATTTGCGTTGGAAGATAAGTTTTTAATGTTAGTGACA
GGATTGCATTGCATCAGGAACATTCACAACATCCATCCTTCTAGCC

MOUSE SEQUENCE - CODING

ATGGATGTCGATGAGGGTCAAGACATGTCCCAAGTTTCAGGAAAGGAGAGCCCCCCAGTCAGTGACACTCCAGATGAAGGGGATGAGCCCATGC
CTGTCCCTGAGGACCTGTCCACTACCTCTGGAGCACAGCAGAACTCCAAGAGTGATCGAGGCATGGGTGAACGGCCTTTCCAGTGCAACCAGTG
TGGGGCCTCCTTTACCCAGAAAGGCAACCTCCTGCGGCACATCAAGCTGCACTCGGGTGAGAAGCCCTTCAAATGCCATCTTTGCAACTATGCC
TGCCGCCGGAGGGACGCCCTCACCGGCCACCTGAGGACGCACTCCGTTGGTAAGCCTCACAAATGTGGATATTGTGGCCGGAGCTATAAACAGC
GAAGCTCTTTAGAGGAGCATAAAGAGCGATGCCACAACTACTTGGAAAGCATGGGCCTTCCGGGCGTGTGCCCAGTCATTAAGGAAGAAACTAA
CCACAACGAGATGGCAGAAGACCTGTGCAAGATAGGAGCAGAGAGGTCCCTTGTCCTGGACAGGCTGGCAAGCAATGTCGCCAAACGTAAGAGC
TCTATGCCTCAGAAATTTCTTGGAGACAAGTGCCTGTCAGACATGCCCTATGACAGTGCCAACTATGAGAAGGAGGATATGATGACATCCCACG
TGATGGACCAGGCCATCAACAATGCCATCAACTACCTGGGGGCTGAGTCCCTGCGCCCATTGGTGCAGACACCCCCCGGTAGCTCCGAGGTGGT
GCCAGTCATCAGCTCCATGTACCAGCTGCACAAGCCCCCCTCAGATGGCCCCCCACGGTCCAACCATTCAGCACAGGACGCCGTGGATAACTTG
CTGCTGCTGTCCAAGGCCAAGTCTGTGTCATCGGAGCGAGAGGCCTCCCCGAGCAACAGCTGCCAAGACTCCACAGATACAGAGAGCAACGCGG
AGGAACAGCGCAGCGGCCTTATCTACCTAACCAACCACATCAACCCGCATGCACGCAATGGGCTGGCTCTCAAGGAGGAGCAGCGCGCCTACGA
GGTGCTGAGGGCGGCCTCAGAGAACTCGCAGGATGCCTTCCGTGTGGTCAGCACGAGTGGCGAGCAGCTGAAGGTGTACAAGTGCGAACACTGC
CGCGTGCTCTTCCTGGATCACGTCATGTATACCATTCACATGGGCTGCCATGGCTGCCATGGCTTTCGGGATCCCTTTGAGTGTAACATGTGTG
GTTATCACAGCCAGGACAGGTACGAGTTCTCATCCCATATCACGCGGGGGGAGCATCGTTACCACCTGAGCTAA

HUMAN SEQUENCE - GENOMIC

AAAGTAGCATACAGGTTCTGACCTTCAAAGGATCAATAAACAAATGCATCTCCTGCTCTACACTTTAGCCATTGGAGCCAAATCCCATGGTTCT
ACCCTCAGTTTAGTCCCTCGGCTTAATCATCTTTTGATTGGCCATGGAATGTGTACCTAACTATAGTCAACAGTCTTACAAACATATATACATC
CTGTATATCTATTTGTACAAAGAATTGGATCTTCATCCTGCATATTCTCTTTTCAAAATTAGCCTTTGTTTACCATCTATAAATCAAGACAACA
TTATTCCTTCTCCCAAAATGCAGGGTTATTCAATACAACTTGTTGGAAACAAACCGGCTTGGCTGAAAATGTTTATGAGCTATAATCATAGAAA
ATAAAGGGATATTATAATGAGAAGTCAATCTTTCAGTTTAATTGCAGAACACTTTTTAAGCTACAGAAAATTGTGAATTTGAGCTCTGAAGTGG
AAATAAAGTTGCCAGTTTCAGACTGCATATCACAGAAAATGAATTCTTTTTCTTCATTAGAAAAACATATCTGCAAGTAATAAGATATTATGAG
TAAATATTACAAGAATACATTGTACTGGGCTGTGTGTAGCTACAGAATGCATTATATCTTTAAATTATTTCTAAATCACAAATTTAGAGAAAGT
CCTGCTCCTGGCATTACTAAATTATAATCTGTCTTCTTATCCTACAGAAATAAAGAGGTATCAACTCACTTAGGATAATTGCCTGATACAACCA
GAACAGGATTAGGGAAAATTCATTATGGTATTGCAGTGTTGTATTTTAAAAGTATTCTCTGCTTCCTTTTTGAAAAATGGCTTAAAAATGAGCA
GAATAATGCACATACAAGGAAAGTGTGAAATAAATTGTCAACTTTTAGTTGAAGGAAGGAAATTTGGAATATTCTGTGTTGAAGCCTTTACTGC
TAAGACAGCATTAAATAGGTGAAGAAGCAACACTTCTAGTGCATGATCGCAGAGCCCCAGACAGGACAGAAGCATAGGGAGGGATGGGGGTCTT
TCAGCTGTCAGGAGAGGAAAACACAGTCCCTCTGCATATTGGAAAACAAATGTGCCAACTCCTTGACATGTTACTTAAACAAAAATATTTTTCC
TGTAAGTAAGATAAACCCTTCAAAAGTAGCACCATGAAATGGAACTATCTGCTGAATATCTGCTCACTGTTCTAGGAACTGTGAGGAAACAAAA
TAGAAAAAAAACCAAATCTCTCCTTTCAATGAGAGCAAACAACAAATGTTACCAATGAAAACCAGAGAGAAGGCAGGAGAAAAGCTAACGCTCG
GGTGGGTCAAGGTCGTTCCCTTTCATGGAGAACAGACAATGACAACTCAACCACAATGATAATGGACCAAACACCTGAAGCCAGTAAGGGGGGT
GGGCAGGCAGAAATCCAGGGGAGAACCTTCTAGGAGACAGCAGTAAGTGAAAGGCAGTGAGCTGGTCTGGAGCACTTGAGGACTATAAGGTAGG
GCCAAGTGGCCAGAGACAGGCAAGTAAGTGGGAGAGTGGAGTCTGGCCTGCATTCAACACAGAAGCACCCCGATCTGACTCTGCTCTTCATCAA
GCTCTCTCTGGCTTCTGTGAGGGGCAGGGGTGGAAGTAGAGAGACCCCTGAGGAGGACACTGCTATTTGCAGATGAGAGGTGACCAGCCTGTCT
GCAATGGAGGGAGAGGAGGTCCGACCATGGACACCTGATACCTGCAGAGCTAGTGGGATTCCCCAATGGACTGGATGGTAAGTGAGAGAGAGAG
GCATCAAGAATGACTCCAAGGTTTTGGCCTCAGCAATTGCCAGCTGGTATTCAATGAGATGAAGGGGTCTCAGTGAAGCAAGTAAGAGAGGAAG
ATCAGGGATTCAGCTGGGAGACAGTAAATATAAGTTGCCTATTAAGCCTCCAAGTAAAGGTGTTAAGGAGGTGGGAGAGTTCAAAAGGAGGTCT
GAAGAGCAGATATTAATTTTTGGAGTAAGGGTACAGAGATGACATTGCAAACTGCTTCTGGAGAGGCCTTCAAGGAACTGACTGCGGAGGGAGA
CATGTCTGGAGAGCTGCAGCATTTTAGGAAAGAGGGGAGAAAACAGCCAATGAATAGCACAAGAGAAAAGCATGGCGAGTGGGGTGTCCTGAAG
ATCTACCTCACTGATATCGGGGTTCAATAAAATGTTCGTGCATTTTTTGGTAAATTTTAAAGTGCTAGATAAATGCTGACTTACTACCTTTGGG
ACCAGATGGACTTTGCTCCATCCATTGAGATCATTCTTTCCAGCTCTTCTTAGATTAAAAAAAAAATCCACTTTTAACTTAGTCAAGGTTAGTC
CCAACTGAGAATCTGGAGACACATTCCTGGGAATCAGAAGCTCTGCCTACTTTTGACTTGTTAGATAGCACTTTCTGAGAAATCTTACAGCCAC
CCATAAACAGGGGAAAGGGAGAAGGGCTAACTCACATTGATTACTAGGTATTACAATTGAAGACTTATGTTCATGCTTTTGTTTAATCCAAACC
ACAACTCCATGAAGCAGGATTCATTTTCCCTGTTGCAGAAATGACAGTGTGATCCTGAGAGAGGTGACGTAACTCAGCTGAGTTCACGCAGTGC
CCTCGCCATGCACCTGTGGTCCCAGTTACTTGGGAAGCTAAGGTGGAAGGATCCCTTGAGCCCAGGAGGTGGAGGCTGCAATGAGCCAAGATCG
TGCCACTGCACTCCAGCCTGAGTGACGGAGTGAGACCCTGTCTCAAAAAAATAAATAAATAAAAATAAAGAAAAGAAAAGAGAGTTGCTATCAT
AATTCAAAAATAACTAGACTAAATTTCAGTCCTACTTGATAGGCTGGAAAGGCTGTTCACATATCTTACTCTTTCCTGGACAGGTCCATTCCAT
CTGACCTCTCTACCAAGACTGTTGCTTCTAAGACTGACAATTCGGCCTTAGGGGAAATAAAAAATTTAAAGAGAAGTGAAGGAAAACGCTTCCC
ACAAATTGGAGAAAGGTGTCTTAAAACAGCAGTCCCCAACCTTTTTAGTGCCAGGAACTGGTTTCATTGAAGATAATTTTTCCACAGAGGTCAG
GAGGGGATGGTTTGGGGATGAGTCAAGAGCATTACATTTATTGTGCACTTGAGCTCTATTATTACTATTACATTGTAACATATAATGAAATAAC
AACTCACCATAATGTAGAATCAGTGGGAGCCCTGAGCTTGTTTTCCTGTAACTAGATGGTCCCATCTGGGGGTGATGGGAGACAGTGACAGATC
ATCAGCCATTAGATTCTCATAAGGATCATGCAACCTAGATCCCTCACATGTACAGTTCACAGCAGGATTTGCAATCCTAAGAGAATCTAATGCC
ACCATTGATCTGATGGGAGGTGGGGCTCAGGAGGTAATGTGAGTGATGGGGAGTGGCTATAAATACAGATGACACTTTGCTTGCTCACCCTCCC

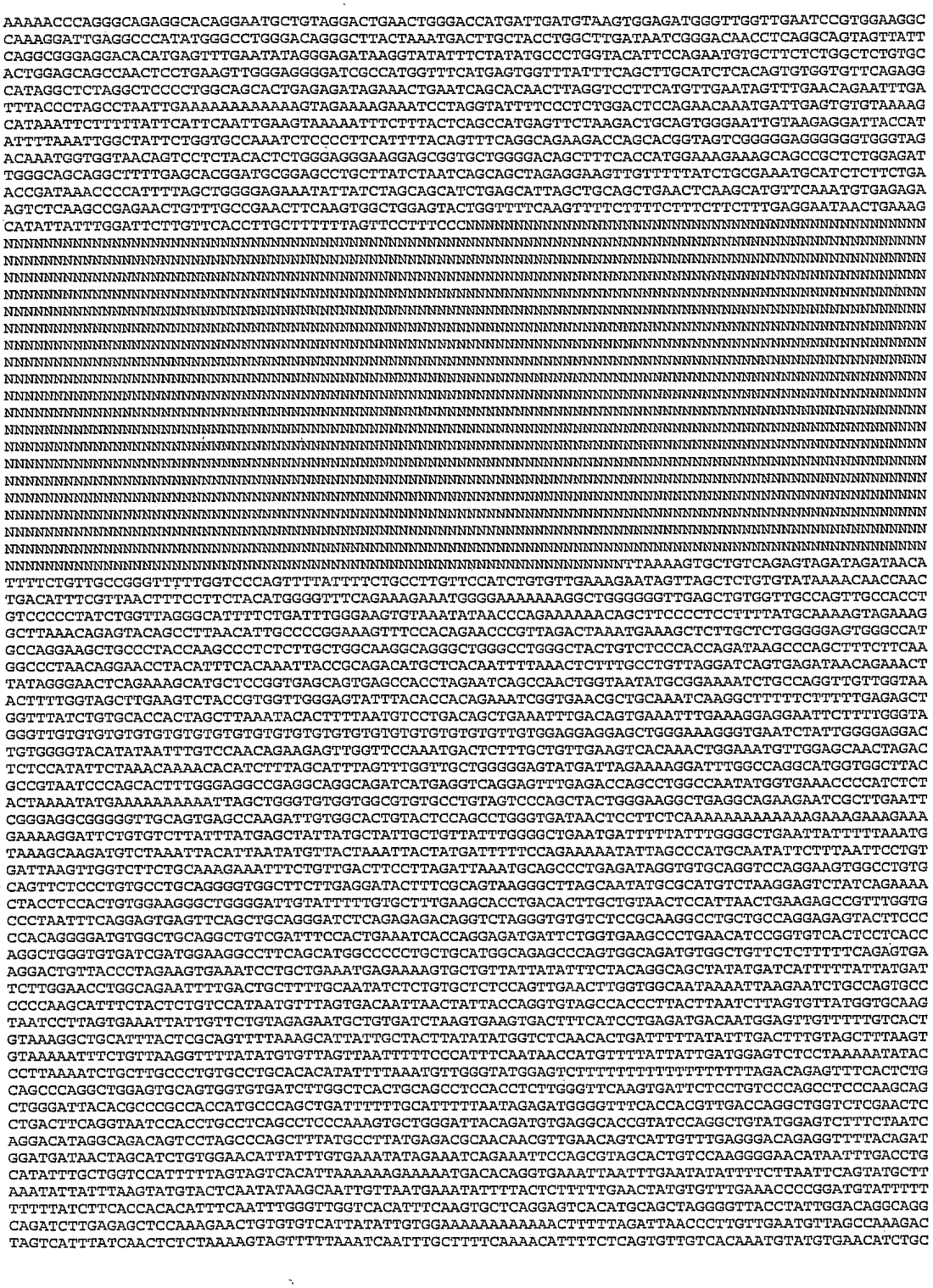
TATACTGGTCAGTGGCCCTGAGGTTGGGAATTCCCGTCTTACAGAAATCAGTTCTTGGAGAGATCTCATTTCTGTGTTGGGAAATGTGGCATAA
GCAGGAAGAAAGAGGATACGTGTGGAGCCAGAGGAGGAGCCAGCATGATTCGCAAGGTAATTTGAAAAGAGAGGGCAGACGCATGGCTGAAATA
TTATAACTGGCCAAGATTTGTATCCCAGCCTGGTCACATAAAAACTGAATGCTTCAAAGTGCCGAACACTTACCCAGTGCTTGATATCTGCCAA
GGAGCCATCAAAATGTCCTTAATGTGCACTAACTCATTGAGACCTCAAACATTTCCGAGGATGTTTGTGCTATGGCAATGTTCCCATTTTACAG
AAGAGGAAACTGAGGCATGGAGAAGTCTAGTAACTTGCAGAACTAACTCCAATAGTTTGGCCCCAGAGTCTGTCATTTCACAGCCAGGTTCTGG
GCTTTCCATCAACCCCCAGCGAGTCCCCTTCCCTGAGCTTCAGTGTACTCATGTGAAATGGGGACCACAGTGCTAGCTTTGCTGCATCGTTAGA
TGGGAGATAATGCCTGCATGCCTGTCACAGAGCTGGGCTCAGGGTGGGGTGATAATTACAATATTACTATTAATCTTGAGTTAATTCTCTCTTT
TGAGACGGATGTTTCTAAGCTCCCCTGCCAGCCAAGTGTGGAGCAGAAAAGCATTTGCTCAGACCTCCTGTGTGATCTCTCCTCACCACCTCCC
TCCTTTTGTCCATGAAGCCTCCCCCAGTTCTGGCAACTCTTTAGTGCTATCCTTTGTGTTCCATAAGGCTCATGTCAGAATTTATTATGACACA
TTTTGCATCAGAATGAAACTATTAATTGTCCACCGACTTTACTAGATTGTGAGCTCCTTAAGGGACAGATCTTCCTTTCTGCTTTCTTGTGACT
ACCTGCATCTCAAGAGCCACCTGCAATGGTACACTCTCAATAAATACAGGCTTTCTGAATAAATAAATGAATACATGCCACCAGAGTGTTTATG
CTTCCGGAAATCCTGCTCCAATCCTGTTCCTATTCAAAGAATCAACTGGAGTGACACACAGCTCTGTTCTTCTTTGTTCTGATCTGTTCAGGTC
AGATTAATATATTATTTTTTATTACTCATCAAAAACATCTTCAGAAACTTTTCATCAGAAAGATTTTTTGTGTAAACCTATCTATCTCCTCCAA
ATCACTATATCTGACTCAGTGTGATTTTTAGTCTCTTATAACCAAATGATATTGATAGAAATTTGTTGCTTTTGAGAACCTAAGTGTATTTCTC
TTACAAATTTCAAAGGGAATAAAGTGAAAGTATTATCAGGAAGTGGGAANNNNNNNNNNNNNNNNNNTGGGAAGAATTCATATGTCAGCTGC
AGCCCATCCCTGATTCGAAACCTACAGGCAGAGATGTGAATGGTCAGTAGTGCTAAAGGATTTCTGTGGTTCCTGCAGAACCAGGAGACACTGA
GGTGCCAAGACAGGGCCTTACAGATGTTTCAGGAAACCAAGCACCCAGAGGAGTATCTTGCCAGGTTCACCAGGTGCTTCCTACCCAGGCACTG
CCAGCAGGACAGTCCTAGCTCTGCACCAGCCCCCTGCCTCTCCTCTGCATCCTGCTCCTTCACCCCCAGCAGCAGGCGGGAGCTAGTGGACTAT
GCTTAGAAATAGCCAAACCAACGAGGGAGCCCAAGAAAAAGGATCGAGGACCTCTCACCAGGCCAGTGATCATTACTTTTCAAAAACAGCAGAG
GCAGAAGCTGGAAGTCATGAAAACTGGGAAAAAGAAACCAAAGAAACAGTGTCTTTGTTGCAACAGTTTCATCCAAGTCCTGGGTATATAAATA
AAATAAAATTTTATTTTTTAGCAAAAAAAACCTTTTGCTGTTATTTAAAAATATTCTTGCTGTTTTCCAACCATCAGAGGAGACATGCACTTTT
CATTGCTGTTAACAGATCTTTTTTTTATTGAAGAAAAATACAATTATGATAACTTCCATAGATTATTTCATTGAATTTCACGTAATTCTATCAAG
ACCATTGTGAAGTAGATGTGCTCTGCGGATGAGAAACTGAAGCTCAGGCTTTAAACAACTTGCCAAACACAGTTACTAAGAAACAAAACTATTA
ACCATATCGTATCACCTCAATCATCCTTTTACTTTCCTTTGAAAGTAAAAAACTCACTCTCTTTTGAAAATCCCATCCAGGCTCTACCTGGACA
AAAGTGCCTAGCTGCCTCTCTTTCCATAGTGAGCTCTGAATAAGTAGCCTTTGATTAATCCTATAGGTGGTCTCTATTCTTTCGATAATACAGC
CTCATAAGAAGAAAAATTGGTGATTTAGCAATTATTGCCTGAATAAATTAAAGTGTTTTATTTAATACTTTAACATTATGAAGAGGGCAATATA
TGAATTAATATGTAAATAAAATAAAATGACTTTAGACATAATATGAAAAAAAACAGTTTTACATGTTCCAATTTCTCCCTATATGTTTTCCCAT
CCATTGTGCATTTTACTGTTGTCCCTAAGGGTTTGAACATTTGATTTATATCACCTCTCTGGTCCCTCTGAGTCTATCCACAGACCCCAGGTTA
TAATAATATAAGCTTGACTTCCTTCAACTCCACCCGGTTGGGGGCAAGGGTAAGGCATGGTACCTGCAGCCTGACTGCTGTTTTGTTTTGTTTT
GTGACAGGGTCTTGCTGTGTCGCCCAAGCTGGAGTGCAGTGGTGTCAATCATGGCTCACTGCAGCCTCAAACTTCTGGGCTCAAGGGATCCTCC
TGCCTCAGCCTCCTAAGTAGGTTGTTGGGACTGCAGGTGCATACCATAACACCTAATTTTTAAATTTTTAATACAAATGGGGTTTGATTTTTAA
AGTTTAAAATTTTTTTGTACAAACAGGGTCTTGCTTTGTTGCCCAGGCTGGTCTGGAACTCTTGGCTTGAAGTGATCTTCCCACCTTGGGCTCC
AAACTCAGGTGTGAGTCACTGCACCCAGCCAAGGAGCCTGACTCTTCACAGTGCACTCCTCATCTCATTGGGACATTGGTTGGGCTAGCAGGGA
ATAACTGTTCTTACTTGGAAAGTACTCCTCTCTGTCAGGCATGTGGCAAGGTCTTCCATATGTGATCTCCTTAACCCACAAACAACCCCACCAG
GAGGGTTATATTATCACCACCAATTTACAGATGGGGAAATTCAGGCTTTGAGAGATTAAGGACCTCAGTCAGATTCATAAGCCCAAACTATCTG
GGCTCTTAGCCCCACATGCTCCTGCCTCAGTGGGCTACACCTTGGTGAGATGCCTATGTTTCGGTCCACTGGTCCACTCCTGAAGACCAAGGCA
CAGGTTTAGAGAGACGTACCAGCGGCTAAAGGTACTTCTGCATCCAAGAACTAGAGGTGTCCCGTGTCCCCTTTACAACATTGTTGGCCTCCCT
CTGGGCCTTGTACCTTATGTTTATTGCCTCATTTAATCCAGGTAAGGAGTCTTTAGGATTGGTGGCATGTATTCTTTTTATAGACAAGGAAGAT
GATGCTCAGGAGTTTGGATAACCTGCCCAAGGTCACGCAGTGGAGGAGAGGACTAGAAGGTAAATCAATGGACCTTTCACTACCTTCCCCTTCT
CTGGGCTGTAGCAGTGAGTTAACTGGCTCAGACTTGCCCAGCGGAATGCCCTTCAGGACACACTGAGTACTGTAGTAAGAGCTGCATATGCGCT
CAGGGAGAATGTGGATAGACGCTGTTTGTGATTCACGGGTAAAGGGCCTTCTCCCAGAGGCAGCAGAGGCAGATCCTGTCTCTGGTGTGCCCTG
GCCCCCGACTTGGAGGCCTCCTGGGCCAGGCCAAGACCTTCCCCGGCAGCGATGGTCTCCAGCCACACTCAACTGCCCTGAAGGGACATTTCCT
GCTTATTCCCTTGCCCGGCTGTGTCCTCCACCCGGAAGGCCTGTGCCTTCTTGCCTGCATGTCCTACCCTGAGGAGGCTCCCTTGGTCTTTCA
TCGCTCTCCCTATGGGTCTTCACGCCTTCCCGAACCACCGCGCCCAAGCAGGAGCACGTTCTCGGCCCTCTTCACAGGGCGCTCCTCCTCACAG
GGGTGCCCGGGATTTTTATTCTGTGCCTTCCTGGTGGCTCCTACAAGTCTGGAAGGGCAGGAGGCGCATCTCACTCCTCTGGGTCCCCTCCCCT
AGCGCCTGGCGGGAGCCCAGGCTGCATTTGTGGAATTCATGACTTTTTCTCTCCTGCTCAAGCTGAACACATTGCTGGCTCCTGCTCGGGTGGA
GCCCGGCTAATTAGAGTGAGGGGCTCCCCGTAGGGCGAAGGGGTGCGCTGTCAGATGTGGCATTCCCGTTTTACGGAGACACACGGTGTCTTAC
ACGCCAGGGAGAGGTCTGAGACGCAAAGAGCCGTCGAGCGGGCTGCGGGATTGCTTCGCTGTCACCTCCGCCTGCAGCCACCCTTCCGCACGCA
CTTGTGTGTGCACCCAGGCCAACATGGAAGGCGCCATCCTAACTTCTGCCGTGAGCAGGTGGGAGGGAAGAGAGACGAGAGGTATTCCATTGGT
TGTCTGGGAAAATGAATTGCACCTTCCCCTCCCTTGCGGAGGATCAACTTTTCCCACCCCCTCGGGTGGGCACTCGCATCCTGGGGCCGGAGAC
TGAACCCGGGAGCCAAGGGGCCCCAGTTCCAGGGANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

ACCAGGCCGACATGGGACACTTCTGAGCAGCCCCGCTGTCACCAGGAGAGGAGTTCTAGCTCCCAACCATATTTAAATTTATGTAGACCTACAT
ATACCCACGGAAGTCAGCCTTTATAAAGTCGTGTGTAAAGAGTTTTCCTTATATTTGAGCCGGGAGCTTTCTTTTTATACTATAAATATGATGA
GATCGAGTCTGAACTTAATTTCTGCAAGAGAGGAATTATCCCGGCTTTGAAAAGTTAGTCCTTTTGCTGACCGCAGGTTTGACGCTCAAGTCAC
CAAACCTTCTCAGGAAAACCCTTAGTAATATTAAGGCATCAGGTTACTTGCGGTTATATTTGAAATGTATTTTAAATATTTGTCAAGCATCGCT
GCTGATGCCTAAGGAACCTCGTGAGGGCTTGTTTTTCCTTCTAATTTGGAGGCATCTAATGACCGAAAACCGTAGCGATTCCATAGGGTCTGAC
CAGGCACAGCTTTCAAATGCAGCTTCCCTCTCTCTAGGGACTGCAGCCCACCCAGACTGAATTTCAATGCGGTGCGCTTTGCTTAGGTTACCCA
CTCACAATTTCCCACTGCGCCGCAGGCAGTATATTTCAGCTTTGAGATACCTTGTTTTAAAATTCCAGACAAAATGGTGTTGAGGAAATGTCTC
CTTACTAGTCCCATCAACTTCTGTTAAAAGAGGAAAATTTATGGAATTTGAAAATACTGCGTATGATATTTAAACTTTCATAGACATTCAAATG
CTTTTAAGGCCAGGTTCAATTTGGTTATGAGTCGAGGGGTGGGGGGGACCCACATAGAAATGTCCTGGGTCCTCTTGAGTTTATTTCTTTGTTT
GAAGATGTTTGTTCAATGAGTTTTATTGTACTCATCTTTTATATGGAATTTTAAAAAGTAACAATTTCAGTATTATTTATATTAGAATGTGTCA
GAATTATTTCCGTGACAAATCAGATCATTTGGGCTATGGCTTAAAATGTACACGAGGCAAATATTCATGACAAGAAGATTCACCTTCTTACGCT
GGCATCTTGTAAAATGCAGAACAAGTTAAAGAAATAATGTGTACACATACAAATAATGATGTCACATTAAAAATACTACACTATTCTTGCTTGA
TGGAATGTATCTGATTTCCAATTTCACCATGAACATATTTCATACATTTTTTACATGAAAAAAAACGTGACTCTTAAGTCTCACAGTCAATCAG
AGCTGGTGACCAGAACATTTTATTGAACTAAATGGTCATGTTTTCTTCCCCTTTTGTTTCACGGTGAGAGTTGAAGGAAGGAGTTTAGAAACTC
TCCAGTACTTGTTTAATTCATCAGTGTTCTAATTAGAGTGGTACCTCTTGGAAAACTACACACCCCCCTAATGCAGAAACATCATAGCAATAAT
CACCCACCCTCAGGGTCTCCAGGAGACCACAAGGGCTGCAGATAAAAGTCTGGATGTGTTAGGTTTGACCCTTTCGAAGAGTTTTACACAGGCT
CCTAAAGAGAAGATCAGCTGTGGCCGTTTGTAGCCATTTCCTTTGTCGAAAAACTAAGATCGCAGTGAATGTATTAGCCAAGAGGTCTAAAGCC
CTGTTGTACTGCAGGCCACTGTCTTCCTTGTTTGACTAGAGACTTGGAGTTTGAGAACAGTGGTTCTTTGGTTTGGATACATTTTTTGTTCTTG
ATTTGGATGTGTGTGTTTCATGCGTGGTTAATATAGCATATTTTCAATATAAATGTCAAAAATTTTGAAATAGGAAAGAACTCTCTATATATTA
ATGTACTTATACACACACTTCAAGATTATGCATTTATTAACAGATACATGAAATAAATTCCATGTGCATATGCACATATGCACACAGAGCGTGC
ACACACACAGCATGCACACAGCGTGGAGTGAGAGGCATGGGGCAGTGTGGAAGAGTTTTAACATCAAACAGACCTGAAATGAGTATTAAAGGCC
CCCTTTATTTTTAAACTTTTACTAAAACAAGATGGATTTCCCTATGTTATATAATGGTGAATTTTAGGCATAAATAACGTTTTTTGAGTGTTGC
ATAATTGTACGTATTAATGTAATGTAACTGTGGTTAACGAAGAATTCATCAAGGATATCACTGTTTTGTGGCATTTTTTTTTTCCTCCTCTAAT
CTTTGGACTTGTGAAATAATTTCACTATGAAATAAATGTTGGTTCTTGTCATATTCTAAGGGAGATTGATGTAAGTGGCTCCACTCCAGCTTAC
AGAAGGTAAACCACGACCTTTTTGCGTTCTCTGAAAACGCTTGTCTTCCGATGCCTCTGTTTCTAAGACTGACAAGCACTCTGGGGGCACTGTG
ACGCCTGCTTCTAGCGGCAGAGTTGCTGCAGCTCCTGTCCTGGCTGTGAACATTGTTCTCTCTCTGGTGTCTCTATGTTCATAACTACAGAGAC
TTCAGCTCTATTCCATTTCATATTTGTGCTGAATAATCATTCCATTTTATGGGAGAAAACACAAGATGTAAAAGCAACAAGTGACCCATCCTTT
GAAGCTTACAAGAAGAGAAACATTAATCTATTTCACGTCTTGAAAACAGATCAGTTTTATTTTGCTCAAAAAGGGCACATGTACATTTTTGATC
TAGGTCTTAGAAACGTAGAGTTTCAGAGGATCAGCATTATACACACTGTCACACACACACACACTTAAAATTCAGATGAGGAACAAGATAGGAA
TGAGGTTTTGTTAGGGACGCAGAGCACCTAAAACCAAAGGATATCGACAGTAACAAAGCTGTTTTTACTGTAGTGCTGACTGAACACTCATGCT
GGTGTCTTCATGTGGACCATGGCTTTCTTGTATTTCTTTGCAGTTTAATAAATGACTTCATATCTCAGGTTACCTTTCCACATCTCCTGGAATA
TATGTTTATGTCCTTAAAGTTTCAGTGTCGTCACTTTAGTAGCTTTAGTTTGAGTTTTTAAATGTTTGGTAATATTCCAACAAATATTTTTTAA
GACATTATGAAACCTTATGAAGTGCCATATATTACAAGTGAGATAAAACAGCAAGCAAAAGAAGGTTTGCAGAAGGTTTTTAAGTGGCGAAGTG
CGGGCCTGCCCATTTTGGTGTCTCCTTGGTGGTTACTCCTGAGAAGGGCCTGGAGGAAGAGCAACTGAGGCCTAATCTACAGGCAACTGCCAAA
TTGTTTCAGTTGACGTTTTTCCCTCTCATGTTTGACTATAATAAATAGGTAGTTGCCAGTGGAGCCTTCAGCCAACCACCTGGTAATAAACTGT
TAAAAATGGTGCAAACCCTAGGTCACAGGTGTGGGGGCCATTTGTCTTGCCTGTTAACAGGCCTGGCCTTAATTCTTTTCTCCCATGGCCATTT
CTGCCTTTGGGGAACTCACAATTCCTGTTGACTAAAAGAGCACCCTTTTCCACCACAAGCCTGACAAATCAGACGTCCACATAATTTCTGAACT
CGTTTTGGTTAGGACAGGAAGCACAGGCTCCCTTCCTGTCTGTGTTTTCCTAAGAGAAAACGGTCTTCCCTCCTTTTTTGCATATTTGGCAAGT
GGTTCCACCTTTCTCTGCACCCTGGTGGAGTGTGAAGGCAGCAGAGGAACCTTTTGGAGGAGGAAGAGGACACAGAGGCCCTGTAGCCAGGCAC
CAAGATCCCTCCCAGGTGGCTGGGTCTGAGGGGAACTCCGAGCAGCCCTAGGTCCTCAAAGTCTGGATTTGTGTGGAAAAGGCAGCTCTCACTT
GGCCTTGGCGAGGCCTCGGTTGGTTGGTGAGTGCCACACGGTTTCTTTGTGTGCTTGCATGGATTGGAATAGCCATTGTGTTCTTCCGTCTTCC
CTGCTGGTGTTTCCACAGTGGGTGGCCTGAGCCCAGAGCAGCTCCCCATATCCCTGTGCAGGCCACCTGTCTCGGGTGATGGAGAGCATCATTA
TGCTCCGTCTGAACGCTCTGCTTTCGGATGGCCCCATGCTCCACCTCCTGATAGCTCGTGGCGCGGGGCCACGGCTTAACGAATGGCTGAAAAT
GGGTCCTAATTAGTGGAAAAGTGCTTTGTTCATATTTTCTCACTCGAGTGTGCAGTGATTCATTTTTCTTCTGCAATCAGCTCACTGCTAAAGT
AAATCTGACTCTCTTCCCGCCATTGCACACCAAAAGTTAACTCTAATGGGTAGGAGGTTAGGTTTGTTGAGAGAGCAATGCAGTAAAAAGAGGG
GATCCAATGTGGTCTTGTCTGTCTGGTCTTCCTTTCTTCGTTTTTTCCTCCCTTGTCTTCTCTGTCATTCCCTTCCCTCCATTTGCCTTGCCTT
TCCTGTCCTTCCCTTCCCTTCCTTCCCCTCTTTCTTTCTATAATTGGTGGGGGGTTTGCACAGACTGCCAAAACACTAAGAACTGTGTAAAGTG
TTTTTGAATGGCCTTACACATATTGAAGTAGATTTTTATGCTCCATTTTTGAGATCACACACTAAAATCTATACCTTTAAAGCATTTTCTGTTA
GTTTGAAACTATTTGAAAATGAACAATGTGGTTTAGATTAGAGTCCTGTTCTGAAGCTAGGAGTTCCACTATGAATATTGATTTATCAGTTTTT
GACAAATTTTTGTTGTTATACCAGATTTTCACTGGCAAACCTAGAGCAAATAAAATTCCACATAAGATACTTCCCTAGACCTAATGGGAAAAAT
GTTTAATTTAGAGTCTTTAGGAGAAATGAGAATGAGGAATTGACCTTTTGTAAGCTTACTTCTGAGGCACTCTGAAGTGTGTTCCAGTGCTTTT
AATGGAAACTAGAGAGAGCCAGCAACCCCCTAGTGTGAGCCCCACTTTTAACCGGAAAAAGTGACCTTTTCCTCCTCCTTTGTGCTGAGTTTTG
CGTAGGGCAGAAAATTAAGCTGATATTCAAAGAGATTCACTGCAAAAACATATTGATAAATCGTATATTCTATTTCATTAAATTAAAACCATAC
TGCTAATTATCTCAGGTTGTTAAACATAAGGCAATTAATTATCATTTTAAAAGTTGGTAGGAAGTTGTGAGTACTTTTGCAGTATGAGTGTTTT
CCCGCTTTAGTATGAGGTTGTGTATGTTTGCTTGAATTTACAGAATTTTCACTTTAAGAGCAGACAATGTTTTGTTAAAGAAATGAAATTTGCT
AAAAAGGAGCATGTAAAGTGAAACATTAAAAATAAATAATTTCAACTTACTTAAGAGCTGCAGAAAAATCTGATTGCTGTGTTTAAAATGAATT
TTCCCACATTTCGCTCTCTTATGGACAGGAGCATTTTCTGTCAGGTTATAAATAAAGACATGCCCATTTTTTGTACCCCCACAAATGAGGAAGT
TGTAAGCTCTCTGAGGTTTTACTGATGAGCCCCCTCCCCCTGGGTTTGCATGAAGAGATCATAGGCCACAAATAAAGGACTACAAAATGGGGTC
TAAACTATCCTGGTGGGGCCTGATACCCACGTTTCGCATGGACCTTACGATGTGATGAATGGTTTTGGCATGAGTGTCTTAAGAATGCTTCCAG
ATTCGGGTTACAGGACAGCCAGCGCTGAGCTCCCTATTGCAGAACAAAGTAGGAATCTAGAACTTTCTTGCTAACAGGATCCAGCTAAAACACC
AAGTTAGATTCTTAAATGATGTTCTTTTCTGTCATTATTTGATTGTTGTCAGTAGCAGTAATTGTTACCAAGCCATTGATGCTTCTATTCTTCC
CTTTGCCCTTCTGAGACACAGCTCATTTTGACTTCAGTGGAACCCCTCGAAGGTGGGGTGATGAGCAAGGTGAATTTTCAAAGTAAAGCTACTA
AGAGACCAAACTACAATTTAAGGAACCTGATTTTTGAATCAAATTCCATATACTGTGGGTATAGTTCAACATAGATTAATTTCTTATAGTTATT
ATGAAAAAAATCTCATCTTGATGATAGCTGATAATTTTGTGGGTGTCGTAAACAAAACAGAGGTCAGAATTCAGTCCCTTGGGGAAAATTTCCA
ATTAGTAGGAAACCAAGTGGCCTACCTTAGTTTGAAGACACCCATCAGGATGTCTGCACCTTTTCATCCTCTCTGGAGGAAAGACTAAATACCC
ATTATTGTATATAGGTCAGGCCAAAGCAGCCTTTTATATTGCAAGGAATAAGAGGTAAATAGATATATGTGCAACAATGAATCCCCTAATGTGT
TTACTCTAGAACACATGTTCTTTCTGTATTTATATGTAGATTTTGTAGATCTTGTCTTACCACCTGCTAATGGTAGATACTGTATCTAAATAAG
TTGAGGAAAATTTATAGTACCTAGGAATGTGTCCTCAGTGGGCCAATCAATCAATCATGACTTCAGGTTATTTTTAATAAATATACACGTATGG
GTTCATAAACAATGGGATGTTCTTGTGAAGATCTAAATAATTTTACTTCTTTGGGACTAAATAAAATATAGCTTTTGCCAAATAAACTCACACA
AGCACTTATTTTAATAGAAGTCAAATGGCTTTGCAGAAACTTCAGTTTTACAGGTGCATTGTTTGAAATGTTACGGGTATACAAGTGGATTTCT
CTATTATGTACAGTGTTAAGTTTGAGTTTCAAAATGTCCACCTGAAATGATTTACTTGTACGTTAAGATAATTTAACTGCTAAGAAGGCAAGAT
AAAGCATTCTTTGTGACACCATATGGCCTTGCTGAGGGAAAAACTTACTGTTATAAGTTTGTGTTTATCTCTCTTTTTAAAAAAAAATGAAGAA
AAAAACGTTTAAAATAATGGGAACACAGCAGTTCCTGGGGTCCTCTGTCTCTTTATCTTATTATAGTAAATTACCAAAAAAATAATGACCTGGG

GCATGTCTGTGTGGACCCTTCTTTTGGAGGCAGTTTCTGTGTTTTGTAAAGCTGTAGGTTCTATTTTCATTGCACTTCATATTGCTGCACAGCT
CCTGACCATGCATGAAGGTCCTCTGAAATCGGTAAGAGGGCAGAAGAAAATGATTCTAAACTTAGATTTTTTTAACTTAAGTGATGAAGTGTGA
AACGCCATTTATATTTGAGGAAGCTACCTAGGAAGTGGCTCATGTCGATGGCCCAAATCAGAAGAGGGCCTGTAAAAGCTTCTATCAATTTTGA
CTGTGTATGCTTCTACCATGGCGGCTCAATAAACAGCAGTATTAGTTTAAGAGTGGATGGTACAGTAGTATAGACGGGAAGCCTCTCCTCTCCG
TGTGAACCGTGCACCCCTATGAGAGGGTAGAGACAATACAATATGCCTGTAACGTCAGGACAGACAGTCATGGCCAGCTTGAACTCCAGCCCTG
GGCTTCTTGCAGCAACAAACGTGAACACAGAGGACTGTCTCCAACTCCACTTTCTCTATTTTTAAAACAACTTTTTGAATACAGTATCTGCCAT
CTTTTCTTATACCTCACTTTGAAACAGGTGGCTCCACTGTGGCATTTAAAATGTTCTGTTTCTTTTCCCTCTGTATCAAATACCTCTTTACCAA
GAAAACATTCAAACAGCATAGTTTTTAACTGTATTTTGAAAGGTTTCCTTAGTTCCCTTTGACCCTTCCTCTTTTGCATATCAGTTCCTGGCCA
TAAAAATAAAAAATGCTAGGACAGAATTGCACATCTGAGCTGATTTGCCCTCAAAAAGTTTCACAGTGGAACAAACCGCAGGAGGAGTTTTCTG
TGGCTCAGTTAAATGTCGGGGGAGGGTGGTGTGAAAGCCAAATTGGATTCCTGCTTTCCTGTTTAAATCTTGTTTTTCATTGTTATTTGCACCA
GCAATACTCTGTGGAATAATCATGAAAATGTGTAGATTGGCAGCTAATTTTTGAAAAATGAAAAGAATCAGAAATGAAATAAGAGTGCTCGGAA
GTTTTTATGTTCTCTCAACCTGTTTTGTCAAATTGTTACGAAAACCTATAAGGTCTCTTTGACTAGATACAAAGACTTTGCACATTGCCTTAGC
TTTCTCTTGAAGCATTTCCTTTTTTAAAATACAGTGTAATTCACAGTGATATGATAGATTTGCAAAAGTAAAATCTACCAGTCTGAAGATGAAA
GGACTTGTCTCTTAGCAGGAATAATGGGTTTTATTAAAGAGGTCTGTGACCTAAGGCATTTTAAATAAATTACAGGCTTGGTCCCTGTCTCCCC
CATGTATCTACTCCCTTCAATATAAGCATCATTGAGTATTTAAGGAAATAACCCCAAATGTAACTCTAGTGTAGCTTCACTTGTCAGGGAGGAA
AAAGTAAATAGCATACATTTGGCCAAATAACCAGAACTTTACTGTAGAAGTTTTATGATGAAATTTGCCTTTAGTGCAGAGTATTACAAAGATC
ATGTTTAGTTTCTAGCAGTATATAAGTAGCATCCATCCTTATCTGTCATGCATTTGGAGTGTGCGACCCCTGCACTGGGCTGCAACATTCTGAT
GGGCAAGAGTGCTAGGGAGAAAGAGGCATCACCATCAGACTGCACGGGTTCAAGTGTCAGCTCTGTGGTTGATTAGCTGTGTGACCTGGGGAAA
GCTATTTCTCTTAGCCTTGGTTCTCTCATCTATAAAATGGAGATAATGATGCAGATGCCTTGGGTTTAATTGGGAGAGTTAAAGACACATTTAC
ATATTTAGCAAGTAGGTGTTGAATTCTAGCTCTACATTGGACACTATGCCAGGTGCTCAAATAAACAAGTGGACAAGACAGACAACACCCATGG
TCTTATGAGGCTTAACCATTTGCCTCTTCAATGCCAGAAACTTAGTAGGTTGATTAGATAAAGCCAGTGAGTACCAGTATCCTTTTCTTTGCAG
CCTTTTCCTGGCACACTAAAAATACTCAGTACATATGAAATATCACTGGACAAAGAATCCCCCTTGGAGTACCAGTGGAGAAGGAAGGCATTTG
CTTAAAAGCAAACCAACAGAAAGACATTGTAAGGCAGTTGTTTAAGTCTCAGAGACCTATAATTTTTTTCTTTTTTCTTTTTTTTCATCTCGCT
CTGTCGCCCAGGCTGGAGTGCAGTGGCACAATCTCAGCTCACTGCAAGCTCCACCTTCCGGGTTCATGCCATTCTTCTGCCTCAGCCTCCCAAG
TAGCAGAGACTACAGGCGCCCGCCACCACACCTGGCTAATTTTTTGTATTTTTAGTGGAGACGGGGTTTCGCCGTGTTAGCCAGGATGGTCTTG
ATCTCCTGACCTCATGATCCGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACTGGCATGAGCCACCACGCCCGGCAACTACAATTGTTCTTAA
AGCTTGTAGAATTACTGTGTGCTACCAACAGACAGGCTAATTTTGAGTGACCCTCAGTACTTTGTACAGTTAATTTGGCACGCTGTGTACTTAG
TGGCTTTTTAACAGCTATAAATTTGGGCTGCTAGAAAAGTAGTAAAGTTGTGATTCTTGACAGGCATCTATCTGCATTTTCATTTTTACTTCAT
TTGTCTAGACTCAGCTTGTCAGAATTATGGAAGAGACTCCTTGTGTCAGGGCAAGCACTGTGAAGAGAGGTATTCACTGTCAGAAAAGAGAGGG
GAGCTGGAGGCAGCTCAGAGGCCTGAGACCCGCCTCCACAGGAGCCCCAGCAGGTTCGGTGGAGCTCTGGCCACACTCTCCTTTGGGATGCTGA
AGTCAGAATGAGTTCACTTCCCAGCCAGTCTTGCCAAGGCTCCTCACCTGGAAGCAGCAACTGCCCAGGGCTGTTGGATGTTTCTCCCCAGGGG
ACAGCCAGGTCCCAGTCCCGCCTCGGTGTGGAAGGAGGAAAGGCAGGGTCCAGGAAGCTGTTTCAGGACAGGCCCAAGGTCCCCCAGGGATGCC
TTTCAGGGTCAGCGGAGGCTGTAAATCAGCAGGGCCCACACGGCCTGGAAGAGGCCCCTGTGCTGTCGGCTTGCCCGGCTTGCCCGGCTCCTAG
TCCGGCTTCTGCTCCTCCTTTGTAAAGTTATGGATATGCTAATAGTTTCCAACTGAGACTAGGAAAGTAAGTCCTACTTGACACTGTTTGGTCA
GAAAGAGGGAGAGAAAGGAGAAGGACAGAGAGAGACTGAGAGAGAGACAGTCTCAGACAAAGGGAGACGGAGGGAGGGAGGGAGAGACAGAGAA
AGAGATGGGAGGTAGGTGTGGGAGGAGGGAGAGATGCAGAAGGCAGAGGAAAGACAGACAGAGATTAGACCTCCCAAGTCAGTGAGCAGTCCA
GAGTTGGAGTGGAGGGTGCCTGGTGGCTTGTGACTGCAGACTCCACTCCCCGCTCCTAGAGGCACAGCCATGGACAGCTTCTGTCACGTTGGCC
CTGCACTTATCTCTGCATCTATTTCCCCTTGTGCAAGATTCAGAACTGCATGCTCCAAAAAAACAATAAAAGCATTCATGTTCATAAGAATTGC
ACAGGTAAAAGGTAGTTTGCTGATATTGTTGTATTTTTTACTATCGCTTCTTTTAGCTCTTGCCTGAAATTGTTTGGGTTTCCCAGGCAAAGTA
GAAAACTGCGGTACGTTTCTGTGAAATAATTATTCCTTCTGGCATCTCCCTTTACAGACCTACTGATCTTGATTTTTCATTTAGGTGAAAGTTT
GTGAAAACATGCCATTAGCTTGCTTTGTGATTAACTCCTTTTACTGAATGTGAGCTCCTTTTAAATTGAGGCCATATCAAGCTTAAATTCCATA
TTTTACCCGGCACTCTGCATTTCTTCCATGTGGGAGAGGAGGGGCTCAGTAAGTGCTTTGTAAAATACACAGCCGAAGTGATGCACGTGCTAAC
AAAGGAGTGTGACAGGACTTAAGTGCCCTTCTAGACACTTCAGGCTCCCCTTTGTAAGCTGTCTTGGAAGAGGCCACATTTCCTTTCCCTCAAA
CAGTTTCTCATTGTTTGATTATTCTTTTAGCCTTTCTCTGGAAGCAAAGCCACTTTTACGAGAAAGTCACTGCTTTTTCATCTCAAGAGATGCA
AGTTTGGAGTTTGGGGAAGTTTTCAGGTGCCCGTCAAGTCATCCTTTATGATGTCAGACGAGTCAGGCCACAGAATTCACAGGGCTCAGTGCAG
ACCGAAAACTTGAGGCCTCTTGTTCAGAAATTATTAAAAATTTTGGTGAACATCACCCCAAGCAAAGAGATCCCCTAAGCACCAGCCCCCAAGC
AACTGCACTCATAAGCCCATGAAGCCCCCTGCTGTCAGAAACAATGTGGTTGAAATTGTGTATGCACTTGGAAGTGAGATGGATTGCAAAACAC
AGGTCTCCATGCTGGGGCAGGAGTGGTGATAGGGCATGGAGTGGAAATGTCCAGCAGGCCCACGTGCGAAAATGCAGAGCTCTCTGGCTCTTGC
AGACTTGGCTGCTGACAATAGACGCGCTCCAGGAAGGTGCTCGCTGTGGTGTGATCTGCTGCCCACCCCTAGCTCCCTCCAGGAGACTGGTGCG
GGGACTGTTTGCAAATGACTGCAAAAGTAAGAAGGTTCCCACAGAGCAGAGCTTGATTTGGGGACCAGCCGAGGGCAGTTTGTCAGGATTCCGG
CTTGAAACTGTTCTCACATCTCACCGCCTGAAAGGACGAGTGTGTCCAGAGGACTTAGCATTGATCACCTCTGTCTCCATGCAGCAAACTCAGA
GGCTCAGCCCGCATTCCACTGGAAGGGCGTTTGCCAGTGGTGTTGGTTGGAAGAGCCTTGACTTTGCCTTAGGAAACATCTTTTTTTAAGAATT
GAAAATAACTTGAGTATGCAACAGTAGGGCATTTGTTATATAAATTAGTTGACTAGTGTGTAGCCAGTAAAATGATGATGGTGGTGTGTATTTG
TTAAATAAAAAGATATGTGTGGTATTAAATTAAAAAATATTTTAAAACAACATATTTGTAATCTGTTTAGTGTCCTCTTTTTGTAAAAAGTACA
GAAATAAATATACAGAAAAAATAGTAGTCCTAAGTGGTAGAAATTATGAGCATTTTCTTGCCTTTAAAAAAAGTTGTAAAAGATTGTATCATTT
ATGTAGCAAAAAGTTTTAAGTCAGCATTCTAAAAATTTCGTGTTGTTATAGTTGCTGTGACAAGATTTAACTTCTGTATGCTTCACCAATCAAT
ACAGAGGTATTTAAGACCCGGTGTGTGATAGGCCGCGCTAAAATACTATACACATCTTCAGAAAACTAGAGAACTAACTTCTAACTTCCTATAT
TAGTGTGGCACGGCTGTTACAAAGATTTTTCTCATTTGAGTCTATCTTGCTTCTTTATCATTGTTTTGACAGTTTCAGAAGAATCGTGGCTTTT
CCCCTTTTTTACAGTAAAGGTACCTGAGACTCTTGACGTATTGCTTTTTGGAAATGCTTGTGCTGGTCACATGCTTGCATCTGGGCTAGTGTGT
CTGGCTTCCGTGTGCTGGTGGATGCTTACTCTGTTTTCTGAAATACTTTTTCTGTACAGTGGCCACTAGCTGTACTCCTAAGCCACACACCTAC
CTTGAAAATTCATGTCACTTTTAGAAATAGATAAAAGCCCCTCCCATCCAGAAAAAGTGACTATCATGTATATCCTCATCATGACTAATACTGA
TATTCCTGAAATTGAAAATACATATTCCATATGTACCATAAAAGGTATTAAAGATATATGGAGTGATAGATATATTATATATAACACTTCTACC
CTCACAGTTTTCAGCCTAATTGAGAGGGTAAGATCCCTGAATCATCCATCAGTTTTTCAGGTCTCTGCTGAAAGCAGGCCACAGCTCAGATCCA
CACATCTGAACCAGAGACAGAGGTGGCCAAAAATAAAAAGGGGGACAGGGGGACAACCTGGTTTAGAGTCAACAAATAGACTGCATTTTCTGGT
TAGTGAAGGAGCTCTCCTGAAAGTCATATACCAGAGCATAAATGAGCAGATTTCCTTGAGGTCACCTTCTGCTGGCCATAGCTTTCTTATCTGT
GGAGCTGCCAGCTGTCATCCACTTTGGGGCACCTGAGACTGCCGAGCGGCAGGCCAGGACCCAAGTGCGAAACACAGAACACCTTTTTGTTTCT
ACTCCACTGATGCTGGGGTTCTCTCCCTGGTGTTTGTGGCTCGTAGTACACTCTGTGGAACATTCACTATGGTCATCGAAGGGCAGCATCTTCC
CAGTTGTTTCTTTCTTTTCTTTTTTTTTTTTAATTTAAACCGATCTGAGAAGCCAGCCATCTGTCAGCAAAACAGGAAGGCTCGGGCTCTCTCC
TGGGCTCGTTTTGCTGCCGTAGTGAGCGTCACTTCTCCCCGTGTAAGAGTGCTGGTGAAGGCTGAGGCAAGGGCCCAGAAAGATTGAGGGACAA
AGACAGGAGCGCCCGCATTGCCCATCTGCCAGGCTGGAGGTGTATTCATTATTGATGGAGGTAGTGCAGTTGCTGCTCAGATATGCAGCCCTGC
CTGGGTAAATGAGACATTCTTCAGCAAATTGCTTCGTTTTTTGATTGCTGATTGTACGCGTGTCACCAAGCTGACTCAAGGTTCATCGATGCAT
GCTCAGTAAATTAGAAAGAACATAACTATGGATCAGCCAAGAGAATGAATTCTGTGCCTACAATGACCCAGGGCCATTTAATTTTCTGCTTAAT
TTTGTTGCAGTCAGTTTGCATTTTGGGTTATTATGCAGTAGGAAATTAACAATAAATAACAAATTTGGTCCTCCTGTGCTTGTAATGATATTTT

TATAAATCTTTGTAATGCTGTTTTTAAAAGGATCAAGGTCTGTGCCAGTCTGATACTCCAGCAAGTATGTGAGGAGGAAAATGCATTATTCTTG
CTAGATAACCTTGTTGTTAAATAGCATAGGGGTTCTTTATCTCTCTCTCTTTCTCATATCTTATTAGTATTTTTGCTTTAAACTAAAATCCCTT
CCTCTCTTTCTCAGATAACCTGAGGACCATGGATGCTGATGAGGGTCAAGACATGTCCCAAGTTTCAGGTGAGACCTTATGAGATAGCTGTGTG
GGAAGTTCATGAGAAAAGCTTCCCTGGGGCCGGAAGTCACAGTGCTTGGTATGCTCATGGGGGAGGAATAGGGGCTATTCTGCAAAAGAAAAGA
CCATGATGGAATTTGCCTGAGTGTTTCCTTCACCTGTTACAAATTATCTCACTTTGAGCTGAACAGAAAGCCTCCAAGATGAAATTAGTTTTAC
TGTTAAACTTCAGGAAAAAAAAACGGGAAGAGTTAAATACATTTTTGTACTGTTGGAAGGAAAAATGGCTGATTGGTTTAAAACCCAAACACAT
GCCAATGATGGTACTTAAAGAGAGAGAGAGAGAGAAGCTTGAAAAACATAATTGTTGGGCACAGTCATGACTGTTTGTTCATTAAGCATGGACA
CAACATTGCTCCCCTTTGCCATATATCTTTTCAAGCCGTATTGGATATAGCTCTTCTCATCCAGGAGACCCAGGAAGTGGAGAAGTCTGTAGTA
GGAAAAGCCTAAGGGTAGGTCACAGACTGTGACCATTTGGCAGCACTGAGGGTGGACGGCGAGCCAGTCCAACAAAACCGCACAGTTCCCCAGT
GCATGGACATAGGAAGACAGCTTTCTATCTGGCCCTGTATCCAGAGGCGTCAGCCCCAGTAGCAGCTTTCATGGACTTTGGGGTTTTCGGTATT
TCATATTTTTGAGCCTCACAGACTCACAGCCAGCCCCAGAGGCTGACTTATATTTGAGAAAGTTCTCAGTGGCACCTTGCCTTGGCTGAGCGCC
CTCGTGTTTTGAAGTTTCTATGGGATTCTACAAGTTGGTGCTCCTGATGAAGACCAGGACCTATGTGTGGCTGCTCCCCTGCTTGGTGGTTTCC
CTGGGGAAGGTGCAGGAGAGGATCTTCTGAGTTCCATGGAACTGGAGATAGATCTGCCAATCACAGGCTTCCTTCTCCACCACTCCTCAGCCGC
TCTATTCATGTTTCAGATTTTGGACTTAAACTCTCCCAGGTGCAAAGAACAAACAAAAGGCTAGCTTATTTTTCTTTTAGAGTGAGGCTTCGTA
TTTATTACAATATAATTGCCACATTCTTTGTGTAATTCTCACATTTATATCTTAAATATAATTCTCATGAATGAGAATTATATAATTCTCTTTTT
TGTATATCATTGAATATTTTCACTTAATTTTTAATTTTTTTAATCGTCACAAAATAATTGTGTACATAGACACAAAATAATTGGGTACATAGTG
ATGTTGTGATATATACAATGTATAGTAATCGGATCAGGTAAATCAGCATATTCATCATCTCAAACATTTATCGTTTCTTTGTATTAGGAACATT
CGACATCTTCCTTCTAGCTATTTGAAACTATATATTATTGTTGACTACAGTCATCCTGCAATGGTGTAGAACACTAGAACTTATTCTTCCTACC
TAGCTGTAATTTTGTCTCCTTTAACAAATCTCTCCCTATCTTCCACTCCCCCGACCTTTCCAGCCTCTATTAGCCTCTGTCCTACTTTCTACTT
ATAATGATGACAGCAGCATTTGTTAGTTTCCACATGTGAGTGAGAACATGTGGCTTTTTAACTTTTAGAATGTGGTATTCAGGCACTTCATGGT
ACAGTTGGTAAAAGTGAAAATGTGTCCAAAAGTTTGTGATTATCTATATAAACAAAAATGGTATAAATACAAATATCAATTTTGCATTGAAGAA
CTTACCTTAGAGGTATATTCTCACAAGTGCACAGAGCATTTAAGCATTTGTTCACTGCAGCATTGTTATCAGTATTTTAAAACTATGGTACATC
CATGTACTTCCACATACAGCTCTTAAAAATAAGGAGGATATGAATGAACTAGTATGAAAAGAAGTCCAAATACATGTGAAAGTGAGAATAGCAT
GGTTCTGGATGGTATGCAAAGTATGATCTCGTTCTTTTAAAAGAAAATAAATTACATACACATACATATTTTCTATATGCTTGCCCATAACGTT
TAGGAAAATTCTTGGGTGATATTTATTAACCTGGACTTCCTCTTGGAAGACTGATGGTAGAAGGAAGGGGACGAGTTAGGGAAGAGGAGGAGAA
GGAAAACTTTGCTTTTCATCTTCTACCTTTAGCATTATTTGAATTTATTTTCCTTAAGCGTTTACTTTGTTTCGTAAACAAAAAAGCACAAAA
ACAAAAAACGAGTTAAATGGGAAAAAAAGCAGTTTAGCTCTTTATAGCCTCTCATTTGGCTTCGCCAGCCTCTCACTGCAGCCTCAGAGAGCTG
GTCTGGGAAACACTGGTAGATGAGGACTGTAATCCTCACTCATGGAAGAGGATCTCATTCACTGGGTTTGCTGACTGTGACTAGAAGTGATTAG
GGTGTCAAAAAACCCAAGCATGTTAAAAATTTCCAGAGGCCAAAAAGATGCTTTCTATTGTTCTGCTCTTCTTTTCCTTGTCGCTTTCACTTTGG
GTAGCTTCTAAATTGGTATTTTGCATGGTGCATTTAAAGAAAATGAGACCCCTTTGGCCAATGCAGGAGTCTACACTCTGATATTCTAGAGTCA
AAGCTGAATGCTGACACCTAGGAATTCATCTCTAGAATGTTTATATAAGGAATAGCCCCTCAGTATTCCGATCTCGTATCTTAGTAACGAAACT
AACAAAAGCCTGATTCTCCTCTGGTAGTTTTCTTGTCTTTACCATAATACAAAATAAGTAATTTGTTCTGCACCCTGACTGTTCAAAGGATAGG
GTAGCTGGGGGCGGGGACAAGAATGGAGACCTTATTACATAAGACTTCCTGAAAAAGGAAACTCTGTTTTTGTTTGAAATGATTTGGTCTGAAA
TTTAGTTTGTGTACACTTACCAAAGGGATTCCTATTTCTAAAACACTCATACTGCTTTTGATTCCTGTTAACCTTTGAGCACTCTACGTAATGA
TGAGAGCACTTAAAGAGTCATGTCACTTTTAGTAAAGAATCAAAGGATACTTTTTCTACTTCTTCGAGTTTGATCTCTGCTTCTCCAGTTAAAA
CCAGTATTTGTTTTTTTCATTTCTAAAGTTGGAAGAAATGACAGTTAGTTATGGCATAAGGATGTACATTTAACCAAATAGGAGTTGACATTCT
TGGTAAGAAATCTTACCAAGATTATGTTATAGATTATAAGAAATCTTAACAAGAATATGTTCCTAAATCATCCTCTTTTCCCATAAAATATTAA
AGTATCAGCAATTTCATAGGATTCAACCTAATGTATGCGAAATGCTAGATAAACAGATAAATACTTAATATCTGGCTTTTTTTCAAAGCACTGG
GTTATTTGTTCCTTGAGATTTATCCTAAATGTGGGCTATACCCTGGTTTACAGTGTCTCACAGATGTGTAGTAGTAGACACTCCATAAGTGTTT
ACTGACTTGAATCCACAGGGTACTGAGAAAATGCTACTGATAGACTTGGAGGAGAGCATATCTAAAGCAAGCTACCCTTTCCTTTAGGGCACGT
CTCACTAATTCTTTGGGTAAAGCGTATTTTTCTTCCTTTTGTGTTTTTGGCAGTCTTTCCAAAAATACGTGTTATACCTATGCATTATTTTTTG
GTTTGGTTTCTAAAGAAAGAGTCAGCCGGTGGGAAAGTGAAGGATGTGGGAACTGAGAGATCTGCATCAGCATCCCACCTCTACCTCCCACGAT
GGGACCTGAGACAGTTATTTTTGCCTCCTGGACCACTATAGTATCATCTGTAACAGGAGGGACTTGAGCCAGTTGATCTCTAAGGTTCCTCTGG
CACCTGTGACCCTAAATAGATATTGGATATTGGTTTAATGCTATTTGTAGTGTGTTTTTTTGGGGATATGGAAACCAGAAGTTTGTTTCCATAA
ACATAAACATAAACTGTATATATCTAAAGGATATGGAAACCTTTAGATATATATAATCTGCTTACGTAAAGAAGGTTTGTATATATTGCAGTGT
CAATGGGAATATTTTATCAAGTTAAGCATAGTAAATCACATTGATTAAATGCTTTGTATTTACCAAACATTACCCAAAGTGTTTTCTCCTTTCA
ACCTCACAAGGACCCACAGAAGAAAATACAGTTATCATTTCCAACCTGCAGGGAGCTGAGACACAGAGAATTTAAGCAACTGACCGGAAGTCCA
ACAGGGAGTCAGAGATTGCTCTGGGGTGTGATCCCCACTTGGACCCTAGAGTGGAAGCTTCTCCACTACTTTATAGAGTTGAGATTCTATATTT
TGAGCTTGTATTTACCCAGAGAATTATATCCTCTTGGGCAATTGTATATAATAAAACCTCATGCATTTAGGAGAGGCGGGATGACAGAACTTTG
TTGAGTGAATTATAATCTACTTGAGAAATTATTTGCTTACATTTTATAAGCTAATTATACCATATCTCATCCAGTTTTCCCAGAACACTTCTCA
TAGGTAATGCTTTATTTGAAACATAGGCCATAGGTAAGTTAAGTGTAAATGTGTATTTTTATAATTTAACCAGAAGTTTATTTCATTTTTCTAA
ATAAGTGAAATTGTATTGCATCTTCTAAATTATTCTATTTAAACACTTGATGTCTTGCTGTCTCCGTCTCTGTGTGTTTGCATGTCATTGTACA
TGTTCTTAGGAAAAGTGTGGGAGCTTGACGCAATATATACCTTATGTTTCTATGTGCATATAGTTTACCAAATAATACCATAAGTTTACTTAGC
ATATTAGAATCCATGCACATTATTTTTATTTTATCTTCACCGCAACCCTGTGGGATAGACCAAAATCATGCTTTTCAGCCTCCTTTTTCCACTT
GAGGAAAGGAGTCTTAAAAAAGGGACCAGTCTCATGTTCCCATTCGTCTTACAACTAATTGGTCAAGCCAGAAAGCCAGAACTATGTCCTGGGT
CACTAACTCCTAGTCACTGTGTGTTAGTATTTGAGATGCCTGTTGGCTTGATTTAGTCATTTATTTTTTAGTGTTTTATAATCCTTGCATACTT
TTACATTTTAAATGGTTAACCAGGCAAATTGGTTTAAAATCAGTGCATAAAAATACTGTGCCTATCATGATGGGTTTCATGAAGTGATAACTTT
TCATCATGGAGATCCTCAGCTGTCACAGAAGATGAGGGGCCCTGGGTACAGAGGCTCACGTGAGGGATGAAAGTCTCAGCAGCCCGGACTTACA
CTTTGGGGCTTTTAGGCAAATCAGACAACCTCTTAAGAACTATCACTGAGTTCAGGCAAGGCGAGCTTGAATTAACACAGGGCCCTTGGTGGGC
ATGTGAATATATCTCACTTCACTACCATCCAGTTCTGACTCTTTACTAGATGCCCCTGTACATACCAAGACTGATTTTTTATTCTCCCTTCTCC
CCATGTGGTTCTTCTGCATAGAGAGTTCCTATTGATCAGTCTGACCCATGGTATTTTAGAATTGCGATCCCTACTGTTTCATTATTCCTTTTT
CTCCCCCATGTTGAAAAAAATAAATGTCCCTGAGATGCAAGATCAGGGACACTGGAGCACTGACATTTAGTTCAGTGCAGGAACTGAAGGCAGA
TGTAATTCTTAAGAAGNNNNNNNNNNNNNNNNNNNNTGTAGTGGATCTTGTTTTCTCATAGATACAGCAGTTAAATTTTTTAATAAAAGTAACT
AAGAGTTATTTGGATGTATTTTAGCATGCACTGAGCGGAAAGTACGACATTTCTTCATTGGGTAAGTCCTGATTCTTTATGATCCTCACTTGGT
TCCAGGGCCCCATGCATCTAAGGGTGTCTCAGAGCATCCTGCAGTGCTCCAGCATGATCGCAGGGAAAAGCTATAGGAGGAAAAGAGTCAATAA
AGTTTAGTTTCTCAACCTCCCACCTCCACCCCATAATAATGACAGCTGGTTAATCATGAGACGCGTGCACACCCCACACGCCCTGTACATGTTT
ACTCATTGGGATAGCATGTCAGGCCAGAAGGCTCCATGGTCATTTCTATGAAGGTACTTTAGCAGGTCTTCAAGAAGGCAAGTGGCCTGGGTCC
CTGCCTCCCCCAAATTGCAAGCTCCCTGCTTTATGTAGGAGACCTATGTGTATATTACAGTTCTGTGTAAGATTATTTTGTTATTCTTACCCCC
ACACCCACCCCCCAACCCCCCGCTGCCACCAAAAAAAAAAAAAAAAAATTCCTCTGACAACCTTCATAAAGTACCTGGGAGTTTGAACACCATT
GCTCTAGGAAGTCATCTTATACAAAAATAAGAGTTGTGAGGTGGTTCATATACCTTCCTGCGTTCTCCTATTTGGAGTTTTTCCCCATTTATGA
AAGAGGTGAAAACGCTAAGATATTTAGCAATTATTACTTTAAACATTTTCTATTTATAGGCCGGGCGCAGTGGCTCATGCCTGTAATCCCAGCG
CTTGGGAGGCCAAGGCAGGCAGATCACGAGGTCAGGAGATCGAGACCATCTTGGCTAACACGGTGAAACCCTGTCTCTACTAAAAAAATACAAA
AATTTAGTTGGGCATGGTGGGGGATACCTGTGGTCCCAGCTACTCGGGAGGCTGAGACAGGAGAATGGCTTGAACCTGGGAGGCCGAGCTTGCA

GTGAGCCAAGATCGCGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTCGAAAAAAAAAAAAAAATTCTATTTACAGCAGTGAAAA
TAGTAGTGACTTAATGCACATTGCCAAGGCTTTAGCATAACATGAACACTTTCACTCAATGTCTCTCTGGCCTTTTGTTTTTCCTTGGGAAATT
CTTATAATCCTGCTCCGTCTTTAACTATTCATTTTGTATTGGCTATCCAAATATACCCAATAATGCTCTTTCTGAAAATATGCCAATTGTGGTA
ATTACAGCTAAGCTGGAATATTAAATTGTGATGTCTGTTTTCCAGAGAATGAAGTAGTATTCCCCAGAGCATAGGCTTGGTGCCTGTGCAGGTT
CTATTTTAAATATTCCAGGAAGGGTTGTTTTATATACTGAGGATGATTTTACTGGTCTTGCCAGTCGTCTGAAATGCTGGTATTACTCTTGTGG
AAGGTTTATTCAAACAAACAAGGACATTTCACACAATACCTAGTCATGTTTTTCAGACATTTTAATGTTTGGTTCATCATTTGCACACACTCTC
AAAAATCTAGGTTTGTCTATGTGTTCCATATCATTTTGCCTGTTGCCAGCTCAGTCAGCAGGCACACTCTCCCAGGCTGTTGCTGTTTTGTTAGA
CTTCTTCAGGACCTTCATCTAAAATGGTCTTCCACACGTAGCTATACTGCATAAGTTCACATCATCTGTTTCTTGCATGTGGGTTGTGTCTCAA
CTCAAGTTTAAGTTAGATTTGGAAGGGCGGAAACTATAGGAGTTGCAGCTTCAGTGGAGAAAAGAGCATTTCCTACTAGTTATGGCTTCCCAAG
GAAGGTTAGATTCCTCAGAGTAGGAGTGATTCCCCAATGCTAGAACCTTTGGTCAAATATAATTCTAATCCAGTCAAAATAAATACAGGTATTC
TGTAAAACCCGATTTCATTTTGTAAATCCTACTTTGTATAGTATAAGCAATTTTTGTATTTGTGTGGATTATATTTTATTTTCCTATTTCAAAG
AGAAGAATTTGTATTAGCAGACTCCCTTTGCATGCGGAGAGGGGATCATTTTCCCAGTAGGCATGGGGTTCCCTTCCATTCCTTGTCCAGTCTT
CTTTTCCCCACTAAGTTAAGTCAAACTAAGCAGCTGGTAAGATATTCCCTGGTTCTTGCAAAGAAAGTGAGCAGATGGCAGAATGTATAGCTCT
AAGCAGAATACCTGGTGTGGTATCCTCAAACACAAATTGACAGGAGGGTGTGGTGTGGCAAGCTCATTGTGGGGGTAAATTGGAATAAGCTTAC
AGGGGGAAGAGTTGACAAAAGATAGGAAGAACCTTAAAAATATAGATGCCTTTTATGCAGTGATAAAATGTCTAGATATTTATACTGTGGTGAT
TATTAGGAATATGTGCAAAGATTGGCTATTAGGATGTTCATTACAGTGTTGTTTAATAATTATAAAAGGACAGAAAGCAATGTGGACTCAAAAA
TAGGAAAAGAATTTAAATAAATCCTAGTGTACCCGTTATACATGAAATTATGGAAATATGACCCTGAGCATGGAAATATGTACATGAGAATGTC
TAAAAGCTAGTTCATTTTGAAAAACAAAATAATGTCACCTCATATTATTTATAGTATATAAAGATGATTTTAAGAGTGGCAGTGTCTGGGATTA
TAGGTGATTGTATTTCTTCCCTTTTGCACATCTATGTTCTCTCATTTGTATTGTGTGGGGAGAAGTGACTTTTTTTATAAAAAGAAAAAGGTAT
ATGCATCCCAGCAGAGAAGCACTGGCTCCACCCAGTACCTGCCTCCTCATGCCACCCTCTCAAGCCAAAAGCCGGGGGAAGCCCAGGCACCTTG
ACCATGACCGCCCGAGACTCACACTTCTTCTTTCTCATCAGGGAAGGAAAGCCCCCCTGTAAGCGATACTCCAGATGAGGGCGATGAGCCCATG
CCGATCCCCGAGGACCTCTCCACCACCTCGGGAGGACAGCAAAGCTCCAAGAGTGACAGAGTCGTGGGTAAGTGGGTCACCAGCGGCCTCTGTG
CCTGTGAAACCTTTATCTCTTTGTATTTTTCCAAGACAGTGATGAAGGGATGCAAGTCATTTTATCCATTGTGTTCCCTCAACTGGCATATTAA
AGAAATATGGCACAAAGATCAGCAGGATGGGGGTCCTCTGGTGTGTGGGAGGATGGACACTCACAGGCCAGCATGGCCGTGAGAGCCACACACC
CCGCAAAATGTCCAAGTTGAGGAGCAATCCTGCCCAGGGACGCGTCTCTGTCACTGTCCTCTGTCCTCACTGCACTTGCAGGAATATCAAATGT
TATGGATTGTAGATCGTGAAAATTACACACTTACGTGTTTTGGCAACAGTGCTTTTCAGTGTTTGGGGTTAGAACAAGCCACATCTGGCCATTT
TATGTTATCCCTCTAATCTCTAGTTCTTAAATTTCAGATTTAACTGAAAATAGAAAGTTTCATAAATGGTAATTTTTAAATGTTAGAAAAAAAT
CAAAGCACACATTTACATACCTTTTCCATAAAAAAGTGTGTGTGAAACCATCTGCAACTCCACTGGTTAACTTACACATGCGACAGTTTGTGTT
TGGAAAACTTCACCCACCCTCTTTATTTCAAGAAACCAAAGACGGAGAGAAGTTCAGTGAATTAACCAAGGTGAAATGACAGAGTCAGAATTGA
ACTGAATTTCTGACTGAAAAACTAGTTCTCGCTCCATTATACCATGTTCTAATGAGCTAATGAGTCAACAGTTCCCTGGAATACCTGTTTTCTT
CTTTAAAAAGAGAAAGAGCTGTGATACTGAGAGCTACCTATTGGCATAAAAGAATATGAAGGACATACAGGTAAAATGAGGTAGACTGGATCAA
TGTGGGTCAGCTACATAAGCCCCCATAGCCAAGGAGGGAACATGTATGTAAAATTCTCAGGCTTATGAGAATCACAACTGTATGTCTATAGGAC
ATCCTAATGCAATAATGGGAAAATGTGATAACTGAATTTTATCTACATGTATAGAAAACATATTTTGGGCCGGGCATGGTGGCTCAAGCTTGTA
ATCCCAGCACTTTGGGAGGCCGAGGCTGGCGGATCACAAGGTCAGGAAATCGAGACCATCCTGGCTAACACGGTGAAACCCTGTCTCTACTAAA
AATACAAAAAATTAGCCGGGCGTAGTGGTGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGCAGGCGG
AGCTTGCAGTGAGCCGAGATTGCGCCACTGCACTCCAGCCTGGATGACAGAGCCAGACTCCATCTCAAAAAAAAAAAAAAAAAGAAAAAGTAAA
GAAAACATATTTTGTATGTTTTTTATGTGTCTTAGAAACCAAGTGGACTAGGTATAATGGTTCTTTTTTTTTTTAACTCAGCAGCACAGTTAAT
GGCACAAACAGATAAAGATGGTGGCTAAAGCCATTTGGTGTAGATGAATCCAGAAAACAAGTACATTTATGAATTATTTTACCCTATTGGAAAA
TGGCTACTATATGTGGAAAGTAGAGGGGAAGAGAAATGAACTTGTGAATTATCTACTCTATTCTACCAAAGAAAGATACATATATCATTTCAGG
GTTTTCCAAAGTTGGGATGCAAAGGATCATGTTTCATTTTAATTTATGTATTTATTTTTGAGATTGTCTTCTATGTATTGCAAGTGATACTGGT
TTTACCATGCACTGTACCACTACGAGGGTTCCTTTCAAAACACATTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTAGTCCCTGAAGCACCCAGCGCCAAGGGTACTGTTCTTC
CTGCTTAACACAGGAGCAAACAGATGCTCACACCCTGCCCAAGAACACAGAGGCTCAGGGACTGAACCAGAAGAAATGATCCATTAACCATGTA
AATGAACAGAGAGCCTGGATGTCAGAGTGAGGAGGCCAGCTCGGGTCGCTGTGGAGAAAGAGATGGGCTCTCCCTGGAATCCCTGCAGCTGCCC
TTAGAGGCTGTGAGCCATCGTGGCTAGGGCATCTTTAGAGAACTGAAAGTCAGGCCGATTCCTGGAGAGTGAAGAATAGCACACGTGCCTTCAA
AACAGTGTCAGTATCCTGTCCCTTACGGACGTCATATTGTTGGTGGGTTTTCCTGGGTGGGAGATCACCCAGTATCTGGTTGGCATTACTGATG
GGTTCCCAGAGCTGTCTTTTGGTTCAAAGTCCTGCCCTCGGTCCCAGCTGCCCCCAGCACAGGTGTCACCTTGGAGTCAGGGGCGGGTTTGTCA
TAGCCCATGGGTCCTGGCCCTGCCCTTTATCATGTTTGACATGATTTTCAGTCTACTTTTCCTTCAGGATGTAATTTAGAAAATATGATTTCAG
AATTGTGAAATTTAAAAACCCTAGAAAACCTCTTTGCTTTGCTTGTAAATAGCAGTTGATGCAGCCCTGTGGACAGGCGGGAACAGCCATGTGA
CGTGGGCACTGAGATGATTTGGGAGATTGAATGCTCCTCAGTGGGGCTAGAGGCCACAGGAGTGATAGGTTACTGTAAAGAAAGCAAAAAAGAT
GCAAAAGCCTACATGACAAACCAGGCACGACACAAAGGAGAGGCTTGAGAAGAGGAAGTGAAGGAGGGAGAGGATTCCACAAGACCGAAGTGCC
CAAGGAGACATGGAGGGAAGAGAGGGCTCTTCACAGAGCTGAGTTTAGAGACCACCCTCCATGGTTCTGGAAGGAAACCAGCCAGCTTTCATAT
GTGGTGACAGGCTGTTCATTAATTTGTAGTGTACAGCATTAAATAAATGAAGTATGTAGAGAACATTAGGAAACAATATAAAAAGGTAGGGGAA
TTCGTGGATAAAGGGAATAACCTGGGTACCATATTTCATCACATTATTCCATGGGAATAAGTCATCAGTGCAAAGGACTGTAAGGAGTGCACAG
CAGGAAATGAAAAGACAGAAGCAGTGGGGCCGAGAGGAGGAAATGGAGTTGCTGAAATGCAGGGTGAGCAGCAGGGGCGGAGAGTGCCCTGTGG
GTAAGGCACACCTCAGAAGGGACAGGTCCAGGCCCTCTCCTCCCTGGCCTGGAGCTTCTGGCAAGGCTTTTCTTCTCTGAGCCTCACTTTCCTC
TTTTGAAGGTGGCAATAGTAACTGAACCTGCATCACAGAATGGCCTTGAGGGTTAGATGGAACATATATAGACATAATTTGTTGAAGACAGAGT
AGCAAAGACACAAAGTAAAAAGGACAGAAAAAAGAAATGCAACTTGTGCAAAATAGAACTTTCAAAGATTTACAAGAAGGGTAAATGAAGCTAT
CGTAGCTTCACTTGGGAAAAGGGAGAGAACAGATGACCAGCACCAAGGATAGAAGAGGGATTTCTTACTTTAAAAAAAATGGTCCCAAAGAATA
AACAAACTGAAAACAGCCAAAAGAGAAAGGAAGAATTTGTTAGAATAGGGCAAGACTAAAGGACAGAGTAAGGGTGCTGGCCGCCACCTGACTC
AAGTTCAAGTCGAGCTGCCACTGTTGAAATTTCAAGGAGAAATGGTGAGAAGCTAAAAGATGCAAAAAAAAAAAAAAAAGTGGGAAATTATTTGC
TAATAATAGATTGCAAGAGTGTCTGCTTTAGAAAGTGACAAGGAACACTTTTGGAAAGCTGTGAGCTGTTATGACCACTGGCATCCTTCAGTTT
TAGACAAATCTAATCTCAACAAGGATAACAGACCATATTAATAAACAAATTGATGGGAATGGTGGAAATCAGTTCCCTATGAGGAGGGTGCAAA
GTTATACTGATTGGTGAGTCACTCCCAGAATAAACAAATAATGGTTTCACACCTCATTGCTTCATTCAGTGTGGAAGGAACATTCTAGGTTTGT
GTGTAAGTTTGGGGAGAAGGAGACAGAGCCAGAGGGCAGAGCAGCCCTGCAGCCCTCAGTTGGCCTCCATTTTCTTCCCGGTCTGAAGAAAATG
AAACAAAGGATTTAAAGTGTTGCTTGAAGAATTTAAGTTAGACTTAAAGGAGAGATGTGGTCTTTACTCTCCTTTTGGCAAGGAGAGTTTAGTC
ATCAGAATGGTCTATTTAGTGAGACTGTAGCTTGTTCTTCTGAAGTGGTCTTTTTAAAAACTAGAGAACTCTCACCTCTCTGAAGTGGTTGTGT
ATGAAACTGTTTAAAGCCGAGGATGCACTCAGTGACCTCTTCAGGCAACCCCAGATTTACTCAGTCAGCCATGGCACACATGCTAGAGAAGTAA
AAAAATGAATTGAGACTTGTTCTGAAAACTCTTGAGCAGGGGCTCTTAAAAGTTTTTTGTTTAGGAATTATGTCAGGGTTGGGGTCTGGAGAGC
AGATAAGTGTTTTGTGTGAGAAAAGTAAAAACTTAGTTATTTTCTTCCCGTATTCAGTAATCCTTGCATTTTTTTCCTCCTCCTTTATACATAC
ATTTTTGCCAGTTACTGACTTCTCTCTTGTACACATTTCCGTGTCCTAAATTAACCAAGAGTCCTCAGCCACTAGGATTCTATTGACAAGCCCA
CAGGTCTGGAGGTGTGAGTAAGGGCATTCCTCCCCCATGAAATCAGGCAGCAGGGGAGGCGTTTGGGTGGGTGGAACAGAGGAGCAAAAGACCA
GAGGACAGAGAAGAAAGATTGCAGGCTAGAAAACGGGATGGCCACCCCTGAGAAAGAGGACAAGCAAATTTAGGGCTTAGAGTAGAATTGAAGA



TTTTTAAGTCTTTCATTTTTTGCCCACATTTGATGTAAAGAAAATCTAGGTCCAGTCCAATTTTAACATCAATTGGGTTTATTTTATGTAGCTG
TGTTTTAAGTACAGGTCTTGTACTTGTAGGCATTTTGGTTAAGTACAAAGTAACGAGAATACAACAACATGTGAACATGTCAAACAAATCAGTT
TTTCAAAGCTAAGTAGCTGAATTAAATGTAGAAAAACATGACATTTAATTTTTGTCTTCATCCCTTCATTGTATTCCCATGTACTCTATGGTAA
CTTTTTTAAGTTGGGAAGTCCTCTTTAAATTTTTGAAATGAGGTAGCTGCTTTATAGACATGAGGCAGGTTCCCAGAGAGCGCCCTTGAGGACA
GGCTGTAAGTAAACTAAGCTGCAAAGACAGACACCATCACAACTATGGAATTGTTTTGCAAAAATTGTGGAGAGTGATGCCCCTTGATACTTCC
TAAAAGATGCTTTTGCAACCTGATAAAGCAACCGAGGAGAGGTGGTGAAGGAAAGGCTTTTTTTTTTTTTTTTTCAAAGAGAGAAAGAGAAGCAG
CAAGCTGCCTGCCTGCAGCCTGAGAAAGCAGTTCCACCTTGGCACCCATGTCCTCATAGCCCAAGCGGGGCCCACCCTGGCATGTGAATCTGCTC
CGCAGTGTGCAGCCCAAACCCCAGCCTTCCTGTGAAAGGGACACCTCCTGCTGCTAACCGCTGCTCTTCCTGCAGTTCAGGAGACAGCGTGTGC
TCCTGTGGCGGCTGCATTTCCTGAGTACACCATGATCCAAAAAGGCACAGATTCGTCATGGAAGCTTTGATTGGGCCGTTACTGTCTTTTGACC
TTTCTTGTTTGCTTGCCCTTTTGTTTCTTTCCTCCTTTTTCCTTCCTTCCTGTCTTTCTTCTTCCTTCCTTCCTTTCTTCCTTTTTCTTTTTAA
TTTTCCTCCTTTCTCTTTCTCCTTTCTTTCCTTCCTTCTTTCCTCTTTTTTTCTTTCCTCCCTCCCTCCCTTTCTTTCTTNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

CAGTCTAGTTTTTCTTGCGAAGTGTTTGTTGAGTGTGTAATGAGGAGTAAGGAAGGTGAATAAGAAATGGCCTGAGTCTTTATAAAATAAGCAA
GGAGAGAAAACAGTTTTGATGAGAAGCGCATGGAATTTTTAGAAGATAGGACGTGTATTATGTACCTATAAGAATGGGTAGGATTTTAGAAGAG
ATGGATGGGGAAAAGGAACAGGGAGTGGGAACAAAACGTGGACCAAGGAAGAGCAGGTTTAGCCATGGAAGCCTCACCGCCGGCTTTGGTTTAT
CGTGGGCCAAGGGGACAGACCCTGTGGGGAGGGCTGGCAGCAGGGAGGTCTTCCAGAAGTCTATCCTGCAGGCAGTAACAGCCACCCAGTCTAT
AAGCTGAGTGGGCATGGGGGTGATGGGGAATGGGTGGGGAGTTATTGGGGTAACTTACCCCAAAATGATAGCTAGCTGGAACCATTTATTCTAT
TGCATTTTATCAATAAATCTTATAGGAAGTACCATCCTAGTGAAAACCCTGTCACATTGAGGGCATTCGTGCTTATGTTTTAAAACATGTTATT
GGGTCTATGAAAAATAAGGCTGAAACCTATGAGCACCCTCCATGCAAAGTTTCAGTCAAGACTTTGGAAACAAGACAGTGTCTTACTCACTTTA
TAAATTCATTCAGAAAGCCGTAGGTTTGAAAATTCCAAACTTAGATGTAAGAAGCTCTGAGAAACACATGAAATCACCCCCACATCAGTAGAGA
TGTCTCAGCAGACATGGGAAGAGGGGCAGCAGGGTGTAGGGAGGTGGGGCAGCCCCGGGGTGGGCCTTGCAGGCTGGGCTTGAATCCCATGGCC
ACCACCGTCCGCTGGGAGGCCTGGAGCCGGCTGCCCACTCTCTGACCAGCACATGTTGATGCTGTATCCTTGAAGGGACCGTGGTCTGACATCC
TGTGATGCAGACCTGAATCCAGCACCCACAGGGTCTGCACATTCCCTCTTTGAGGTGGAGCCCAGCTCCAGAGGCTGGTCCCTGACTCTGTTTC
TCAAGAAGCCTGTACAGATGTTCCCCTCACCACTGTTTCCAGTCACCTTTGGCTTTCACGGTGCAGATGCTAAGTTTGATTTTCAGAGCCCATC
TGGGAATTTAGTGAACTGAACAGGTAGCATTTCTGAACCCACCCATAACCCATGCCCTCCCCACTGATTTTGAAAGAGAGTTTGCTGCAGGTGA
CTTTGCAGCTGGGTAGAGAATCTTGGGGCAGGATTCCGAGGCAGGCAGATGAGTGAGGATAAATTGGGTTCTGACGGCACGTTACACCAGTGGA
CTCTAACGACGACCTCACCTCGTGCACAGATAATTCTGCCTTGTGCTTAACCGTTAGAAATGTGTCACTGAAGTGTGAACATATTATGCTGTTA
GATTTCCCATCATTTCTGTTCTTTCATTCCCTCTCATTTGCATTGGTTACTCATAAATGTAGATCTTTGGTATGATTTGTACAACTGCCGGGTG
TCAATCTGTGAAAGAAATCGCAGAGCAAGCTGGGCTCTGGTAGCGCTTTATCCCTGCGTGCTGGCTTGCCCGGGTTGACTCAGAGGCAGTCTCA
CATTCAGCTGCGCTGGGGCCAAGGACCCAGGGAGCCAAGTGTGCTTCTGTTTTCTGTATTTAGCAATTTAAGACCTGCGTTTAAATACTAGCTA
TGCATTCTAGCAAAAGAGGTTTATATTTTAACACAGTAACTCTTAATTGTTTAATTCAGTTCGTGTGTTACCTCTCGGAATAAAATAGTGGAAG
CCAATTAACTATAGACTTCATTAGTTTGGATTTAAGATCACCAAAACATTTACCACATCTCAATTGTTCATTACATGCTCTCTCTTTTTTAATG
CAGTTTTTATAATATGGGGAGTGGGGGTGTGGATTTAACCATTATATTTTTATGATATTGGGAGTAGATTTAACCATTATGTAAACTGGATTTT
TTAATTTTAAAAAGTCACTTATCTTGATGTAAAATCATGTCTTAGTAACCTTGATAAACTAAGTTTTGCATGATTACACCTTAAGGTTAAAACA
TATTTCATTTCATCATTTCCCAGAAGGGGCACTGAATTCACCCATTTCCTGTTTTTCATCTCAGAATGTTCTGTGTTTCCTCCATATCTACTTT
CCCGGCAGCAGGACCCTGGAAGCAGTCACACCAACCTCATTTACCCCACCTGAGATTTGTGTGCTTTGAACATAGTTGCAATCAAATCAACAAT
ATCTTTGCTCAGAAATGGATATGTGAAGTAAAATGTGCTGCCCTGTTCATGTATGAAATCATTCAGCTAGCTGGCCAGTGAGCCCTTCATTGCA
ACAAAGATTTTTCTAGAGCCCCTGCACTATCTGGGGCTATGTCAGGCCTCACACTCCTGCTCACACGTTTGGAGGCTACCTTGGCCAGTATTAC
CTTAATCCAGCATTTAGGGGAAGGAGCATTTCAAGACTAAATTTTCTAAACTGCTCAAGCCTACCTCATTTTATTTCTTGTGTATTTTAACACT
TTTGGATGAGGACTCTTCCTAGAACCTACTAACAATTCCCCCCCGCCCCCATGCCAAGATTCTTTAAAGACTTTCTTGAAAACGCTTCAGTCTT
TTCTTCTTAGCTCAAAAGTACTATCCTAAATACTAGCTCTGGCATTACAGGGAGTTAATTTGTGGGCACACACAGTAAATTATAAACCCCTTAA
GCAGAGAAGATTGTATTATCAGTTTATTAGTTTTCTTATTCATTCCTTCAGCACACATTTCTGTTGCCTCCAATGCAGCAGAGAAATTGACTTC
TACAGTTTCCACAACAGTCCAGATTTCAACTGTGTAGTGCTCTTTCAGCCAGAAAGTACACTTGTGTTTCCCTGGCCATAGGTCCTGAACCTCA
CTTCTGAAAAGTCATTGTGCATAGAGAGCTAATAGCTGTACCCTAAATGATCCTGGCTTTGAATTCTCTTATCTGCTTGGATAGTATTATCTGT
CTCTTCCTCTGCATTCTAATTTGCTACTTCTAATCTGCTGGGAATTACAATAAGAAAGAACCATTTAATCATTTTTACAACTGTGCCTAAAGAG
AGTGTGTGTAAGTGCCGAGAGAGTGTATGAGGGACTTGCCCATGAGTAAATGCATGAATTTTAGGTCAAGGGTTTTTTGCTTCTCTTTTGGTTG
ATTACCTCAGAGATCAGTTTTACTTTCTTTCTCATTCTTGACCTATCATCACTAGCTGATATGGATGATGTGTACAACTCTGAGTAAGAATAAT
NNNNNNNNNNNNNNNNNNNNNCTGAGTAAGAATAATGTCAATGGGACGGGATGGGATTGGCTGGTGATTCTGTTGATCTTAAAGTTTATATATTT
TAAGTTTAGTGTTTCAGAATGAGACCAAAGCGGTGACATTTTCAACCTCTTCGGTCTCTCTTCAGTTTTTTCATTTTAAGTTTTTGTTGTGCTT
CTATCACTTAAAGGAAGCCTCCAAGTTGAAATCAAATACTAATGACATTTTTATCTAATGTATAAATGTGTTTTTATTATTTATTAGGAAATTT
ATTTTACTTGGCCCTCAGCCATGACATATCATGGCATAATCACTATCCTAAATTTGTATATCTTATCCTTGCATAAGGTAAGACTTTCTATGAA
TTACACATATTTGTATTTTCCTCTCTTACATATTTTAAGAATTTTTTTATACTTTGTTTTCTGCAAATGAAATATTGCTCATAAGCCAGGTGAT
GGCTGTCCACGCCTCTTTTCCCCTGCTTACCCTTGCTTAGATCTTATGGTAGAATCTTTTCATAGAAGACACAGAAAGACATGAAAGAAAGAGC
TGGAGAAGCCTGAGGGGCTGCCCAGTGGTCTGCTAGGATGCTGTGCCACAGCCCAGGCACAGGAGGCAGGGAGAGCAATGGGGCCCTTCCCTTC
CACCAACATTCAGCAGAATTTGCAGCTCCATGTTTCCAAAGCTTCCAGGGCACTTGCATTTAGAGAGAGAGAGCAAGCAAGCTGCCTTTCCTCT
TCCTCAGTTCTGCCAGCCACACTCTTGCCATGATGAGCAGTTTCAGCCAAAAGCTCCTTCCCCTGCCCTAACACCTCCTGCAAGGCCTGAGGTC
TGGAAGCCACCTGCGCCTGCTGGCCCCTCCTTTCTTGTTTCTGCAATGGATGTTGTGGCCCTGTGAGGGAGAAGAGAAAAAGAAGTTGCCCTCC
TCCCTCTATCCTCACCTCCTGCCATGCTGTCACCCTTATAAGAGAGAAGGGCTAACCATCCAGGCTAATCCTCCAGTGATGCAGGAGAGGACAT
CCTGGCCGGAAGAGTCAGAGCTTCCAGGTGAGCTCAGGTGGGTCAGCCCCCGAGGCTGTGAAGAGCCCAGGGGCCAGTAGATGCCACTTTTGCT
CCAGGAAGAATCTTCAACTGTGTCCTTTTTATTCAAGGGGCTCTCTTTTCAGCGAATCTCTAGATGTACTAGTCACAAACACTCGCATTTATTA
AAATGTATCCATGATCCCACAATCCTTTTACATATTTCTCTCCAGGAGTATCACATTTCTGAGGGCCCTGTGCCTGTTTTCTGCAGGAAGTTGC
TGTTGTCCCGGGTCCCCCTGCCCCCAGCACCTCTGTTACAAGAAGCAGACCCTTCATGCCACACTGGGACCCAGGCAGGCCCCAAGCCAGGATG
CTGGGATCTTAGTAAAGGTTGGAATGATGTCAGAACATAGAGGAGGCAGAATTCCCCCCATAGCATCATCCTGGAGGGCGCTGATTTGTGTGCT
CTGCCAGGTTCATCTGTGACTCAGGATTTAAAAGCCCCAGGTGTGGTGTCCCTTCTGTGCCTGCAAGGTGCGTCTTTAGCAGTTCTCCCTGGTG
TGGAAGGATCAGTGGTTCTTGCAGCCTAGGCACCCTCCACAGCAAGCCCAACACAGGTGCTGTGAGCAGCTGGTTCATGAACGGTGATCCTGGG
GAGAAGAGGAGGATGAAAATGGAAAACCAGTGCAAAGGTGTGTCATCCAGTTGGTTACTGCTGTGGGTGCCCGGGCTTCCATCCCACCAGAGCC
CCCACTAGCCAGGGCAGCCTGGCGGAGGTGAGCATCATTCTGCTTTCTGGCTGCACCTGTGTGGACAGAGCCCGTTCCAAAGCCTCCCAGGCAC
AGGGCAGACATCAAGCAAGGGGCAGAGCTGGGGCGAGGGCTCTGGGTGCCCCCGTTATTGAACACAGGCCTGAAGGGAGCCTAAGAGGTGGCTG
GCAGGAGATACTACAAGGCAGAAAGACAGGGCAGCAGTCTTTGTACTGTACGTTTTTGTTTTTTAAGAGAGAACAAAAAGTCAAGGTTGAGAGA
TGAGAAATACTCTTGCCAAAAAGAGAACACCAAAATCCTGGAGTCACGGGTCTTCCATTACCCTCTCTAGCATTTCTGCTTGTCTTTTCCCTAG
TATTGGTGAAGAATTTTTAAAGTAACCAACCCATACCGTTGGTTACAGGCCCTGTGGTCACCAGGCTGTCTCCCCATGATGGGGATGGAGAGTG
GTTAGTGCAGAAACTTAGACCTCCCCTCCAGCTTGTTGAATGCCCTGAAGTTTATCTAGAAGGGAAGATACTCAAGCGTAGGATTTCAGTGATG
CATTTGGACAGCATCAGTACTATGCTTCAGCGTCAAAAACGTCACTTTGGGTAGGAACAATACATAATGCGTGGCAATGCCTTTTGTGACACCT
GTTCAGGAGATTCCCATAGGAAGCTTCTGAGGCAGAGTCCTCAGGTGAGGAGGGGGACAGGCCTGGGTCTTGGGGGAAGGTGGAGATGACCAGC
CTCATGCCTCTCTCCCCAGTGGCCTCAGTCTCCATCAGGCAAATCTTGAGAAGCCTCCTCCATTCTGCAGGCAAATGACTGAGATGTGTGAGCT
CTGCTTCCCAACAGGCGGAAATTCACATGGGGAAGGGCACCTGTGAATGGCCTTCTAGAACTATCAGGAAGTTCTGGATTTAGTACCCTGTGAG
AGCAGATGGTCCTGGGTGCACTCGGATGATCCTGCCTAGCCAGCTGGATTGCAGAGTGGTCATCATTATCAGTGAGCTATTGAGGGGTTGAGAG
CAGTCAGTGTCATGTATAAGGATGGGTTGGGGTACCGGCCAACGCCCGCCTTGAGGCCTGGCCGCCGGATGGGAGGCGAGAGCACAAGAGAGTC
CTGGCTAGGTGTGCCCCGCTCTGCAGGGCCACACCATCCACTGGAAACCCTGTGCCCACTGGGCTGCGTGCTAAGAGGCTGTGGCCAATGCTCT
TGTCCAAATTTTACTGAATCTGCAGTCTCTCTTAATTCACTCCAAAGTTTAATGTGTTAGCTTGCGAATAAATAAATAAATAAATAAATAAATA
AATAAATAAATAAATGGAAAGAAACAGTCCTCAGAAAGTCCCAGTCAAATTTTAATTCCAACAGATATTCAGCAGTTTCCTCTAAGAACAATGA
GAGTTCTGGGGCTAGCCAGTGTTTCTCTTGGAAAATAAGGAAGAGGGAAAGCGGTGCATTCATTTAAAAACCTGCCCTAGGGAGGCAGCGTTCC
CTGTGAACTCCGAGGCCACAGTGAGCAGAGCAGGCTGGAGGCCTCCCGGCTGTCCTGCCCCTCCTGCCACATGCCTGTGAAAATGCTAGATAAG
GACTTTTTCTCAGCAACTTCCACGCTCCTTCAGTGGGGATGTCTTTGACTCAGAGCTCTGCCACTGGTTATCTCCACGAACAGAAAATGCCACA
GATGGGTTAATTCACTGTGTTGTTCTCATTTTCCCTCAGTTTCAGGCTTTTCTCTCCTTGCCTGTTTTCCTCGCTTAAAAAATGATGTGGGGGT

CCCTAAACGCATCTACCCCGATAGATTTATGTTTTCTTTTCCATTAGTCCACTTTGCGTCTCAGCCCTAAAATTAAGTTTTTGATTATAATGTA
AGGAAGTTTTACCATATTTTAACTCTGGCTTTTTAAATACAAAAGAAAAATAACAGAATGGGCTTCTAGAACTATCAGGAACTTCTGGATCTAG
TACCCTGTGGGGACAGATGGTCTGGAGCCAGCGCACTTGGATGATCTCTCTCAGCCATCTGGACCGTAGAGTGAACTTGTTACTGTCCCTCCAA
GGCTGACAACTATGAGCTCATACTCTTCTAGCAGTTTAATTTAGACCCAAGAAAGGCTGTGTGTGTGTGAATTTGTGAGAGTGTGTGAGTGTGT
CTTTGTGCCTGTGTTTCTGTGTGTGTCTGTGTGTACATGTGTGTCTGTGGGGTGTGTCTGTGTGTGCACGGCTGTGTGTCTGCGCGTGTGCATG
GCTTTGTCTGTGTGTGTGCGCACGCACTCTGCTAAGCTACTCAATGCAATTCCTTACTCTTACTTCCCTTTCTGTCACTTCTCCATAATTCTTT
GTATTTCGGTTGGGCTGGTATCTCGCGGCGGCTTCCTCTTTTCCTGCATTCCTATATTTCATTATTTGCTCTTGTTCCTCTTCTAGGGCTTTTA
CAATATAGCCAGGAGGATGTGGAAACCCAGTTACAAGATGACACACAAGCACAGTGTCACAATCGCTGTGCTTGGGCCCTACCTCCTGGAGACC
AGGGTGGGACGGTGTCTCTGGATATGGAGGGAAGGGCGGAAGATCACGGGGTGGCAGAAGGCCCGACTGTCCGGTCTTCTGGAAGCTGGGGTCT
CGTGGTCGCTGGGCTGGTGGTGCTCTAAAACCTAGAGTAACCGAGAGCAGGATGACTGCACCCCTGACTGCCGACTCACCGGGCTTCGGAGGGC
CATGGGTGTGTGATTCCACTTGTGATCCTCCTACTTCCCCAGCCCACCCTGGTGGTCTCCCACTTCTCTCTCTCTGCCTGTGGAGTGTTATAAC
CGACTCCTTCTTCTAGGCATCTCCATCCCAACCCCAGACCAGTTCCCTTAAACCACCTCCCACCACAGGACCCCCACAAGCAGGGACCTCTCAC
AGTTCCTGTTGCCTGGGGACTTCATCTCAGCTTCCAAGGCCTCTGAAACCAGGCCCTGCATCCTGGGCATGACTGTCCCCATGATTCTCTGAGC
CAGCCANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCCACCCCCCCACCGCCAAGTCCACTGCTGACCCTGCTGTAGCCCCCCACC
TCCACTTGTTGAGATTCCCTCTTCCTGCTTCTCATTTTGAATGTCACCCTTCTGTGACTTCTCACAACCCCCCTGCCACCCCTCCCTCCAGTTG
GCATGGCTTAGTCTTCCTAAGAACATGTGCTGCTTCCCAGTACCCAGGGCTGCTGTGCACCGTGGCACGTGAGTTTCGGTGCATCTTCCTCCTG
CTGTTTATAGATTGCAACATCCCTGGACAGATCTTGGATTTTCCCTCTATAATTTCTCTGGAGACTCCCTCGGGGTTTGCACACACATCTGTGG
AATGCCCAAGTTGGAGATGGTCCTCCCTGATGTGTAGTGTGGGCTATTCAGAGGGCCTCATTTCATAAACTCATTAACAGCTAGGACGCGAAGA
CTTGGAGAAGTTAGCTCAGGACACACGGAGTGGGAGGGAGGCAACGAGTTAAGAAATGGGCTTTGGAGTGCCTCGAATTTGGCCTCCACTTTTC
TTTTCTACTGTCTTACCTGGTCTTAGGCAGGTCGGGTGACCATCTGGAGTCGGAGTTTCTCTCATTTGTAAAGCGGGGGTGATATTTTTCTCAC
AGGGCTGCTTCAAGGGTTAACAAAGTTAATGTCTAGGAAGGACATAGCATAGCACCTTCACCTGGTTGCAAGCCCCTGGAGTCACATGGCAACA
GCTGTGGAACCAGGTAAATGACTTGACTTACATGTTACACGCTCTTAGTTGTTCGATTTGTAAATGGGAAGAGTGTGTGACCCAAATTAGTCGT
TTCCAGATATTTCCTGGTAAATGGTTGTTGAATCATAAAACTAGAAAGATGGGAAAGAAAGGGAGGAACCCCCTTACTTCGAAGAAGTGTTGT
TGATGTGAAGGACAGGACTTTTTGAGACACTCTCATCCTAAGAAACAGCTGATATCTACTAGGAAAAAACATGACATTTGAAGTTTCTTCCTAA
GAGATGTGAGGTTTTGACAGAAGTGCCAGGAAGCCAGAGGTGTGTGAGTAGTGGGCCAATCTCACGTGAAGGCTGTGGGACGGGGCAGGAGAGG
GGCAGCCAGCATTTCCTGAGCGCCAGCTAATGGCGGGGACCTGGCACCTTTGCTCTGTGACTCTCCAGCTGTATGGTGACATGAGGCTGGCGTT
TTCTTTGGTTTCATACGTGAGGAAGCTGAGGCTTGGTGATGTCCTGTGCATGGCTCGGACTCCAGAGCTACTCAGAGGCAGAGGCCGTCTGTAA
ACACCTTCAGGTGGTTGGAGGCAGGGTGCTGCAGCCAATGCTGATCACTCACAAGCCAAGGCTTTATTGTAAGGGCTAAATAAAATAACATATG
CCTAGCATTTATACAGCACGGGGCTTTTTAGGAAATAGTGAGACGACCATGGAGAGGTGGAGGAAGAGAGAAGGGAAAGAAGAAAAAGAAAAAA
AAAGCCTTAAAGAGTTTCTTAAGAGAACTATATATTACAAAGTCCTTGGAGTTTTTTTTTCCCTGGTTAGACATAAGTTTACATGAAACGTTAA
ACGGCTTAAAGTAGCCACATCTCCTTCCTTATGTCTTCTCACAGCCACTTGTGAGTTTCTTATCAAGATACAGAATTATGGCCAAGTGCGGTAG
CTCACACGTGTAATCCCAGCACTTTGAGAGACTGAGGTGGAAGGATCATGTGTGCTCAGGAGTTTCAGACCAACCTAGGCAATATGGTAAAACC
CTGTCTCTACAAAAAAATACAAAAATTAGCTGGGCATGGTGGCATATTCCAATAGTTCCAGGCACTCGGGAGGCTGAGACAGGAGGATTGCTTG
AGCCCAAGAGGTCAAGACTGCAGTGAGCTGTGATCGAGCCACTGCACTACAGCCTGGGCCACAGAGCAAGATCCTGTCTCAAAAAATAAAATAA
AATAAAATAAATTCTGCAACAAGTCACAATTCCTTGCTCAGAAATCTCTACAGGTGTGCTTCTTTGTTAAGAAATGGAGGAAACATGAATTTCA
TCCTGACTTCTGAGTCTTGTAGAGACCAGATCTGACTCCTGCAGCCTTCTGCCCACAGAGCTGGCAGGCGGGGGAATGTGCGCAGAGTGAGGAG
GAGCTGATCTGACATTCCGAACAGTGGAGACTGCTGCCTATTTGGCCGCACCACTGTCCTTCTGCATGGAAAAGTCACAGTAAATAATGGACTC
TCTACCTGTGAGTCGATTTTACTGAGCTGCCTTTTTAAATATATGTGTAGAAAGGGCGATCTCTGTGTGTCATTTGCACATGTACATACACATG
TACACACGTGCACACGTGGTCACTCATGTACACATGTGTGTGCACCAGTGCACCAGACCAGATGCACCCACCCAATTCCACGCTCCTCAGCCCC
TTGCTTTCCTCTGCAGACAGCCAGTTCAGCTACAGTTATGCCAGATTGCCTGCACTCTGATCTTTACCATCACCAGACTCTCAGCTTGAGCTCA
TGCCTGAGAAATCCACTTTCTGGGAGGAAGGCAGAAGAAACTGCCAAGGCAGGACTGAAGACTTGACCTCCACCTGTAGTGGGGTCAGGTCACC
AGAGGCTGGCTGACTCCCCAGGATTTCTCAGCAGAGTATTACACAAATACCCCTTCCTTAAAGATTAGCAACCACTTAAAGACACAAAGTGTGC
AGGACTGTACCCATGGCCGAGAGCGGCGGGATTAAGAGGGCAACTGAGTTGTTCTTCCCATCCCTCCTCCTCTGTGCTGAGTCACCTTCTGCTT
GGAATTCTGACAGGGACCCGTTGGGCTTCTGGAAGGGAGGGACAGCAGAGGATCCACCCTCTGTGTGTCCTGGGGGAGATTACTTATCTCTGGC
CTCCCTGAAGCAGGGCCTGGGCTTCTGGAATCTTTGAGGCTGACACCCTGCCAGCCCTGGGGATGAGAGAGAATGGCCGTGTCTGTCTGCAGAG
CCTGAGGAGGAGCTGAGCACAGCCTCCGGAGTTCTCTTCAGTTGATCGCTTAGGTGGACAAAGGCCACAGAAATGGATTTAAACTCCTCAGCCC
TTTCTTTGCATGTTTGTTCTCATTTGAAGTCAGAAGTGATATGTCCTACACCTCAAGAACGTGTGAAATGCACATACAATAACCCCATTTCAGG
AAGCCAAGTCCAGCTTAACAGTCAAAACATTTCCTTCAGTCTTTAGTCCTTCACTTTGCCGAACTCCCTTTTACACCGGCAGCAACAGTTTAAC
CTGTTGCTTCTGTAAGAGTGTGCTACTGGGAAAACCACATCTAAAACACGTGTGCAGTTACATCAGCTAGAGCACATGCTAAACAGTTGATCAA
AGGCTCTTGCCTTGTGGCCCACGCTGCAGACACTCTGACGACTGCAGAGCTCCGCAGCCCCACGTCGTCCCTTCCGCACTGCCTGCTGTGCCTC
TCCTCTCCATGTGGCAGGGAACACAGCCAGTCATCACCATGTGGCTCTGCCCGGCGCTGCCCCAGCATGTCCTGACAGGGCCTAGATATGGAAA
GGTGGCTCTCCATGCACACACCCCAAGCCCCTCCTGCCCGCCGTGTGACCCACACTCTTATGGGCAGCCCAGTTATTTTGTAGCATTTCCCTTC
CTTATCATTTTGGCCCAGTGATCCAGCACAAATCTCCCTTATTAGAATAAAATTTGGAATGACAAAATTAAATTTCATTTTTCACTTATATTGA
GGACCTCACACTCTTCACCCCTGCCACGATCCCTGACAAGAGCCTTCCTATCTAATCATTGTTCCTCCAGCCCTCTTAGTTTTCTTCAGCCTTT
CTTGATTGCCTGAATGTCCCTTTCCCTTCTCCTTTTAAAGCATGAACCAAGCTTTCTTACCCCGTTCTCATTATCATTTTTGCATTTTCTTCTT
TGCATATGATTCTCCTTAAATTATAAAACTTGGGGGTAATTTCTAGAGGTGCCATCATAGTGCTTCTGTCTACTCAGTGTCTTTAGAATCAGCA
AATATCATTTTTACAAAAAAGTAGTATTTCTTCCAAAAAAGAGTAAGCAAGAAGGTTACAACACTGGGAAAATATCCCTAAGCCTGTTCTTCAA
CCTGTTGAATGTTTTCCCCTAAATTGTTATATGGAGATCCTGGACCCGGAAGTTGGCTGACATGAAACAGGCCTAGCAGGGCAGCTGAGGAAAT
GCTCCAACCTCAGGATCCAGGAAGATTGCACATGGCACCAAAACAATCATTTAAAAGCTAATCCTGGCCAGGCACAGTGGCTCACGCCTGTAAT
CCCAGCACTTTGGGAGGCCGAGGTGGGCTGATCACAAGGTCAAGAGATCGAGACCATCCTGACCAACATGGTGAAACCCCATCTCTACCAAAAG
TACAAATATTAGCTGGGCATGGTGGCGCGCGCCTGTAGTCCCAGCTACCCGGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGAGGAGG
TTGCAGTGAGCCAAGATCATGCCACTGCACTCCAGCCTGGTGACAGAGCAAGACTCCATCTCAAAAAAGAAAAAAAAAGCTAATCCCATAAAAG
AACCATCATTTTGAACCTGCTGTTTCCTTTCTTGTACTCTTTAGAAGTACCCATTTCTCCCTTTCTAAGCCATAGGTGTATTAATTGGAGCTTT
TTCTATCTTAATTAGTTCACTGTGAACAATTAAAATTGTGTTAATAAAACAAAAACAAAAATAGGACTGGTGCCTAGTTGTACTACATGAAGAG
AGAAAGGGCCAGACATTGGTTTTTCCTAATCTTCTGTCAAGTTCTCCAAATCATCTGCTCTGGAAGGTAGCTCCAACAGCTGGGATTTGAAGTA
AAGCATAGTGACTTTGGCCATCACTGACATGTCCCATTTGAAGCAACCAAAACTGTCCCTCGACCTGACACTCATCCCTGAAACACCATGAGGG
TAAGTGAGGCGCTTCGGAAGGTCCACTCAACCCATTGCCAGATAGAGTAAGTGTCTGCCAGGGGCATTTGGAGCTGAAGGGAAGACTGTACAG
ACTCACGGTTTGCAGGCACTGAAGGCGTTTTCCTGCCTTCTTTTTCACCTTCAGTGGACTTGCAAAGCACTAGCCCTATTGTTTTTCCCATCTG
GGAAACATGGTGAATGTTGGTTGGTTGTAGCTAATCCTATGGGTCTTGAGGTCTTTGTTGACAAGAAGGTAGATGTTATCTTTATCTGCGTGTG
GCTTTCTACTAAAACATGAGCTACAGGGCTCTCTTTTTTGTTTTAAAGCATTTTTCCATAAGGTTCACCCTTACTATTGCTTATCTGAATAATA
TTACCTGCTGAGAAGTTTATTCATTGCTCACCAGTTGTAGGGAGATTTTGACACAGGACTGGAGGATTTTTTTCTCATCGTAACAGTGCAGACC
CATGGAAAGCTTGGAAGCAGTTGTGACCGGATAAGAGCAGGTTGAGGATGATAATCTTAGGGCAATGAGCAGGTTGATTGAGAGGGGTGCCTGA
AAGCAAGGTCCCCATGATGCAAGCAAACAAACTCACATGCCAGACGGTGGACAGGAAACACAGGCAGGATGTGGTGCAGGCTGGGCTGCCTTGG

CTGGGCAAAGGCAGGGGCTTCATGGCCATGCTGGGATGTGACGTGGTTGGAAAACAATAAGAATGGAGACCTCTCCAAAGACCTCAGACATAAT
TTGGCCATGAGAGGCAAGGGTAGAGGCGAGCCCCCTGTGGGTTGGAATGTATGGAATCCAGATGAAGCACCATCAACATGCATGGGCTACATAG
GAGAGCTGGGTCTGGGGGAAAAGATGGGATTTGGGTTTGGGTGTACATGTTCCAGGCATGGAGGGAAGAATGGGCAGAATGACGAGGATCAAGC
CCTGGTGGAGCCCCCAGACCAGGGCCCTGGGCATATTTCCACTTGCCTTCTTCTGCAAACTTTTGTGTGCCTGTTGGGTGGAAGGTACTATGCT
GGGGCCATCCAGGATCCGGAGCAGTGTAAGACATCATGGCCTGCATGGTGTGACCCTTGACATCTGAAAAGAACGAGCTGGTGGAGTGGGAAGG
AGACAAGTGGCAGCAGAGTTGACATCATCAGGACTGACTGCAGGACAGGCGGTGAAACGAGCCACTGAGGAGTTACCCAGTGCCCTGGGGAGCT
TAGATGTGAGACTTACACCACCCAGCACTCCCCAGCTCTGTGTCCCTGGGTCCCACTGAACTTGATTGTATTTTAGTTGCCTCTTTTCTAAGAC
CGGAGCAACAATACCTTCCTTGAGTGTGCATGTGCAGTCCATAGATGGCAGCCAGTGTTCTCTTCCCATGAGAAGACTCTGAGCCTCCTCACTA
GAGGGTGGTCTAAAAACAAATGGATCCATCCACAGAAGGTCTGAAAGGTTTTCATAGAATCTTGACTTGGTAGCACTTCAGGATCTAACTCGTG
CTTTCCAGAAGTGTGGCCTGTGGTGTTCTGTCTGGAGTATTTGGTCCTCCCATCCACCTCCACCTTGCTGTCCTGTCCTGTGACTCTCACTAGC
TCAGTCACCGGGTCAGGAAGCCCTGCCATGAAATGCTAGATTTGGAGGCATTGCCAAGGTACCACAAACCATACTCAAACAAGGTCATAATAGA
CTAGTGATCTCACTGTGGCTAACAGGTTCATGTGATTTAAAGAATGACAGCATTTTTTCTAAATTTTATAAATTTTATAAATTTCTCCTAAATA
CAAATCTGAATGTGTTTACCTTTAGACAGATTTTCCCAGAAAATTGTCAGTGTTCTCGAATTTGAAAGTAGATCAGATCTCCTCCCTCTAGTTT
TGAAAATCTCAAGTAGGTTTAGCCTCTCCCCAGAGTGACAACGGCACAAGAAGTTTATAATTTTATGCACAGCTAAATGCAAACTGAAAAGTGT
GGTTTGTGGGTATTTCATTTTTCCCATAATGTTCATCAATTTGGCAATTCAAATAGGATTCAGAATCCAAGGTGTTCGCAGCATTTTATATGAA
AATGTGCCTGAGAGTTTGGGGAATAGAAATTCTTACCAAATAAGTTAAATTTGCTCTTGATAAGAATATATTTTGTAAAATGTAGAAAACTGAG
AAAAAAAGTTTGACACCTGTTTTATCTGCATCCTTTTATTAAACAGTGGCCTGAATTTACTAAAGGACAGAGAACAGGGTTGAGAGGTAATCAC
TGAATAATAGCTTCGCTAATCCCACAGTGACTGCTTCTTATGACAAGCAAGAGGGTCAACTTAGAGGCAGGACTGTCTTCAGGGGCAAAAGCAA
GTCAGCACCTACAAACCTCTCCAAGAGAGTGAGAAAAAGCAGGTTGTATGGCTCATTTTGCAGCTTGCCAGAAGCAATGTGGGAATATTGTCAG
ACTGCACAGACCTGGGGCCAGCTGGCTCCTAGAGTGCGAGGAGCTCTCAGTGACTGCTGTGCATACTCACCTGCTCTGTGACTTTGTTCAGTCC
CTACCCTGGATGTGTGGTGAAGGGTGCCAGGCTTAGCTGCTGGACCAGTGAGGTCCCTGAGGGGGCAGGGCTAAGAGGTGTAGCAGTCGCACTT
GACCAGTCATTGATTCACTGGTTGGGAATTTGTTCATTGAGGGGACACCATTACTCCCCATGCCTCACGTGCAGGTGAGTGTGTGTATATTTGC
ATTAACACACAAACACACTTATGTGTGTCCCTGTATGTGCAGCTGCAGTACCTTACACATCTTCCAGTGCCTCTCAAGCATCATAAAAACAGCT
TCCACAAAACCTCTACTACCCACCTGGCATCCACAGAGCTCCCAGTGATTGGCTCCCAAAAGATACTGAACTTTGGCATGGAACAGAGTGAGTT
TCCACATTTGCTGTTGTACATAATTACCTGTCCAGCTAGAATAGTACACACTTCTTTTACTGAGCCCAGAAGTTTATGTGCCTGAACACGGATG
GTACAGGAACAAGGGTGAGCGCTTATCAATTCAGCATTACTCTGGAGACATGAAACAAACTAATAGGTACAGCTATATTTTGTTTTTTAAACAA
TTTTGTGAACCACATATTTGGGACAAAAATCAACAAGTAAATTTGAATTACACTAGGCAAAGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNACTTTCCAAAAGAAGACATACATGTGGCCCACAATCA
TATGAAATAAAGTTCATCATCATTGATCATTAGAGAAATGCAAATCAAAACCACAATGAGATACCATCTCACACCAGTCAGAATGGTTATTAAT
AAAAAGTCAAAGAATGACAGTTGCTGGTGAGGTTGTAGAGAAAAAGGAACGCTTATACACTGTTGAGGGGATTGTAAATTAGTTCAACCATGTG
GAAGACAGTGTGGCAATTCCTCAAAGACCTATATACCATTTGACCCAGCAATCCCATTACTGCATATATACCCAAAGGAATATGAGTCATTCTA
CCGTAAGACACATGCACGCATTTGTTTGTTGCAGCACTATTCACGATAGCAAAAACATGGAATCAACCTACATGCCCATCAATGATAGACTGGA
TAAAGAAAATGTGGTACATATACCCCATGGAATACTATGCAGCCATAAGAAAAAGAATGAGATCATGCCCTTTGCAGGAACATGGATGGAGCTG
GAGGCCATTATCCTTAGCAAACTAACCCAGGAACAGAAAACCAAGTGCAGATGTTCTCACTTTTAAGTGTGAGCTGAATGAGGAGAATACATGG
GCACATAGAGGGGCCTATCAGAGGGTGGAGGGTGGGAGAAGGAAGAGTATCAGAAAAAATAACAGGTAGTAGATTTAATACCGGATGACAAAAC
AATCTGTATAACAAACCCCCATGACATGAGTTTACCTATATAACAAACCCGCACATGTACTCCTGAACTTAAAAGTTAAATTAAAAAAAAATTA
ATGTCTAATAATATATTACAGTATTCTTCATATTCAATGGCAATGTGTGAAGTGGGAAGTGTCTTGACAGAATTCGGTGTTTCAAGGCTTACAC
TTTGATGCCCAAGACTGCACAAGGCTACATTTTCTACTGGTGAGACAAATTCCAGACGCATTGCATTCAGATCTAATCTCTTAGCTCCTTAATC
TTCAGGGTACTGGTAAACATGAAGACCTCCCCAGTGCTGTAGTCATCATGATATGTACAGCAGGTGGCTGAGCTCTGGATGTAGACTGCAGGGA
TATATTAGGAAGTTAATTCTCAAGGCAAGTCATCTTCAAGCACCATATCAGCATGATCAGCAATATAAGTAGTATCTCAGTGCTTTGTTGTTTA
GTCAGAGTTTTGTACTCTATCACCCATTGTAATGTTCCTATTTGCAAAAGGTAATACATACCCTTTAAAACATCTTTGCTTTTTCTCCCATTAT
CGAGATGCTAGCAGCTTCATAAAGCAGAATAACTAAGGGCAAACAGATTATATAAAGGGTTGGAGCTCAATGAAGACAACAAGAACAGCAAAGG
TTATTGTAAAACTGGCTGCTTGCAGGCCAACAAGCACATCCATATGGAGGCAATCAGTTTATGCTACCTCTGTCTGTTTGATGGGATTCATAAT
ATTGACTTTATCCATTAGATTTGGACTACCAGGGGAATAAAATAAGCAGATGGAGAGTAAGGATTTGCTAGGAAATAATTCAGCCAGTCACTTT
GAAAGCTGTTCAAGAAACAGCTTTCAAAGTGTCTCTCAAACTATGTTTGCCCATTATCCCAATAATTTATTTCCCAATAATTTCATGGGAAAAG
AAGGAAGTTCTGTGGTCAGATAAATCTGGAAAACACTGGTTTAAGCAAAGTTCAGTAGGTCTGCTTCCCTGCAGGTCACCTCAGAGTCTTTACT
CTGCTAACCTAGGAACTCATCCAACAAGTTTAATTTAACAGCTACACTGTGTACGTCACTTTAACAGTCACTGAGCTGTGACTCTTGGGGGAAA
GATTGTGCGTGTGTGTGTGTGTGTGTACACATGTGTGCACATGTGCAGAATCTACCAAATCTTAAGAGAAAGGAACATGCTGGGAAACTGTCCT
GTGAAAGAGAATAGAAACCTGAAGATTTGAGGCAGTGATAGCATTTATGAAAGCAGCAGATAAGGACTAATCACCAAAAGGGGTAGCTCTTTTG
TTGGTTGGGGAAAACAGGAATTTTTCCCCCACCCAATGTGCTGCATTTTCTAATTTTCTATGAACACTTCCTAAGAAAAAGCTGAATGAAGAAC
ATTTGCGATGCAATCAGCTCATTAAGAAACACGCACTTTTGTGGAGATACGTGCTGTCCCAGGAGATGCTCTGCGAGGAGCCGAGTGTTTGGAC
TGGAGCTGCTGAATGGTTTCTCACAGTTCTAGAATGTTTGGGGCTGCACCCTCTAAGATGTTGAACCCATCAGTAATTGCTCCAAACCACTTTA
TGGGATATAATGCTGTGAGTTGACACCTGAGGGGATTGTGGTCCTGTTCATGAGTAATTACTTTTCTGTTGCCTATAGAAGGGCCAGCAATAGC
AGATGAGTAGCTGAACAGTGGTTTTGAGTAATAAAACGTTCTTTTTTAAAAAAAAGTAATGCTTTCTGTTAAACTCTGACTATACTCTCTCCTG
GTATCACAACCCAGCTTTCTTTTTGCCTTCTTTATTGCAGTTACATATGGGGCTGATGACTTTAGGGATTTCCATGCAATAATTCCCAAATCTT
TCTCTCGTAAGTATATGCCGTGCTTCTGGAAAACAAAAGCATGCCTTCATCTCCTATCATGTAAATATCGTACGTGCATGTTCCTTCATCAACC
CCCGAGATACATTAAATATTCACTGTTCTATTCGTTAGACACCTACCATATCATTTTTGGGTATTTATACCATAAAGTGCAAAACGAAGGTCTA
GGCAGTTGTGCGGTGTCCTGGGAGCATGGCAGTGGAGTAACAGTAAGGGTTGGAGTCACAGTAGCACTGATGGGATTGTTACTTCGCGGATGCT
GCTGGACAGCTTTGAGATTACTCCTGTAATCCTTTTTATTGAGTGTGAGGATAAAATGGCCATATTTTCTGTCACCAACAAAGAACTGAACATG
GTTTCAAGATAATTTTTACAATTTTGTGGGACAGGAGAAGGAGATATGCTCTTCATCTGTGGTTCTGGAGTATTAATTTATAGGCTCTAATTTGAACAG
AAAATTGCAGGCCTCCAGGCCGTTATTCTGTGGTGCATCGCTGCTGGAGCCAACGTACTGTTCCTGCTTGGTGCCCGCAGGACCTTCTCTGATC
TGAGCTGTTAAACCAAAAACAGATGTGAATTTCATTTTTCTTTTTTAGATATTGAGCTGATAAATGATAAATATATTTGGGTAACATCCTCAAA
TGAGTACTTTAAAGAACAGAGAGTGCTTTTGAAAATGTATAGAGAGCTGAATATTTAAAGCCATACAAGTTGATAATCCCCTTAGGACCTGTAT
TAGTAAATCCTCTAATACTATAAAGCAACATCAGAAAACAGGTCGCATTTGTTAACACTGTGACAATTATAATTATAGGCTCTAATTTGAACAG
TGCCAGTAACAGTTAAAGACAGGTGTCTGACATCCTGGTTATCAAAAACTATCTGGTGTCTAAGGAATTTAACAGTATCAAAGTACATCTTTTT
GCTCACAAACTAGATTGGCTACTTTTCCAGCCTATAGAAGTTACAGAAATCTTTCTTTTACTGATATTCCTTTGATTCCACTTTAAAGCAATAG
CTTGATACCTACTTTTTGAGATGTATATGTATGTACATGTAAATGCTTATATATGTGTATTTGTTTACACGTGAGCTTATATGAACATATAAAA
CATTATGGTATTGGACAGAGAAATGATATTGATTTGAAGAATCATATTGTTGAAGTATTTTGGGAAGTCAAATGCACTTGAGAGTAAGCTAATG
CATCCTAAAACATGTTTCTGTGAAGTCTGAGGAAGGTGTCAGCCAGAGCATATGTTGAAGCAGACCCTTCAGTGAAGCCTTCAGTCTGTAAGAA
TCGCTGCATGTGAAGATGTGTTAATGTTATGATAGTTACAGTTTTTATAAAAGAGATGATATACACTTGGATATGCTTTCTGTCTATATTTATG
CAAATGTGTCCATAAGGTATTGGTGTCTCTCTTTCTCTCCCACTCTCCCCAGTGTTGGAATTGTGACTATCTTCTCACACAAGCGGCTACTTGG
TCTTGATGCCTTCCCCCGCAAAACAGCAACCAAACTGTTCTGGGCCAATATCACCACCTTGTGGTCATGATGAAGAATTGCCCCCTTTGCCCTC
AACACCTCTTTTCTTCTTGAAAATTAAAAACAACCCCTTTCACCCCCTCTACTGTCCTTATTCCAGTTTGTGTCCGTAGTTGCTGGAGGAAAGA

AAATGCCTATTGCTCTTTTTTTTTATTCTCTTTATCTGTTTACTCTTCTGCCTTTCTTTTCTCTCCCTGACTTCATTCCATTTAAAGGCCTTAAA
TTGCAAATAACGAAAAAAGTATTTTCTAATAATATACCCTAGTGGGACGAAAACAACCTTCTACATTTTAAATGATATTAAGTTATAATAAATG
GTTCCATGAACTTTAAAACGCTTAAAAGTTTTATAAATCTCTTTTAGAGGCAACACAAAAATATCTATATATATATCTTCTCTTCACCTCAAAT
TTTCATTTAATTACCGTGATTCAAGATATATCTTAAATATTTCCATTTCATTTGATTTTTACTTGCTAGTCACCAGTGTTGCAAGAATATTTCT
GTACCATTTTTCAAGTAAAATATTGAGCATTTCAAGCTTACATGGCCTAAACTCACACTAGAGTGACTACTTCGGACTATCTTTTCAATGGAAA
AATGCGTTCTGAGTACCAAACATTTACTTTTTCAGTAAATATGAAGACACATTCTAAAAAGGAAAGGGAAATGAAGAGGAAGCTTAATTCATTG
GTCAGGTGGGGACTAACAGTGTACATTATACCTATGCATTAAAAAATGTTTAATTATCCATGAGCACATACAGTGCCTGGCACAGATTCAGGCC
TCTTGGCTCCTCTTGGCATCTGAGTTCCTTGGATTCTCCAGATTCTTCAATCCAAACTTGTCTATCTACCAAAGTCCACCTTCCATACAGGGGT
GTGGGGTCTCTCTTAGTACTGTTGGGTGCCAATAACATAGAAGCCCTCCAAGATAGGTCAATGAGATTTTAATTTTTCCCAACTTTAAATAGCA
TCTGGGAAGGAAAGCAGCTTTTGACTAGGAGTTTGAAAACATCCACTCTTCATATTTATTGTCACATTTATTGAGTAATAAAATTGGGCTCTTG
TCCATTATCTCTCAGTCAATGAAAGAGCCCACGGTGGGCATGAGCCAAAGTGTTCCGGAGAAAGAGAGGACCAGTCTCCATTTCATGTTCTATA
TTTAATCAGTTCAATTCAGCACCTTACTGAGTTTGACATTTTTCTAAGTAATGGGGTGGGGGGTTACAAAATATTTATAACTATCTTTCCTATC
TTCAGGGAGATGTACCATTTCACTGAAGCAATACCACAGCTAAGCAGTTCCAGCTCCGAGTAACAGAGGAAGGAGTGAGCGATTTAGGAACTCA
CAGAAGGGCACGGCCAGGCAACTCGGGCCCTGGCAAATGTTCCATAGAGACAGCATCCATGGGGTTGAACCAAGCACAATGCCTGCAAATCGGG
CAGGCGGGTTCATGGAATTGATTCTAGGGCAGGTATGATCAGCACCATTTAAGGAGTGGCAGTTGTTAAGAAACTGAAGGGATTTCTCATATGG
CATTTTCAACAGAATTCAGCAGGAGCCTTGCATATCCCTTGGGATGGGTTCCGGGGTATTATGGAGCTGCCAGGAGGTGCTCAGCTTCAGTAAG
TGCCAGTCATTCCTTCCCAACCTCCTCCTTCATTAGTGGAAGTATCAGCTGGTGTCATTGCCTTCTTCAGGAGGATGGATTTCAAAATGAAGGG
CCAACAAAACTCACATTCTCGCAGAGCCTCCGTCACAACTGCATGTGTTCACTGCCATCAACAGGCCAACACCCACTTGTTCTTTTCTTCTAGG
TAAAGGAAAAGGTCTGTGGGACAAAGGCCCTGAACTCCTCACTCCTTGAATGGGAGGCATATTGGTGGAGGCTGTCACACAACTACAGGTGGCA
GGAACCTGCCATCAGGGTTCCCATCAGCCTCCAGGGCTTGCTTCTCTGCCCTGTGTGTGGACACCTTCCATCACTGGAAACCCCTCTCTCAGAA
GAACCACTTCTTGCCCTCATCTCCCACTTGCCTCTCCTCGGCACCTTCTCCACCCTCAGGGGCCAAGCTGAGGAAGTGTGCATCCTGTGCCACC
AACCTTGCTCGCAGGAATTAGTTTCAGTCCCCAGTGACTGACTCTTCCAAACCTGCACCAGCCTATGCTGCCCTTTTGAAAGGAGGCGTGCGTA
CAGCCTGGCTGGTACAGAAGATTCCAGATTTCAGTGACTACAGGACGCTGTCACCCCTTCTGTTTTTCTTTTTTCTGTCCACATCTCTGATTGA
GCATACCTTCAGGGAAAACCCCAGAAACCTTTTTCACACTTACATGGGAAGCCAAGACACTCTCATCCTGGGCTTGTGTTTTTAAAATCTATAT
TTTAATTTCACAGGTCCTTACATTTATGACTAATAGATTTCAGATTTTGAGATACAATCTGTAGTTGCAACTTATGAAGATAGTTTCAAGCCCT
GATTTCTGTCATCTATGAAAACAGTAAGCAAGTTGCTTGTATTCTCCTCCTAGCTGGATAAGAGACCCCCGTTTTCATGGACAGCCTCCTTGGG
TGGACAGAAGTCTCCTGATCTTGTCTATGTAACCAGCACCCACTTTGCATTTTTCCGCAAAGAAAAGAGGAGCTTAACCCCATTTACGGGAAAT
CCACGCACTGCTTGAATCTTACGCGCCCCGTGGTGACGGTGTTGCCCACTCTGTTCCCTTCCCACCAAATCCTGCCAGCACCTGGCAGTCATCC
AGTCCTTGTCTTAGACTTCACCAACCTTTCCCGTCATAACATGGCTTAGAAGTTGTCCGAATAGTGCTAGAAGCTTTCAGCCCTGGAATGCTCA
GCATCTGCCATCTAACTTCCATTTAAAACGTTTTGAGCATTTGCTGATACAGGTTCCTCTGTCCTTTCCCCATTATTTTCAGTTCCTTGGCCTT
GCCCATAGTGATCTGTGGATATTGTCTGCATACTCTTTTTTAGAAACCTAGAGCATCGCAGTGTCCTTAATTTTCCTCTTCAAACTCTATATAT
TCCTGAGCTGATCATCCCTACTGCTGTTCCTACAGAACTGTGTGACTAATCTTCTATATATGTCCCTACATCTAGCCATCTAGGTGGAGATCTA
GGTACCTATCTCCCTAAAATTGTACTTGGTATCCACATTGACCTCAGGACAGTATGTGATAGGCTCTTGTGCCTTTTCGACTAGGAGTTTGAAA
ACATCCACTCTTCATATTTATTGTCACATTTGTTGAATAATAAAATTGGGCTCTTGTCCATTATGTCTCAGTCAGTGAAAGAGCCCAGGGTGGG
CCTGAGCCAGAGTGTTTGTGTCCCTAGTTCTCTTTTGGTTCTGTTACAGCTCTCAGTGACAGTGTCATTGAGGCTAACAAGGACAGAGTACTGC
TTTCAGCCACCATTTGTCCAATGAGTGGCTGATCTCCAGGCCTCTGGCTTTGAGAACATCTGTGATATCTAAGGCAGCATCCATTGTGGGCTTT
CCCCCATGCTTCTGTTCCTTCCTGTCACATAGCTTTGCCTCCTCCTGCAAGCAGCCTGCTGTAGCAGAACCGGTGTTCCTGAAGCCAGAAACC
CAAAGGTCGTGTCCAATGCTTCCCTGCTGTTCTGCTCCCCACCTGCAAGCGCCCACACACTGATCAACAGCACACGCCATAGAGCATGCCAAAG
AATCCCAGAAATACTCATTCTTAATGATCCAGAAGAACAAGTGATAGCTTCTGGCAAGTTCTAATAGGCCATGTGTGCCCATGGGAAAGCAAGA
GTCAATTCTCTCTAGCTGGTTGCCTCTGAATTTATGAAGTCAAGCCGCGTAGGGGAACATGCCAAGAGGATTATCCCAATGCCTGTTCTGCGTG
GTGTCCTTTTTCTAGCCTCGGAAGCACTAGGCCTACACCTTCGCTATAGCCCTCGTCTTAGCGCCTGTATTTGAAAAACTTGCCACACCAATCT
TAATTTGCTCCATTGTGTTCTAATCTCATTTTAAAAACCACAAGGTAAATGATTAAAAATAATCTTAGATTAAGGAGTACACAGATCTTTGCAG
CCTCATTGTGTTTCCAGAGCGGGCTAGTGTAGACACTGGTGAACAAGGAGGGCCTAGAGAATTAGCTTTCTCCCAGAAAGATGCACAGCCTCTA
CCTGAGAGTACCAATTCCAGAGAACTCAATGGTCATTAAGCACCATTGCCTCGACAGCCAGCCAGCCTCACTTGCCTGCCTATCTCCTTTATTT
TCCAAGTATCTTGTCCCTGGCAGTGGGGAGAGGTTAGCAGGAGGCTGCTCAGATGCTCTCGGTCTCTGATCTTCAGGATCTGAAGGGGAGAGCA
TTTGAAGAATCCCCATTGCTGGATTTCTCAGGACAATCCTGCATAATGCCAGGATCTGATGGAGGAGACAGGCAGCTCTGTTAATCCTCTGGTG
CATCCTCACTTCTGTGGTCTCCAAGTCCACCATGTCCCAGTTAATTCATTTCATTATTCATCTGTAAGTCATTTCCCTAAAGAGCTAATAAGAA
AACACTGGCAGTACAATCAGCCCTCCATATCCATGGGTTCAGCCTCTGGAAATTCAACCCACTGTGGCTTGAAAATACAGTATTCAAGAGACAT
GGAACCTGTGGATATAGAAGGCAGATTTTTCGTATCCATAGGTTCTATAGGGCCATTTTAGGGACTTGCACATCTACAGACCTTCAGGAGTCTC
AGAACTGATGCACTGCAGATACCAAGAGATGACTGTAAGTGGTTAGGAATTTGGATGCTGGGGCCAGGCTGCCTGCAGTTACCTTCCAGCTCTG
CCACTTGCCAGCTATGTGACCTTAGCAAGTTGTTCAACCTCTCTGTGCCTTGGCTTCTTCAACTGTAAAATAGGATAATGATAGCACTTCCCTT
ATGGAGTCCTTGTGAAGGTTAAATGGCAGAGTACAATTAATGTGCTGTGTGCCCAGCGTGTGGTATTGGGGTTAGGTGAAAGACTGTACTGGGA
TCACTGGGGGTGAGCCTCCATGTGCCATGCCCCAACCACTATCCTCAGCTAACTTCTTGTCTGTCAGTGTTAGGCTGGTGCTATAATAATTTCC
ATTTTCATGGATGAGGAAATCAAGGCACAGAGAAGTTACATGACTTGCCTAAGATCTCAGTGCTTTTAAATAGTGCAGCTAAGATTCCAGACCA
GGTATTTTTATTTCAGTGTCTGGACTGTAGATCTCTAAATCGAGAGGAACTCCCTGAATAAAATAAGCTTGGAGTGCTGTTAACTAAGTTGGTT
ATTTAAGACAGTTGTTCTCAGTCCTCAGTGTACATTAGAATCTTCTGGAGGGTATGTTAAAACAGACTGCTGGGCCCACCGAGAGTTCCTGAGC
CTGCAACTCTGGGTTGAGCCTGAGAGTCTGTGCTTCTAGTAAGTTCTCAGGTGATGCTTATGCTGCTTCTCCCAAATTTTGAGAACCATTGATT
GAAAATGTTGATCAAAAATTATGTGGTCTAGGCTGAGCACAGTGGCTCACAACTGTAATCTCAACACTTTGGGAGGCCAAGTCAGGTGGATCAC
TGAGCTCAGGAGTTCGAGAGCAGCCTGGTCAACATGACAAGACCCATCTCTACAAAAAACACCAAAAAAAAATGGCTGGATGTGGTGGTGCACA
CCTGTAGTCACAACTACTGGGGAGGCTGAGGTGGGAGGATCACTTGAGCCCGGGAGACAGCAAGACCCTGTCTCAAAAAAGAAACATTTAGT
CTTGATTGTCATCTATCTCATTGATCATTTTACTTGGCAAAATTTACCTACTTACTCTTATTAGTCTGTAAAAATGGTTATTAAAATGGTGGCT
TTCAGTGTAACTACAAATTCTCTTAGTCATTATAGTGTTGGATTCACCAATGTATCATCAGTCAGTGTTTCTGAAGTGTGTAANNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
ACATTCATAAACTATCCCAATTAACCCTTCAGCAAGTGGAAGAAGTGTAAGAAAGGATACCTCTTCTTTAGAACACAGGGTTTGTTTTTTATGTT
ATTTAAGATAAACAGGAATTCAAATGGTCATGTACCAAAGCAACACAAAGAACTTCCGGAAATCTGAAAGGGAACTGTGGTCAGAACTCTGAGC
ATTTTTATGTTTACTGAGTTTTGTCCCAAAGTTTATTAATGTTTACATGCCACAAGGAAAGGTAGCATCACAATAAGAGACGTTTTTCAGGCTT
GATAACCACTTATTAGGTATTTTGCCAAACAAGTTCACACATCCTAGAGAGCTGGATTGTGTGACCCAGAACCCACCCTCTAGGGCAAGGTGCC
CATCTGATGGGTAGGGTGTAGGAGTAGGCCTCAGACCACTCCTGACGTGAACCTGCTTAAAGTGAGGGCCCAATTCTAAAGTGGGAACTATGTA
AATACCTTTCTAGTGCATTTTCAGATAATCGCCACTGGGCCTATGGATGGAGAGGGCTGGCAGATCTCCCTGTAACCCCAGGTGCATCCCGAGG
CCTGCCACCGAAGCCCACTCAAGGCTGAATGCACGGCGAGCTCAGGCTGCTCTCCCCTTGGTATTTGCTAAGAACTTCTGTTTAGTAGCTCTCC
ACACCTATTTGATTGTCTTTTTGCTGCTGTGTTGTTTTGTTGAGTTTTTTTTTTTGCAATGACACTGAGTGGCCTCCTGTATTGTTTCTTTCAGC
CAGTAATGTTAAAGTAGAGACTCAGAGTGATGAAGAGAATGGGCGTGCCTGTGAAATGAATGGGGAAGAATGTGCGGAGGATTTACGAATGCTT

GATGCCTCGGGAGAGAAAATGAATGGCTCCCACAGGGACCAAGGCAGCTCGGCTTTGTCGGGAGTTGGAGGCATTCGACTTCCTAACGGAAAAC
TAAAGTGTGATATCTGTGGGATCATTTGCATCGGGCCCAATGTGCTCATGGTTCACAAAAGAAGCCACACTGGTAAGGCCTGGCTCAGTTTTTC
CTTTAGTGGCCTGGAGAAGGTGCATGGGGTTTGAAGGAGGAAAGCATCCTGTCTTCCTTGTGTTCTGAGCATGTTTCTAATTGACTGGTAGCTC
AGTTGTTGCAAGCGATTGGTTCCAAGTGGTACCGAGTCATAGAGTCCTTGTTCTGGTACAGCCTTGTAAAGGACTTCTCAACACGTACCAATTC
CACCCTATAAATAAAACAAGGGAAAAGTGAACAGCATCACATGAGAGGCTTGGCGAGGGCTGCTATTATAGTAACACATACTAAGTAGTCTCAG
CTGAGCCCTCAGGGTACGTGTGCTGAGTGGTCACCCTCCACAAAACAAAAAATCCTGATACACCAAAACTTACTCCTCAAAGTTTCCACTGAGA
AACCATGAGTAAAATGTGTGTTTAAATTGTATCCAAACTAACAGGGTTTGATGTTTAGAAACAATAATCAATGATGGAATAGCAGCAAAATCGA
GTTTTCAGAAAGACCTCAGATGAGCTTTCAAATGGCTTGCCCTCTAACAGGAAAGACTTTGAATCAGATGCTTCTATTGCCACTGGTTATCAGC
TCAAATTCCTAAAGAACTTCATCCCAAATACCCTGTCTTGCTGAAAGGTTTACTGGAAGTATAAGAGAATGTCATGTTCTGTGTCCAGAAAGGA
AGGAACACGGGCACCCTAGTGTCAGCGAGTTGTGCTCAGGCTCACAGGATGCCCCCTCACCAGAGGCGTGGGAACACGGCGAGCCCCAGCTGGC
CGCGCTCTGCCACTGTTTCTAATAGCCGGTCACGTTGATGGAAGTGTCACAGAGTTGTCCAACAGAACTGTCCAGTCAGAAAACCACCACTCAT
GGTGCTGGAGTGTCTTAGAAGTAAAATATGAATAACACACACTTATTTAACTGTAGGCAGGAGGTTTCTTATGAATTGAAGAGAAACTTTTCTT
TGCGTGGGAAGCTGTTCTAAAGTTGGGTAAAACACAATAGATCCACCACCTCTAGCAGCCACTGATAGCTGAAACGTGAAACATAGAGACCCTA
AGCTATCACTGCCTCTGAGCTGGCATTGTTAGGTCATCATAAAGCTAGCGTCTCCCACTGCAAAACCCAAGAGGAAAAAAATAGTTGAAAATCC
TATTTTAAAGGCCTAGCAGATTCTATAAGATACCTTGGGAAAATGATGACGATGACTTGAAATCAGACCCTCGTATGCTGCTTCCGTGGGGGCG
AACAAAAATATGTTCATCAAAAATTAAGCAGAAATGCAGAAAATTTTGTGAGCCAAAAAAGCTGTGTTATCAGGAAATGCAGATATTTGTGGGG
TTGTAATTTTTTATATTTGAATCGGGCGGTTTTCAAAATGATCTATTCCATTTGTAGTGTATCTGAAAACCTATAAAAATAAGTTGATATCAAT
AGATATCCATCTTCCATAAAAATTCAACTTCTAAAATTAAGCAAACTTTGCTTTTTCTAATGGCCCCTTTATCCTCAAATTACCCACTGAAATA
GACGGATCACACTCAGCCCTAAGTGAAGCAAGCGTGCATGAGAGTAGTCCCAGCCTCGCCTTTGTAATGAGGTGGAAATTAACATGAAGGTAGG
CTACCCTGTGATAGACACTTAACAGGATACTCGGGGACCCATGGTAATACATCCCTGATAAGGAATAGACCTCACAAATGAACTACTTGCCTGT
TAATTCATTTAAAGCCTGACTGTACAGTGAAAATTCTCTTAAATAAATATTTGATAAGTGAATCAAATTCTGGCTTACTAAATTGCCAAAATAT
AATGACTGCCTGCCTTGATAAAAAGAAATTAATTACATTTAATGAATAAACCTGCCAAGTACAGATATGCCAGGTGGCACCTGCTGTTTGCTGCTC
ACTTCTCCCAACAAATAGCAGCTAGGTGCCACCTGCACACCAATAAGCTGAGTTTTTCACTTACGGAACAAATAACTTTCAGAAGTCAATTTTA
TAGTTTCTGCCTTGCCCTTTGTTAAAAAAATACACACACTTGAAGCAATGAACTCATGAATTGTTTTCATCATGCATTTCCACTTGCCTAAATA
TAAAGGGTCCCAGGTAGATACAGAAATACCTGGTTTGGCCAAACTTGGTTTGAATAACTAGACATGCTAGAAAAGGTTTTCATTTTCCTGGGAT
CTGAGTGGAATATGTTAGAAAAGGCATGCTTTCTGAATTCTCTATGCTTAAAACATTTCTAGAGCAGTGCTTCTCAAACTTGAAAGAGCATGTA
AATCACCTGAGATCTCGTGAACATACAACTCTGCTTCAGACCTGGGGGGAGGCAGGAGAGCAAGCATTCCTAACAAGCTCCCAGCTTGTGGAGC
ACAGAGCCGCCTCAGGCAGCAGGGCAGTGCAGCTGAGCAGTGACAGTGAACAGGGCCATTCAGAGGGCTCTCCACCTGGGGCTTAGGTACGACG
GGAATCCCCACTGGACAGGCTAGGACTTGCACTGTGGCCATTGTTCCTCCTCCTGCCCATGGCTGAGTCAGCTTCTCAGTCCCTTCCAGGATAC
ACTGAGAGGATTCAGGGGCGGTCTCGCCTCTGCCCATATCCCCACGTTGGTGAAGTACCACTGGCGCCATTTTCTAATCAGCTCATCGGCACCA
GCACGTCACTTCCCCTGTTGTGCAGCTCAGTTTTATATTTCTGACTCGGGTGTAATAGTAACATCTTCCCCACCAATGTCTCAGGGTTATTGTG
AGAACCAGAGAGGAGAGAGGTAGGAAGGAAGCAGGAAATGCAGGGTGCAAATACACCACATTTATTATTCTAAATAATGGGATTTTTAATAACAA
AGACCAAGAAGATTGTCTGTGCCTATCTAGTTCCCATCTGTAAGATAAAAAGGTGCAGTCCCTGAGCCTCCTAAAAACAGCACCCTAATGGCAC
TGCTCCTCCCAGGTATGATTGCAGTAGACCTACGTCAGTTCTTGCAGTTCAAACACATTTTTTCACTTTCTTCTGAAATGCCCTCAAATTCTAT
GACATAGTATCCATGAAGACTTCCCTTTTTACCCAGTGAAGTTACTAGAGGGGGTTCAAACCTTCTTACAGAGGGTTCCTAAAATGGGAGATCT
GTGGAGTCATTGGGATTAAAAATTAAATTTCAAATTCATGACATCAATGTCCTCATCCCAGTTAAATAAAAGTAAATACAACCTTGAAGAAATT
TGACCTACTCAGCTGCAATAGCTGTTGACCTGCAGAAGGCAAATGATGGACCCCGGCCACGCAAGAACACACATGGCGTGGGCTGCGTTCTTGT
GCCCCAGCTCCATGGACGTGTCTTCTTAGCTGTGGACCCCTCCAAAGGAAACTGCTTGAGTGGAGTGCTCTGTATTGTCACTCCTGGGAATGCT
CTCTTAACACCCCCATGCCTTGTGCTATGTGTTCATACCAGCATAGGCACTCAGAAGCAAAAAAGGTTTCCAGTGAAATTTGTTTGCAGGCAGG
TATTAAGACATCAGACACTGCAGGATCCAAGTGAACCCCTGCCCGCCTGCCTGCCTGCCCTGCTCTGCTCTGCAGAAGGGCATGTGTCTGTAGC
AATCTGCCCTTTCTGTCTGCGATGGGCAGAGACCCTGGCTCTGCCTCCTGTTTTCCCTGTAGCCCTCCAGACCTGGGGAGAGACATGGGACTCC
AGCACCTGCCCAGCACGGAAGGGGGTCTTTCCCAGGTGTAAGTGTAGGGCTGCATTCACTAATTTAGGGTCATACCACAAACACTGTTGTGTCA
CCAGGATGTTGTCACATGCTTATTGTGAGCATTTTTGTGACATGAGCTTTCTCCTGAGAGGCCACCCTGTCCAAATGAGAGCTGTAGTTGGAGG
CACATCCGTCTCATGCTGCCTGGGTCTCCCTGCACCAGCTCACTCTACTTTTCCTTTTTATCCACTTGGAGTTAAATGCACACATTTATGCACA
AGTGCACAGAAGGCCCAGAACTGTTCCTAATAGATAATTAAATGATCTCTCTCCAGTGGAAACTCTCCTGGGCTACCTGGCTGCTAGCTGTTTT
AGCCTCTTCATCCAGTATTGATTTACATGCATCGGTTTGTAACTCAGACAGTATAGTTAGTTAGTTTGTTTCACCATCACCTTCCAACCTGCTT
ACGTTTAAACTCCTTCTCTCTGCTTAGCTAATACAGATTTCTGTAAGGATTTGGAGAAATACCAGATACCTCCTGGTTAGTATCAGGACCTCTC
CATTGGCCTATAATTGAACATCACTGTAAATTAGTTTCAGCTTTTATAGTAATGCATCTAACCCGCCAGCTTAAAAAAAAAGTGATGATAATCA
TGAAATTCAAGTGTCAATATAGACTTTTAAATCTGGTGTGGATGTTAATAGTGCCAGATATGCTTCTGTGTAATCATTTTTGAGAAGTGCTGTC
TTCTTTACCATAATCACATTAATCAATCGGGAAATGGTTAAATAGACATTTTAATACATTGTTTTTTCCTGAGAAAAAAAGTGACTCCAGGAAA
TATGTTGTTACAATATCTCAACACCAGGAATTGTGGTCACATAGCATTCTTCTTCTAAATAAAGCATTTGTTTTACAAAAGAGTTTCATGTTTA
CTTAAACGTGACAAATGTATCACTCTTCGAAGTGAGAGTTAAATGAAATGTTCCCTGATTTAGATTCCAAGACCTGTGACTACTCAGTAGGACA
ATAGCATATTTCTTTTACTCAGATACCTGTTTATCCCTTTGTCAGCTCCAGAATGGAGACACAGGTGCTGCCACACAGAGGAGAGGGTCAGGTG
TTTTCTTAGTCACAAATGCAGCAGTCTCACCCCTGAAAGAATTCCTTCATAACAACTAAATTGCACCTCTTAGAATACCTGTACTTAAAATATA
ATTTGTCTTCTATGGATATAGACAAATAATAGCTTAAATGTTTTAGGATTTGTAAAGAAAGAAAAAGCTAGAAATCTCAATGCAACTCTGACTT
GTATGTCCTGCCATAGGAAGGTTTGGGACTTTTCTTTGGAAGATGGGAGGCTTCCTTCACAGTTTCTTAACTTCTCATTTTATTCAATCTTTCT
CCATCTCTCTCTCTTTCTCTCATCCTCACGCTCTCTGTCTGTCTCTCTCCTGATTTGTCTGCTTAGGGACAGACAGGTAATGGAGAAGAAAT
TGAAAGGGAAAATACAGGGAAAATGTAAATGAAAAGAAGTTATTATAACTGTTATAATGAAGTGCCTTTCATTTAAATATAAGAATGTAACGCT
GAAATGAACTTGTGATCCTGAAATGCATTTTTAATGAGTTTCCTTTTTATTTTGCTGCTTCAGTGGCATATTTTAAAGACCCTTTGAAAAAAGC
CACATTAAAAAACCCCACCAAATGCCACAACACGCAAAATTGGATATTGGTTTATTCCAAAACTGCTGATCAGGAAGAGTGGCTCTTCATCACA
AAATGTTGCAGTCACTTTATTTAAATGAGTTTGAATTTGCATTGTGATGTGCCATTCTGATTTAGGGAAAAAAAATTAGATTTTCAGATCAAAT
TGACCCAGCCAGTGAAGCGTTAAGGAGCTGGCAGGTTTAGTCTGAAAGCCTCATGTTCTATCAAACCTGCAGCCGGTGGAAGTCACCAGGCCCC
CGTGGGAAACAACTTTCTCGTAGCATCGTCCTCATGTCCCCACGCTGAGTTTAGTTCTCACCAGCTCTCCTCTCTCCGTCCCAGGAGAACGGCC
CTTCCAGTGCAATCAGTGCGGGGCCTCATTCACCCAGAAGGGCAACCTGCTCCGGCACATCAAGCTGCATTCCGGGGAGAAGCCCTTCAAATGC
CACCTCTGCAACTACGCCTGCCGCCGGAGGGACGCCCTCACTGGCCACCTGAGGACGCACTCCGGTAGGTCCCCTGGATGCAGTCCGGGGCTGT
CTGGGTGTCCCGGGATTCCTCCACTCTGCCCGCCTGGGTCCCGGATTGTGTCCTTGCTGGCTAACCCTGAGTCCCTCCCAGCTCGCAGTCCTGC
ATCGGGTGTGAGCTGTTGCTTCTTTGACATTGCCCCATCCCCCCTCCCCATATTCTCCTTTTCCCACTGCACCAGGGAGATTGGGCGCAGGACC
CCCATGCACATACACACACAGAAGTCTCACCTTAGGTAGCATGTTTCAGAACAGGCCTCCTCATCCCGTTTGTCAGGCTGGTATGGTTTCCCTA
AAGGATTTTGCGGGAAATGTTTTCACCAAGTGTACTGCTAAGACCCAAAACGTTTTCAAGTACAATTCTTTCTGTTGTTAAGTCCCGCTTTGGA
GTGTTTTACACAGGTGTAATGGATAGCTTTTTTGCAGAGCTGGTAGAGAAGGGTGATTTAGGGCGCACCCACCCAGACTGAGCCCCGTGTGGCT
CTCACACCAAAAACCAGCCAAGGCCACAGTTACAGAGGCCAGTCTGGGGCTGTTACCAGATTTTAGACAGCAGCCTTTCTCTTTGAATTAGACA
GTTAAAGTACAACCCACATAATCTGGAGTCTTGACAAGATCATCATAGGCATAAACGCTCTATCATTCTCAAAACAGTCTCAGCCTGCAAAGTT
CAAATCCACTAAAGTTTGGTTAGATCCTCTGCCTCCTGAGAAATGGTCCTGGGTGTTTCATTATCCAGCAGTCCCATAATTCTACAGGGCAGAG

GAAGAGAGGGCTCTTGGCCGGCCTGTCATGGATCATGTTTGCCTACAGTGTGGTCTATACAACATGACATGGCACAGGTCTCCTTCATACCGTC
CAGTTGGGGATATTTGCTGTAGCATACTGCATGAGACTTCGGAGGCGAAAGGTTGATGGCTTTTGTCCTTCCCCTCAAGGAGCTTCCTGCCCCA
GCCAGCCACCAGCCAGGGCCCTTCTCCAAGCAGCAGCCTCTCTAAGCCGGTGCCCTGGGGGATGGCAATGCCTCAGACCAGCTACTCCTCACCC
ACCCTGGGTAGCAGGATAAGGAGGAGCCTCCCTCAGGGAGGCAGACGTGTGTTCTTTGTGAAATATCTGCAGCGGCCCAGGCCATCTCTTCCCA
AATGTGATGCGTGTATTTGATGGTTGAGGGTTTTAGAGGCTGCTCATTGTGTCCATCTCTTTATCACACATTTACTGAGCACCCCTGGGTGCCC
ATTCTGCACAGAAGACCTCAGGTGCACACAAGGAAAGCACCAATGTGTTACAGGAGGCATGACAGAGTGTCTGAGGGGACAGTGGGAGCATAAG
GAAGGGGACAGTGGGTCCTGGGGTGGAAAGTCAGGAGAGACTTCCCATAGAAGGGAGGGGCTTCTGAAGTACATGCTGGAAGGCGAGTGTCTGA
GGTTTGCTTTAGAGACATTCTAAACTAGTGTGTGAGTCGGCAGTAATCCCAGAGAGGGGTGCGGCACCCATGTTGGCAAGAACTCGGTCTCACT
CCTGGCAGGTGGTCCCTGCAGTAGTTCACCCAGTTGGCTGGAGACAAAAAGGAGAGGAGTCACAGGGGCTGGTGCATCACCTCCTCTCCATCCT
GACCTCCTTCCTGGCGGTGCACATGGAGAAGGATCCCCACATGCTCGCCATCAGAAAATTGTCATGATTTGGGTGATTTGACTTCCTAAAAACT
TCCAAGAAAGGAGCTATACCAAGCTGAGGAGTTGCTTGCCCGAGAGGGCGGGCAGATCAGCAGGGGGGCCATGGAGTGGGACACTTGCCTTGTT
ACAGAGGGACAGGGAGAACAGGTGGTTCCCCTGAGATAGGAAGACAGTAGCATGACGGTGAGCATCTTTAAATGTTCACATGGGTGATGAGCAT
GTATGGTGGTCCCACCTGGAGACAAAGGTGGTACCTGGGCCTGATAAGCAAGGCCCATGGAGGCCTCAGCTAAGAGAACTGTGCAGTCTGTCTG
CCATGCTAACCAGTGGTCTAGGAAGAAGCTTCACATCTGTTGTTTCTAAGGAGCCATGTAGACATAGACACAGTTGGCAGCAATATTGCCTTGG
GTTAGTGGGAAGCACCACTTCCCATGTCAGTGGAAAACACAGACACTCATTCTTAGGTTGACACCAACCATAGGTCATCATCACTCCTAGATTA
CTCTGATTGCAATGGAATCTCTCATGCCCATCAGTCCTTAAAAGCAGAGCTGCTCTCTTTCCTTTCTTGTTGTGGAGTTAGGAACATGTAGTGG
AGTATTTTATGTTATTCTGGCTCCAGGCCTATGTATTTCATTTGAGGCATGATGGTTTCCTATTCTAAGTACCACTAAGTATTGAGTAGTTATA
AAATGGTGGTAGACTTTGGACTGTGTATTTCTATTCTGGATCCACGGATGAGCAAGTGGAGAAAACCCATCATGGATGCAGGGCTGCTGGGGAT
CTGTCTGTCCGAAAATGCTATAGAGACACACACTGCTCTTGGGGAAAAAAACAGTGATGATTTCTTCAAAATGATTTCACTGAAGTGAAATAAG
GACTTTGGCCTTGCTCTGGCAAATTCAAATGTGGCCACACTCTACTCCATTGTGGAATGGTGACTCCCCTGTCCCATGAAAAACCAGGATCAAC
ATCACAGCTTTCTCTAGCAACTGGTGGTGGCCTGAGGTCTTATGAACTAGCATGTTAGCAGGGATAGAGTTAGGGAATTTGTCCGATGCTGACA
GCAAGAGGGTGCTGGGGGAGCTGGAGGGGTGGAGAAGTGATCTCCCTTCCTGCCTCATGGCTTCCTTTGGAAGTTGCAAGCTTAGAATTTCTTT
CCCAAAGAATATTGGACTATGCTTCAAGAGACACTTGAGTTCAGTTGCTTACAGTGAACATACTTCTTATGTTCCAGAGTTAAACTCAATCATA
TTTTCAGAAAAATAGATATTCAGACATCATGTCATATTTACAGGAAGCTATTTGATCATGGAATTTACTGAAGTGACAGCTTTTTCAGGAAAGG
GTATCGAGTGGTTATCTATATCCTATTAATTTCTAAAAGCAATGCTCAATAAAATGTGCAATTTTAGGCAATATTCTGTGTTTCAACATTATTT
CCTTATGTTGGGGGTACATCACTTTATATAGATAAAGAAAGATCCTTTTCATTCTCTATTAAATGGTCGAGAAGTCAAATTTTGGCTTTCATGT
TGGTCTTCTTACTGTAGCTTCTGTTCACCTAAGAAAGAGATTTAACCAACATAAGCTTTGGCTAAACCATTGTACCAAACATTTCTATTTGGAT
GCTCTTAACTTTTATACAATACTTTGAAATGTGTTCAATAAAACAACATGAGAAAGAAGTAGAAGATTCTGCTATTAGGTTGGAAATTGATATT
CCTTACATAAGTGATTAAAGATACTTTATTCAGTTTATCCCTTAAAATGGTATCTACTGAAGTCCTTAAACTTAGGCATGATATTAATTCCTGG
CTAGTCTTTCTTTTTCCTAAAATATCACTCAATAAAATCCAAGAAGGACTAAAACTCATTATATAGAACTGCACTGCCCAATACAGCAGCCACT
AGCCACATGCAGTATTTTTAATTATAATAAGTTAAAATTAAACAAAATTAAAACTTCAGCCCTCAGTGGCACTAGCCACACTTTTTGTGTCCAA
CAGCTACATATGGCTGGTGGCTGCCATATTGGACAGCACTAATAGAGAGCATTTCTATCATCATAGGAAGTTCTGTTGAACAAGGCTGATCTGG
AAGCTACACCATCCTAAAGCTCTTTGGCAAGAAAGCAGAGCTTTTCCATAAGCTCGGTTTATGAACAATATATTTTGTATTTTCTATGTATATG
TATATGAGAATACGTATACATAGAAATATATGAAAATACATATACATATAAATATACATATACATAAAATAGAAATACATATACATAGAAAATA
CAAAATATTTTGTATTACATATACATATGCATGGAAATACAAAATATTTTGTATTATATAATGCAAATATAAGATATATTTATATTATGTAAGA
AAATACATTTGTGCAATAAAACGCTTATTTCATTCAAGCATATTTGTCCAGCATGGTTTCTTAGAGACTGAAGTTACCCAGTTTAGCACCTGGA
ACTGAATTCACTCTGGCTGTGTTAGATGTAGCACCAGCGTCATGACAGATCCAGCCCACAGCATAGACTGAGGCCTACTCTGGAGGCAAATCTG
CAGACAATGTGGCCAACACATGGGCCTTCCTCACATCTCTGTCCAGTCGCTGGCATCCACGTTATAACACAGCAGTGGCTCGTTTTCTCCAGTT
AAAGGCTAGGCTTCCGTGATTGAAGCAGGAGAGAATTTGGTAGTCAGTAAAGTAGACAAACTAAGACAAAACAAGAGTCGCATGAGTTCTTGGT
ACAATTAAAGAAACCCTTGGCCACCAACGTTTTTAAATTCAGGAATTTCACCAAGTCCGTAACAGTTTTAGCTCTCAAGGGTAGAATTTTTTTT
TTAACTTTTTTGGTAATAATTGTATTGCATGCATTCCCCTTACACAGAAGGCTGGCATTTAATTGGGGTCTTGAACTCAATTGTGTTTTCTGCA
GTTGGTAAACCTCACAAATGTGGATATTGTGGCCGAAGCTATAAACAGCGAAGCTCTTTAGAGGAACATAAAGAGCGCTGCCACAACTACTTGG
AAAGCATGGGCCTTCCGGGCACACTGTACCCAGGTAAGCGCTGCTGCTCGGAGGCCAGCCTGGTGGGCTCTCCCCCCAGCACGGTGGGGAAGGA
GGGCGCTCTGCATGCAGCCTTAGGAGCAGAGCCTTGGGCCTGCTTCCTGCCGGGGCTAGGAGGGAGGGAAGTTTTTGGCCAATAGCATCAGTTT
CACCAGAAGCACGTTGTGCTTCCCAGCTTTCTAGGTCCTCATCTGACCAGAGAGAGCTTGATTTTAAAACCCTTCCCACTTCCAATCGGGAGAA
ACTCCTAGGATAGCAGTGACCTTGAAAGTTTTGGGGTTGTTTTTTGGATGTTGGTGATTTTAAAACAACAACAAAAAAAACACCTCAAGTAGTG
ATATTTCTTTGTAAACAAAATAAAATGTAAAATATTGTTTTGAAACAATTTTTTAACAAAGTTGATCAAATAAGAACTTTCAGGCTGTGATTTT
AAGCATCAGTTCAGACTGAGGGCAGGGTATCCACTCCTGCATGGAGTGTGAGGTTGAAGTTTGTTGGAAGCCCCTGGTAGTTGATAATATTGAG
GTTGTTGAAGGATGAGAGGAAAGGTCGCTTCTTTCTTAGGAGCTGTGATGCTCCACTGTATTGCATAACGAGATAGCACTTGATTCAGACCCCA
GAGCCTGTAGAATAAATGATGTGGAGAGAGTATTGAAAAAGGCTGGATTTATCTGGGGGAATGGCAATGTTATAAAAGGTTCTTCCCTAATTTT
TTAAGAGATAAGCAATTTATAAAGAGATCAAATAAAACTAATCTCTTTCAAAACAGTATTCATTTAGCACTACCCCTGGAAAAATCATCACTAG
ACTGTGAGTCGAAATTTAACGAATGGAGGAAAATTTATTAAGCCTCATTCACCTTTCGGACTTTAACAAATGGTTCAAAAGGGAAAATTCACCA
GAGTACCCTCAGATTATTAATGGCAGATGAGAGCAGGAAAAAAGAATGTTGAGAATGGCTAAAAATTGATTCCAATTAGTCTTGGCATGGAGAG
GCAACATCTCACCTGGCCAGAGCCCTGCAGCCAGAGTGCTGTCTCCTCTGCCAGTCAGCCAGGGATCTGGGGCTTACAGGCGATTCCTCCAGGC
CTCAATCTTCTCACCTGTGAAATGGGAAGATACCATTAAATTGTCATTTGGCTTCTTTCAAAATCTCAGGTCTAGAATGGAAAGGCATTGAAGG
TGAGTGGAAGAGAAGAAACTGGATGTTAAAATAATAATAATGTAACAGTTATTAATTCACATGGCCAGACCCCAGGGCAGAAGACTAATGGACG
AGAGGATGATTATGTTCCTTTGAAATAAAATGTCAACATTCAAATATTGTTTTTTTCTGTAAAAAATAAGTGAATGGGTCTTGGAAGGAAGTGC
TCCTAATGATGTAGTTTACATATTAATGCTTAATAAACCATTTTATTTACTCAACAAATATTCACTGAGGACTTATAATCAATAATACCAAGCC
CTATTGAATACAGTAATCTAATATACACATAGAATTGAAAAGACAAAATGAACAAAAGAAACAGACAGTATATCATTTCTGTTTCCTCCACTGT
TTTCATTACTAAAGAAACAAGCTGCAGTACACAGCCGGCTGAGAGCTGCTTCCGGGGGAGCAGGAGAAGCAGCACTCATTTCACTGAGACCTGG
GTTTGAGTTCTCTGTTTTTGAATGTGACCCAGAGCTCATCGCTTAAATGCGACTGATAATTCGTGCCTGGCCACCCTCATAGCAGCGCTCTGAA
AGAAACATAAAGGAGTGGATACACGTGTGAGCAGGAGCCTAGACATGTGTCAGGTACTTACCTAAACATGGATGTTTAGGTCACTGACATACTG
ACACCATCAAGCTAATTCTTCTCTATTGGTCTCTATGTCAGTAAGGCTACGTGCCAGTAATGTGTATTAAAATATTACCCTGTGGTGAGTATCAA
TTTCACCCTAAAATGTTCATTTATTCCCTTTGGTGGTTAAGTTACTTGGACTACCACAGTGATGCCTCTATGTCCCCACACTCAGGAGGTATGA
AAGCGTCTCTAGGAAGGAGCAGTGGTCTGGTCTCAGTGTGGCAGCAGACAAAGCCAGGCTCGCACTTAATTACATTGAATTATTTCTGTCTGGT
ATGGCCTCAAAAGGTGCAAAATGATCATAAATATCTTTCGACAGTCACCTTTGGTTTTGCCCTTGCCAGCACCTGGCCCTTGTAGGTGCTGCT
GGTTTAAGGAACTTGGAGTATTAAGGGGATCCATAAAAGGACTTTGACAGAAGTCTTCCTGAACTGTGCTTAGGGCCAGGAAGGCAGGCAGGGG
CTTGGTCATTTCAGCTGTGCTGTACCCGGATGAGTGGAAACTGTGCCTTCTGATGCATCTCTCCTCCTCTGTTCCCCTCTAAGAACCCCTTGTC
TGTGCTCAGATGGATGAGCAAGTAGTCTCTTCTCCCACCCCAAAAACCTCCTTAGATTGGGTGGATTCAGTAAAATCAAAGCCTCAGTTAGGCA
ATATAGGAAAAGATGAATTTTTGTGAATATAATTTTCTTTAGTAAAAGGCTTTTGGTCACCTCTTATAATTTCTCAATGTCTTTATGGAAAAAA
TAAGTTTCTCTTGAGCCTTTGGTGCACAAACAGAGTCACCAGCCCTTGGAGGTGCATGCATCTAATGACAGAGCAGCCTGTGACTCGCGAGCAT
CAGGCTCACTTGTTCCTTGCTGTGATTGTCTCTGGGGGGTGGAGGCTTTTGGGAGGCCCTGCGCCATGGTGCAGAGGAAGACCCCTGACCTCTG
GGAGCCCTGGGCAGGCTGTGGGTGTGGCTTGGCAGAGAAGGATGGACATGTCAGGAAGCATATTAGCTTAATAGATGAAGTGTGTGACCAGTGT

AATTGGGTTTTATGGATTTATATTTATCTTGCATATAAATCAGGGTGTGGCCTATATATGTTTGCCCATTTAATAAAAAACACATATTCCAAAT
GTTAAAACATAAAATATACCAGCAACAATAGCCAATTTGAAATATATGTTTTCAAAGTAACATTCATAATAGCAATGAAGACATAAATACTTAG
AAATGAAGAAAACCAGCAAGCCATAGTGAGGCAAGAAAGAAAACATGGGAGATTGGAGAGGTAGAGAGGTCTGGATGCCGTCCATGGGCCTCTG
CCCAAATTAGTGTATCATTTCAACATAAAACTGGCTTGTAAATTTTACTGGAATCTGGTAACCATGTATCATAAAGTATCTGGATATATACATG
AGATAATTGGCAACTTTTTAAAAGAAGAATAATGTCAAGTGATGTATGAAAATGTAGCTGAAATGGATGGAACTCTTTGAAGAATAGACAAACA
AATCAATAATAGAGATGGATACCCTACTGAAGACCCCATGATAAATCAGCATGAAATATCCGAGGCAGGAGGAAGCATAAGGCAGGAACGGTAT
TGGAAGAATTGATCAGGCATTTAAGATAATCAGTTTACATTATCATCTCCTTATACACTAGGATAAATTGCCGGGAAATGAAAGAGTTATATTT
TTATAACTCCAACCACAATAACTGATGTAAATATAGATCCAGCTATGCAGGATACAAAGTTGTATCTTCAATTATGGAAAGAGATGACATAGAA
CAATTGAGAATGACTAGAAATGGCCCACACATCAGCATTTACCTCCATAATTTCTAAATTTTCTACAGCAGTCAGGGGTGCTTTGATTTTCAGG
AGTTTGTTGTATGCTCAGGGATAAGGGGCTCTGGGTTTTTCCTCCACATTGCCCAGATCTGCTGTAGGCTCTTGGGGGCCACATTTTTGTATCT
CCGTTCACTGTGCTGGTCCATGAAGTCAGATGTTAGATCACACAGTTCTTTGCGTCTCAGAGGGCTGCTGTTAGGGACTGACTGAGGTAGCAGA
TTTGGGAGTATTATGAAAAGTTAAAAGGACTTGTCAAAGGGACATCAATACTTAATCCCAGTCCAGCCTCTGGTGATGGTGGTGGTGCCTGTGC
ATTTGGACTTAAAGAGGATGATGTGTGGTGAGCAGCTGTTGGAGGAAGAAGCATTTGCAGGTGGCTGGTCATTGGCATTGCTCCGGCTGCCTCT
GCCTGTCTGGAAGTGTTGCTGGGAAGATTAGAATTAATCTCTAGGAAGGGCCTGGCTCTTGTAGGCACTTAACAAATGTCAGATTTAACATTGG
ACGCGACTGAACCCTTTAAACATAAGCCTTTCTAAACTGGCCTCTCTGTCTTTGACTTTAGTCATTAAAGAAGAAACTAATCACAGTGAAATGG
CAGAAGACCTGTGCAAGATAGGATCAGAGAGATCTCTCGTGCTGGACAGACTAGCAAGTAACGTCGCCAAACGTAAGAGCTCTATGCCTCAGAA
ATTTCTTGGTAAGAGTTAAATGTTTGCTGTCTCTTAAAAAAAAACTATGTGGGTGTTTTAGATGCAAGTAGAAATGAGTTGAGGGTGGAAGAAA
GGGAAAAAAATCTTATTTTTTCAAAAGGAAAAATTGGTAAGCTTAACATTCCTTAAATATCTTAGAATTTTTTCCAATAAGTATCTTAAAAATA
ACAAACCTCCCATCAGTTTTTCCTAGATTTGATTTTGCAGCATCTGGGGCCTGCCCTGTGATCTGCCTGTGGACATCGCTCTTAGGGGCGGCTG
CACCAGCGTGCACAGGGTGGAGAGTTTGGGCCTGGCTCGTCCGGGGGACACCACACTGCAGGACACTCCAGGCCTGGCCGGCTTCTCAGAGCTT
CAGATCCTCATTTTTCATATGAAGCTCCTAATGCTCCCCTTATGGGGGACTCTGAAGGGTTAATGGGAGGAATCATACAGTGACTGACCCCTGA
GAAGTGTCCAGTGAAGACAGGGCTTAGCTAGGATTGCTGTTTTGCCTAATGCTCTGCGGGATTAAAAAAAAAAAAGAAGAAGAACAAGCACTT
CGTCTCTCTAGGAGCATTGCCCAGAGTAGGTATTAGACACACCAACACCACCATCCAGCCAGACGCTGCAGGGACAGTGAGCCAGGGTCCGAGT
GGAAAGGCGCTAGGCTTGGGAACCAGCTCAGAGTCAATACAGAGCCACCGCCACTCACCAACTCTGTCAGCTTAGTAAAATGGCTCTGCCCCTA
GAGCCCTGGTTCCATCCTTTAGTATCTCACAGGGTGATTGTGAATATCCCATGACTCCAAGATTGAGAAAACGTTTAGAATCCCTCGGTGTGAA
GGTTAACTCTGTCCGGAAAGAGGACCAGTAAAAGCTTCATGAGGCTGAGATGCACTTTGGAAGAGGAATAGAGTTTCAGCACATTCTAGGTGTT
GGAGGAATGGGGGAATCTAGGCAGATGTTTAAAATCAATGAGAAACCAGAATGCTGACCATGAGGGTTGGAGTGGGGGCCTAAGGACATGACGG
AGGAGCAGGGTGTGTTCCCAGCTTAACTCAGGTACCCATGGGGAAGCAGGAAAAGTGAAGGTGTCCTAGGCAGCTCTGCCACAGGATGAATGGC
TTCAGATGCCAGGTGAGCGAGGGACCCTTCATTCAGTCAGCAGGAAAGAAGCACTGGCATATTTTTTATGAGAACAAAGGCTAGGATAGTAAAG
ACAGCAAGTACCAAAAAATGACTGGAAAAGGGAGACTGTGGAGGCAGTGGCAGCAGGCATGGAAAGAAGGGCTTGTGAAGGGGAAGGGGTGGTG
TCAGAGGAACATAGGGCTGGGGGCAGGGATTAGGTGAGGGAAACCATGAGTCACACTGATTCTAGAGTAGTGTGCCCTTGATGAAAAGGATAAC
ACCAGGTTCTAGGAAAAGATGGGGTTCTGTTTTTGACGTGTTGATTTTCAAGGACTTCTGGTGTTTGTGACACATGGGGAAATTGTGGTGGGAG
AGAGGTGGGGCCAGAACAGGGGCTGGTGAGGCCAAGGGTCCCAGAGGGCACCTGTTGACCTGCAGGATGACATGAAGGGGGAAGGACAGAGGCA
AGGCCAAGTCCTGGGCACCAGCCTCCCTCTTGCAGCTTCAAATAGGGCTCCATTTTGACCTTTTGATTAATTAGAGGTTTGTCATAGGTTGGGG
GTTGAGAGGAGCAAGGGAGAGAAGGATTCAGTGTACAAAAAGAATGAAAGCCACTGGCTGAGCCAGTGGGGAGTTGTCCACACACACATGAGCC
TTTGGACCATGAGAACGAGGGAGGCCTTGCCTTCCTGAACGGAGTAGGAGTGAGGTCCTGTGCTGAGCGTAAGCAGTGGGATTCCCACAGCACT
GGGCACAGAGCCCACGGGCTGCCTCCTGAGCAGCCAGCATCTGCCTGGGGTGGACACAGTGACAGAGAGATGGGTGGTGACTGGGGTATGGGCA
GAGATAAGGCAGCAAGTGTGTGCAAGGGGAGTGAAGGGTTACTGACCTTAAGAAGCAGGGATGGCGTCCTCTGTCAGGTGAGGAGCCTGGAGAA
TGCTTTGGTGAATGAACGTTTGCAGCCCCTTTTAGCTTTTGGAGACTTGAAACCAAAGGAGAAATTCATCTGTGAAACTCTACTGGAGCCACTC
CCCAACCCCCACCCTTGTGAGACCACAATGTGGGCGTTGGCTTGAGATGCTTCTGTGTTAGTAGAAGAAATAAACAACACAGTGCTCTGATGAG
GCAAAGCGAAGATGAAAAAGGAGTTCCCAGGGGACATAGTAGGAACAGTGGACGAGGGTAGCAGAAGAGGAGTTTGGAGCAAAAGACTCACAAG
CAGCTGCATAATCTGTTGGTGCTTGGCAGTTCATTTGTAAAAATGATGCCTCTTCC

HUMAN SEQUENCE - mRNA
GAATTCCGGCGTCGCGGACGCATCCCAGTCTGGGCGGGACGCTCGGCCGCGGCGAGGCGGGCAAGCCTGGCAGGGCAGAGGGAGCCCCGGCTCC
GAGGTTGCTCTTCGCCCCCGAGGATCAGTCTTGGCCCCAAAGCGCGACGCACAAATCCACATAACCTGAGGACCATGGATGCTGATGAGGGTCA
AGACATGTCCCAAGTTTCAGGGAAGGAAAGCCCCCCTGTAAGCGATACTCCAGATGAGGGCGATGAGCCCATGCCGATCCCCGAGGACCTCTCC
ACCACCTCGGGAGGACAGCAAAGCTCCAAGAGTGACAGAGTCGTGGCCAGTAATGTTAAAGTAGAGACTCAGAGTGATGAAGAGAATGGGCGTG
CCTGTGAAATGAATGGGGAAGAATGTGCGGAGGATTTACGAATGCTTGATGCCTCGGGAGAGAAAATGAATGGCTCCCACAGGGACCAAGGCAG
CTCGGCTTTGTCGGGAGTTGGAGGCATTCGACTTCCTAACGGAAAACTAAAGTGTGATATCTGTGGGATCATTTGCATCGGGCCCAATGTGCTC
ATGGTTCACAAAAGAAGCCACACTGGAGAACGGCCCTTCCAGTGCAATCAGTGCGGGGCCTCATTCACCCAGAAGGGCAACCTGCTCCGGCACA
TCAAGCTGCATTCCGGGGAGAAGCCCTTCAAATGCCACCTCTGCAACTACGCCTGCCGCCGGAGGGACGCCCTCACTGGCCACCTGAGGACGCA
CTCCGTTGGTAAACCTCACAAATGTGGATATTGTGGCCGAAGCTATAAACAGCGAAGCTCTTTAGAGGAACATAAAGAGCGCTGCCACAACTAC
TTGGAAAGCATGGGCCTTCCGGGCACACTGTACCCAGTCATTAAAGAAGAAACTAATCACAGTGAAATGGCAGAAGACCTGTGCAAGATAGGAT
CAGAGAGATCTCTCGTGCTGGACAGACTAGCAAGTAACGTCGCCAAACGTAAGAGCTCTATGCCTCAGAAATTTCTTGGGGACAAGGGCCTGTC
CGACACGCCCTACGACAGCAGCGCCAGCTACGAGAAGGAGAACGAAATGATGAAGTCCCACGTGATGGACCAAGCCATCAACAACGCCATCAAC
TACCTGGGGGCCGAGTCCCTGCGCCCGCTGGTGCAGACGCCCCGGGCGGTTCCGAGGTGGTCCCGGTCATCAGCCCGATGTACCAGCTGCACA
AGCCGCTCGCGGAGGGCACCCCGCGCTCCAACCACTCGGCCCAGGACAGCGCCGTGGAGAACCTGCTGCTGCTCTCCAAGGCCAAGTTGGTGCC
CTCGGAGCGCGAGGCGTCCCCGAGCAACAGCTGTCAAGACTCCACGGACACCGAGAGCAACAACGAGGAGCAGCGCAGCGGTCTCATCTACCTG
ACCAACCACATCGCCCCGCACGCGCGGCAACGGCTTGTCGCTCAAGGAGGAGCACCGCGCCTACGACCTGCTGCGCGCCGCCTCCGAGAACTCGC
AGGACGCGCTCCGCGTGGTCAGCACCAGCGGGGAGCAGATGAAGGTGTACAAGTGCGAACACTGCCGGGTGCTCTTCCTGGATCACGTCATGTA
CACCATCCACATGGGCTGCCACGGCTTCCGTGATCCTTTTGAGTGCAACATGTGCGGCTACCACAGCCAGGACCGGTACGAGTTCTCGTCGCAC
ATAACGCGAGGGGAGCACCGCTTCCACATGAGCTAAAGCCCTCCCGCGCCCCCACCCCAGACCCCGAGCCACCCCAGGAAAAGCACAAGGACTG
CCGCCTTCTCGCTCCCGCCAGCAGCATAGACTGGACTGGACCAGACAATGTTGTGTTTGGATTTGTAACTGTTTTTTGTTTTTTGTTTGAGTTG
GTTGATTGGGGTTTGATTTGCTTTTGAAAAGATTTTTATTTTTAGAGGCAGGGCTGCATTGGGAGCATCCAGAACTGCTACCTTCCTAGATGTT
TCCCCAGACGCTGGCTGAGATTCCCTCACCTGTCGCTTCCTAGAATCCCCTTCTCCAAACGATTAGTCTAAATTTTCAGAGAGAAATAGATAAA
ACACGCCACAGCCTGGGAAGGAGCGTGCTCTACCCTGTGCTAAGCACGGGGTTCGCGCACCAGGTGTCTTTTTCCAGTCCCCAGAAGCAGAGAG
CACAGCCCCTGCTGTGTGGGTCTGCAGGTGAGCAGACAGGACAGGTGTGCCGCCACCCAAGTGCCAAGACACAGCAGGGCCAACAACCTGTGCC
CAGGCCAGCTTCGAGCTACATGCATCTAGGGCGGAGAGGCTGCACTTGTGAGAGAAAATACTTATTTCAAGTCATATTCTGCGGTAGGAAAATG
ATTGGGTTGGGGAAAGTCGGTGTCTGTCAGACTGCCCTGGGTGGAGGGAGACGCCGGGTTAGAGCCTTTGGGATCGTCCTGGATTCACTGGCTT
GGGGGAGGCTGTTCAGATGGCCTGAGCCTCCCGAGGCTTGCTGCCCCGTAGGAGGAGACTGTCTTCCCGTGGGCATATCTGGGGAGCCCTGTTC
CCCGCTTTTTCACTCCCATACCTTTAATGGCCCCCAAAATCTGTCACTACAATTTAAACACCAGTCCCGAAATTTGGATCTTCTTTCTTTTTGA
ATCTCTCAAACGGCAACATTCCTCAGAAACCAAAGCTTTATTTCAAATCTCTTCCTTCCCTGGCTGGTTCCATCTAGTACCAGAGGCCTCTTTT

SAGRES DISCOVERY 02-25

CCTGAAGAAATCCAATCCTAGCCCTCATTTTAATTATGTACATCTGTTTGTAGCCACAAGCCTGAATTTCTCAGTGTTGGTAAGTTTCTTTACC
TACCCTCACTATATATTATTCTCGTTTTAAAACCCATAAAGGAGTGATTTAGAACATCATTAATTTTCCAACTCAATGAAAATATGTGAAGCCC
AGCATCTCTGTTGCTAACACACAGAGCTCACCTGTTGAAACCCAAGCTTTCAAACATGTTGAAGCTCTTTACTGTAAAGGCAAGCCAGCATGTG
TGTCCACACATACATAGGATGGCTGGCTCTGCACCTGTAGGATATTGGAATGCACAGGGCAATTGAGGGNCTGAGCCAGACCTTCGGAGAGTAA
TGCCACCAGATCCCCTAGGAAAGAGGAGGCAAATGGCACTGCAGGTGAGAACCCCGCCCATCCGTGCTATGACATGGAGGCACTGAAGCCCGAG
GAAGGTGTGTGGAGATTCTAATCCCAACAAGCAAGGGTCTCCTTCAAGATTAATGCTATCAATCATTAAGGTCATTACTCTCAACCACCTAGGC
AATGAAGAATATACCATTTCAAATATTTACAGTACTTGTCTTCACCAACACTGTCCCAAGGTGAAATGAAGCAACAGAGAGGAAATTGTACATA
AGTACCTCAGCATTTAATCCAAACAGGGGTTCTTAGTCTCAGCACTATGACATTTTGGGCTGACTACTTATTTGTTAGGCGGGAGCTCTCCTGT
GCATTGTAGGATAATTAGCAGTATCCCTGGTGGCTACCCAATAGACGCCAGTAGCACCCCGAATTGACAACCCAAACTCTCCAGACATCACCAA
CTGTCCCCTGCGAGGAGAAATCACTCCTGGGGGAGAACCACTGACCCAAATGAATTC

HUMAN SEQUENCE - CODING
ATGGATGCTGATGAGGGTCAAGACATGTCCCAAGTTTCAGGGAAGGAAAGCCCCCCTGTAAGCGATACTCCAGATGAGGGCGATGAGCCCATGC
CGATCCCCGAGGACCTCTCCACCACCTCGGGAGGACAGCAAAGCTCCAAGAGTGACAGAGTCGTGGCCAGTAATGTTAAAGTAGAGACTCAGAG
TGATGAAGAGAATGGGCGTGCCTGTGAAATGAATGGGGAAGAATGTGCGGAGGATTTACGAATGCTTGATGCCTCGGGAGAGAAAATGAATGGC
TCCCACAGGGACCAAGGCAGCTCGGCTTTGTCGGGAGTTGGAGGCATTCGACTTCCTAACGGAAAACTAAAGTGTGATATCTGTGGGATCATTT
GCATCGGGCCCAATGTGCTCATGGTTCACAAAAGAAGCCACACTGGAGAACGGCCCTTCCAGTGCAATCAGTGCGGGGCCTCATTCACCCAGAA
GGGCAACCTGCTCCGGCACATCAAGCTGCATTCCGGGGAGAAGCCCTTCAAATGCCACCTCTGCAACTACGCCTGCCGCCGGAGGGACGCCCTC
ACTGGCCACCTGAGGACGCACTCCGTTGGTAAACCTCACAAATGTGGATATTGTGGCCGAAGCTATAAACAGCGAAGCTCTTTAGAGGAACATA
AAGAGCGCTGCCACAACTACTTGGAAAGCATGGGCCTTCCGGGCACACTGTACCCAGTCATTAAAGAAGAAACTAATCACAGTGAAATGGCAGA
AGACCTGTGCAAGATAGGATCAGAGAGATCTCTCGTGCTGGACAGACTAGCAAGTAACGTCGCCAAACGTAAGAGCTCTATGCCTCAGAAATTT
CTTGGGGACAAGGGCCTGTCCGACACGCCCTACGACAGCAGCGCCAGCTACGAGAAGGAGAACGAAATGATGAAGTCCCACGTGATGGACCAAG
CCATCAACAACGCCATCAACTACCTGGGGGCCGAGTCCCTGCGCCCGCTGGTGCAGACGCCCCCGGGCGGTTCCGAGGTGGTCCCGGTCATCAG
CCCGATGTACCAGCTGCACAAGCCGCTCGCGGAGGGCACCCCGCGCTCCAACCACTCGGCCCAGGACAGCGCCGTGGAGAACCTGCTGCTGCTC
TCCAAGGCCAAGTTGGTGCCCTCGGAGCGCGAGGCGTCCCCGAGCAACAGCTGTCAAGACTCCACGGACACCGAGAGCAACAACGAGGAGCAGC
GCAGCGGTCTCATCTACCTGACCAACCACATCGCCCCGCACGCGCGCAACGGCTTGTCGCTCAAGGAGGAGCACCGCGCCTACGACCTGCTGCG
CGCCGCCTCCGAGAACTCGCAGGACGCGCTCCGCGTGGTCAGCACCAGCGGGGAGCAGATGAAGGTGTACAAGTGCGAACACTGCCGGGTGCTC
TTCCTGGATCACGTCATGTACACCATCCACATGGGCTGCCACGGCTTCCGTGATCCTTTTGAGTGCAACATGTGCGGCTACCACAGCCAGGACC
GGTACGAGTTCTCGTCGCACATAACGCGAGGGGAGCACCGCTTCCACATGAGCTAA

TABLE 26

MOUSE NOMENCLATURE
ICSGNM Tbx21
Celera mCG13239

HUMAN NOMENCLATURE
HGNC TBX21
Celera hCG27200

MOUSE SEQUENCE - GENOMIC
TTGGCAGCAGGGACAAGCAGAAAAACTGGGGTTTTGTCTCCAAAATCACTGAGAAAGGGATTAGAGAAAGCAGAAGCCAAATGGGGTGATATGT
CTAGGGTAGCAGGTGTTCCGAGAGGCCCCAGAGCCCAGGCCAGTGCACACAGGCACAGATATTTCCCCCTGCAGGGCAAGGAAATGGACTGGTA
TTTCAACTTCCAGCTATTGCTTCAGATGCTAAGAACTTGCCTGACCCTGATGCTAACCTCCCCTCCCTGACCCACAGTGTCAGAATCTGGTGCT
GGTGACAGGAAAAAAACAGGCGGGTATTAGGGGAGGGAGGGAGGGAGGTGTGTGTGTGGGAACTAATAGGCTACCTCACCAGCCACCCCACCCC
CAGCCATTTCTAGGTCCTGCACAGAATGCCAGCTGCCCATGGCCCTGGTGGGAGGAGGTTTCCACGGTGCCTTGTGATACACACTGGGTCGCTG
AGAGGGGTGAACTATAGACATCAGGCCTCAGGGAGATCACAGACTTGTGTGTCAGAGTGAATCTGCATCTGGGGTGATAAGTGGGGTTAATCTC
AAGGTCAGATCTAGCCAATCCATTTTCATGCCAACTTGGCCCTGGGTGCCCTGCATGGTGGCAGCTGAGACTCGGATGTCCCCTTTACTAGAGA
TGGTGCCTTGCCTGGCTTGTCTCCCCACTATGGTTATCGGTTTCCAATCATTACCTTTATTTCTATTCCATTACCTAGAGATCTAAGGACCCTG
AACGGTCCTTACTGTTCGCTGTTTTAGGAGACTCAGAAAAGAAATGGGATTGAGAGTGAAGGCTCATGGGAAAGGATGTCCAGCCTGAGGGAGG
GGCGGAGCCCTAACCCATCAGGCATCTCAGATAGATACACAAACCAGACTCTCAGCCTCTTTGCTCTGCTCCCTGGGGTTCATCGCACTGCCCT
ATGCTCTCGGGACTCACCTCAGGCTCTGCCTTTTACAGGCTGTGACTGTCACCATGTTCATAGGAAGAGGGGGGACTAGGAAAGCTCTAAGAAT
AAGCTGGAGGGCCAAAGTAGACTCCAGCAGGACTCAGAGTTGCTAAGGTGATAGAGAGGAGGCAGTTTGGAGAGGCAAGAAACTGGGTGAGTTG
GCTAGCTGTCTTTGCAGCAGTTAACCAGAGACTAGAGAGTGAGAAGGACTTCCATACAGGGTCTCTGGTGTTGGAGTGCAGGGAGTGCAATGTG
GCTAGGGTGGGGTGGGTGAAGGAAGATCTATGCTGTCCTTCCTTTAAGGAGGAATGTGTCCAGAGGGGACTAAAAAACAGAATTCCAAACAACT
CATGAACAGGGCCAGGCCAGCATCTTCTTGTCCCCAGTCCAGCCCCCGCCTCTGAAGCCCCCCCCCCCCCCGCACACCTCTGGAAGCCCTCCTCA
GCACCCCCACCCCACCAAAGCCCACAGCCCTGGGGAAGCTGTGTGGCCTTGTCACCACGGACCCAGTGTCGTGCCGGCTGTGGCTTCTTCCTTC
TGACCTATTTTTTAATCATTTGATAAGATCCCCCCTCCCAAACCAAACCCCGGCCCCCGGGCCCGTCAGCTCCACCGCGTGTCAAAACCACCCT
TGTCAGTTTGCGTTGGTTTCTTAGTCCAGTAGCCCCTCCCCTCAGGGCCTGAGAGCGAAGGCTAATTACCCAGCTGCTGAGTGCATTCCCCCCA
CCCCACCCCCTGCTACTCCACCCCCAGCCCCAACAGAGGGGGCCCTGGAGGCCTGCTGCTAGAAGAAGCTGGGGCCTCCTTTCCCTCCTATTGC
AGGGCAGGAAGTCCTTCCTGCTGTCTAACCTCCATTCTTTTCTCTGTCCTGCCCCTAGTGGTGCTGAATGGCAGATGCAAGGACTGATATTCTA
GACTGGAAGGGACTTTGAGGCATCATCTCCTTTAAGGAAAGTAAAAGTCGCAGCCTCCTGACCTGGATTTAGAGATGTCCTCCTGGGTCTCACA
GAATTGTAGGGGATGGTCTCTGCCAAGGGTCTCAATTACAGGACAGAAAACTGAGATGCAGCGAGAGAAAAGGACAGGCCCAAGGTCATGTTCG
GCTGGTGGGGTAGCTAGGATCAGAACCCAGACCTTTCTGTCTTTCTGTCTGTTGCTGGGTCTCCCTCACTCCATTCTGTTTCAGTTTCTCCCTA
CCCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTTGATACACACTCTATGGGAGCTTGTGGAGGCCACAGG
TCAGTGTTAGGCATCTTCTTCAACTTGGTCTTCAAATACATTTATTTAAACATTTTTTTTCTAATGCGTGCAAGTGTTAGCATACATGTATATA
TGTCATCATATGGATGTGTGGTGCCCTTGGCCGCCAAAAGGGGAGTTACTGATGTTTGTGAACCACCATGTGGATGCTGGGACTGGACCTGGGT
CCTTTGCAAGAGTAGTCAGTGCTCTTAACCATTGAGCCATGTCTCCAACCCTCCCCGCCCACACACTCTTTATTTTTGGAGATGGGGTCTCTC
ACTGAATCTGGAGCTTGCCAGTGTGACTGGTCTGGCTGGCTGGTCACTGGGTCCCAGGAATCCTGCAGCCTCTTTCTTCCCAGAGCTGGGATAA
TAAGTGGATATGTTGTGCTTAACACAGAGGTGTGGGAGAGTTAACTCTGGTCCTCATTTCTTGAAACGAGCCCTTTATTGACTGAGCCCATTTT
TCATTCTGTCTTTGTTTTTGAGACAGAGTCTTACCATGTAGCCCAGGCTGGCCTGGAACTCAGCATCTTCCTACCTTAAACCCCCCCCCCCCCAG
AGTGCTGACATTCTAGGCATGTGACACTACACCCACCTTATTTTCTCAGTGACTCAGTCCTTATTCCCTGAGCAAGGACATCACTTCGTGCCCC
TTGCGAGCCTCATCCTCAGGTCTGGGGTTGTCCAGCTTGCTCCATACACCATTAGAGATTGATCACTCCTCCAGCGTGTAGCTGCTGTCCCCTC
TTCCCTCAGACTATCAGCTGCTCCATATCAACTTACCCTGTCACATTATCGAGAAGGGCAAAGCCAAGGGTCTGTGTGTGAGAGAGGCCTCAAA
AAGGAGGCCCTGCACCAGGTATACAGGCATACAATAGAGTGCAGTTGGACTGGCCTTGAGGCTCTGACAGACTTGGAGATGCAGAGACAGACAG
ACAGACAGACAGACAGACAGACAGACAGACAGATACAAATCCATGATAGAGATCACAGTAAGTTCTTGGAGCCAGGGATAACAGGAATACTCGAAAAG
GCAGGGACAGAGAGAGACCCTATTATTCGACATCAGCAGGCATATTTGTTATGAAATATAATGCGGCAAGGGGGTACCTGGCACAACCATGCCA
AGGTGTGTCCATGAGTAACTACACCACACAACAGAGTTGGTATAAAGAAAGTTTACTGGGAGAAGGGAGAAGAGCAAGGACTTGGAGCAGGGGT
AGAGGCAGGAGAGTGGACATGTAGACAGACGGACAGATGGGAGCAGACTCATGGGGGCAGAGAAGTGGCCAGGAGAGGGAGCAGAGAAGGACAG
GAAGAGGGAAGAAAGAATGCTGGGAACACGTGGGAACACAGAGAGAACTGGGNNNNNNNNNNNNNNNNNNNNATGTAAGCCACTGATAGGTTCC
TGGGAGGAGCCTAGTGGAACTGCTGTAAGCTAACAGTATTTATTGTTGTTTTAGTTTTAATTAATTTTCAGATAGAGTATACTGTAGTCCAGGC
TGGTCTTCAACTTGATAGGTAGGCCAGGCTAGCCTTTAACTTGATCAGGAGTTTGAGATGACCTTGACTTCCTGGTCATCCTGTCTCTACCTCT
CAAGCGCTGGCATTATAGACAAGTCCCACCAAGGCTGACAAGACAGGAGCGGTTCCACAGATCCAGACAGAGGCAGATGCGGCCAAGACCCACG
AAGCTGCAGACAGGACACAAGGCTCTAGAGACATGTGCAGGCCACCACCACCAAGGCCAAGAAACACCAACGGAAAAAGCTGTAGTCCTGGTGC
TTAATCCCAGCACTCGATAAGCAGAAGCCGGCAGATCTCCGTGAGTTCGAAGCCAGTCTGGCCTACATAGTTGTAAGCCAGCCAGTGCTACAGT
CTCAGAAAATAAAGGAAGGAAGAAGACAGAGAGAGCTACAGACAGACAGACAGGCTCAAGAGCCTGGGAGAAAGCAGGGCTCATGCAGATGGTG
AGGTTAGCTTGCCCGGCCTGGCACTGCTGGACTGTTCAGGAAGCTAGATAGCTTCCCGAGGAGACAGGGACAGAGGAGTCCAGCTACACAGGAG
TTAAGGTTGGCTCTCCAGCCTTGCCCTGGCTTCTCTCTCCCTTCCCTCCTCCCAGGCTCCCTTTACCCAAGGCCCTGGCATTCCCCCACCCCCA
CCCTTGGTAACCAGACCCTGCTTCCTGCTGAGATTAAGGCCTGCCTGCCAGATTCTGGGGTGGGGGGGGCAACACCTCCCCTAGGGCCTTCCTA
AAGCTTGTGCTCACCCTCAGTACCCTGGCAGCCTCTGTGATTACAGGGTTGCTCCAGTGATAGCATTAAGGGAACCCTCATCCCTAGACATGGG
GTGCCTGTGGAAAAGTTAGGGGGGAAAGGACCGTAGTTTGGGACTGAGTTGTTGTTCAGGACCAGAGGGTAAACGGTACCCATCTTAAGAGGTA
TTCAGAGTGGCAAAGGGTGACCCTCAACCCGGACATGAGATCCTGAAGCCCTTGACCTTGGAGTAAACCCCGGGTGCTGGCTACTGGGGATTCC
GACCTCTTGCAGCTGTCGCGGTTGGGGGTGGGGTGTGCTGTCCAGGTGCTGGCCACTGCCCTGCCCTCTCCCTGCTAAGCCGTCGGTTCCGGCC
ATGGGCATAGCCATGCTCTCTGAGGACTGGCTGGTCTGGGCCCTGAGCTGGGAGGGCTCCAGGGTGGGTGGATAACAGTGGGATGTGAGCAGAC
CTGAAGGCAGGATTGAGGGGTTATCTTGAGGAGGACTCTGTGTTTGGCATGTTTATGTACATGGGAGGAACCGGTGTGTGCAGGAACCTATCTG
GGTTGCCAGTCTGCCTCTGGGCATAAGTGGCCTGACGTACAGGCGAGATCTGAAGTGCATGGTCACTCACCTAGCTGGGAGCTCTTGGGGGAGA
AGGCTAATTCTAAGTTTTCAGAGTCCCCAGGCCTAGTTGATTACAACCGGCAGGAAATGGTGTACGGGGTCAGGAGGGAAGCAGGCTTGCCCCT
ACTCACTGAGAGGAGTCTCCTGAACAGGTTCGCTTCTGGCCCCAGGTCCTAGTGGAGGAGGGGGTGAGCATGAGGGGTCTTTTGTGGAGGACCC
ACAAAGCTAGATGGAAGACAGGGAAGATGTGGGTGGCTGGAAGCAAGAGACAGGCAGACAAGGCAGCACAGCCTGGGCCTCCATTCCCTTCCTT
CCTCAGGGCAAGGCTCTCGGCCTTTAGAGTCCAAATGAATCTTTTTCACTGACAAGGAAAGCAGAGCTGTCAGGATGCAGGGCAAAGGTCACCC
AGAGAGTGAGGCTTGGACTTGGGGGGTTCCCACCAAGCCACCTGTGGAAGATATTGTTTCCCTTTGTCAGGCTTTTGATACCCCAAAGCCTTTT
AGCTTCTGAGGTCTTTGCTTTCAAGGGCATCCCCCTTCCTTGTTCTCTCCCCCCCCCCCAGGGGCCTGAGACTTTCTCACTGAGTCACAGCTAAG

GCTCTGACTTCATGGTTTCTTGACTCTGAATCTCTCCTGAGCATATCCTGAGCCAGGGACTCCTTCCTCTGAGCGCCTCGTTCAATCACTGTTC
TGGCCTCTGTGGTTCCAAGGCAGAGACTTGGCTCCTGGTGCCCTGGGCTCTGGGCCACCAGCCCTACCCACCCCCCACTCCGTTTCTATCCTTC
ACTGCAACCCTGGGATGGAGGACTTGGTCCTGCACACATGTTCAGGAGAGGATCAGGCCCACTGATGCACCTGAGAAGGGAGAATCTGGCCGTA
GAGTGTCCACCAGGGCACTGGAACGCCTGCGATGTGGCTTCCCTTGCCTTTCATCCACCTATTCCCTGTCCCTGGAAGTTTCTGACTTGGAGAT
AGCAGAGAGGAAGAGGGAGGATCCTGGACGTGGGATGTGAGGCATCCTCAAAGGCTATTGTCACCTTAAGTTCTTAACTCAAGACACTGTCGGG
CCCCAGCATCAACATTGTCTAAGGAGCAAGTCCCAGAAACCCACATGACAGCTTGCTGGGACAGGTGGTGGCTTAGAGGAATGACCAGGGCTGT
GTGGCCTTGGGAGAGAATCCCTGGTACTCTGTGTCTTAGACTTGAAAGAAGTCTTGCGCACTTGTAGAACAGCACATGGTGAGGAGAACCAGTG
CCAAGTTGGAGGGCTTAGGCTCAGCCCTAAGCCTGGGGTGGGAGGTGGCAGTCTCTCCCCGCTGCTCCCTGTTTCCCTAATCTTTTCTAAGAGA
CTATCAGACCTTTTCTTTTGTGTGGTGCTGGGGATGGAGCTACAGTCTCCTACATGCCAAGTGTGTCACATATGTGCGTGCATATATACCTGCT
ATACCACCATGCCCTCATCCCTTGGCTAGTTTTCATTTACTTGACTTCTGGAAAGAACGCTGGGCTGGTCATCTACCTCAGACCCTCCGCCCTA
GCTCTGTGGCTAACAGGGTGTGTGACTTCTGAAGTGTTCTGTCTCCCACGTTCCCCAGGGCCAGCCTATGGGTAGCACGTACTGGCAGGATGAG
AGAGGGGCTGGGAGCAGCAGCCACAGGGCAGAGAGGGGATCCCAAGGGGGCCTCCTTTCCTCAATCCTGGCTTCCCACCTCTCTAGCCCTGGAG
ACTGGGAAGGGGGGTTGAGGTGGCAGCAGGAGGTGTCACTGTCGGGGTTCTTCTTCTCACCCAAGCTGGCAGAGGGGCGGGACTGGCAGTGGTG
ACACCAGGGCCACTCAGCCCCCGCTTTTCACAAGCACTTTCTTTTTTGGGTGAAAGAAATTAGAGGGAGTGGGGGGGTGAGAGTGGTGAGAATC
TGAGGTTAATAAGGCAGGCTCTATCGACCCATCAGGTTATGGGGAAACCATTCTCGGGCCCCCCTCACTCCAAAGATGCACTTCCAGGACCACC
CAGCTGTGATAGTCATTCCCTTCTGCTCTGAAGAGCTTGTTGGGAGCATAGAACATTTTGTTCCGAAGCAGGGGGATGGCTCACTTGACCTGAG
GATCAGCGTGGAAGATCAGGGATGGAAAGGCTGAGGAACAAGACTCCATTTGGCCTTTCACAATGGGACACTCAGCAAAAATGCTCCCCCAAAG
AGTTGTCGGTGTTCAAAAATTTTACCTCCTGGGGAAATCAGTCATTTGAATGAATCCCAGAAATCTATTTTCCACAATAGGGAGCCAAGGGTGC
AAAGGTCACCTTCTTTCAAGTCCTGGTGTCTCATTTTGACCAACAACACAGAAGCCTTTATGGGCGAGTAGGGGGTGAGGGAGTGAGGAGGA
GGCCAGACCTCGATATCTGCTGCTGTCATGGATCCAGGCCTCATTCTCAAGAGCTGTGCTGATTGTCTGCCCCCACCTTTCCCTGGGTCATGTC
TGCCTCCTGGGGTCCCTAACTTCACCTTCCCCTGGCAGCCTGTCTCTTGGTTCAGCTCTAGTTGGAAGGAGAGTGTCCCCCTGGGTCCCTACGG
GTGAAGTCCTATTGGGCTGGGACAGAGATGTAGAGATGAAGTCACACCCCAGGGGAGAAGTGGGGTGGGGCAGAGATGAGGGAAAGAAATCTCT
TTTTAACGAAATAAAACTGCATGGAAGTATTTTTTGAAGCATTCTTTAAGATGTAAATCTTTATATATTTGACATGCAAAAAAAAAATCCATTA
CACCGTGCTGAGTGAAGAAAAAAACCAAGAACCCACGTGGTAAAGCGGACTGCGAAGTTGATGTAAAATTAGACATCTGTGTGTGTGTACAAAA
GACAGAGACACAGGAGGGTCTATACAAGGGAGGTATCCAGAAGGGTTTTCTTAAAATGTTAATACGGGAGCTAGTATGGGAGGGTGGTGGTTTG
TCTGACTTCTGTTTTTCTTCACTGCCTAGATTTTCTGTACAGAGGATGATTTTAGTCCTGAGGCCAGCAAGATGGCTCAGCAGTTAAAGGCACT
TGTTGTCCAAGCCTGATGACCTGAGTTCCAGACTCAGAACCCACATAAGGATGGAAAGAAAGGACTGACCCCACACAGCTGGACTCTGAACTCT
AAACATGCACCATGGCACAGATGTCCACACACAATAACAAGTAACTTGCTTCCTGGCGGTGACGCCCTCCCTCTGAGATTATGCCTCACTCGCA
AGGGTCTCCTTCATCACTCTCCAGAAGAGGAGAAGAGGAAACACAAGAAAAAGCGCCTGGTGCAGAGCCCCAATTCCTACTTTATGGATGTGAT
ATGCCCAGGATGATATAAAATCACCAGTCTTTTTTTAAAATTAATTTATTTATTATATGTAAGTACACTGTAGCTGTCTTCAGACACTCCAGAA
GAGGGTGCCAGATCTCATTACCGATGGTTGTGAGCTACCATGTGGTTGCTGGGATTTGAACTCAGGACCTTCGGAAGAGCAGTCAATGCTCTTA
ACCGCTGAGCCATCTCTCCAGCCCAAGTAACTCTTAAACGATACTTTACTTCTTATTTACTTACTTTTGAGATAAGATCCCCTGTAACCCAGGC
TGGCCCAAATTGTAGCTGAAGATGACCTTAAACTTCTGATCCTCTACCAACCCTCTCAAGTGCTGGGATGACAGGCATGTGCCACCATGCCCCA
TCTATACAAAGCTGGGGGTGGAACCAGAAGCGTGGGTGTATGCTAAGCAGGCACTCCATCAGTTGAACTATATCCCAGACCCCGGGGATGCTTT
TTATTTCAAAAGAAAACTCCCAATGGATTCATTTTCAGTTAGGAGGTGAGATTCTTCTCAAAATGCAGGACTTACCGTAGTTATTGGAATAGAA
CAGCGGAGGAAGGACTGTCTGTCTCCATCAGAGCAGGTGCTGGGCTCCCTGTCAGCCAGCTTGGACTACATACCTTTGTTTTTTTCTATAATAG
AATGGAAACAGAGGCACACAGACACCGGTTGGTATAAGGTACACAGCCCCTACCCCCAATACGAATATTTATTTCCCCAGCCTACCCCATCAGG
CCTGAGGGACTTTCAGGCAAAGGAAGTGACTTACCCAGGTCCTACACACCCGAGTCACAGTCAGAGTCAGCCCTGGGACTCTGAACACTGACAG
CCAAGCGCTACTTCCCGTGTCTTTCGCTAGCTGTTACGCTGCCACGTGAACGAGCTTTTGTGGGAGCATTTCAGCCAGCCCAGCCCACCGTGGG
CTGCTTTGGGTGCAATCTTCTTGGGAGACAGCTTCCAAGTTTCCTCCTGGGCTAGAGGGACAAGCATCATCCTCGGGCCTGGGGGGTGGGGTGG
GAGGCTAGCGATGGGGGGTGGGGGCGGCGGACAAGAGACAGCGAGCAAACACTTTGTGTAAAGTCACAAAGCCTGGGCATACAGGAGGCAGCAA
CAAATATCTGTTGACTATGGATAGTCTAAGTAGCTCTGAGCCTGCCAGAGGCGTGAGAATGCTCAGATGGTCCCATCTGGGGAAAGGGCCTTTG
CTGTGCCTTCCAGGACTGGCGGAACTTCCTGGGGGAGAGAAACCGTTTCTCTCCTCGAAGTTTCAGAGTTTCAGGTGGCAGGTTGACTCTTTCC
CAGATTGGGGCGACAAGAGACTTACACTTAGGAGTGGGGGTCGGGGCTTCAGTCCTCACCAAAAGCGAATTCGCGCTGTATTAGCCACGAGGGG
GCGGGGCGGGGCGGGGCCAAGGTGGCGGGGTGAGGGGACCCAAGGAGCTTCATAAAGCCACAGCAAAGGCCGCCGCGCCGCTAGTGACAGCGCG
GGCTGCAGAGAAAGCCCAGGAGCAGCTGCGCGCCTATCCAACGCGCGCTCAGGAGCCAAGCGTCCCAGCTCCCGCTCCAGTGAAGTTTCATTGG
TCTTCGGACGCCGCCCCCGTCGCCCCAGCCCTAAGGACCCTCGGGTCTCTTCGACGGCTGCTGGAAGGCGCCCAGCCCGCCTCGGATGGGCATC
GTGGAGCCGGGCTGCGGAGACATGCTGACCGGCACCGAGCCGATGCCGAGTGACGAGGGCCGGGGGCCCGGAGCGGACCAACAGCATCGTTTCT
TCTATCCCGAGCCGGGCGCACAGGACCCGACCGATCGCCGCGCAGGTAGCAGCCTGGGGACGCCCTACTCTGGGGGCGCCCTGGTGCCTGCCGC
GCCGGGTCGCTTCCTTGGATCCTTCGCCTACCCGCCCCGGGCTCAGGTGGCTGGCTTTCCCGGGCCTGGCGAGTTCTTCCCGCCGCCCGCGGGT
GCGGAGGGCTACCCGCCCGTGGATGGCTACCCTGCCCCTGACCCGCGCGCGGGGCTCTACCCAGGGCCGCGCGAGGACTACGCATTGCCCGCGG
GGTTGGAGGTGTCTGGGAAGCTGAGAGTCGCGCTCAGCAACCACCTGTTGTGGTCCAAGTTCAACCAGCACCAGACAGAGATGATCATCACTAA
GCAAGGACGGTGAGTGAGGTGCGCGCCGAGCGCAGCGAGCTCGCAGGGCGGAGCCGGCGGGAGTCTGGCCTGGGTGGCCCGCCGGAACAACGAC
TTTCCTCTTTTTTTTTTTTTTTTTTTTTTGAAATCAAAATTTGAAGCTGCAGGTTGCTGAGTCTTTGTGTTCGTAGACTGAGCTTCAGTTTTAGG
AGACGGGGGAGCAGGGTTGCGGGGAGGGCACCGCAAGCTCCGGAGAGCCGCGGGTGCTGAGGGTATCAGAGGGCTCAAAAAGGATGATGCTGTG
GGCGCAATTAGAAGTTACTTTGGTGCAGAGGAAAGGATGACTCTCGCTTCACCGAGAGTTGGCCGGTGGGGGGTGGGGGGTGGGGGACTGGAGG
GGGTTAATTTGCTCCTTGCCTCAGTCTGGGATCTCAGTGGGCAGCGAGGAGTGTGTGTTATAGACCTGACTGACCGCCTTTCGGTCCTTAGGTA
TTCGGGAAATTGAAGTGTTGGGGGCAGAATATTTTTTGAGATCTCAGTGTGCCTGTTCCTTTGCTACTGCTGTGCTTAGGGTAGCTTTGGTGTA
TGGGGGAGGGGGGGAGCAGACTGGGATTTGGTGACATGGAGAAGCGGTCGCCAAGTTTCTTTTCCGGTCTTACTTTGAGATCATATGTCTAGAG
AGGGAGAGAGAGAGAGAGAGAGAGAGAGTGTGTGTGTGTGTGTGTGTGTGTGTTGTGTAGAGAGGTGGGAAGCAGCA
AAACTTATAAAGGCACAAATAAATGCCGAGGGCCTGAACGTGCCAAGTTCAAGACCAGTTGCAGCTGGTGTCCAGTCTTGCACTGTGCTCTTTG
AGGCTAGTCCCTAAAAATATGTCCACTTTCTCACCCAGCTATTCATCAGTCCAGCCTGGGGGAAGATGGAGGGGGTCCCCTAAGCCTGTTGCAT
TAGTGGTATGGTTTGTGGCTCAGCCTGCTGCTTCCGGATCGAGTCTCTTTGCTGAAGAAAGAGAAACTTGCAGTTTCTGAGGGGTCATTTATAG
TATGCAACACCTCGAGTGGACCCTCTTGTGTCTTATGGGAAGAGGCAGCTACCTTTCCCAGTGAGGACCAGCCAGAACTTTGCCATTAGTGAGT
TAGGATGTGCGGTATTAGGATGGAGACTCAAAATGTAATTGAGAGATTGCAAGGGTGGGGTTTCTGGGAGGGGGACAGAAACCCTTGCCGGATC
CCAGGAGGCACTGCTAGAGTATATTCCCTTCGGATGATGTGGGGAGAGGGCAGATAGCTGCTAACTACAGCTGGTTTCAGGCTGCTGAGTTCTT
CCTCGCGGGGATGAACTGAGAATAAAACATTTGATTGGTTTTTGGCTCATCCTTCATCCGCAAAGACTTCTGAGGAGTTTCCTCGTCCCCCA
ATCCTTCTCTGAGTGTCTCTGGCACTGGCCAGGTTGCTGGTCCTAGAGAATGTCTGAACTGGAAGGATCCAGAAGTCCCTGTCTCTCACTGCAT
AGAGAAACAGACCTAGAGACAGCAGGGGACTCTTCGGAGGTTCCCCAGCTGGGACCAGGCCTCAGATGGCACCTGTCTGCTCCTTTTTTCTCCA
TTCTCCACAGCCACCTACACTGTCTGAAAGCCCTGCGTGGTACACCCAAGTGCTTTCGCTTCCATTATTTCTAGGCGAGCCAGGCAGGGCTGGC
CCGTTTCATACCCACGAATTCTGAGTTGCTGGGATAACCAGTGGCTTACGCTAGTCCCGCAGTAGACTAGGTGGGGCCTCTAACCATGGGACTT
TCTAGTATGTCAGCAACAGGAGGCCCTCTCATCCCGGGGCCTGGCCAGTCCTCTCAATGCCTTGTCAGGCCTCAGCTCCTCCAGTCAGAGAGAG
CATCAGCCACAACCTCAGTGATGGCTGAGCTGGGCTGGGGCCTGTCTGTCTGTGGGCTGGGTTGCTAGGGGAGGCATTTGGAGGGACACACTCT

ATATCACTGGGGCCTGTCTGTCTGTGGGCTGGGTTGCTAGGGGAGGCATTTGGAGGGACACACTCTATATCACTGGGGCCTGTCTGTCTGTGGG
CTGGGTTGCTAGGGGAGGTATTTGGAGGGACACACTCTTTATCATTGGCCTGGCTCTATGGACTCCTCTCCTGTGTGCGCCTATAGGATTTTTT
TCCCATGACCACTTTTGCTCTCTCCCGTTTGGATCGGTGCTCTTATTATTTTAAGTGCTGTAATTGGAACCTGGGGCCTAGTGTATACTAGTCA
TGTTTTTTTTGTTTGTTTGTTTGTTTTAAAGCCAGCTGTGGTAGTGCACCCCTTAAGTAATGCACACGCATAATTGGAAACTAGCCTGTGCTACA
TAGTAACTTTCCCCTCCCTCTTTCTTTCTCTTTGCTATGTAGCAAAGGCCTCCTTTGAACTTCAGCTCTTCCTACCTCTGCCTCCCCAGTGCTG
GGATTACAAGGATGTGCCACCACGCATGTTTGACACTCTGTCTCAAGGAATCAAAACTAGTTTACTTTTCAATGCTAAGAATTGAACCCAGGGC
CTTATGTGTGCTCTGCACACACAGTCACACTGCTACTGAGCCACATCTTTAACTTCTTTTTTTTTTTTTTAAGATTTATTTATTTATTATATGT
AAGTACACTGTAGCTGTCTTCAGACACTCCAGAAGAGGGTGTCAGATCTTGTTATAGATGGTTGTGAGCCACCATGTGGTTGATGGGATTTGAA
CTCCGGACCTTCGGAAGAGCAGTCGGGTGCTCTTACCCACTGAGCCGTCTCACCAGCCCAATTTCTTATTATGACAAATCACACTGTATAAAAA
TAAAAGGCCAGGCGTGGTGGCACATTCAATCCCAGCACTCAAGAGGTAGAGGCAGGCAGAACTCTGTGAGTTCGAGGCCAGCTTAGTCTACAAA
GTGAGTTCCAGGACAGCCAGGGCTACACAGAGAAACCCTGTCTTGAAAACATCAAACAAACACACAAGACCAAAAACCCAAAAAACAAAAATAA
ACATAAAAGTAGAAAATATATCATCAGGCTTGGCTTTAAAACTATTCAGTATTGGTCTGGTCTTTTTTGTTGTGAGTTATTTTGCTTGTTTGGT
TTTTGTTTTCTTTTTGACTCGGGGTCTCACTCTACAGGCTCAGCGGGCCTGGAACTCACTATAGAGATGGGGCTAACCTTGAACTTATAGAGAT
TCCTCTGTTCTTGCCTCCTGAGTGCTGCCATTAAAGGCATTTGCCACCTTGTGGGTATTTTGAGATAGGATCTTGCCTTGCAATCAAGATTGGT
CAGCAATTGTTGATCTTTCTGCTTTGAATCTTTATGTTTCTCTGAAAATGAATTTCGGTTGAGACAAGATCTTAATTCATGTATTCCAGATTAG
CCTGGAATTCTCAACCCACCTGCTTCACCCTCGGGAATGCTGGGATCACAAGTGTGCACTGTAACCATGCTTGACTTAAAAGTGGAATTAAAAA
AAAGGGGGGGCTGGCAAAACGGCTCATTGGGTAAAGGCACTTGCTGCCACACCTGACAACCTGGGTTTGATTGCCCTGTGGGTTTGATTGCCAG
GGCCCAAATGGTTGAAGGAGAGAATTGACTCCCATAGATTGTTCTCTGAACTCCAAACATACACTATGACATGTGGGTATTGTCCACCACTTGC
ACCATCCAAGAAAAGAAAAGTAAAAATAAGAAAAACAACAACAAAACAAAACAAATAAAAAACAAAACAAAACAAAAAAATCAACCAGGGTTGA
AGAGATGGCTCAGTCAGTGAAGTGCTTGTTTTGCCAACGTGAGGACCTGGCATGAGGCAGAGACTGGCCGGTGGATCTGTGTAAATTCAAAGCC
AGGTCTACAGAGTGAATTCCAGGACAGCCAGAGCTATAAAGAGAAACTCCATCTCAAAAAACAAACAAACAAACAAAACAAAAACAAAAAATAA
AAAAATAGCCAATTACCTAGGTATGGTGGTGTTCGTAATACCTGGCCAGCCAGCCTAGAGTAATCAGAGACCTTTAGGCCAATGAAAGACCCTT
GTGTTTAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGAGTAGACAGACAGACAGTGCCTGAGAAATTATAT
CTGAGTTGTCTTCTGGCTTCTACATTGACATGGGCACACATACATACGTGCAAGTGCACACACACACACACATGAATAAATAATTTAAAAAATC
CAATTAGCACACCTAAAAAAGAAATTCCTAAATGCCTTCTGAGTGTTTCATAAGAGTGTGCTAGCATCATGTGTGTGTGTGGGGGGGGCAAT
CCTCATATTTTGGATCCTAAGGCCACACTGCATGACATGGGGTCCCTGTTGGATGGGGCAGTGACTCCCCATCATTTCCTTTGATGCCTCTCTT
CAGATCAGATCCCAGGGGTCCCATCCTGGAAAGCAGACAGGGAATACCACATCAGTTCAGCCTTACCAAGCCCTGTGGCCTCTGTATCTTCCAA
GTTTGAGCTCCAGCTATCTGGGAGGTCCTGGCTGTTTCCTTTTGCTGAGAGTTTTGGGCTCAGAGCAGAGTCCTTTCAGTCCTCCTGCTTTGGC
AGGCTGGCCTGTCCCTCTGTAGGTTTCAGTGACCTGTAAGTCACTACCACATCACCCACGGCTTTCTTTCTTTTTGAAAAATTCTTCCATCCCA
GACCTAGCCACAGCCCCTCAGCCGTTGGTCCTGGGCTGACTCAGTCTGTCCCTGGTCCCTCCTCTCCCACCCACCCTGGGCTCACCCACTAGTA
TGGATCTGTGGTAGCGATGCTTTTGGTTCTGAGTGAAGAACAGGGGGATGACGGCTGATGAGGGCGGTTCTAGTGGGGCTCAGAGAGGGAAATG
GAGCACAAGAAGAGTTTGAGGTGAGCCAGAGAAATGGCTCAGAAGTGAGGGTGCTTCCTGTAATCCTGACAAACTGAGTTCAGATCCCCCCACA
TACTCGTGCGGAGTAGGTTACCCCAACACGCAGGCATACACCTCCCTACAGAATAAAAATAATAAAATGTAATACTTGTCTTTTTCTTTGGTTC
CCCCTACCAGGGATTTTGAGACAGGCTGCCCTGGAACTCTCTCTGTAGACCAGGGTGGCCTTGAACTCAGACATCTGCCTGTCTCTGCCTCCCA
AGTGATGGGATTAAAGGCATGTGCCACCACCTTTCTATTAGATATAATACCTTAAAAACAAACAAACAAACAAACAAACAAACAAACAAACAGG
AAGAAGAGTCTGGAGTCTCCTTGGTGCACTTTTGGAGCAACCCGGGAGCACTGCGTGCAGGCTGAGCCAGTCAGTGTGTAGTGAATGGTAAATA
CAAATAATAGCCGTAGGACGAAAGGCTTTCTCAGTAGGCAAGAGAGGCCGGTCCCCGTGGGCGTGTGGGTGGGTACTAATTGCTGGTAATCCCC
ACTTTTCTGGCTGTGATTGGTTGATTATTATAATTAAGATAACTTTGGGGAGAGCTGGTGTTAAGTAGCTCGGTTTGCAGATGCGCTTGGTTAT
GTGACGTCCGGGTGGCGAAGGCGCTTCCTACTTCATGTGAGGTAGTGCCACAGCGCCTTAGTGTCTTTTCCCCATCGTCTCAACTCTCGAAATT
TTTAATTACTTTTTTTTTTTTTACTTATTATTTTACTTCTAAAATTACTTTTACTTTTTAAATATGTTTTTATGAGTATATGTGTGTGGGAGGGA
TCATGTATATGCTATGAGTATGGAGGAGCCTATAGAGATTGGAGGTCAGAGCTCCTGGAACTGGAATTATATAGGTGGTATGGAGCCTATAGAG
AAGTCTAGTACAGCAGGCGTGGTGGCGCACGCCTTTAATCCCCAGCACTCGGGAGGCAAAGGCAGGCAGATTTCTGAGTTTGAGGCCAGCCTGG
TCTACAAAGTGAGTTCCAGGACAGCCAGGGCTATACAGAGAAATCCTGTCTCGAAAAACCAAAAAAAAAAAAAAAAAAAAAAGATGTCAATTATG
GGTCCTCTGTAAGGGCAGAATGTATTTTTAGCCACTGAGCCATCTCTCCAGTCTTTCATTTCTTTTTCTCTTTTGGTAAGACAGAGGCTCACTC
CAGGCTAGCCTTGAGCTCCCTGTATCCAGGTTACCCTTGAATGTGCAGCACACCTTTTGCCTCAGGTTCCTAAGTGCTGAGATTTTAAGTGTAA
GACACTGTATCCCACTAAGCTTTCAGACTTTTTTTTTTTTAATTTAGATTTATTTTATTTGTAAATCTAATGTTTGGAATTATAAAATCGAATGT
TTAATAATTACTCATCTAATGAATGAATGCTTTGCTCATGTGTATGTATGTCTGTACACAACATGCATGTCTGGTGTGCTCAGAAGTCAGAAGA
TGATGTTGAAGGCAGAGTTATAGGTAGTTGTGAGCCACCATGTGTGTGGGCTCTGGGTATTGAACCCAAATCCTCTGCAAGAACAAGTGCTTCT
TTTTTTTTTTTTTGTTTTGTTATGAGACAGGGTTTCTCTATGTAGCCCTGGCTGTCCTGAAACTCACTCTGTAGACCAGGCTGGCCCCGAACTC
AGAGATCCACCTGCCTCTGCCTCCTGAGTGCTGGGATTAAAGGCGTGCACCACCACACCCGGCTATAAGTGCTTCTTTAAAAACAAAAAAAAAT
ATTTATTTTTATTTTATGTACATCGGTGTTTTGCCTACATGTATGTCTGTGTTGAGTGCTGGATCCCTTGAAACAGGAGTTACAGACAGGGGTA
AGCTGCCATGTGGGTGCTTGGAATTGAAACTAGGTCCTCTTAGAAGAGCAGCCAGTGCTCTTAAGTGGTACACCATCTCTCCAGCCCCCAAAAC
AAGTGCATTTAATTGCTGAGCCACCTCTCCACCCATGGATTTTTTGTTGTTGGTGGTGCTATATTAAACCCAGGGTCTCATGGATGCTAGGCAA
TCAATGGTTTTTTTTTTTAATTTTTTTTTTTATTTTTTAAGTACTTTGATGTTTTGCCTGCATGTATCTCTGTATCAGGGTGTCAGATCCCCTGG
AACGGGAGATACAGATACTTGTGAGCCGCCATGTGGGTGCTAGGAATAGAACTTGGATCTTCTGGAAGAGCAGCCAGTGCTCTTAACCCTGAGC
TGCCTCGCCAAACCCTAAACATGCACTCCTATACTGAGTTGCGACCCCAATTTAACTTCTCACATCTTTACAAAACACTTGTTTCAAGAGTCCT
CTTTCTCCTCCTCCAGAGTCTGGGCCCATGGACTAAGAATCTCAAAATCTCTTGGAAACGGCTACTCAGAAAAGCCTAGCTGTTCTTTACCTGC
TCTGAGGAGGACTCAGCTGGTCAATCCCATGGAAAGTTGATTGATGTCTGAAACTAGTCATTGCTTTGTTGTTGGAGACAGTGTCTCACTGTGT
AGCCTTGTCTGGCCTAGAACTCACTATGTTCCCTGCCATGTCCCACAGCCGTGTAAAAATCATCGCTAGGCGGGTTAGCCTTGGGGCAGCAGAG
AGTCATGGGATCTTGACTCTGTAAGTAGTTTTAAGGAGGTCAACTTGGTAGCAGATTCATCTCCACTACTGGTTTCTTCTTAGTAAAGCAACAT
GTAGATCAGGGAGCTATTTGGGGATTCTAGCTGCTGGTTATTTCAGTAGTGTGTGTGCATATGTGTGTGTGTGTGTGTGTGTATGTACATGTAC
GTACAAGTGTGAACATTTGTGTAAAGGCCATTAGTTAACCTTGAAAGTCATTCCTCTGGAATCCTCTCTGTCTGTCTGTCTGTCTGTCTGTCTG
TCTGTCTGTCTCTCTGTGTCTCTCTTTCTCTGTCTCTCCAGAATCTCTATATGTAGGCTGGCTTCAAACTCACAGTGATCTGCCTCTGCC
TCTCAAATTCTGGGATTAAAGGCATGCGCCAGCATGCTTGGTTCATTTATTAATTAATTTGTTTGTTTGTTTATTTTTGAGACAGGGTCTCATT
AGCCTAGAGTCTACCAAGAAGGCTAGGCTGGTTGACAAGAATCTAAATGTCTCTGCTTCCCCAGTTTTGGAATTCTAAGTAGATGTCACCACAC
CAGATGTCACCACACCAGGCTGCCTCTTCCTCTTCTCCTCCTCCTCCTCTTCAGTGTGGGCACTGGGTACTCATGTCTTCGTGATTGTGCAGCA
TCTCGCCATCTTTTAAAGTGAAACTAAGACCCCCCTCCTTTGCCTTTCACTTACAATCTTCCTGTATCTTTTGTCACCCACTATCGGGACAAC
AGTAGGACAGATGGACAGAAACCGTAGTGTGGGGTATTCATCAATCTCTCTATAAGCTTCAGTGTCTTCAGGTGTAGAGTTTCAAGACGTTTTG
TTTCTCCAAGGACTGTCTTGATGAGTTGGCTTGTGCGTAAGTGGAGGATGGATAAACATAGTATGAGGCTGGGTATGGGGCTTAGTGGCAGGGC
CCTAGCCTAACATCCGCGAGGCCCTGGGTTCTATATTTGGCACCAAAAAGGTGTTTGCTATTCTGTTCCTTTAGAATAGAAAATATGAATGAGA
CCTGGTCACTAGGTAAGAAAATATATATGTTTTATGTTTTTTTATGTGTATGAATGTTACGTCTTCATGCATGTGTTACAGGTAGTTGTGGCCC
ATCATGTGGGTGTGGAGAATCAAGCCCAGGTCGTCTGGGAAAGCAGAGCCATCTCTCCAGCCACCTTACCCTCTTAAGACAGAGTCTCCCTGTC
CCGTAGCTCTAGCTACCCTAGAACTGCATACGTAGACCAGGCTGGCCTCAGACTCATGGAGATCCATTTGCCTTTCCCTCCTGAGTGCTGGGAT

SAGRES DISCOVERY 02-26

TAAAGACAAGTGCCAAGCCAGGCATGGTGGGTGGACCTCTGTGGGTCAGAGGCCAGCCTGGCTCACATAGCAAATTCTAGGATAGCCAGAATTA
CATATGAAACCCTGCTTCAAAATAATAAAATACGCTAGGCAGTGGTGGCGCACACTTTTAATCCCAGCACTTGGGAGGAGAGGCAAGCAGATTT
CTGAGTTCGAGACCAGTCTGATCTACAGAGTGAGTTCCAGGACAGCCAGGGCTACTCAGAGAAACCCTGTCTCGAAAAACCAAATAAATAAATA
AATAAATAAATAAATAAATAAATAAATAATAAATAAGCAAGCAAGCTAGGCAGTGGTGACACACACCTTTAATCCCAGCATTTGGGAGGTAGAC
CCAGGTGGATCTCTAAGTTTGAGACCAGTCTGGTCTACATAACAAGTTCCAGGACAGCCAGGGTTACACAGAGAAACCTTGTCTTGAAAAAGAA
ACAGGGCAGGAGAGGTGTCTAATGGCTAAGAGTACTGACTGGCTGCTTTCCCAGGGGTCCTCATTTCAACTCTCAGCAACCACATGGTGGTTCA
TGACCATCTATAGAGAGATCTGATGCCCTTTTCTGGCCTGCAGGTGAACATGCAGCAGAGCACTCATATATAAAATAAAATAAAATAAAATAAA
GTCTAAAATGTTTTTTAAAAGCAACAAATATTAATAAAGACATGCACCACCATGCCCAACTCCCTATTTTTAAACTTATTTTTATCTACATGT
ATGTGTGCTTTTGTGAGTTTATGTGCACCGTATGTGTGCAGGTTCTTGTGTAGGCCAGGGCCTGTTGAATCTCCTGTAGAGTTACAGACAACTT
GTGAGCTGCCTGGTGTGGTTCTGGGAACCAAACCCTGATCTACAGAAGAGCATTAAGCGCTTCAATTTCAGAAACTACAATCTGAATGGCTTAA
AGTGAATGGGTGAGGGAAATGGATTGAAAATATTCTCCCCACCTCGGGTTTTCCATACTTAGCTCTTGGTCTAGGGATGTAGCAAAGCTGGTAG
GATTCTTGTCTAAAATTCACTATGTCTTAGGTGGATCCCTAACACTACACAAACTGGGTATAGTGGTGTGCACCCTAATCCTTGCACTTTGGAA
GTTGAGGCAGGAAAATTCAGTCATCCTTAGCTACATTGTGAGTTTGAGGCTCCTCTAGTCTATAGGTTTCTTGATTAAGAGACAAAAGCTTTCC
TATCCCATGTGGCTCCCTGAGAGGTGGGATGTGGGACCTAAAGGGATGTCCAGTGAGTGTTTGAATCTGTTGTTCTGACCACACCGCTCTCCCC
GCCCCCTCCCCACTCCCAGCTGGGGCACAAAGGCAGAGCTCAGTCATTGGAACTGGTGATGCAGAGACTGGGCATGGTGGCTGTGGCAGTGAAG
GCTGTGGCTAGAGTGGACAGAAGAGATGGTGATGGTAGCGCTTGGAGACAAGACGGCTGTGATGGTGATAATGAAAGTCAAGACTAGCGTAATG
GCAACTGTGAGTCAGTGGCTGTAACTATGATGGAGATGGTGGGTGTGGTGACGGGAGTGACGATGGCCATGGTCATGGCGGAGGCGTAGCCAGA
GTGAGGGTGGGAGTGGTGGCTTTGACGGAGGTGGTGGTTTGAGAGATAGAAGACATGGTGAAATCGATGGATATATTAATAAGATTGTAGAGAT
GGTAGCTGCAGATGTGGTGGAGGTGGTGTCTGTAGAGATGGAGGTAGCGGTGTCTGTATTATGGTGGACATGGTGGCTGTATTGGTGGTGGTGG
TGGGGTGGAGGTGGTACTGGAGACAACATAGCTGTAATCATGGTAATGGCAACGGCAATGATTGTGGAAGTGATAGTAACAACCCTGGAAGTTG
TACTGGTGGAGACGGTGTCACCGTGATGGTGGAGATAGCGGTGAGAATGATAGTGGTTGTGATATGGAGGTGGTGGTTGTCGTGATCGTGATAA
TGGGGGGCAGCCATGGTGGCGGTGGTGGGGAGGCCTTTGCAGGAGAGCGCTCCCTTTTCTGATGCTTTCACTTTAGAACAAGGGAGGGTCACGC
AGGGTCCCACCCACCCACCAACCTGGGACCCAAGACTAAGCATAAGAACGATTAGAGCCTTCAGGATGCCTAGGGTGTTTGATGAGTTTCTGAA
GGCCAGACTTGGGGCAGGGCACACTATAGATGTGACTGGAGTGTGGGACAGGGAGGACCTGTCAGTGACTTCCATGGGGCAGGAGTGTGTTGCA
GAGCGGGAGAGTCATGGTGGAGCTGTGGAACTCAGGCACACCCACCTTCTGGGACTATCTTTAAAGGGTTGCCTGGTGCCTTTGGCCCATGCAG
GAAGCTCACTAATGTTAGAGACAGTGGTTTCCAGATAATTATCTAGTAACTGATCTTTTGAGAGGAAAGCGTTATCAAAAGTCTGCAGGCTGGG
ATGTGGCTCAGTGGTAGAGTGCTTGCCCATCATGCATTAAGCCTTGGGTTTAATCAGCAGCAGTACAGAGGGGTAGGCACTGATTTACTGTGTC
TGCTGGTGCCCTGCAGCTGACTCTAAGCTACCAACATGACAGGGTTGAACACAGAATTGGGGGCAATGCACAGTAGCCATTGTCTCTGTTCTTC
AGCTGCCTCAGACAAAGACACAAGTAAGCTCAAGCCGGGGCCACAGTACAACACGTCAGAGCACTGAGAAGAGACTCTTGGGTTGTGTGTACCT
TGGCTTTTGGTAGAACGTGATTATTGTTAAGTGTGAACAATTTAATTTTGTTTTTGTTTTTGTTTTGTTTTTCAGGACAGGGTATCTCTGTGTA
GTCCTGGCTATCCTGAGACTTGGTTTTATAGACCAGGCTGGCCTCAAACTTCAGCGATCCTCCTGCCTACTGCTCTTAGGTGCTAAGATTAAAG
ATGTGTTCTACCACACTGGCTAGTGCAATTTAACTTTAAAAAAAAGATGTATTGCTGGGCGTGGTGGCGCACGCCTTTGATCCCAGCATTTGGG
AGGCAGAGGCAGGTGGATTTCTGAGTTCGAGGCCAGCCTGGTCTACAAAGTGAGCTCCAGGACAGCCAGGGCTACACAGAGAAACTCTGTCTCA
AAAAAAAAAAAGATATATTATTAATTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATGGACATGTGGGTGTCAGTGGAATCCAGAGGCA
TTGGATCACCTTGGAGCTGGAGTTAAAGACTGTTGTAAGCTGACGTGGGTGCTGAGAACTGAACTCAGTCCCCCTGGAAGAACACTATATGCTC
TTAACCATTGAGCCATTTCTTCAGTCCTATGAATTAATTTTCTGTTACACACACACAGACACACACGTATATTTAAATTTATTTATTTATTTATT
ATTTCATATATGATTACACTGCAGCTGTCTTCAGACACACCATAAGAGGACTACAGATCCCATTACAGATGGTTGTGAGCCACCATGTGGTTGC
TGGGAATTGAACTCATGCTCTCCGGAAGAGCAGTCAGTGCTCTTAACCGCTGAGCCATCTCTCCAGCCTACATCTATATTTAATAACTAACAAG
CTAGCTACCTTCTGACACACTTGTCAGTTGGCTCTTGAGGACAAGTGAAGGCCGGCTACAGCTTGACACATGCACACAGGTGACTGCCACTGAG
CCCTGGCTGATGGTCCCTGGAACTTCTCTGTTCCCCACAGGCGAATGTTCCCATTCCTGTCCTTCACCGTGGCCGGGCTGGAGCCCACAAGCCA
TTACAGGATGTTTGTGGATGTGGTCTTGGTGGACCAGCACCACTGGCGGTACCAGAGCGGCAAGTGGGTGCAGTGTGGAAAGGCAGAAGGCAGC
ATGCCAGGTACAAGCTTCGGGAGTGGTGGGCATGCGTTTCCTCCTAGACAGGGCGCCCCCTGGTGGATTACTCAAGCCCTTACCCCGATGTGAA
GGATTGAACCCTACAGCCTATCCACCCACCTCACCCTTCCTTTGGCTTCTTACCTCTTCTCTAATTTGATTTAACTGAGGTGGGGAGTGGGGGA
GGGAGAAAGAGACTCACTCTGCTCAGTCCTCTGCCCTTATCTGCCCCTGCTCAGCCTGTCTGTCCTCTCCCTTGCATCTTTCTCACGGTCCACT
CAGAAGAGGCAAAATCCCACATCTCCAGTGTCTGGTCGATACTTGACAATAAGGTTAACTGTCCACAGGGAACCGCTTATATGTCCACCCAGAC
TCCCCCAACACCGGAGCCCACTGGATGCGCCAGGAAGTTTCATTTGGGAAGCTAAAGCTCACCAACAACAAGGGGGCTTCCAACAATGTGACCC
AGGTAGGATTGTCAGACCCACCTGCCTATATGTCTGAGATCTACCCCCTGACATTTCCTAAGACCCACTTTGTACTGTTGGAGTCTCGTCTCCT
CTCCTCTCCTCTTCTCCTCTCTTCCCTACATAGCCAAGGATAACCATGAACTTCTGTTCCATCTGCTCCTGAGGGTGAGATCACAGGCATGCAC
CACCAGGCCTGATTGATGTGGTTCAATCAGATATTGCACCAGACTAGACAAAGGTGCTAGCAATTGAGCTGCTCTATGCCCCGGCTCCTTTTCT
TCCTCTCTATGAGTCTTTCCTACCCATCTTTGGGAGACAATGAGATGGGTGGACACTGGATCTCTGGCAGTGGTTGCTCCTGGGTCAACACAAG
TCAGAACAACATGAGGGCTTCTTCACTAGATCATGATCTGTCACCGAGATGGTCCTAGAGCTTCAGGGAATGGATGTTCAGTGTGAAAGTGACT
TTACATTGAACAATTATGGGTCTTGTTTTGGTTTGTTTTACACATTTACTTCATCCATCCATCCATCCATCCATCCATCCATCCATCCATCCAT
CCATTCATCCATCTATCCATCCATCCATCTATCCATCCATCCATCCATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCT
ATCTATCTATCTATCATCTATCTACTTATGTAGTTATTTACTTAGTAAGTTACTCAGTTAGTTAGTTGTGGGGGAGTAAGTTGCTATGATGATGTGT
TTGTGGAGGTCAGAGGACAACTTGCTGAAGTTGATTCCCTTTTTCTACCACGTGGATCCCAGGGATCAAACTCAGGTCGCCAGGCTTGGCAGCA
AATGCCTTTATCTGATGAGCCATCTCCACAGACCCAGTCCTGTTTTGTTTTTTTGTTTTTTGTTTTTTTAAATTAAACAACAAAACAAAACCTG
GAGCTGGAGAGAAGATTCAGTTGGTAAAGTGTTTCCCTTGAAAGACAAAGACCTGAGTTTCATCCCTAGAACCTAGGTTAAAAGAGAAAAGAAA
AGCCAGTTGTAATGGCATGAACCAGTTATTTAAACACTGGGAGCGGGTGGCGGGGACACAGGTGGATCCCTAGGGCTCACTGGCCAGCCAGCCT
ACTTGGTGAGTTCCAGTAGGGATGCTTAGGGGAAGTTGCATGGTGGTAAGGTGGTCGAAGCCACAAGATGAACTCAGGCATCCTTTCTAGTCTG
TCTCACTGTGGGGCTAGTAGTTACGTAGGAGAGTGCATCTAGAGATGAGGCCAGCTTGAGGTCAGGAGGACCTTCCTTCCAGCTCCTTCCGTGA
CCCTGTCACCCCCTGGCCCCTCTCCAGATGATCGTCCTGCAGTCTCTCCACAAGTACCAGCCCCGGCTGCACATCGTGGAGGTGAATGATGGAG
AGCCAGAGGCTGCCTGCAGTGCTTCTAACACACACGTCTTTACTTTCCAAGAGACCCAGTTCATTGCAGTGACTGCCTACCAGAACGCAGAGGT
GAGCCCGGGGACGGGCATCTGCCAGAGGGAGGGTGGGACAGACTTCTTGAGGAGGAAGAGGGGACTCAGAGAACTCTATTTCCCCGTCTCTAGA
TCACTCAGCTGAAAATCGACAACAACCCCTTTGCCAAAGGATTCCGGGAGAACTTTGAGTCGTAAGTGTTCTGAGTTCAAATCCCCTTTGGTCT
TTCTGAGATGGGACTGTGGTTCAGTGCTCAACATGCCCTGTCTCTGCTTCAGGGGTCTGGGGACCATCATATTAGAAGCCTAATATAGCCTTGA
TCTCTCTTTCTCTCTCTCTGTCTCTCTCTGTCTCTCTCTGTCTCTGTCTCTCTGTATTTATTTTATTTATACGAGTACACAGTAGCTGTCTTCA
GACACACCAGAAGAGGGCATTGGATCTCATTACAGACGGCTGTGAGCCACCATGTGGTTGTTGGGAATTGAACTCAGGACCTCTGGAAGAGCAA
GCAGCCAGTGCTCTTAACTGCTGAGCCATCTCTCTAGCCCCCTCATTCATTGTTTTTATTTATTTATTTTTAGCATGTACGCATCTGTTGA
TACGAGTGTCCCCTCGCCACCTGGACCCAACTGTCAACTGCTTGGGGGAGACCCCTTCTCACCTCTTCTATCCAACCAGTATCCTGTTCCCAGC
CGTTTCTACCCCGACCTTCCAGGCCAGCCCAAGGATATGATCTCACAGCCTTACTGGCTGGGGACACCTCGGGAACACAGTTATGAAGCGGAGT
TCCGAGCTGTGAGCATGAAGCCCACACTCCTACCCTCTGCCCCGGGGCCCACTGTGCCCTACTACCGGGGCCAAGACGTCCTGGCGCCTGGAGC
TGGTTGGCCCGTGGCCCCTCAATACCCGCCCAAGATGAGCCCAGCTGGCTGGTTCCGGCCCATGCGAACTCTGCCCATGGACCCGGGCCTGGGA
TCCTCAGAGGAACAGGGCTCCTCCCCCTCGCTGTGGCCTGAGGTCACCTCCCTCCAGCCGGAGCCCAGCGACTCAGGACTAGGCGAAGGAGACA

CTAAGAGGAGGAGGATATCCCCCTATCCTTCCAGTGGCGACAGCTCCTCTCCCGCTGGGGCCCCTTCTCCTTTTGATAAGGAAACCGAAGGCCA
GTTTTATAATTATTTTCCCAACTGAGAAAATGCCGCTGAATTGGAAGGTGCCCACTAACTTAGAAAACAGACGCGGGGCTGAGAGCCCCGAGCT
CTTCCCCATCCCTTCCCTGTATAGTGATTGGTTGGAGAGGAAGCGGGGCAAGAAGGATTCTGGGGTTTACTTCTTGTTTCCTGGCCCACAAGGA
AATACGACAGGAGTGTCCCCTGCCCCTTTCTCTGCCCGAACTACAGTCACGAACCTGGTGCTGCTTCTGACCCCATGGTTCCATGGAGAACGGA
GAATGGACTCCAGAGAGTTTTGGACCCAGAGGGACTTCATGGCTTTCTGCGAGGTGGAGGGGTCGGGGTGGGGAGTCCAGGAGAGCTGCTCTCT
TCCCCTGTCCAGTCAGTAACTTTCAACTGTTGGTCTGACACCTGTGTTAATCTCTGACCTGAAAGTGAAGATACACGCATTTTTACAACAGCCA
GCCAAACAGAGAAGACTCAGGTGACTGCGGGCGGACTGGGCCACCTGCGAGGAGACAAGAGAGGGTGGGTGCAGAGGAAGGGTTTGAAGGGTGC
ACATTTCACCAGGCGAGGTCACTTTGAACCGGTGTGTACACACACGGGTGTCTCTTTTTTATTTCTTCGGGAGGGGGGAGGCTATTTATTGTAG
AGAGTGGTGTCTGGATGTATTTCTTCTGTTTTGCATCACTTTCTGGAAATAAACATGGACCTGGTAAACACGCCCTCCTTCTGTGGCTGGTCGG
TAGGAGGTGTGTGTGTGTGGATCAAAGTTTGCTGATCTAGCAAAGTTGTCCTGTGGGCTCTTGATTTTGGGGGGTAACTGCCAGGAACCTAAAG
TGACCCCACTTAGGGATAAACTCAGAGTATGTCTTGTCCTCAGCACTCCAGCTGATGGTTCATGCCACCACATGTGACCAAAGGACCAGCCCCT
CAGCCTATGTTGCCTGCTCAGAACCCTGGAGGGAGGCAGTGTGGGAGCAAGGTTAGGACCAGGCTGGGTCGGGTGGAGTTTAGGAAAGCCAGGA
CTCTTGATTTATCTTTGCATCACTCTCCATTTTTTAGGAGTTTGTTCAAGTGTTAAAGGCATAAGTAGAAATTATACCATGTGATGTTGCCACT
CTTTTGTAGGTCACGATCAGGCATACACTAGCAATTCCACATGAGTCACCTTAGTACACACTCGGGCAGGATTAGCGCTTGATGAAGTCCTCAG
TGTGGGAGCTGTCATTGTGAACTGGTGTGCACTCTCCTCTCTCTTTTCCCCCCACCCCTCTTATTTAGTTTTCATTCATAACCATAAACTTAAC
TCTGAAATCCAGCTAGACTTGGAGGGGAAGAAGGGAAATATGGGACCCCAGGCACTTCAGTGAGAGCAGAGATTACAGGGTGTTGCGAGCAGAT
GACGTGGGGGTGCTTTCCTGAGCTACAGAAGAAATGGTCTGGTGGGTAAGATGCTCGAAAGTCAAAAGAATTAGAGTTGTCCATGGTTGGAAGT
GGGGATCTTATTTTCCTCCTGGTTTTGCCATTCCTGGACCCCCAAACATTCCATGGCTTCCACGATGTTCATGCCTTCTCTCCCCTTCCCCTCA
GTCTTGGCAATGCAGGTAAAAAACCAGTGGGAAGCATTAATGTTTGGTCCAGCATTTGCATGGACAAGATGCCAATGACCGGGGTGCTTCAGGA
TGAAGTTCTCATGCTCAAACTTCTCCCTGTAGATGGACCTGCCGCCAGTGCCACGGTGGTGTGTGACATCACCACCTTGGCACATGAATCCTAG
AATTACTCTGTGAGAGTAGGAACCCTTACACCCAAATCCTATCTCTCCAGACAGAGCTCAGAGCACGGAAGTTCTCTGCTGCCTTTGGAACTGT
GTCTACAAACAGCTTCAAGATTATGTTGTAACCCAGGCTGGCTTCCAATTCACGGTGATCCTCCCATCTCATCCTCCCAAGAGCTAGGATTACA
GACACAAACCACCATGCCCAGCTTTCTAGCTCTCTGTTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAATTTGAGTCAG
GGGTAAATGGCTAGTTGCACAGACTGACCACCCAAGCTTGATGCCTTGAATTCATGCAACAGCTGAATCTGGTAGCACACATCTGCCATCCCAG
AGCTCCTAAGAGATGGGAGGCAGAGACAGGAGGGTGTGCTTGGCAGCTTACCAGATGACTGGCACAGTAGGACAGTAGGAAAACAGTGGGGAAG
AGAACAGTTTTAACTTGGCAAGAAGAGAACCAACCTCAAAAGATTGCTCTGATTTCCAGGTTGGCCTTACAACATAGACCAGGCTGGCCTCAAA
CTTACAGAGATCCACCTGCCTCTGCTTCCTGAGAGCTGGGATCAAAGATGTGCCCCACCACACCCAGCTGTGTATGTGTATATTTGTGTGGGTG
CCATGGAAACCAGAAGTGGGTATCAGATTCCCTGAAGCTGGAGTCAGATGTGGTTTTGAGCCTCCAGATCAGTAGGAACAGTGGGGAAG
CTCAGGCCCTCTGTGACATCATCAGATGCTCTCAACTGATGAGCCACTGCTCCACACCCTAAAATTAAAAAAACAAAACAATTCAAGCCAGTTG
AGGTGGCAAGTGCCTGCAAACTCAGCACTCGGGTGACTGAGACAGGAAGGCAGACAGTTGGAGACCAACCCAGGCTGCACAGTGAGACCCTATA
GTGAGGAAAAGAATAAGGACAACTGCAAATGATATCAAATTTTGCTACACTTGAATAACTGACATTACCATTCAACGGGTTAGACAAACAGAAA
TGGTTTATAAAATTGTGACCCTACAGAAATCACGTTTTTGTCTTAATGAAAATGATTNNNNNNNNNNNNNNNNAAAAAAAATAGTCTTTG
AAAGGAACGCTGTAAGGTTAAGAAAGGTTTTTTGAGCTAGAGTTATAGATAGTTGTGAGGCACTATGTGGATGCTGGGAATTGAACCTGGGCCC
TCTGCAGGAGCAACCAGTGCTCTTAACCACTAAGCCATCTTTCCAGTGCATTAAATTCTTTTGTATTCATTTACTTGCTCATTTTTATACGGAT
TAGTGTTTTGCCTGCATCTATGGCTGTACACTTGGGTAGAGTGCCTGATGCCCACAGAGGTCAGAAGAGGGTGTCAGATGCCCTGAGACTGGAA
TTTCAGAGGGTTGTGAGCCACCATGTGGGTGTTGGGAATTGAACCTAGGACTCTCCAGAAGAGCAACCAGTGCTTTACCCACTGACCTATCTAG
CTCCACACCACAAACTCCTAAGGCATTTCTCCACTATGTTTTAGTCGATACCATCTCTCTTAGGAATTATGATGCTATTTTGATTCATGATCAT
CCACTTTAAATGTAGGTGTTTCTTTCATCTTCTGTGTTCTGAATATTGAATGGCACATGTTGGTTTGAAGTCTTGTGGCAGGCTGGGAGTGGGT
ATGTGCATGTGGGTGGATGTTACTGAGGCTCAAACCCAGGGCCTCGGGTGTGCTAGGCAGGCACCCCACCAGAGAGCTACATTTCCAGTCTCAT
CGATGTTAAACCAGGGGTTCTCAACCTGTGGGTCTCGACCCCCCCCTTCCAAAGCACTGATGATTACGTTGCGATTCAAAGTTATAGTCATGAA
GCAACAAGATGATTTTGTGTGTGTGTGAGGGCAGTTCTCACCACAGCATGAGGAATTCTACTAAAGAGTTGCAGCATTAGGAAGGTGGAGAATC
AGGGCTCTGGATTCTCTTTCACATTGAAGTCTTAAATACTGGGTGATCCTTATCAACTCACATTTAGTAGCAAGGCTCTGGTAGTCCCTTTAAG
AGCACTTGGGTGTATAGGAGAAGTGGCTATCTCTCACGGGCTTCCCATAGGGTGATCCGGGAGGGTGACCCTGCAGAGAAGCTGGCAGTGGGGT
GCTGGATCTGACCTCGATTAGCTTATGAAGCCTGAATGTATTGAATGCGGTGGCACCTTTAATCCCAGAGGCAGTTGGCTCTCTGTGAGTTCAA
GACCAGCCTGGTCTACATAAGTGAGTTTCAGGACAGCTAGGGCTATATATTAGAGAAACCCTGTCTTAAAGAACAACAACAACAAAAGACCCTC
AGGCCACACTCGCATGCAATCTGTTCCTTAAGACAAAGAACTAACAGGTGCCAGCCATACCTGTTAAGAGTCCTTAACTCTGAGGGAAAAGCCA
GCCCAGCTTCACCCTCCCTCCCTTTCTCTCTTTCTCTCTCTCTCTCTTTCTCTCTCTCTCCTCTCTCTCTCTCTCTCTTTCTCT
CTCTCTCTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTGGGACAGAGTTGATGAGAAATACTGGACTGTGGTCTTAC
AGTTCCACCTTATAGTCCTGTCTAGTGCCTTTTCTGTGCCCCTTGACAGGTAGGCAAGGTTAGACCATGTAATATGAAGCTTGCCCACTGAAAA
CCTGTAAGTGTCAGAAACTGCTCTCTTCATCTGCATTTGAAGGAATACCTCTCCTCTTTCCACCTTTAAGGATCCATTATGGCTGTGATAGTGT
AACTGATAGTCTGTGAGCTCAAGGGTCTGAGTGAGCCTTCATGTCCCTTCATGCCCCATCATACTAGACATGGTGAGTATCTCTCCTAATGAGG
CCACTGTCACTTCTCAGGGCCCCATGTCATGAAGCTGTTGTGAAGGGTGACCTCATCTCGGCTCCTTTCTATGAATCTGTCCATTCTCTCTTAA
GTTGAAACAGAACAAGTATAGCTTTCCCTCACGGCATCCGGTGGCATCAGGTTGGTAGCTTGACATCGCCCATAGTGGGAATATTTACACTATG
GGAATAGATCCGTGCTGCAGTAAGGCACAGCCCCTCCCAAAGAGCTTGTTTCCTAACGCAAACTTGAGAGTTGGCATCCCCTGCAATATGAGTG
CACGGAGAGACCCCTCCTGAGAGGATCCATTCTCCACAGGAAAGCCCCCAGCAGCTGACAGCGCCCTGTGAGTGGGGCAGGAGAATGGAAAAAA
TGGAAGGTCACTTTTTTCACCCCCAATTTCTATGTGTTTATGGTGTGTGTGCATGCATGCATGTGTGTATGTGAGTGTGTGCACGTGCAT
GTGCTATGGCATGTGCACTGAGGTCAGGGGACATCCTTGGGTATCAGCCCTCCCCTCCCACCTTGTTTGAGACTCTATTATTTTTCTACCGTGT
GTATAAATTGCTGGCTTGTGAGCTTTTAGGGATTCTCCTGTCTTCATCTATCATCTCCTGGGAGCACAGGGATTACAGGTGTGTGAACTGCGTG
CCAAGCTTCTCCATGAGTGCCGGGGACATAAACAAAGGTGTATCACCTTGTATGACAAGGGCTCTTACTCACTGAGCCATCTCTCTTGACCCTC
TGTGACAAGTGTGACTTTGATTTTCTTTTTCCATTTTGCCAAACCGCTCTTACTACCTTTAGGCTCCCAAGTCCTGCCTTTCTCCTCCTCTCC
AGAGAAGGACTCTCTGCTTCTAGGTGGGGATGCTGGTGAGACGGCTCTGGGCGCTCAGCGTGAGAAGCAGACATGAGCATCTTGTCATGTCTGA
ATTCAGACTTCTGATCATCTACTAGTTCTCTGCAAGGGGCTCAACCCCCTCCTTCCACCGCAGCTGACTGCCCCTTGGGGGATGAATCAGCTCC
CTCGTTGCTAGGCCTTTTAGAAGACATGCTAATTCTCTGCTCCATTTTGTGCAATGGTGTTATTCCCAAGTCATTCTCAGCCACATAGAAAGCT
AGAGGCCAGCACAGGCTCCATAAGACCATGTCTCAAAATAATCTGTGAGATCATAGTCCTTATTTTTAAAAATTCTGTCCCCAACCTCTCCCTC
AGTAGGTCAGGTTTATATGATGGGAAGGGGTCTCCTCTTGTGCCTCACCTTATACCTTATCAGAGCTTGGTGAAAGGGGCTTGTTACATGGAGG
AGATGGGATTGAGAGTAGCTAGCAGATTCGGGTGGCCTTCAAATGGAGGCTGCGTGAACTGTGTTGTAATGGAGCTGTCAGGGAGATGGGCATG
TGGGAGGGGTGGGGTCCTTAGTGCTGTGTTGCTATGAGGATACAAGCCATGACCAAAAGCACGTGGGGTGGGGGGAGAAGTTTTTATATTTAGT
TTACACATTCTGATCTTGGTCTATTATTGAGGAAATATAAGGCAGGAGCTGAAGCGGGGACCATGGAACAATGCTGCTNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTTTCTAGC
ACAGAATTGTCTTCCCAGAAGTGGCACCACTCAGAGTGGACTATGCTCTCTCACAACAATCAGACTTGCCTACAGGTCAATCAAGTGGAGGCAG
TCCCTCAGTTGAGATGCCGACTTCCCAAATGACTGGAGTTTATGTCAAGTAGACAAAAATAAAATAAAATTAAATTAAATTAAAGCAAATTAAA
TTAAAGTAAAATAAAAATAAAATAAAATATAAACACTCTACTAGGCATCTATACTCTCATTTCTCTGGAATCTGAGGCAAGAGAGTAGCCATGA
ACTCAAAGCAAGCCCAAGGTATTGAGATGAGCGTGAACCTATCTCAGTGCACAGACACAGGAACACAGTGTTAGTGTTGGTGGCCGGAGCAAGA
GCACAGGAAGAAATTCCCTGGTCCCAGCTCCTCTGAGGTCGTCCTGATGCTCCCTGCGTCCTGCAGCCACTGCAGGTGCTGGCGGCAGCGTCCC
TTTGGTTTGGAGTGGGCGTCTGAAAGTCTTCAGCACATGTCACTGAGGATATCCTCGCCCAGTCATGGTAAGCAGTCTCTGTGAGCAAGAGGGC
AAAGACGCGATGTACGCACTTCCTTTTATGGGAAGATGCTACCCAGCTCTTCCCACAGCAATATCGGCTACCCAGGCTGGGGGTGGGATGGAGT
CAGAGACCACATCTCACCCCTGTGGACATCATTTTCAGATCAAGAAGGTGGTGTTGTCGTTCCTAGATCTTGCTGAAGTTTTTGTTCTCCTTTT
CCTTTTGAGACAGGCTTTCCTGCAGAGTTAAGGAGACAGTTCTCTGAGACAGGGTTTCTCTATGTAGTCTTGGCTGTCCTGAAACTCACTCTGT
AGACCAGGCTGGCCTCGATCTGTGTGAAAGCAAAGCTTGTGGAGTTTGCTACTGTATACTCCTAACCATGGAGTTAAAGTCAGAAAGATGGCTA
GTGATTTTTTTAAAAATATTTATTTGTTTATTTCATGTATGTGAATACACTGTTGCTGTCCTCAGACACACTAGAAGAGGGCATCTAATCCCAT
TACAGATGGTTCTGAGCCACCATGTGGTTGCTGGGAATTGAACTCAGGACCTCTGGAAGAGCAGTCAGTGCTCTTAACCGCTGAGCCATCTCTC
CAGCCCCCGTGATGTTGTTCTTCTTGAGGATGCAGGTCCTATTCCCATCACCTATCTAGCATCTCATAATCAACTGTAACTCCAGTCCCCGGGT
ATTCGATGCCCTCTTGTGGTCTCTGTATGCACAGATATACATGCAGACAAAACACCCATACACATAAAAATAATATAATTTAATTTCTTATTAT
AAAAACTTTGGGAGCTGCTATGAGTTCAAGTGTGACCTGCTCTTCACATGGAATTCTGGGCAGGCCAGGGCTATGTAGTGAAAACCTGTCTCAA
GAAACAAACATTACAGAGTAGGTCCATATCTTATGGTGCTCAGAAAATGACTTGTGGTTCATTCTGATTGATCTGCCAGACATGGGCAGTCAAT
TTGGCTGTGGAGTTGGAAGCTGACTGATGGGCACAATCTGGGAGCAAAAATGAACCCAGATTAGTTTAATTATCCTGGGTGATGATAAAATGAG
GGAGATAGTTCTTTAAAGGAAATTCATATGAGAGTTCTTTGTCTATCTGTCCATCTGTCTGTCTGTCTCTCTATCTCTCTCTGGGTCTCTCTGT
GTGTGTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
CATATATGAGTACATACAAATATAGGTATGTGTGTGTGCATATACATATTGGAGCTGCCAAAATGGCTCAGCATTTGCAACCAAATCTGATACT
GTAAGAGTAAAACGTAAAAACAAAATTCTAGGCCTTTAGGCCCAGGCTTGGGAATAAGGCCTTTGTCCTTTGTGACTCAATGTTCCAAGGTATG
CTAATCCTAAAACAGATAGCGACATCCCTCCACCCACCCACTTCCTGGGTTCAAGGAGTATTCATTCAAAGAAAGTCACCCTGACCTACCCTGA
CCATTGCTGGAACCCGCTATGCAAAGGTGCTATTGTTAGGGGCTCTTAGAAACTGTCTTGAGAAATAACCCTCACAATTACCAGGTATTCCTCG
TGACTCTTGTGACTTTGCACTTCCTTGTGACTCTTAACTGGCATCTTTGGTATTTTTTTTCCAACAATGCCCTTCCCACCTCCTTGAGTTGTGG
TTTCTTCCTTTAAATACCCCCTTATCCAGCTACTCGGGGCGTCAAGGTCCTCTACCCCTGCGTGGTGTATGACCGTGGGCCTGAGAGCGCTCTT
GAATAAAAATCCTCTTGCAGTTTGCAGCAAGACCGTTTCTTGTGGGTGATTTTGGGGTGTCGCCTCTCCTGAGTCAGAACGTGGGGGAGTCCTC
ACGTTGTGGGTCTTTCAATACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNN

SAGRES DISCOVERY 02-26

MOUSE SEQUENCE - CODING

ATGGGCATCGTGGAGCCGGGCTGCGGAGACATGCTGACCGGCACCGAGCCGATGCCGAGTGACGAGGGCCGGGGGCCCGGAGCGGACCAACAGC
ATCGTTTCTTCTATCCCGAGCCGGGCGCACAGGACCCGACCGATCGCCGCGCAGGTAGCAGCCTGGGGACGCCCTACTCTGGGGGCGCCCTGGT
GCCTGCCGCGCCGGGTCGCTTCCTTGGATCCTTCGCCTACCCGCCCCGGGCTCAGGTGGCTGGCTTTCCCGGGCCTGGCGAGTTCTTCCCGCCG
CCCGCGGGTGCGGAGGGCTACCCGCCCGTGGATGGCTACCCTGCCCCTGACCCGCGCGCGGGGCTCTACCCAGGGCCGCGCGAGGACTACGCAT
TGCCCGCGGGGTTGGAGGTGTCTGGGAAGCTGAGAGTCGCGCTCAGCAACCACCTGTTGTGGTCCAAGTTCAACCAGCACCAGACAGAGATGAT
CATCACTAAGCAAGGACGGCGAATGTTCCCATTCCTGTCCTTCACCGTGGCTGGGCTGGAGCCCACAAGCCATTACAGGATGTTTGTGGATGTG
GTCTTGGTGGACCAGCACCACTGGCGGTACCAGAGCGGCAAGTGGGTGCAGTGTGGAAAGGCAGAAGGCAGCATGCCAGGGAACCGCTTATATG
TCCACCCAGACTCCCCCAACACCGGAGCCCACTGGATGCGCCAGGAAGTTTCATTTGGGAAGCTAAAGCTCACCAACAACAAGGGGGCTTCCAA
CAATGTGACCCAGATGATCGTCCTGCAGTCTCTCCACAAGTACCAGCCCCGGCTGCACATCGTGGAGGTGAATGATGGAGAGCCAGAGGCTGCC
TGCAGTGCTTCTAACACACACGTCTTTACTTTCCAAGAGACCCAGTTCATTGCAGTGACTGCCTACCAGAACGCAGAGATCACTCAGCTGAAAA
TCGACAACAACCCCTTTGCCAAAGGATTCCGGGAGAACTTTGAGTCCATGTACGCATCTGTTGATACGAGTGTCCCCTCGCCACCTGGACCCAA
CTGTCAACTGCTTGGGGGAGACCCCTTCTCACCTCTTCTATCCAACCAGTATCCTGTTCCCAGCCGTTTCTACCCCGACCTTCCAGGCCAGCCC
AAGGATATGATCTCACAGCCTTACTGGCTGGGGACACCTCGGGAACACAGTTATGAAGCGGAGTTCCGAGCTGTGAGCATGAAGCCCACACTCC
TACCCTCTGCCCCGGGGCCCACTGTGCCCTACTACCGGGGCCAAGACGTCCTGGCGCCTGGAGCTGGTTGGCCCGTGGCCCCTCAATACCCGCC
CAAGATGAGCCCAGCTGGCTGGTTCCGGCCCATGCGAACTCTGCCCATGGACCCGGGCCTGGGATCCTCAGAGGAACAGGGCTCCTCCCCCTCG
CTGTGGCCTGAGGTCACCTCCCTCCAGCCGGAGTCCAGCGACTCAGGACTAGGCGAAGGAGACACTAAGAGGAGGAGGATATCCCCCTATCCTT
CCAGTGGCGACAGCTCCTCTCCCGCTGGGGCCCCTTCTCCTTTTGATAAGGAAACCGAAGGCCAGTTTTATAATTATTTTCCCAACTGA

HUMAN SEQUENCE - GENOMIC

ACCATGTTGGCCAGGATGGTCTCAATCTCCTGACCCTGTGATCCTCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGACATGAGCCACTGTG
CCTGGCTGATACTTAACTTTTTTATATCTCAGTTTCCTTGTCTGTAAAATGGGAACAATGGTTCCCACCCAGTTGCCTTCACACCATTGTGAAG
TCTAATGAAATCAAAGGTATATTGACTAGTCTTAACCAAAAAAAAAAAAAAAAAAAAGAAGAGAGAGAGAGAAAGAAAGAAAGGAAATAAAG
GGTACGAGTTGCCTGGGGATGTTCTTTTTTTTTTTTTTTTTGACAGTCTCTCTCTGTTGCCCAGGCTGGAGTGCAGTGGTACAGCCTCAGCTCA
CTGCAACCTCCGCCTCCCGGGTCCAAGCAATTCTCCTGCCTCAGCCTCCCTAGTAGGTGGGATTACAGGCACCTACCACCACGACCAGATAGGT
TTTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTGGTCAGGCTGGTTTCGAACTCCTGATCTCAAGTGATCTGCCCACTTCGGCCTCCC
AAAGTGCTAGGATTACAGGCATGAGCCACTATGCCTGGCCGGGATATTCTCTTATCTCATCCTTTACCCCTCAACCCAGAGTGGTGATAGGAGG
AGGGGGTTAATTAGGAAGAACTGGGGTTTTTACAGTTTCCAAACTCACTGGGAGTCAAGGATTGAGACAAAGTACAAGCTAGATTTGGCAACAT
CCAGGGTCATGCATGGGAACCTGGGAGCCCCATGCCCCACTGCCTATTTGCAGGGCCCTGGGTCTTGGGTGGCCCTAGTTCAGTGTGTGCATGT
GTGTGAAATGCAAGGTGATGAGGTCAGTATCTCAACTCCCAGTTACTGGTCCAGTTGCTAAGAACTTGCCTGACCATAACCATCCTTTCCCAAC
TCACAGAATGTCAGGTTCTGATGCCAGTGATTGGAAAGAAATGGCGGTGAGCAAGGAGAGGGGGCAATGCTGGGCAGCCATGCCACCTTTATGT
CCCCTGTGGCCAGAGACGTGGGTCCAGGGCCCTTCTCAGTGCCCAGCTCGGTCCAGCCAGCTGCCCATGGCCCTGGTGGGAGGAGGTAGGCTGG
ACGCCTTCTGACACTTCCTGGGTAACTGAGCGGGGCAAGCAGCAAACAGCAGGCTCCTGGGGAAATCTCAGACTTGTGTGTCAGAGCGGATCTG
TGTCTGGGGTGGTAAGTGGGGTTAAACTCAAGGTCAGACCTAGCCAATCCATTTTCGCGCCAACATGGCCTTGGGTGTCCTCCATTCCAGTGGC
TGGGACCCAGGTGCCCACTCAGCTGGAGACAGCACTGCTGGGAGCCTAATGCCTGGTTTGTCCCTCTGCTTCACACACTGGTTGCTTGCCTGAT
TTCTGCCTGTGCCTAGGATTTATAAGGAAGGGAGTTGTGGCATGGATCCCAGGCCTCCGTTCTACTCCCAAATTTCAGGTGCTAATCTCTCC
ATGAGTTTCAGTGACCTCAGAAAAGGAAATGGGATTAAGCTGCAATTTAAGGGGTTGTGGGAAGACAGCTGAAAGAATGTCCCAGTCTTCAGTA
GAGGAGGTGGGAGGTGGCTGTAAACTGCCTAAATCGGGGGAACACTACCAGGAATCTCAAATTGCTGTACAATGCAGACACAGTCAATCAGCCT
CCACCTACTTAGATCTCTAAGTGCTTAGAGATCACCAACCTGTCCCAGGCTCCTGAGTCTATTACCTCACTCCTCCTTGTTCTCTGCCTTTCCC
AGGCTACTGTGGTTATGATTTGTGGCAGAAGTTGGGAAGGCAGAAAAGGAGAGAAGGAGGGAAAAGGACAATCTGAGAACAAGCTGGAGGGCCA
AAGTGGACCCCTTGCAGAGTTGGCAAGATGGCAAAGGGGATGCAGTGGCAGGTGAATTAGTTCAGATGGGCAAGAAATGTAGGATAAGTCAGCA
AGCTGCCTTTGCGCAGGAGATCCCTAGGTGAGAAGGTAAGAAGGGCTTCCACATGCGGCAGTAGCCTCAGTGTTTCTGGAATGGAGTTTGTATA
TATGTTGTGGGTGGGGTAGGGGGAACAGAAGAAGAGCTGCAGCATCCTGCCTTTGAGGAGGAAGATGGTACAACAGGAAGGCCAGGAGGTGGGC
TGCAGGTAAAATGTCCCCGTGAGACAGGGTTGAGGGAAGCAGAGGGCCAGCTGCTGGGCCTGCAGCCTTCTTGCCCCCACTCCCAGCTCACCCG
CCCACTGCGAACACTCCTCAGCTCCCCCACCCCATTCTGGCCCACAGCCCTGGGGAAGCGACATGGCGTTCTCACCACGGACCCAGTGCCGGCT
GTGGCTTCTTCCCTCTGACCTATTTTTTAATCATTTGATGGGATTTTTCCCCCCCAAACCAAACCCCCAGCCCCCTGGGCCCGTCAGCTCCACC
GCGTGTCAAAACCACCCCTGTCACTTTGCGTTGGTTTCTCAGTCCAGCCAGCCCCTCCCCGCAGGGCCTGAGAGCGATGGCTAATTACCCAGCT
GCTGAACGCCCCCCACTCCTGCCCCTCCACCCCTAGCCCTGACAGAGGGGCCCTGGAGGACTGCTGGGAGAAGCTGGGGCCTCCTCACCCTCCC
ACTGCTTGGCAGGAAGTCCTTCCTGCTGTCTAACCTCCATTCTTCCCTCTGTCCTGCCCCTAGTGGTGCTGAATCGCAGACACAGAGGCTGTTG
GTACTATAAGGGTCTTTGGGATACCTCCTTAAGGGACAGAAAGGGGCAACTAGTCTTCTGTCCTGGGTTTAGGGATGTCTTCTGTCACTCTGGC
TCTCTAACAGAATTCTAGGGGATGGTCCTTGCTGTCTCATTTTACAGAGCAGAAAACTGCGACACACAGAGGGAAAGGGCCTAGCCCAAGGTGA
TCTACGCCAGTGGCGGAGCCAGAATCAGAACCTAGAGTTCCATGTTTGTCTTTCCACCTGTTTCTGGGTCCTGTTTCTGGTATGTAGAGGGCCC
ACCCCCACATACCAACTAGGTCTGTTTCTGTTTCTGTGCAACTCCGCTGCCAGCCCTGAGCAGGTGTGTTCCCTGCCATGCCCTCTCTCCCTTG
CCCCCTGGCCACACAGAGCTTCACCCTGGCATTTCAGGGCTGGGCAGCTTGCTTCAGGCACTATTTAGGAATGGGACTCTTTCCCCCAATACCA
CCCATGCCCTTTTCCCTCTTCCTCTCTCATTCATCCCTAACCAAGTCCGTAAGTCTGCTCTGTCTCACCCGCACCCTGAGACATTAACCAGGTG
GACAAGGCAAAAAGCTCTAGGCCAGACACAGGAAGGCCAGAGCCAACTCACAGATGAGGCCTAGTCCCAGATGGACAGATAGACATGCAGGAGA
TACATGGAGCGCTGGATAGCCCTGGAGACACGGACAGTGACATGAGACAGACACAAACACGCTACAGAGACAAGGCAAGTTCCGA
GGCCCACAGGTAACAGACAGACACAGAGACGCAGACAGAGGCACAGAACCTACACTCAGGACCAGCGTGCAGACCTCTCACAGGTCCCAGGGAT
AGGAGTGGACGTAAAGAGGATACACAAGACGCAGGCAAAAACACAGGGACCCAGAGAGGGGCCGAATCAGACCAGAGGAACCCAGACACTCAGG
AGCCCTGAGAGACATGGGCACACAGGGCTGCCCACAGATCCCAGGAAGCCAGAGAGAACCTTGGGGAGAGAGGAGGCCCCAGGGGGTGGGTGGC
CCTCTGAAGGACAGCGAGGCCTGGCCTGGCAGAGCCTGACTGTGCCAGGAAGTCATGCCAAGATGGCAAGATGGGAAGCAGAGAGGAGCTTGGC
AGCGTGGGGGTTAACCCCTCAGCCTGTGCCCTCCCTCCAAGTCCCTTTTCCTTGGCTCTTCTTTTTCTTCCCTCCTCTCCCAGCTCCTTTTACC
CAAAGCCCTGGATATTTCCCGCCTCCCCAGCCCAACTCCTGGTAACCAGACCCTGCTTCCTGCCTGAGATTAAGGGCCTGTCTGCTGAGAGGCA
GGAAGGGTGGGGGCACAGCCTCTCCCCAGTGCCTCCTGAAGCTTGGGCTTGCCCATCCATACTGTGGCATGCCCTCCTGATAACAGAGTTACCC
AAGTACCTGATGTCTGAATATCCCTTCAGGAGGGCGCAGGAGCCCTAGCCTGGGAGTGCAGCGGGGGCGGCCTACTGCATGCGTGGGTGTGCAT
GGAGGGTGTGGGTCTTATGTGAAATGCTGGCAGGGGTGAGAGCAGCTAGAGATAGAGAGAGGATAGATGATTCAAAATAAGATGCCACGGAGAA
GGAGGACTGAAAGGCACCCAGGCCTGGCCTGGAGCCCAGGGGTAAGGGCCGCTCAGGCTTGGTGGGGGGTGTGTGGGGAAGGGTGACCCAGCCT
GCAGATGAGAGCCTGGAGCCCTTGACCTTGGGAGGAGCCCTCTGTTCTGTGTTCACACTGACCACCTGGTGCTGGGTGCTGGGGACTCGGAACT
CCTGCAGCTGTCACGGGGCGGGGGGGTTCTACAGGTGCTTGTCCCTCCCCTTCCCCCCTCTCTGGCTGTTAATCTGATGGTTCCGGCCATGCCC
TCTGAAGGACTGGCAGTCTGGGCCCAGAGGGGGAGGGGATTCAGGGCACGCGGGGTGGGCAGAGTCAGATGCTGAAGGAGCTCTGGGATGCTGG
ATGTGGGGCAAGAGCAGGCGGTGGGGCTGCAGGGACTGGATCGCAGAGATTTCCCTAGCATAGCTCTGCATGGGGTGTGTGTGCACATGCGTGG
ATGATGGCGTGTGTGCACGTGGTGTGTTGTGAGTCTACACCCCAGGAGCAAGAGGGCTGAGGGGGTCACTTTGCTAGGAGCTCTTTGGGGGCAG
GGACTGACCCTAATTTATCTTTGTGATCCCAGATCTCCAAGGGCCTGGCTTATCCCAGCGCTCAGGTACCCAGGGAATGGTATATGGGTATCAG

GAGGGGAAGCCTGTCCCTTTCTAATATGTGAGTCTTATGAACAGAGGGGCTCTCTTTTGGCCCCAGGCCCTGAGTGGAGGCTGAGGATGGACCT
GAAGGACACTTTGTGGATGAGCCACTAAGCCAGAGGGAGGAAAGGGCAGGTGTAAGTGGCTGGGAGTAGAGGAAAGAGGGCTTAGCACAGTTTA
TGCCTCTGTTTTGTTTCAGCCTTAGGACAGCATCCCTCAACCTTCACATGACAGACCCAGTCAGTCCTGGCAGAGGTCTGATAGCTCCATTTAC
TGACAAAAAAAACCCAGAGAGGTTAAGATACTTTAATAGGTAGCACAGCCAGTAAGGGTTGGGATTGAGGTTCCAACCCAGCCACCCAACTAAG
TCTCCCCACCCCATTTCTCTCTGCCCCAGCTCCAGCACCCCCAGGCCTCTCTGCCTCTGCAGACTTTCCTCCCATTGGCCCATCTCTGTCTGTC
TCCTTTCTTTCATGCCCCTCTCGCAGGCCCAGCCTGAGACTTTCCCACTGAGTCACGATCTGGGTCCCTGACTTTGTGGTCCCTGTCCCTCTCT
GGGTCTAAATCTTTCTTTCAGAAATGCACCCTAAGCCTCTCACTTTGCTCTCTCTTTCTTTTCACGCCTTCTCCCCAACTCGCTGCCCCCTCTC
TTTTACTATCTACCCTCTCACAGCCTCTAAGGCTCTGCCCAGCAGGGTGGAGGGTGGAAATCCTGGGTCCTGGTGCCATGCTCCACTAA
CAGTTTCCAGTAGGCTGGGCGTGGTGGCTGATGCCTGTAATCCCAACACTTTGGGAGGCTGAGGCGGGCAGATCACGAGGTCAGGAGATCGAGA
CCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAAATTAGCCGGTCGTGGTGGCATGTGCCTCTAGTCCCACCCACCACG
GGAGGCTGAGGCAGGAGAATTGCTTGAACCCGGGAGGTGGAGGTTGCAGTGAGCTGAGATCGCACCACTGCACTCCAGCCTGGGTGACAGAGCA
AGTGACTCTGTCTCAAAAAACAAAACAAAACAAAACAAAACAAAAAAACAGTTTCCAGTAATAGCCGCTCCTCCCCAGCTGCCCCACCAAACCC
ATCCAAGAGCCTTCCAGGTGCCTAGGGAGCTCAGCACTCCATACGTTTTCAGGAGAGGACCCAGGTGGCTGGTAGACTCTGGGGTGAGGAATCA
TCTGGTCCTAGAGCATCAATAAGGAAATCTCAATGCCTGCAGCCACCCTCCTCAGGCATGAAACCTCCTCCACCGCCCTCAGTGTGCATACCCA
GCAAGCTCAAGGCACACTGACTCGCAGGATGGGACTTGGAGATGGGACAGCAAAATGGGAGGGAGCCTGAGAGTGGGGTGCATGGACTCCCTGA
AGTCCAACGCATCACCTGGAGTCCTTAAACATACAGATTCTAGAGACCCGCCACAGGCCTGGGCCTCAGAATCTCTAGAAGCAAGTCCCAGAAA
TCCACATCGTTGTGGCTTCCTGGCATAGTCTGCAGCCCACAGGTGAAGCAAGTGCTGTGTGACCTTCGGGGAGCCTCTCTCATTTTGAGTCTTC
ATGGGAAACAGTTTGAAAGGAAGCCCTGAACGTTTGCAGAGGACAACAGCGTGGAGAGAACCAGTGTCTAGGCTGTGGGATTAGGCATGATTTT
CTTTTCTGTTTTCTAAACCTTTTCTTTTCTTTTTCTTTTTGTTTCTTTGAGACCGAGTCTCCCTCTGTCACTCAGGCTGGAGTGCAGTGGCACA
GTCTCAGCTCACTGCAACCTCCTCCTCCTGGGGTCAAGTGATTCTCTTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGGGCCAGCCACCACA
CCTGCTAATTTTTATTTTTGTTTTTGTTTTTGTTTTGAGATGGAGTCTTGCTCTGTCTCCCGGGCTGGAGTGCAGCGGCACGATCTCGGCTCAC
TGCAACCTCTGCCTCCTGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCGCCCATCATGCCCAGCTAATTTTTG
TGTTTTTAGTAGAGATGGGGTTTTGTCATGTTGGCCAGGGTAGTCTAGAACTTCTGGCCTCAAGTGATTTGCTGGCCTTGGCATCCCAAAGTGT
TGGGATTACAGGCATGAGCCACCACGCCCGGCCTGTTTTCTAAACCTTTTCCAGTGTTAGTATGATTCTTCCTCATTCTTGTGGGAAGAGCACT
GGCCTGGGAGTCAAGAGACCTGGGTTCTAGCTTCAGCTCTGCCACAAATGCACTGTGTGAGTTTGGTGTCTTATTCCATTTTGCATAGTTACCA
TCCACCGTGTCTCATAAAATGTGATGCTGGTTGGAGGCCATGTCTCTCTCATTCCTGGACACTTATCTTGTGTTTCTTCACTCCGGTCTCACCA
GGACCAGCCTCATAATGCTCCCTGTATTGATGGGATAGAGAGGGCTGGGAGGAGCAGCCATGGGGAAGTGAGGGGATCCCAGGGGGCCTCATCT
CCTCACTCCTCTTCTCCCACCTTTCCAGCCCCAGGGCCCGGGAGGAGGGTGAGGTGGCAGCTGGAGGAGAAGGTGTCACTGCCAGGGCCCTTAT
TCTCACCCAAGCTGGCAGAGGGGCGGGACTGGCAGCAGTGACACCAGGGCCACTCAGCCCCCGCTTTTCACAAGCACTTTCTTTTTTGGGTGGA
AGAAATTGGAGAGAGGGGGTGAGAAATCGGGGATTGAGGAACCAGGCTGTAAGACCCTATAACAGCCTGTCAGGTTCTAGAGAGACCACCCCCA
GCCTTCCTCTTCCTCCAGAGGCATGGCCCCAGGGCCACCTGATTCTGAGATTCATAATTCCACCTGCCCCAGAAAGCTGGGTGGGAGCTCATGT
CATCCTGTTCAGAGGCAAGGGGATGAATCACTTGACCTGAGGATTAATGTGGAAAAGAGGAGGGGGAGAGAGAGGGAGGAGCAAGACTCCATTT
GATCTTCAACAGCCAAGCACTGAGCAAAAATGTCCCCCAAAGGGGTGTCAGCATTCAACAGTCTCACATCTCCTAGGGAATCAGTCATTCAGGA
GGGTCTTACTGAAAGCTCTCATGTTTCCCCAAAAGTAGTGAAGGATCCCAAGGTCACCCTCTCTTCCAAGCAATGCTGCCCCACTTTGAACATC
AGGCAGAAACTTCCCTGTTCCTTAAGGTACGGAGAAATGGTGGGTAAGGTGTTGGGGAGGAGGCCAGTCCTGTGTTTCTGGTACTGTCATGTAT
CCGGTCTCCAACCTCAAAAGATGTGCTGATTCTCTCTCCCCAAGCCTCCCTGGGTCATGCCCACCTCCTGGAGTCCCCAGCTTTGCCTTTGCC
TGCCAACTTGCCTCTTGGTTCAGCTCTATTTGGGAGCAGAGAGTCCCCATAGGCCCCTAAGGGTGAAGCCCTGTCAGGCTGGGACAGAAATGTA
GAGCTGGGGCCAGTTCCCAGGGGAGAACTGGGGAGGACTGGGGTGAAGGTAGAGAGAGGAGAAGTTAAACTTTAACATGACAAAAATATTAAAG
TATTTTTCAAAGTACTCTTAAAAATGTAAATCTTTATCTATATACTGATATGCAAAATATTCCATGACACCTTGTGGAGTGAAAAAAAAGTACA
CATTATAAAGCAGCATGTGTAGTGTTTATATAAATTATATATTTGTGCATGTGTGCAAAAGACAGAGACAGAGAGTATATAAGGAGTGAGGTCT
CAGAGGGTGTTCACTGAAATGTTAATCCTGTTTGGCTTTAGGGGGTGGAATTTGGGGTGATTTATACAGTCTCGTTTTTACTTTTCTGTGCTGC
TTAAATTTCCTATATAAGTATGTTTCATCTTTATACACAGGAAAACTCCCAATGATGCTATTTTCAATTGGGGGGGGGGAAACGGATAGTTTTC
ATCATAAAAGGAGTCTAATACATTAGTTAACATAAAAGGAAAATGGAGAAAGAAAAGCCTCCATCGTCCTATCTCCGAGGCAGCCCTTCAGAGC
ATGTGGTGGGTTTCCTTCCTGTCAGCCGGCTCTGAATCTGTTCAAAGCAGCTTTTCCATCCAGGTATAATAATAGATTGGAAAGTGCTGCACAC
GTACACCCTCTCATGTAAGGCTTGCAGCCCCCCTGAAAAGTAGATCTGTTTATTTCCCCCAGTCTATGGATGAGGCACGTGAGGTTGACTTTCA
GGCAAGGAAAATGACTTGCCTGGGTCACATATACCTGGCAGGCAGAGCCAGACCTGGGACTCTCAGCACTGGCAGCCCAATGCTACTTCCAGTG
CCCATGACTGCCATGCAGGGTAGGGGAGCTTTTGTGGGCCCTGCCAGGCCCAGCTCAGGGCCCTGCAAACCCCTGGCTGCTGCTGATGCAGTGC
GCTTTAAGGAACATTTCCTGTTGTCCATCAGGTTCCAGGTCTGCCCCCAGGGCTAGAGCTACAAGATGCAGCCAACTCAGCACATGTGGACCTC
TGGTGGGGAGAAAGAGGGCAACCCGAAAGGTCACTTAGCACAGAGTCTGGGCACACAGTAGGTATCAATAAAGATCGATTGAATGTTCATGGTC
AAAGTTGCTTCTAGTGTGCCCGTGCTCCGAGCCTCTGAGTGCCAGGAGAATGCCCAGCGAGTCCCACTTGGGCCATCTCGGAAGGCTTCCTGTA
GGAGAGGGCCTTTGAGCTGAGACTTCAAAGCTGGGCTGAATTTCCCCGAGGGTCCAGAAGAGAGCCACGGGCTGGTGTGTCAGGCAGCGGAGCT
GACACTCCCAGAAAGCAAGATCTTCGAACTACAGGGTGCGCGCAGGCTCTCGCTTCTCTCCACCATGGGGGGCCCTGCAGTACTCGCCAAGAGC
GTAGAATTTGCCTAGTATTAGCCACGAGAGGGCGGGGTGGGGCGAGGCGGAGCAGGGCCGAGGTGGCGGAGTGGGGGGGAGCCGGAGAGCTTCA
TAAAGCCACAGCAAAGCGCTGCGACTCTAGTGACAGCGGCCCGCTGGAGAGGAAGCCCGAGAGCTGCCGCGCGCCTGCCGGACGAGGGCGTAGA
AGCCAGGCGTCAGAGCCCGGGCTCCGGTGGGGTCCCCCACCCGGCCCTCGGGTCCCCCGCCCCCTGCTCCCTGCCCATCCCAGCCCACGCGACC
CTCTCGCGCGCGGAGGGGCGGGTCCTCGACGGCTACGGGAAGGTGCCAGCCCGCCCCCGGATGGGCATCGTGGAGCCGGGTTGCGGAGACATGCT
GACGGGCACCGAGCCGATGCCGGGGAGCGACGAGGGCCGGGCGCCTGGCGCCGACCCGCAGCACCGCTACTTCTACCCGGAGCCGGGCGCGCAG
GACGCGGACGAGCGTCGCGGGGGCGGCAGCCTGGGGTCTCCCTACCCGGGGGGCGCCTTGGTGCCCGCCCCGCCGAGCCGCTTCCTTGGAGCCT
ACGCCTACCCGCCGCGACCCCAGGCGGCCGGCTTCCCCGGCGCGGGCGAGTCCTTCCCGCCGCCCGCGGACGCCGAGGGCTACCAGCCGGGCGA
GGGCTACGCCGCCCCGGACCCGCGCGCCGGGCTCTACCCGGGGCCGCGTGAGGACTACGCGCTACCCGCGGACTGGAGGTGTCGGGGAAACTG
AGGGTCGCGCTCAACAACCACCTGTTGTGGTCCAAGTTTAATCAGCACCAGACAGAGATGATCATCACCAAGCAGGGACGGTGAGTGCGGCGCG
CCGGCCCTTGGGGCCTCTGTGCCCGCGCCGGAACAAGAAGCGTCTCGTCTGTTTTTCTGGCTCGACAATGCTTCTGACTCCGTGTCCCTCACTGC
TTTGGCTTCAGCGTAGGGAGACAGGGGAATGGGGTTGTTAGGAGGACAGGGAAAGCTCCGGAGGGGCGTCTGTGCCCAGGCTGTTGCACCAACA
GCCAGAGGACTCACAAGGGAGACGGGTGAGTGCGGGACAGTGAGAAGTCACCTTGATTTAGGGGAAGGGTGACTGTGGCTTCACCTAGAATTGG
TGTGCGCCCCTGCCCCACTCTCTACTGTAGAGGAGTCGCAGCGGGCAGTGAAAGCCTGTGCTCTGGGCGGACAGGACGCCTGGGCCTCCTGTGT
GGGAAACTGGAGGGGAAGGGAGCCCCTTATCTCCGGGCCCCCTGCGCCCACCTCCCCCGGCTCCTTTGCTGCTGGTGTGCTCAGGTCAGCTTTA
GTGGTGGTAGTGGTGGTGGTAGCGGTGGTGGTGTGTGTACGGGGGGAGATTGGGATTTGGTGACATGGAGAAGCAGTCGCCAAGTTTCC
TTTCCGGTCTTACTTTGAGATCATATGTCTGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATGTGTGTGGG
TGTGTGTGTATGGGGGCTAGTGCAGTAAAGCTTGTAGGGGGCACAGATCCCTTCCAGGCACAAATGCCCACGGGCTGGGCAGATGAAGCTCACC
CAGGGGTCCAGCCTGGTAGCCAGCCCCACACTGCACCCTTTGAGGCTGGTCCAGTGAAAACCTTCCCCACACTCCTGTCCAGAAATTCACCGGT
TCAGCCTGGAGAAGTGGGGAAGGGGTGTCCCATGGCTTCATGGCTCAGGGTTCCTGAGCCCCGTGCGTGATGGGGAGAGTTTGGGGCTGAGGGT
GCTGCTTCCGGATAGAGCCTCCTGCGCAAGGAAAGAAACAGAAACCTGTGACTTGTGTGGTATTTGTTTAGTAAGCAACCCCCGGAGTGGACTG
TGTCTGATGTGGGCTGTGCGCACCCACCTTCCCAGTGCGGCCCATGTGAGCAGGGGACCAGCGAGGACCAGTGTGGAAGGGCTGTTGTCATTG

GTGGACCTGGGATGCTGGGTCCCAGGTCCGAGAGGTGTGGATACCAAACGTGGGGCTTGGGGTGGAGGGGAGAGGGAGAAGGCCATGTTGGACC
CCAGAGGTTGGTATTCGATCTGGGCATTGCTGGAACATTCTTCCCTCCAGATGATTTTTGTGGGGTAGCCTGGGACTGGGGAACCTGTTGCCAG
CCACAACTGGCTTCAAGTTACTGAGCTGTTCCACTTTCCCTGGGATGAACCCAGGAAAGTTGGCGTGTTCTTTGATGGCTCAGCCTTCATCTCT
TAAGCCTTCTGATAATTTCTCTCTGCTCCCCCCAACCCTAGTCACCCTTTGGGTGTACCCAGACACAGCCCAAGCTTCTGGTCCCAATGTGTCT
GAATTGGAAGGGACCCAGAAGATCCTGTCCCTCTCACTGCACAGACAGGGAAACAGGCCCAGAGATAGCAAGAGACTCTTCCAAGGTCACACAA
CACACTCATTGCAGGCAGAGCTGGCACTACAGCCCAGATAGTATTTGCTTGGGTTTCTTTCTCTGGCCCCCTACGGCCACCAGTAAAAACAGCC
ACCCACGCTCTCTGAAGGCCCTGATGCATTCAGAGTGCTTTCACTTCCATTATTTCACTGTGCGTTAGGTAGGCCAAGCAGTCTCCCCATTTTA
CAGTTGAGGTCACTGAGTTGCAGGGTCAGCTAGGGGCTTGCACTCCATCACACAGCAGACCAGAAGTGGGGCCTCTTAACCTTCCACTCTGTTG
TGTGGTCAGGAGGACTTCCCACCCTGGGCCCTTGCTGGGGTCTCCCCACAGCCTCTGCCAGGCCTCTGCCTCCTCCTGCCAGTCTTGAGGGATG
GGGTGGATGGAGCATCAGCCAGCACTCTAGGGAGTTGGCCAGTGCTAGGGGGCTGCCTCTCTGCCTGTAGAGCCAGCTTCAGGGAGGCTGTAGA
GCACTTCAGGGAGGCACTTGAGGGGATGATTCTCGAAGTGTGTATCACCATCTCTACTCCCATGGCCTCCTTTCCTTGGTGTTCCTGCTGAGTA
ATTCTCACTTGACAAGTTTTTTTGTCCCCCTTTTAGATACATACACTTACATTTTTTTATTATGAAAAATTCCACTACATACAAACATGGACAG
AAGAATGTAACAGACTTCCATCCCCAGCTTCCACAGTTGTCAATATGGGTCCAATCTTGTTTCTGCATCCTCACTTCGCTTCTTCTGTCTGCAA
CTATATTAGTAATATAGTAATTACTAAGTACATTCTAGATATTATTTTATCTCTGCACCTCTAAAAATGACTTTTTAAAATGAATGCATTACCA
TTAGCAAACCTGAAAAGAATTTCCTAAATATCACCAAGCTTCTCTGATTGCTTCATAAATGTGTGTGTGTGTGTTTTCCAATCCTCACACTT
TTTGCTCCATTCTGAGGGGCTCCATACGCGGGGTCCCTGTTGAAGGAGGCAGTGGCTCTTCACTGTTTCTTTTGGTGCTTTTTCTTGGATCAGG
CTTCATAGACCCCACGCTGCCATGGAGGGGACAGAGGACACACAACCCCAATTCAGTCCCACTAGCCCCAGGTTACCTCCATACCTTCTCAGCT
TGGGCTCCTGAGATCTGGGAAATCAGTGGCCATTTCCTCTCAAAACAGGCTTTTGGGCTTATAGCACAGCTTCCTTTCCGTCTTCCTGCTTTTG
TGGGCTGGCCTATCCCTCCGTGGGTTCCAGTGACCCACCAGTCACACCACATCACCCATGACCTTCTTCCTTTTGAAAGGTTCTCCCACCTCA
GGCCCACCTACAGCCTACAGCCCCACGGCTTTTTGCCTTGAGCTGACTCACGCCGTCCCGGATTCTTCCTCTCCCACCCACCCTGGATCTATCC
CTCGGTATTGACCAGCGCCAGTGGCATGCTCTTCCCAACGGGCAGAAATGGGGCAGGGCACAGGGGGTGATTCCTGGGTCTGGAGATTGATCAA
GGCAGCTCAGATGGGGCTGAGAGAGGGGAACTGAGAACAAAACGGTGGATTATCCCAGTAGGAGACTTTGGTGTCTACGTTTGTGTCTGGAGAT
TTGGGGCAGCCTGATAATGCCCCACACAGGCTTGTGCGAGGGTTTCTGTGTGGCAGTGTGTGTGTGTTGCGAATGTGTTGGCGAGTATATAATA
GTTGATGGTAGACATTCTCAGTAGAGGAAGAGAGAGGCCTGTGTCTCTGTGGGTGTGTGGGTGTGTATTAATTGCTGGCAATCCCCACTTTCTG
GGTGTGATTGGTTGATTATTATAATTAAGATAACTTTGGGTAGCTGTGTTGTGTTAAGCTCAATCTGCATTTGGATTTGTGCATGTGAAGACAG
AGGTTGGTAAAACAACAATTTCAGTCCCACACTATCCTTGCTATCCTCACAGTCATTACAATTTTTTTTTGTCTCCACTCCAAGA
ACTTTAATTTTTTTATTTGTAATATTTTTCATGGGCCAGGAAGTGGACTTGAACCTCCCACATAGATAACTTTAGTCGATAACTTTCTACATCT
TTTTTTTTTTTTGAGATGGAGTCTCACTCTGTCCCCCAGGCTGGAGTGCAGTGGCTCAATCTTGGCTCACTGCAACCTGCACCTCCCAGGTTCA
AGTGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCAGAAGCCACCAAGCCCAGCTAATTTATGTATTTTTAGTAGAGACGGGGT
TTCGCCATGTTGGCCAGGCTGGTCCCAAACACCTGACTTCAAGTGATCCCCCGCCTCGGCCTCTCAAAGTGCTGGGATTACAGGTGTGAGCCAC
CGCACCTGGCCCAACTTTTCAGATCTTAAAAAATTTTTTTTAATTTATTTTTTATGGAGACAGAATATTACTGTGTTGCCCAGGCGGTCTCAAA
TCCCTGATCTCAAGCAATCTCCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCATTGTGCCCAGCTAAAAACATTTTTTTTAGG
CTTAAGCATGCTTAACTGGTTTCATTTGTCTTGGGGCAAGTGAAAACAACTTTAATTAAAAATTTTTTTTAAATGAGACATGGTCTTGCTCTGT
CACCCACGCTGGAGTGCAGTGGTGCGATTATGGCTCACTGCAGCCTCAACCTGCTGGGCTCAAGCAATCCTCCCATCCCAGCCTCCTGAGAAAC
TGGGACTATAGGCGCACATCACCATGTCCGGCTAATTGTTTCTATTTTTTTGTAGAGATGGGGTCTCACTATGTTGCCCAGGCTGCAGCTTTGCT
TTTTGTCTGGCTGTTTGCCAGTGGCTGTCTGAGTCTATTAAGTGGATCTGAGGTTGGTAAGACGAGGAGTTCCCTTGATGCCCAAGCACATTTT
GTACTTTGGTAGGTACGACACATTGCCAGAATACCCTCCCAAAAGGTGCTACCAATTTACGCCCACACCAATAGTCTATGAGAGGACCCATTTT
CTCACAGCCTCATCAGCAGTAGATATTATCACATTTTTTTTTTTTTTGAGACAAAGTCTCGTTCTGTTGCCCAGGCTGAAGTGCAGTGGCATGA
TCTCTGCTCACCGCAACCTCCGCCTCCCAGGTTCAAGCGATTCTCCCACCTCAGCCTCCCAAGTAGCTGGGATTACCGGCATGCACCACCACGC
CTGGCTAATTTTTGTATTTTTAATAGAGATGGGGTTTCACCATGTTACCCAGGCTGGTCTCAAACTCCTGACCTCAGGTGATCCACCTGCCTCG
GCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACGCCGGGCCAATATTATCAATTTTTAAACATTGACCAATATGACTGAGAAGAACTA
TCTATCTCCTTGCTATTTTAATTTGCACTTAATTACAGTGAAGCAGAGCCTGTGCCAGGAGCTCCGAATCTGGGAGAGGTATGACGACCCTGTG
AACCATCCCAAGGCTACTTAGTTCTTAGGGCCAGCAGAGGAATTTGGGGTCTTGGACCCTGTCTTATGAGGGTGGGATGGTAAGTGGCCTTTAG
GGACGCTCAATTTGACACCAGACCCATCACCACTCTCGGTTCCTTCCCAGCAAAGTGTCATGTAAATCAGGGGCTATTTTGGGATTCCAGCTGG
TGGTGATTCTAGACTTTTAGGGAGAAACCGAGATCTCCTTTCTCTTCTCCCTTTTCCCCAGCCTCTTCCTGTGTCTCCATTTCCCTCTACTAGT
GATAAAAACAGGATGAGCTGGGCATGGTGGTGAGCACCTATAACCCCGCTCGGGTGACTCGGGAGGCCAAGGCAGGAGGATTGCCTGTGCCCAG
GCATTTGAGCAGAGCCTGTGCAGCATAGCAGACTCCATCTCTTAAAAAAAAATCAGTATGGCCTGGGCGCGGTGGCTCACCCCTGTAATCCCAG
CACTTTGGGAGGTCGAGGCCAGTGGATCACCTGAGGTCAGGAGTTCGAGACCAGCTTGATTAACATGGTGAAACCCCGTCTCTACTAAAAGTAC
AAAAATTAGCCAGGTGTGGTGGCGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATAATGGCGTGAACCTTGGAGGCGGAGC
TTGCAGTGAGCCAAGATCACACCACTGCACTACAGCCTGGGCAACAGAGCGAGACTCCGTCTCAAAAAAAAAAAAAAAAAATTAGCCAGGCGCAGT
GTTGGGTGCCTGTAGTCAAGGAGAATCTCTTGAACCTGGGAGGCAGAGGTTGCAGTGAGCCGAGATCACACCACTGCACTCCAGCCTGGGGGAC
AGAGCGAGACTCTGTCTAAAAAAAAAGAAAGAAAAAAATGAATATGAAGAAATGGGGACCACAGAGCACAGCATGCACTCTGCAGTCAGAAGAC
CTCACCTCTGCTCTCCCACCGAGGACCGTCACCAAACCTCTCGGAGCGTCAGTTTCTTCAAATATAAAATTGGAAATAACATTTTATTTTTTAT
TTTTTCTTTGAGATGGAGTCTCACACTGTTGCCCAGGCTGGAGTGCAGTGGCGCCATCTCGGGTCACCGCAACCTTCGCCTCCCAGGTTCAAGC
GATTCTCCTTGCCTCAGCCTCCAAAGTAGCTGGGACTACAGGTGCATGCCACCACACCAGGCTAATTTTCTGTATTTTTAGTAGATATGGGGTT
TCACTATGTTGGCCAGGCTGGTCTCGAACTCCTGAGCTCAGGAAATCCACCCTCCTCGGCCTCACAAAGTGCTGGGATTACGAGTGTGAGCCAC
TGTGCTGGGCCATCTTTCGAACTTTTAACAGCTTTCAGAGGAAAGATGGACAGGAGTTAGACTCTCCATTTACATGTGAAGAAACTGAGATTT
GGGCTGGGTGCAGTGGCCCATGTCTATAATCCCAGCACTTTGGAAACCTGAGGCGGGTAGACCACTTGAGGTCAGGAGTTCGAGACCAGCTTGG
CCAACGTGAAACTCCATCTCTACTAAAAATACAAAAATTAGCCGGGTATGGTGGCACATGCCTGTAGTCCCAGCTCTTGGGAGGCTGAGGCAGG
AGAATCACTTGAACCTGGAAGGTGGAGGTTAGAGTGAGCTGAGATCACGCCACTGCACTCCAGCCTGCATGACAGAGCGAAACTCCATTTCAAA
AAGAAACTGAGATTTGGCTTGAGAATTAACTTATCCAGGGTCATAGGGTAGTAATCTATTTTTCTCAACTCAGGAAAGTCAGGGGAAGACAGGC
GTGTGACAGCACCCTTCTAGGACACCTTCCCAAGGTTGTTAGGTAAGTTGTCCTGGGGACCTCTGGGGATTAGAAGTCCCTCAAAAACAGTTCC
TAGGCCCCTGGAACCCTCCCTCCTCCAGGTTTCCTGACTCAGATAGGTCCCTTTTTCCTCATCCTTCAGGGCTTCTCATGAGAGGAGGGGGAAG
TGTGTGGAAATGAAAAATAATTCTGATGAGGATTAGCTTCTGCCATTCTGAAACTCTGCTCTTCCTGCTTGTGTTAGAAGAGAAAGGCTAAGC
CATTGGAGCTGGTGATGGAATTGGTGCTGGTGGAGGTGGTGGTTGTAGTGACGGTACTACTGGTGGTGGTTGTGACGGTGAAGGTGGTGGCTGT
AGATGGTGGTGCCCGTGCTGGTGCTGGTGGAGATCGTGGTTATCGTGATGGTGGAGGGGGCAGTTGTAGTGACGGTGGTTGTGATGGTGGTGAT
GGGTGGTTACAGTGCTACTGGTGGTGATGGTGCTGGTTGTAGTGGTGGTGGTGACGGGGCTAGTGAAGGTGTTAGTGGTGGAGATGGTGATGGT
AGAAGAGTGCTTCTTTTCTGAATCTGTTACTCTGGCACAACAGCGGAATCATACAGCATCCCACCCCCTAACTTCCTCTACTTTTCCTGGAAAC
AAGGACTTTGAACATGAGCCCCGTGTTCAATAGAGCCTTCTTTCAGGTGGATGGGAAGCTCCCTGTTCAACTAGGATGTGTGCAACTTCTCTAA
AGGCTGAGGGCAGACTATACCGCAGGTGGCAGACCCAGGAGCATGGGAGAGGGAGGGCCTGTGAGTGGGTGTCATGGGTCTGGGAGTGTGTTAG
CACTGTGAGAGCCACGGCAGAGAGGGTGGCTGAGGAACTGAGGCGTGAGGACCTTCCAGGAACTGCCTGTGGAGAGCTGGTGGTGCCCCCTCCT
AGGAAGCAGCTAAGGTTAGAGACAGGGGTGTGCAGGTAGATGTCGAGCAACTGACCCTCTGAAAGAACATTTTAAAAAACTCTGATTTGTAGTG
TTTGCTGATCCCTGTGGTGTAAATACTCCTGCTATGGATGATTTCAAGCGACTCATGTGAGTCATTGAACACAGAGCCGGGAAGAGACTCACAG

TGCACTGTGATTTAGTACCTCCTCCATGCAGCTGCGATAGACGGAAGTAACCTCGACAGTGCAGACAATAGTAAAACGTAAAATAACTGGGCAG
TGATGATTTTTTAGTTTTTACTCCTTTTTTTTTTTTTTGAGATGGAGACTTGCTCTTGTCATCCAGGCTGGAGGGCAGTGGCGCGATCTCAGCT
CACTGTAACCTCTGCCTCCTGGGTTCAAGCCATTCTCCTGCCTCAGCCTCCTGAGTAGCTAGGATTACAGGCGCCCACGACCACACCCAGCTAT
TTTTGTTGTTGTTGTTGTACTTTTTAGTAGAGACGGGGTTTCGCCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCGCCCGC
CTTGGCCTCTCAAAGTGCTGGGATTACAGGCATGAGCCACTGTGCCGGGCCTACTTTGACTGTTAATATGTCTTGAATTGCAAGTTTATATAAT
TTAATTTTTAATTATGGCTGTGTTTAACCACTGGCTGGCAAACTCCCTAAACACCTTCCAGCTGGTTCTTGTGAGTGGGAGGAAGCCGGCTACA
GCACACCACTGATGCCTGGGCACTGTTGCAGGGGGGACTGGCTGTCAAGCTGGAGCTGATGGGTGCTGGGGGCTTTCTCTCTTCTCTCCAGGCG
GATGTTCCCATTCCTGTCATTTACTGTGGCCGGGCTGGAGCCCACCAGCCACTACAGGATGTTTGTGGACGTGGTCTTGGTGGACCAGCACCAC
TGGCGGTACCAGAGCGGCAAGTGGGTGCAGTGTGGAAAGGCCGAGGGCAGCATGCCAGGTGCGCGCGCCCCTGGGAGCGGTGGGCTCTGTTTCG
CTGGGACTGGGCGCCCCCTGGTGGGCCCACCAAGCCCCTACCCCTAATTCCTAGACCTTTAACCCCCTCCCACTCCATCCCACGCCATTGCATC
CCTCCTGTTTCTGGCTTCCTGCTTTGCTCTAGCCTGTCCTCTGCTGAGTCCTCTGCCCTTCCCTGCCTGGTCCTCCCCCCTGTGTCCTTCCTTAC
GTCCCTCTCGGGACAGGCAAAGCCCTACATCACCAGGGTTCTGTCCCGGGGGCTGCATGTCAAAGAGGTGAACTGTCCACAGGAAACCGCCTGT
ACGTCCACCCGGACTCCCCCAACACAGGAGCGCACTGGATGCGCCAGGAAGTTTCATTTGGGAAACTAAAGCTCACAAACAACAAGGGGGCGTC
CAACAATGTGACCCAGGTAGGACCTGCTCTTCAAAAGGTAGCCTCGCCCTGCTCCCCACCCTGGGTCTGAGACCTCCAAGGCCACAAGGGTCCT
GCGGGGCCAGTTTGGTTCATTTTTTCTTCCTTCCTACAGGAAGGAAGGTTCGTTTTTCTTCTGTCCTAAACGAAGGGTCATTTTTCCTCCTTCC
TAAACTCTGGCTGTTTCTCACCCACCTTGGGAGGAAGATGAGATGGGATGAAGCTGAATCTTGGACGGGGGTCATATTCAGGCCACACAGGCCA
ACCCAGCCTCAGGGTTTCTTCACCAAATCATGGGTTGCCATTGCTCCGGCACCATGAAAGGCACAGAGTTGGCCCTGTGGTCCCAGGGAATAGA
TGCCGAGTTTCTCTAGGTTGAACAATCCTGTTAAAAGTGCCCTTGCTGGCTGGGTGTGGTGGCTCACACCCATAATCCCAGCACTTTGGGAGGC
CAAGGCGGGTGGATCACAAGGTCAGGAGTTCAAGACCAGCCTGGCCAAGATGATGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCCAAGC
ATGGTGGCGGGTGCCTGTAATCCCAGCTACTCAAGAGGCGGAGGCAGGAGAATCGCTTGAACCCGGGAGGCAGAGGTTACAGTGAGCTGAGATC
ATGCCATTGCACTCCAGCCTGGGTGACAGAGTGAGACTCCGTCTCAAAAAAAAAAAAAAAAGAAAAAAGAAAAAAGAAAAAAAGTGCCCTTGC
CCTAAAGCCCTGTTTGTGCTGATACCTTGGTCTCAATTGACATCTGGAGGTAGAAGAGGGGCAAGAGGCTAGAATTGGTGCCCCAAAGAGTCC
GGACACTGGAGTTGGAAAGCTTGGGGGAAGTTACATGGTGGCAGAGCAGGGGAATGGACAGGATGACCTCAAGGTGCTTGCTAGCCTCACGTGG
GGCCAGCTGTTGGTGGGGGTGATGGGATCCTCGAAATCCTTCCTCCCCACCCCTACAACCGTCTTGCTCTGTCTACAGATGATTGTGCTCCAGT
CCCTCCATAAGTACCAGCCCCGGCTGCATATCGTTGAGGTGAACGACGGAGAGCCAGAGGCAGCCTGCAACGCTTCCAACACGCATATCTTTAC
TTTCCAAGAAACCCAGTTCATTGCCGTGACTGCCTACCAGAATGCCGAGGTGAGGGCTGCCTGAGCCCCGGTGGGGAGGAGGGCAGAGTGGGGC
CCACTGTCTTCCTTGGGAGGGATTTGGAAAGTTCCCGAGCCCCAGACTCAGGACTCAGGTGACTCTATTTCCCTTCTCTCTAGATTACTCAGCT
GAAAATTGATAATAACCCCTTTGCCAAAGGATTCCGGGAGAACTTTGAGTCGTAAGTGCCACTGGGTTCAACTCAGCTTTGGTCCCTCCTGAGA
CACATCCTCTCCCTGCCCCTGAAAACAGGAGGGTGGGGGACAGATGCTACAGGTGGGCAGGCCAGGGAAGGAGGGTCGGAGAAGGAATGTGTGA
AACAGGTAGGCTCACAGGTGACTGGTTCTGCTTGTGACCCGTTTTCTTGCCTTCTATTTTTTTCTAGCATGTACACATCTGTTGACACCAGCAT
CCCCTCCCCGCCTGGACCCAACTGTCAATTCCTTGGGGGAGATCACTACTCTCCTCTCCTACCCAACCAGTATCCTGTTCCCAGCCGCTTCTAC
CCCGACCTTCCTGGCCAGGCGAAGGATGTGGTTCCCCAGGCTTACTGGCTGGGGGCCCCCCGGGACCACAGCTATGAGGCTGAGTTTCGAGCAG
TCAGCATGAAGCCTGCATTCTTGCCCTCTGCCCCTGGGCCCACCATGTCCTACTACCGAGGCCAGGAGGTCCTGGCACCTGGAGCTGGCTGGCC
TGTGGCACCCCAGTACCCTCCCAAGATGGGCCCGGCCAGCTGGTTCCGCCCTATGCGGACTCTGCCCATGGAACCCGGCCCTGGAGGCTCAGAG
GGACGGGGACCAGAGGACCAGGGTCCCCCCTTGGTGTGGACTGAGATTGCCCCCATCCGGCCGGAATCCAGTGATTCAGGACTGGGCGAAGGAG
ACTCTAAGAGGAGGCGCGTGTCCCCCTATCCTTCCAGTGGTGACAGCTCCTCCCCTGCTGGGGCCCCTTCTCCTTTTGATAAGGAAGCTGAAGG
ACAGTTTTATAACTATTTTCCCAACTGAGCAGATGACATGATGAAAGGAACAGAAACAGTGTTATTAGGTTGGAGGACACCGACTAATTTGGGA
AACGGATGAAGGACTGAGAAGGCCCCCGCTCCCTCTGGCCCTTCTCTGTTTAGTAGTTGGTTGGGGAAGTGGGGCTCAAGAAGGATTTTGGGGT
TCACCAGATGCTTCCTGGCCCACGATGAAACCTGAGAGGGGTGTCCCCTTGCCCCATCCTCTGCCCTAACTACAGTCGTTTACCTGGTGCTGCG
TCTTGCTTTTGGTTTCCAGCTGGAGAAAAGAAGACAAGAAAGTCTTGGGCATGAAGGAGCTTTTTGCATCTAGTGGGTGGGAGGGGTCAGGTGT
GGGACATGGGAGCAGGAGACTCCACTTTCTTCCTTTGTACAGTAACTTTCAACCTTTTCGTTGGCATGTGTGTTAATCCCTGATCCAAAAAGAA
CAAATACACGTATGTTATAACCATCAGCCCGCCAGGGTCAGGGAAAGGACTCACCTGACTTTGGACAGCTGGCCTGGGCTCCCCCTGCTCAAAC
ACAGTGGGGATCAGAGAAAAGGGGCTGGAAAGGGGGAATGGCCCACATCTCAAGAAGCAAGATATTGTTTGTGGTGGTTGTGTGTGGGTGTGT
GTTTTTTCTTTTTCTTTCTTTTTATTTTTTTTGAATGGGGGAGGCTATTTATTGTACTGAGAGTGGTGTCTGGATATATTCCTTTTGTCTTCAT
CACTTTCTGAAAATAAACATAAAACTGTTGAATGTGCCTGCCTCAGTGCCAGCATGGGGGGACATGGATGGGGACTCAGTTGGGGTTGTACCCA
AGCTGGTGTACCCAAGGTGTTCTGTCAGCTTTCATTTATGGGGAACCTGCTAAGACCCTGAAATGACTCCAGCTGAGTTACAGCAAGGCCACAT
GTCCTACCTTCAGCACTCAGGGGGTTGGTTGATGCTACCTCTTAAGGCATCTTGGGACGGACAGAGAAGAATCCCTTGCCCTGTGTGCACCCTG
ACATTGAAAGGAGGGGTGTGAGGGCAAGGCCAAGGGCTGGACTGGGAGCGGGGGTGCAGGGCGCTGTGAGGCGGTGGCACTTGATTTTTCTTTG
CATTTCTAGCAGCCCTCCACCTTTATCTCTAGGGTTATTCAAGGATTAAAGAAATAAATATAAAATGAGCCATGTGAAATTACCATTTTTGTAG
GTCGAAAAGCCAAATATTAGCAATTTTATGTGACTCAAGCTAATACATGTAAAGGGTTTAAGAACATTGCCTGACAAACAGTAAGCACTCACTG
TGTAAGCTACTGTTACCAACAGTTTCTAGCTGTTTCTGTCTGTCTTTTTATACACACTGAATTGTGTTTGTAAAATAATACATACTTTTTTTTT
TTTTTTTGAGACAGAGTTTGCTCTTGTTGCCCAGGCTGGAATGCAATGGTGCGATCTCAGCTCACTGAAACCTTCGCCTCCCAGGTTCAAGTG
ATTCTCCTGCCTCACCCTCCTGAGTAGCTGGGATTACAGATGTGCACCACCATGCCTGGCTAATTTTTGTATTTTTAGTAGAGACGGTGTTTCG
CCATATTGGCCAGGCTGGTCTCGAACTCCTGACGTCAGGTGATCTACCCACCTTGGCTTCCCAAAGTGCTGGGATTACAGGCGTGCGTCACCAC
ACTCAGCCTATACATGCTTCTTTTAAATAATTCAAGCAAGGAAGAAAAGTATAAAGACAACAATAAATTATCTCAAATCTTACCCATCAAGAAT
TATCATTAACATTAGGTGGGTTAGACAGAAATAGTTTTATAAATTGGAACCATACTGAAAAGGCTTTTTCTTAATGAAAATGGTTAAATTTTAG
CTTATAGAATTTAGTCACACACACACACACACACACACATCAAGACAAGCAAAACCTCTCAAGTGAAATGAAGGAGT
TGCTAAACTTAAGATAAATTTTTCTTCACTACAAGAAATATTTTCTTGGTTTTTTTTTTTTTTGAGACAGAGTCTCGCTCTGTTGCCCAGGCTG
GAGTGCAGTGGCACGATCTCAGCTCACTGCAACCTCCACCTCCTGGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCCGAGTAGCTGAGACTACAG
GCGTGTGCCACCACGCCCGGCTTTTTTTGTGTTTTTGGTAGAGACGGGGTTTCACCATATTAGCCAGGATGGTCTCGATCTCTTGACCTGGTG
ATCTGTCTGCCTCGGCCTCCCAAAGTGCTAGGATTATAGGCGTGAGCCACCGTGCCCAGGCAAGAAATAGTTTCTAAAAGAACACTCTCAGGCT
AAGACAGGTGCTTATAGGAAACATTAAGAAGTTAGAGTTACTATGTTGCCCCACCACAGTCCAGGGTGCACCCCATTCTAATGGGGAAACATCA
TCATGGGCTTTGGGTAGTTCTCCCAGTTCTGTTTAAGGTCTGGAAAACCTGTTTTTTTTTTTTTTTTTTTTGGTCACAGTTCACATCCCATC
CTTTTTTGCTCTCTACTCAGAGGCACCTTCTAGTTAGAAGGAAAAAATACGGTGGCATACTTGGCTCCCTTTCCTTTGAATTTGGAATCTCATA
ATTTTGTAAATGACAGGAGATCTGCCACATTGTGCTCTGTGAGTTCAGATTATTTGTCCCCCTACTCCTACCCCGTGGCTGTCACTTTCTAAAG
TTAATGGGTTGGGTCTATTTCCTTTCTTGGAGGAACTGTGGTTGATAATTATAATACTCTTTTCGCTCACCATTTAAAAATGATTTTTGCTCCC
TTCATTAGATATGAAGTTAAGTGACTTGTGATCAAGCCATACTTTACCATCTTTTCTAGAAGTCTGACTGCATGTTTTGATGTGGTGTTATTTG
ACTCATAAAGGTTCATTACTATTATTTCTTCACTATTAGATGTACCTTTTACTGTATATACTGTGTATATATACACATACCACATATATCTATA
ATATATATAACCTAAATACCACACAACTCAAGATATTTCTTCAAGATTTAAACACCAATAATATCACAACTATATTTCCTCCATCTAATCTCCT
GCCTTTCCCTCATAGATAACCAGTATCTTTAATTTTGTGTTTTGCTTTTCTTGCCTTTTATTTGTTATATTTTTTATTTTTATTTTTGTAGAGA
TAGGGTCTTGCTATGTTGCCCAGGCTGGTCTTGAACTCTTGGGCTCAAGAGATCCTCCCACCTTGGCCTTCCAAAGTGCTGAGATTACAGTCAT
GAGCCATTGCATCCAGCCCCTTTCTTGCTTCTTAAAATTAAGTGTTAACACTTTATGTAAGTCTAACTACTATGCTATGTAGTTTTACTTGTTT
TTAACTTTATAAAATAATATATATGTGTGTGTGTGTATGTATACATACACACATATATGTTTTGATTTTTGACTCAACACTGTTTTTTAAGATTC

ATCCATTTGTGGCAGGTAGCTATGTATTTCATTCATTTTTCACTATTTTATGATATTCCACTATGTGTATGTTTGCTATAATTTACTTATCTAT
TTTCCTGTTGACAATTTACACATTTTTGTTATTATGAACAGTTTTTAAAATATTTTTAATGTGTCTTCAGGCACACAAGTGCTAAAATTTCTCA
AGTCAAGTCTGTATCTAGAAATGGGTAGGGTATGTGAATGTACAATTTAACAAGAGAATGCCAAATTACTTTACCAATTTACACTCTCACCAGT
AATGTACAAGAGAACATGTTGAGTTTCTTTCTTTCTTTCAGCAGTAGTAAGGTTGAGCCTTTCTTCATATGTTTTCTAATCATAGGTTTGTAAA
ATGATTTGTTCATATCTTTCGCTCATATTGCTATTAGAGTATTTGTCTTTTTCTCATTGGTTCTGGTTCTTTATATATTCTTGACTTGATATCA
ACCATTATTTGGTTATTTATATTGCAATTATCTTCCTCTAGATTATTGTTCCTCTTTTCATTTTCTTTAAAGTGGTTTTCTGATGAACAAAAAT
TTGTAGTTTTAATGTAGCTAAATTTAACAATTTTACTTTTTTTTTTTTTTTTTTAAGAGACAGGGTCTTGTTCTGTCACCCAGGCTAGAATGCAG
TGGTGTCATTATAGCTCACTGCAGCTGCAAACTCCTGGCCTCAAGTGATCCTTCCACTCAGCCTCCCCAGTAGTTAGGACTACAGGCATATGCC
ACCATGCATGGCTAATTTAAATTTTTTCTGTAGCGATGAGGTCTCGCTATGTCACCCAAGCTCATCTTGAACTCCTGACCTCAAGTGACCCTCT
CGCCTTGACCTCCCAAAGTGTTGGGGTGGCATGAGCCACCACACCTGGCCAACATTTTATAGTTAGTACTTTTCCTTGTCTCATTTAAGAAAAC
TTTTTCTGCTTGAGGGTTAGAAAGATATTCATCTGTATTTTTTTTTCCATAGGATTTGAAGTTTTGCATTTGACATTTAATTCCTTTTAGTGTT
TGGTGTGAAGGATTCATTTTTGTTTTCGTTTTCCAATTTTTCCTGTTTGTTTTTTGTTGAATAGTCTTTCTTTTGCCCATGGTAGTAGTCTCACA
TACTACTTCTGGTAGAGCAACGTCCTCTTTTTAAAGTTTCTTCTTCTGAAGTGCTTTGACTATGCCTAGCTCTTTGCCCTTCTATATGATATAT
ATAATAACTTGGAAATTTTCATAACAACCAGACTGAGATTTTTATTGAGGTTGGACTAAATCTATTGTTCGATTTGAGAGAAGAGATAACTTTG
TGATATTGTCTTTCTATGCATGAACATGGGATATTTCTTCATTTATTTAGGTCATCTTTAAGGTTCTTTAGCAAAGTTTTCCAATTTGTAGGTG
TAGGACTTTTATATCTTTTGTTAAATTTATTCTTGGGTATTTCTTTTTTTCTCTGTAAAAGGCATATTTTAAAATATATGTTTCCTAGCTGTTT
GTTACTAGTTTGCAGAATTACAATTGATTTTTGTATATTGATCATGAGATCCAGCCATGTTGCTAAAGTCTTTTATTATTTTGGGGGAATTTCC
TATAACTTCTTTAGAGCTATCTCTGTGGCCAATCATATTATTTGAAAAAATGAGAGTTTTAGCCGGGCATGACGGCGGGCGCCTGTAGTCCCAG
CTACTCAGGAGGCTGAGGCAGGAGAATGGCATGAACCCGGGAGGCGGAGCTTGCAGTGAGCCAAGATCGCACCGCTGCACTACAGCCTGGGTGA
CAGAGCGAGACTCTGTCTCAAAAAAAAAAAAAAAGAGAGTAAAAAAAATGAGAGTTTTATTTCCTTGTTTCTAATCATTATGCTTCTAATTTAT
TTTCCTTATCTTATTCGACTGGTCATAACCTCAAGTGCTGGTTTTTTGTCTTTTGGGGGATGGTTTCTTTCACTATTTTTTGACCCCACCTCTG
ATGGGGTCTCACTCCGTCACTCAGGTTGGAGTACAATGGTGTGATCATAGCTCACTGCAGCATTGAACTTCTGGGTTCAAGTGATGCTTCTGCC
TCAGCCTCCCAAATAGCTAGGACTACAGATGTGCACATTATGAAGCCTAGCTAATTAAAATTTTTTTTTTTTTTTTTTTTTGTAGAAACAGG
GCCTAGTTATATTGTCCAGGCTGCTCTTGAACTCTTGGCTTCAAGTGATCCTCCTGCATTGGCCTCCCAAAGCACTGGGATTAGAAGAGTGAGC
TGCCATGCTCAGCTCAGTTTTCCCCTATTTATTACACTTTTTTTTCCTTTTACTTGTTTGCATTTCTATAATTTATTTATTTTAGTGGCTTATC
TATACATTTTAATAAGTATATTTAATAATGAATGATGTTTTATCCTCCCTTCTCGTCAGTAAGATAATTTTTAGATCACTTTAATTCTGATCTTC
CTCCTTCTGACTTACTGTTCCTCCTTCTGACTTACTAATAAAAACTTACTTCCTTCTTCTGACTTATTGATAACTCTTATATTATCATTTTAGT
AGCCATTCTAATAACCTTTTTTCATTCATGTTTTTCTCCTCTCAACTTACTCATTTCAGTTCTTTCTTTTTTTAACCCCTAAAAATTAGACTCC
TTTATTATTTTATTGAGACTATGCTTTGTCTGGACTTACCTTTATGTTACCATTCTTTTTGTTCATTTTCCCTTTTTTGCATTTCTCTTTTTTG
GGGGATCATTTACCTATATCTTTAAATCCTTTATAAGTTCTTTTAGAGAAGTTCTCTTTGTAAACTTCCCCTGGGCTTGTTTCTTATAAATGTT
ATCATTTTCCCTATTGGTATTGAGTGATTGTTTTGCTGAATACACAATTTTGGGTGAATAGTATTTTATTTATTTATTTTTTTTTTTTTTTGAG
GTGAAGTCGTACTCATTGTGTCACCCAGGTTGAAGTGCAGTGGCACGATCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGTGATTCTCC
TGACTCAGCCTCCTGAGTAGCTGGGATTACAGGCATCCACCACCATGTCTGGCTAATTTTTTTTATTTTTTTTTTTTATTTTTAGTAGAGATGGG
GTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCCGACCTCAAGTGATCTGCTCGCCTTGGCCTCCTGAAGTGCTGGGATTACAGGCATGAGC
CACTGCACCCAGCCTTTTCTTATCATTTTATATGAGTAATTCCACTGTCTTCTGGCTTCATTGTTGTGAGATCTGCTGCTATTCTAATTATCAT
TCTTTGTTAGGTCTTCTGTGTTTTTTCTCTGCTTTCCAGATCTTCTATTTATATTCATGCCCTAAAGATTCACTACGATGTGAGAAGGCATGAT
TTTATTTTTCCTTATCCTATTTGGGATACATTGTGTTTCATGGATCTTTGCATTCATCATTTTCATGAGCTCTGAAAATTCTCAGTCATCATCT
CTTTAAATATTGCTTCTTTCTATTCTCTCCAATTTCATCCTTTAGGACTCCAATCAGATGGGTGTCTTTTTTTTTTTTTTTTTTTGACAGGGTCT
GGCTCTGTTGCCCAGGCTGGAGTGCGGTGGCACTTTCTTGGCTCACTGCAACCTCCACCTCCTGGGCTTAAGCCATCCTCCCACCTCAACCTCC
TGAGTAGCTGGGACTACAGGCATGCACGACCATACCTAGCTAATTAAAAGAAATTTTTTGTGTGTGTGGAGACAGGGTCTCGCTATGTTGCC
TAGGTTGGTCTTAAACTCTGGGCTCAAGCGATCTTCCCACTTTGGTTTCCCAAAGTGCTGGGATTACAGGTGTGAACCATGTTTATCCTTATAA
TTGCATTATTTGTTTTTTGTAAACATTCTATACCTAGCTATTCTGTATTTTCAACATCTGCTGTCCTTGTAGGGGGTGATGATAGGGTTGTTGTC
TAAATCTGTTGTTTCTTCTGATTCTCAATGATAGTGGGTTTGCCTTCTTCCTTGCTTGGTGGTCTTCTTTCTTTGTTTATTAAATTTTGCTAAA
GAAAATCTTCAAGGAGTCTTTAGGCAATAACACTTCTGAGTATTTAACATGTCTTTATTTTACTTACACATGTGAGTGATAGCTTGACCCAGTA
TAAAAGTCTAGGTTGAAATCACTTTCTCTCAGAATTTTTTTTCTTAAAGACCAGTATGATAGTACTCTCAGATTTTTTTTTTTCCTGAGATGGA
GTCTCAGTCGCTCTGTTGCCCAGGCAAGAGTGCAATGGTGCCCTCTCGGCTCACTGCAACCACTGCCTCCTGGGTTCAAGTGATTCTCCTGCCT
CAGCCACTGGAGTAGCTGGGATTAGAGGTGTACGCCACCACGCCTGGCTAATTTTTATATTTTTAGTAGAGATGCGGTTTCACCATGCTGGCCA
GGCTGGTCTCGAACTCCTGGCTTCAAGTGACCCACCTGCCTTGGCCTCCCAGAGTGCTGGGATTACAGGCATGAACCATCGCACCTGCCCTACT
TACAGAATTTTTAAAGCATTTTTTTCATTGTCACTTAGTTTTTAGTATTGCTCTTAAGAAGTCTGATGCCATTTTGATTCATGATCCTTTTTGG
TAGGTTTTTAGATCCTCTCTTGCTTCCCAGTGTTTTAAACATTCTGTATTATATACCTTGGTCTGAAGCCCTTTTTCATTTGCTATTCTGGCAC
ACCCAATGAGAACTATCAACCCAGAAACGCTGTTCTTCATTCTTAGAAAGTGTCTCTTCCTTGCTGGTTCAGTGGCTCATGCCTGTAATCCCAG
CACTTTGGGAGGCTGAGGCGAGCAGATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACGTGGCAAAACTCTGTCTCTACAAAAGTACA
AAAATTAGCCGGGCGTGGTGATGCATGCCTGTAATCCCAGTCACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGAGGCGGAAGTTCC
AGTGAGCCAAGATTGCACCATTGCACTCCAGCCTGGGCGAATGAGTGAGACACTGTCTCAAAAAGAAAGAAAGTTTCTCTTCCTTTTAAAAAA
CATTTTTCATATTTTTAATTTTTTTTTTTTTTTTTTTTTTTTTTTAGAGATGAAGTCTCACTATGTTGGTCAGGTTGGTCTTGAACTCCTGGCCA
AAAAATTCTTCAAGCAAGAGCATACTTCCTCCCAGAGAGCTGGTTTACTACCACACCACTGGGAGCTGATTTATTAGGCTGGGGCCCCCACAAT
GTTAGTGTGTAGAGATATGAGTTCTCCTAAAGAGACTTTTCCAAATTTCTTACCAGCTGACTGGAGAATATTGTAGGAGTGAAATATGAGAAGA
GAAACCGAGGGGCTAATTTTTTTCTTTTGCAAGCTTTCACTTACATTTTCTTCTTCCAGCTTTGCCTCACCCTTCCTAGACACTGTCTTTGGTA
TCCCCAAGTCCCATGTCTTTTTCTTTCATTTTCTTTAGAATGACACTCTATACTTCTAGGTGGTAGTGGTAGTGAAATAGTTATTTTGTTGCTC
AGGGCGGGAAGCAGTCATGGGCATCTTGATACATCTGATTTCAGACTTTTAGCCAATCCACCAATTGTCAGTACCATGCCTCAATCCCAGCTTC
CACTGTGCCAAGTTCTGAGCCTCTTAAGCATTCTTTCGGGCTAAATCAGTTCACTCATTGTTAATCCTGTTTGTAGACACTGTGGGCTATAGCT
CCATGTTGCTTAATCATGCACTACTCCTCCGTCTGCTTTCTAGTTTCCAAAAACTTGTTGAAATGTATTGTCTGGTTCCTTTTCCTCTGCTGTT
CTCTTTGTTCCTGTGGTTTCATACATTTGAAAAATTCCTATATTATCATTTTAGTAACCAATATACAATTTTTTTTTTTTGAGACAGAGTCTCG
CTCTGTCGCCCAGACTAGAGTGCAGTGGTGCAATCTCGGCTCACTGCAGCCTCTGCCTCCTGAATTCAAGCGATTCTCCTGCCTCAGCCTCCTG
AGTAGTTGGGATTACAGGTGCGCACCACCATGCCCGGCTAATTTTTGTAGTTTTAGCTGAGACGGGGTTTCACCATGTTGGTCAGGCTGGTCTC
GAACTCCTGACCTTGTCATCTGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCGCCCGGCCCAAATATACAAATTTT
AACCTAAACACTCTTCATCAATTTTGAATGGAACTTGGTACATTTTTTCAGCCTTCATGGATTGGCCTTCTTCTTTCTCTACCCCACACCCCCA
AATTTCAGACAAGTTTTCTTCTATTTTGTCTCCGATTACCTCCTATCCAGCTAGTATTTATTTTTTCAGAGACATTCATTACTCTTCGACTAGAT
CTCAACCCTCTGTTTCTCTCCATTTTCTTTCTTTCTTTTCTTTTTTTTTTTTTTTTGAGACAGAGTCTCACTCTGTTGCCCAGGCTGGAGTG
CAGTGGAGTGCCGCGATCTCGGCTCACTGCAAGCTCTGCCTCCAGGGTTCACACCATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGAATCACAG
GCTCCCGCCACGCCACCACACCTGGCTAATTTTTTGTAGTATTTTAGTAGAGATGGGGTTTCACCATGTTAGCCAGGATGGTCTCGATCTCCTGAC
CTTGTGATCCACCTGCCTTGGCCTCCTAAAGTGCTGGGATTACAGGCGTGAGCCACCACGCCCGACATTTTTTTTTTTTTTTTTTTTTGAGACA
GGATCTCACTCCTGTTGCCCAGGCTGGGGTGCAGTGGCGCTATCACAGCTCACTGCCACCTCGACTTCCCAGGCTCAGGTGATTCTCCCACCTC

SAGRES DISCOVERY 02-26

AGCCTCCTAAGTAGCTGGGATTACAGGCACATGCCACCATGCCCAGCTAAATTTTTGTGTTTTTAGTAGGGACAAAATTTCATCATTTTACCTA
GGCTGGTCTCAAATTCCTGGGCTCAAGCAATCTGCCCGCCTTGGCCTCTCTAAATGTTGAGATTACAGGCGTGTGCCACTGCACCCGGCCTTTG
TTTCTCTTCCTATTACTTAGTTTTCATTTTTTGACTTTATATTCTGTCCTCTGGGAGAGATTTCCAAAGTTATCTTAGTAGTGGCATATTAACT
TGGGGATGGCTGAAGATTAATTTCTAAGGAGAGAGTGATCCAGAAGGATAAATATCTGTACTTATGATTTACATGAATGCCTTTCTGAGTGTCT
GTGGTTACAGCTATCTCTTAATATGCCATATTTTGTAAGAGTTTATATGGCAAGAGTTATAAACAGCT

HUMAN SEQUENCE - mRNA
CGGCCCGCTGGAGAGGAAGCCCGAGAGCTGCCGCGCGCCTGCCGGACGAGGGCGTAGAAGCCAGGCGTCAGAGCCCGGGCTCCGGTGGGGTCCC
CCACCCGGCCCTCGGGTCCCCCGCCCCCTGCTCCCTGCCCATCCCAGCCCACGCGACCCTCTCGCGCGCGGAGGGGCGGGTCCTCGACGGCTAC
GGGAAGGTGCCAGCCCGCCCCGGATGGGCATCGTGGAGCCGGGTTGCGGAGACATGCTGACGGGCACCGAGCCGATGCCGGGGAGCGACGAGGG
CCGGGCGCCTGGCGCCGACCCGCAGCACCGCTACTTCTACCCGGAGCCGGGCGCGCAGGACGCGGACGAGCGTCGCGGGGGCGGCAGCCTGGGG
TCTCCCTACCCGGGGGGCGCCTTGGTGCCCGCCCCGCCGAGCCGCTTCCTTGGAGCCTACGCCTACCCGCCGCGACCCCAGGCGGCCGGCTTCC
CCGGCGCGGGCGAGTCCTTCCCGCCGCCCGCGGACGCCGAGGGCTACCAGCCGGGCGAGGGCTACGCCGCCCCGGACCCGCGCGCCGGGCTCTA
CCCGGGGCCGCGTGAGGACTACGCGCTACCCGCGGGACTGGAGGTGTCGGGGAAACTGAGGGTCGCGCTCAACAACCACCTGTTGTGGTCCAAG
TTTAATCAGCACCAGACAGAGATGATCATCACCAAGCAGGGACGGCGGATGTTCCCATTCCTGTCATTTACTGTGGCCGGGCTGGAGCCCACCA
GCCACTACAGGATGTTTGTGGACGTGGTCTTGGTGGACCAGCACCACTGGCGGTACCAGAGCGGCAAGTGGGTGCAGTGTGGAAAGGCCGAGGG
CAGCATGCCAGGAAACCGCCTGTACGTCCACCCGGACTCCCCCAACACAGGAGCGCACTGGATGCGCCAGGAAGTTTCATTTGGGAAACTAAAG
CTCACAAACAACAAGGGGGCGTCCAACAATGTGACCCAGATGATTGTGCTCCAGTCCCTCCATAAGTACCAGCCCCGGCTGCATATCGTTGAGG
TGAACGACGGAGAGCCAGAGGCAGCCTGCAACGCTTCCAACACGCATATCTTTACTTTCCAAGAAACCCAGTTCATTGCCGTGACTGCCTACCA
GAATGCCGAGATTACTCAGCTGAAAATTGATAATAACCCCTTTGCCAAAGGATTCCGGGAGAACTTTGAGTCCATGTACACATCTGTTGACACC
AGCATCCCCTCCCCGCCTGGACCCAACTGTCAATTCCTTGGGGGAGATCACTACTCTCCTCTCCTACCCAACCAGTATCCTGTTCCCAGCCGCT
TCTACCCCGACCTTCCTGGCCAGGCGAAGGATGTGGTTCCCCAGGCTTACTGGCTGGGGGCCCCCCGGGACCACAGCTATGAGGCTGAGTTTCG
AGCAGTCAGCATGAAGCCTGCATTCTTGCCCTCTGCCCCTGGGCCCACCATGTCCTACTACCGAGGCCAGGAGGTCCTGGCACCTGGAGCTGGC
TGGCCTGTGGCACCCCAGTACCCTCCCAAGATGGGCCCGGCCAGCTGGTTCCGCCCTATGCGGACTCTGCCCATGGAACCCGGCCCTGGAGGCT
CAGAGGGACGGGGACCAGAGGACCAGGGTCCCCCCTTGGTGTGGACTGAGATTGCCCCCATCCGGCCGGAATCCAGTGATTCAGGACTGGGCGA
AGGAGACTCTAAGAGGAGGCGCGTGTCCCCCTATCCTTCCAGTGGTGACAGCTCCTCCCCTGCTGGGGCCCCTTCTCCTTTTGATAAGGAAGCT
GAAGGACAGTTTTATAACTATTTTCCCAACTGAGCAGATGACATGATGAAAGGAACAGAAACAGTGTTATTAGGTTGGAGGACACCGACTAATT
TGGGAAACGGATGAAGGACTGAGAAGGCCCCCGCTCCCTCTGGCCCTTCTCTGTTTAGTAGTTGGTTGGGGAAGTGGGGCTCAAGAAGGATTTT
GGGGTTCACCAGATGCTTCCTGGCCCACGATGAAACCTGAGAGGGGTGTCCCCTTGCCCCATCCTCTGCCCTAACTACAGTCGTTTACCTGGTG
CTGCGTCTTGCTTTTGGTTTCCAGCTGGAGAAAAGAAGACAAGAAAGTCTTGGGCATGAAGGAGCTTTTTGCATCTAGTGGGTGGGAGGGGTCA
GGTGTGGGACATGGGAGCAGGAGACTCCACTTTCTTCCTTTGTACAGTAACTTTCAACCTTTTCGTTGGCATGTGTGTTAATCCCTGATCCAAA
AAGAACAAATACACGTATGTTATAACCATCAGCCCGCCAGGGTCAGGGAAAGGACTCACCTGACTTTGGACAGCTGGCCTGGGCTCCCCCTGCT
CAAACACAGTGGGGATCAGAGAAAAGGGGCTGGAAAGGGGGGAATGGCCCACATCTCAAGAAGCAAGATATTGTTTGTGGTGGTTGTGTGTGGG
TGTGTGTTTTTTCTTTTTCTTTCTTTTTATTTTTTTGAATGGGGGAGGCTATTTATTGTACTGAGAGTGGTGTCTGGATATATTCCTTTTGTC
TTCATCACTTTCTGAAAATAAACATAAAACTGTTAAAAAAAAAAAAAAAAA

HUMAN SEQUENCE - CODING
ATGGGCATCGTGGAGCCGGGTTGCGGAGACATGCTGACGGGCACCGAGCCGATGCCGGGGAGCGACGAGGGCCGGGCGCCTGGCGCCGACCCGC
AGCACCGCTACTTCTACCCGGAGCCGGGCGCGCAGGACGCGGACGAGCGTCGCGGGGGCGGCAGCCTGGGGTCTCCCTACCCGGGGGGCGCCTT
GGTGCCCGCCCCGCCGAGCCGCTTCCTTGGAGCCTACGCCTACCCGCCGCGACCCCAGGCGGCCGGCTTCCCCGGCGCGGGCGAGTCCTTCCCG
CCGCCCGCGGACGCCGAGGGCTACCAGCCGGGCGAGGGCTACGCCGCCCCGGACCCGCGCGCCGGGCTCTACCCGGGGCCGCGTGAGGACTACG
CGCTACCCGCGGGACTGGAGGTGTCGGGGAAACTGAGGGTCGCGCTCAACAACCACCTGTTGTGGTCCAAGTTTAATCAGCACCAGACAGAGAT
GATCATCACCAAGCAGGGACGGCGGATGTTCCCATTCCTGTCATTTACTGTGGCCGGGCTGGAGCCCACCAGCCACTACAGGATGTTTGTGGAC
GTGGTCTTGGTGGACCAGCACCACTGGCGGTACCAGAGCGGCAAGTGGGTGCAGTGTGGAAAGGCCGAGGGCAGCATGCCAGGAAACCGCCTGT
ACGTCCACCCGGACTCCCCCAACACAGGAGCGCACTGGATGCGCCAGGAAGTTTCATTTGGGAAACTAAAGCTCACAAACAACAAGGGGGCGTC
CAACAATGTGACCCAGATGATTGTGCTCCAGTCCCTCCATAAGTACCAGCCCCGGCTGCATATCGTTGAGGTGAACGACGGAGAGCCAGAGGCA
GCCTGCAACGCTTCCAACACGCATATCTTTACTTTCCAAGAAACCCAGTTCATTGCCGTGACTGCCTACCAGAATGCCGAGATTACTCAGCTGA
AAATTGATAATAACCCCTTTGCCAAAGGATTCCGGGAGAACTTTGAGTCCATGTACACATCTGTTGACACCAGCATCCCCTCCCCGCCTGGACC
CAACTGTCAATTCCTTGGGGGAGATCACTACTCTCCTCTCCTACCCAACCAGTATCCTGTTCCCAGCCGCTTCTACCCCGACCTTCCTGGCCAG
GCGAAGGATGTGGTTCCCCAGGCTTACTGGCTGGGGGCCCCCCGGGACCACAGCTATGAGGCTGAGTTTCGAGCAGTCAGCATGAAGCCTGCAT
TCTTGCCCTCTGCCCCTGGGCCCACCATGTCCTACTACCGAGGCCAGGAGGTCCTGGCACCTGGAGCTGGCTGGCCTGTGGCACCCCAGTACCC
TCCCAAGATGGGCCCGGCCAGCTGGTTCCGCCCTATGCGGACTCTGCCCATGGAACCCGGCCCTGGAGGCTCAGAGGGACGGGGACCAGAGGAC
CAGGGTCCCCCCTTGGTGTGGACTGAGATTGCCCCCATCCGGCCGGAATCCAGTGATTCAGGACTGGGCGAAGGAGACTCTAAGAGGAGGCGCG
TGTCCCCCTATCCTTCCAGTGGTGACAGCTCCTCCCCTGCTGGGGCCCCTTCTCCTTTTGATAAGGAAGCTGAAGGACAGTTTTATAACTATTT
TCCCAACTGA

SAGRES DISCOVERY 02-27

TABLE 27

MOUSE NOMENCLATURE
ICSGNM Stat5b
Celera mCG20224

HUMAN NOMENCLATURE
HGNC STAT5B
Celera hCG16577

MOUSE SEQUENCE - GENOMIC

CAGGGGCGGGCACTGCTGCTTGTCTCGTCACGATTCCTCGTGATTCATCTTAGCATGTCAAGTCTGAAAATGTAGAGTGCCACTCTGCCCGCCC
TATGGGTGGGGTTGCCCAGCCCCTCCGTTAGAGTGTTGTCCACCCGATTCACCTACTGATGTGCCTTTTCCTTTCTTTTTTTTGTTTTTGAGGT
CCAGGGAACTGATAGCAGGGCCTTGTGCCTTCTAGGCCAGAGCTCTACCAGTGGGCCGTGTCTCCAACTCCTTCTCATTCTGTGACTAGTAAGA
AGCGTGCAAAGGCAAGAACATCCTGTGCCCAGAGATGGATGTTATCTATGGCTTCTGCAGCTTTGATGCTCCTTGTCTGAGTCTACTGTGTGTG
TGTATGTGTCTGTGTGTGTCTCTGTGTGTGTGTCTGTGTGTATCTCTGTGTGTATCTCTGTGTGTGTCTCTGTGTGTGTGGGTA
TGTCTGTGTGTATCTGTGTGTGTGTCTCTGTGTGTGTCTGTGTGTATCTGTGTGTGTGTGTGTCTGTGTCTCTGTGTGTGTATCTCTTTGTGTG
TCTCTGTGTGTGTGTCTGTGTCTCTGTGTATATCTGTGTGTGTGTCTCCGTGTGTGTGTCTGTATCTCTGTGTATGTATCTCTGTGTGTGTC
TGTGTGTATGTGTATCTCTGTGTGTGTCTCTGTGTGTGTGTCTCTGTGTATCTCTGTGTGTGTCCAAGTGCACGCATGTATGTGCACAAGTCTA
TAGAGGCCAGAGATCAATGTTGGGTGCCTTCCTCAATTGCTTTACAGCAGCAGTTCTCAACCTCTCTGGGGGTTGAACGACCCTTTCACCAAAG
CCCATGAGAAAACACCGATATTTATATTACAACGCGTAACAGTATCAAAACTACAGTTATGGAATAGCACAAAAATAGTTTTATGGTTGGGGGC
TCACCACAACATGAGGAACCATATTAAGGGTCGCAGCGTTAGGGAAGTTGAGACTGGGTATCTCAGTGAGCCTGGAGCTTGCCCACTGAGCTGT
GGGGGCCAGCAAGCTCCAAGGATCCTTCTGAATGCCTTCCCAGAACTGGGAGCACAAGTGCCTGCTGTTCTTTAACATGGGTCCTGGGAATTGA
ACTCAGATCCTAAAGACAGCACAGTGAGTGCTTTGCCAACCAGGAGCCGTCTCCCCAGCCCAGCCTGCTTTCTTTTTGAGGGAGCACGTGTTTT
AATATAAACATGGTTGTATTTAGGTGAGAAGTTTAAATATGCGAGAATCCACTGATGTGTGCTTACTCTCTGCACGCAGCAAATAGCCACCCAA
CCCCCGCGCCCCCCTTTACCTTCTGTCCTGTCCTTCTGTTCATTACCTCTCTTCTTCCCAAAGCGACACACGGTGGGTGAAGATTTATGACTG
TCTTCCCAGAATTTTATTATCTGTGTTGCCCGGGCAAATTTTTTCCTTTTTTGTTTCTTTGTGGGCCACTTTCACTCCTGTTCCCTTCTCATGG
GCTTATGATTTTTTTTTTCTCCCCTGAAAGAGAATCTTCTTTCTGGTTGCTTATAAGCTAGTGGTTAGGTTGTTTTGTTTTGTTTTGTTTGTT
TAAAGGGCAGATGGTGCTAGTATTGACCTACTTTTAGATGTGGTCATTTACCCTAACCTTGCTCGGTCAGGCCAGTATGAACACAGTCTTAATC
TTCTAACACTGTGTTTCATATTTTCTGTCTCTCAAAGTCCTTGTATTCGGTGACCACTCAACACAGTAATGATGTTGACATTGACAGTGAGAGC
ATCCACATGACCAGAGACCTGGTCCCTTATCCCCCTCCCAGGATCCCTCAGTTCTCAGCGGGTGCTGGGAGGTTTAACCATTTGCAATGCTGGC
ACCTTGCCTGGAACTTTTCAGATCAGAACCAATGTTTATCCATTGAGTCCATCTGCCAACTGTCCCTAGCCTTTGCTAAAACCAGAGTCTCCCA
ACACTGGGTTTCTCCTCTCTCTTTAAATTATTAAGTGTGACAACGTGTGCACAAGCACAGAGGGTGACATGACAACTCACCACAAGTTCTCAGG
ACACAGGCGGTGCTGGGCAGTGGCAACAGGGCACTGCACAGTCAGGGCCTCTTGGCACTGAGAGATGGGGTCATCTTGGTAATGGCATTAAGGG
CATGTGCCACCAGGCCTAGCTTTTTTCTCTTTTTCAGTTACAGCTTTATTGAGATAGAATCACGTGTTATAAAATTCACCTTTTTATTTAGTTT
GGGGTGTGTGTGTCTGTCTGTCTGTACCATGGCATGCTTGTGGAGGTCAGATGACAGCTAATGGATGTTTGCTCTTCACTCCACTATGGGTTTC
AGGGGTCAAACTCAGGTCATCAGACTTGAATGACCAATGCTTTTACCTGAGAGCCATTTCCCTGGCCCCATCAACATTCTAAAATGTCCAGAAT
TCAGTCTCCCGGGCGTTGTAGTCCATTACCACTGTCCAGCCCAGCCTTAATGTGTTTTCCTCACTTCCTCGCTTCCCCAAAAGTTCAACCTCAC
TCTTTTCTGTGGCTCTGAATTTGCCTATTGTAGAATCACAGTGTAGTTCAGGAAGTTTGTCCTCCACAGTTTCAGTGTTCTCCTTCTGAGTTG
GGGGAACAGGACTCACAGTGCCCCTGCCCCACCCTTCCATAGGTTCTTGTCTGTAAAGCCCTTGTGTCAGCGGGACTGATTAAGAAATCAGAGT
ATCTGGGACTGGAGAGATGACTTAGCAATTAAGAGCACTGGCTGCTCCTCCACAGATCCTGAGTTCAAGTCCCAGCCACCACAGGGAGGTTCAT
AGCCATCTATAATGTGATCTATACATAAAAAGGGAAGGAAGGAATGAAAGAAGGGAGGAAGGGAGGAAGGAAGAAGAGTATTAGGG
CCAGCAAAATGACTCAGTGGATAATGATGATTGCCACCAAGCCTGACATCCTGAGTTTGATCCCCAGCACAACACACAGTAGGAGAACAAACCC
CCTACAAGTTATTCTCTAACTGCCAAAGGCGTGCTATGGTGTGTGCGCACACACGTGCATACGCGTGCGCACACAAATGCAATAAAAATAAGAA
AAAGAATACCTTATTCTTAAAGGAAGGTAACTTTTGTCCTGTGGAGCATTAGGAAGCAGGAGGATAGCAGGAGCTGCTCATCAATCAGATGAAG
TTTGGAAAAGCTTGTTGGTGGGGTGAAGATGGAGGTGGGGAGAAGGAAGTGCTAAGTGTAAGTGTGAAAGAATCATTGGCTCTCCTCAGGGGCT
GACCACACTCAGGCTCTGTGTTACATACTTACACACACACACACACACAACTCAGAAGTTATAGAAACTCCGAATAGTAAAAACTAACCTGGCA
AACCATATCTCTCTGTGAGTGTTTTAAACCCTCATCTCTCCTCAAGCCAGAATTTGTTCAGTCCATTGGCAGAGTTTCGCTGGAAGCTTCCAGC
AAGAGAGCCTGCTTTCCGCCAGGGAAGTTACAGCAAAACAGTCTCTGGTGTTCTGAAAACCTTCAGAGTAATGGCTTTGTTTGCAAACGCTTCT
GCTTGGGGCTGGGAGTGTGCCTCAGTTGGTAGAGCTCTCGACTAACAGGCACAAATTGACCCCCAGAACTAGAGTAACAGAACACACCTATAAT
CTCAGTACACAGGAGGTGGAGCAGGAGGAGCAGGTATTGAACTACATAATGAGTCCAGTGCCAGAGGCAAGCCTGGGCTACCCAGAGCTGACCT
AAATATATTTGTTAAAGAAAAAGTTTCTGATAGAATGTTAGCTATTGATACAACATAACACTGATCACCAGCATAGTAGATATCCCTTCCTTTG
GTTTCCAATAAGCCTGTGAAGTTGAGGTTTTTATAAACAGGTACTTCTGGCCCCTTATTTAACCTTCTCCACCCTTGGTCTAGGTGTTCTGGGT
CAACATAGGTGCTGGGTGTGTTTAGCCGGTATAGCACTCTGTGTCCAGGCCCTGGCCAAGCTGTGAACTCCACAAGTGTGACTGCACAGAGCTC
GGCTGACTGTCAACACTGTCCTAAAAATATGATGGTGAATCCAGTTCCCAGGGTTTAGAGCGGCCCCTGTGATGATTTACCAGCGATACAAACC
ACTTCCCTTGTCAGAATGTCACGAACTGAAAACTGAGCTGCCGGGTCAATAAGCAGAGAAGAGCATGCGCATGCGCGGGGTAGGCTGTCTCCAT
GCGGGTGGAGGAGCCGCCCGGTGGCTGGATTGACCATGGGTACAGGGCCGGTGGGGGCCCCCCCCACTTACACCTGTGTGCACAATGTTTCCTGG
TGAGTGTGGAGAGTTCTGACAGGCATGGGAGAAAAGCACTAACCAGACCACAGGTCTTGAGCATTTAAACTGGTAAGGAGTGGGAAGAGTTTTT
TGTCTGGAGTGAGTTACTTAGCATTTAGGAAGTGGAGGCAAGGAGCTATAATGGGTACAACAGTAACCTTCATAAATCTATGTGGATAAAACCC
ACAGTTTAAAAGTAAAACGGACATGACTGTACTATTTAGTGTGGATATATATACATTTTTTTTATTTTAACTGACACAACTGGGAAAGGGCA
TGCTCCCTCATACAGTGTGCGATGATCAGATCAGCTTAATTGTCAGATCTGTCACTCAACATTGATGATGTGTTTGTGCTGGGAGCGTTCAGAT
TCCTTCTCCTCGTGACGGATAGTGAGCAAAATCCACACCGGAGCTCTATTTTCTATCCCTATTAAAGTACTTTTATGTCGTGAAACTATGCTGT
ATTTTTCAAGATAAGGCAATTACCACTTTGTATTTACCAGCTATTATCCTTCAAATACTGTACTATTAAAAAAAAATACCATGACACGCTCAGA
ATTGGAAACATAAAAATATTCTGACCAAAAAATTAATATATATATTTTTTTTCTGACAAATTCTCAGAGCTCAGCATTCTACTCTTTAATAAAA
ACTAAGAACAAATATAAAACCTGAAACACAAATTGCCTTTATACCATGCAGCTCCCTAGAGTTCTTCTTCTGTTTCTGCAATATTGTTTTTACA
TCTTTTGAAGCTGGACACACCTTTACTACCCACATGAGTGTAAGTGTGAGGTAAAGATAGGTGGATTTCTGTGAGTTCAAGGTTAGCTGGTCTA
CATGTTAAGTTGCAGACCAGCCAGGTCTACTGAGTGAGACTCAGTCTCAAAAAATAAACAAAGGCGTTTGGGTTTTTTTTAGGTTTGGTTTGGT
TTGGTTTTTGTTTGTTTGTTTGTTTGTTTGTTTGAGATAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAACGTATCATCTTGTAAA
CCCAGGCTGGCCTTAAACCTTGACCTGTTTACCAAGTGCTGGGATTGCAGGTGTATACCACCCCATTAAGCTGTTTCTCTCTTAAAACAACAAT
AAACTCCGGAAATATGCTCAGCCAACAGGACAGGTAATAGATTTGTGTATTTGTTCATTTAGCCTATGGTTCCCTACCAGTGTAGGTCACAAC
CCTTTTGGGGATTGAATGACTTTCTCACAGGGTCATCTAAGACCATCGGAAAACACAGATATTTACATTACAATTCATAACAGCAAAATTACAG
TTATGAAGGAGCAATGAAATAATTTTAGAGTTGGCATGAGGAACTGTATTAAAGGGTTGTAGCATTAGGAAGAGTGAGAACCACAGATTTAGCA

AATACTTGTTTACTGCTCTCTGTGCTGGGCTGCTACACATGCATTTTGGGGACAGGGCAGTTAAGACATGTCCTCTTCTATTGCGGTTCAGTGG
AAGGAGACAAATTAAAACAAAAGAAAACTAGACAGAAAAATGACAGGCCTGTGTGATGAAAGAGAGATCACCCACATAGAGTCACCCGAGTTAT
ACAGTTATAGCTGAGGAGCTCATTAAAGATGTTTCATTCTACACTGTAGAATTTCTTCTTCTTTTAAAAAAAATTTGTTTGTTTGTTTGTTTAT
TATATGAGTACACTGTAGCTGTACAGATGGGTTGTGAGCCACCATGTGGTCACTGGGAATTGAACTCAGGACCTTTGGAAGAGCAGTCAGTGCT
CTTAACTGCTGAGCCATCTCTCCGGCCCTACACCGTAGAATTTCATACTCATGTTATGTTCTGTAATAACTTTGAAAAGAGCTGATCTGAAGCT
GGAGAGACGACTCAGTCGTTAAGAGGCTGCCCTTCCAGAGGACCTGGGTTGTATTCCCAGCAACCACATGGCAACTCACAACCATCTGTAACTC
CAGTTCTAGGAGATCTGACCCCCTCTTCTGGTCTCCACAGGTACTACACACATGTGGTCCACAGACCAACATGCAGGCAAACACCCACACATTA
AGTAGATCGGAAAAATATATATCTTAAAAAAGGAAAAAGCAGACATGTCCAATTGTGTTTGCTCATATTTGTTTATTAAAGCAACAACAACAGA
ATAGTACTGCTTATCTGCCAAGCACCTATGTACATAAAGTTATCGTGTGTTTAGTAAAGATGATGCATGCCAGACAGNNNNNNNNNNNNNNNNN
NNNTTGGTGTCTGTTGGAATCACTCAAATTTTCATTAAGGGAGCTACTGTGAGGCCCCACTTCCATCTTGTCCTAGGGCTGAGTGTGTGGGCGT
GCATATGTGGATCTGAGTGTGTGTGTGTGTGTGCGCGCGCGTGTGCATGTGCGTGTGTGTGTGTGTGTGTATACTTATGG
AGGCTTGAGCTATTCACCTCTTAATTTTATTTTTGAAACAGGGTCTCACTCTGTTGCCCTGGCTGGCCTGAAACTTTCTATATAGACCAGGCTG
ACCCTCAAACTCATGAACAGCCACCTACCTCTGCCTTGTGACTATGACACCATACGCAGCCCCTTCCCTCGATGTCTTTTGAGAGAGTTTCTAA
TCTCCTGGAGTTCCTGTCTCCATCTCCCAGCTCTGAGATTACAAGTGTCCACCAGGCTTTTTACTTGGATTCTAGGATTTGAACTTGGGTCCTC
TTGCTTGCAAGGCAAACACTGGCTGAATCACCTTCCTAGCCCAGTCTGCATTTGTTTGTTTTCATATATTTATGTTGACTTGCTGTGTATGAAT
GTTCTGCACACATGTATATTTGTGTACTATGTGCATGCAGTACCCTGGAAGGCCAGAGGAGGGCATCAGATACTCTGGGTCTGGAGTTACAGAT
GGTTGTGAGCCATCAGGTGGGTGCTGGGAAACAAGCCCAGGTTCTCCTCAAGAGCAACAGTGCTCTTCACCACTGAGCCATCTCTCCAGCACCC
CCCTCCTTGTTCTTAACTAAGAAAGAGTGCTACCCGAGCCCCACTCTTCGTCTGTCAGGCCTCTGCATGCTTAAATCTCCAGTCTCCTCCACTC
CCAATCTCTTTACTCTTCCTCCAAAATCATGAGCTGCTCCTGGTCTGATTTGGAGACTTCACTAAAACATTGTACAGTTGTCTTCCAGATGTTT
GACTGGGATGCAGAATTGCTCTCCTGTTCCAGTTTTCCTGTGATGAACTCACACCCACTGAACTTTGCAGTATTGGAAAATCTCACTGTTATCT
CAGCCCTGGAGCCTGAAAGCTCCGAGTTAAACCATCCAAGTATCCTATAGCCGCACACACATCTAAAATAGGTAACCAACCGGCACCCACCCTA
CACCTCACTGCTAGCTAACTGACCTGCCCCATAAATAGCTCAGTGTTACTCGATCCGACAGCCACTGCTCACAGAGAGATCTTTGTTTCCTGGC
ACACATGTGCGTGCAGTCTCTGGGAGTCAACAAAACCCAGGTCCAGTGCACTGGACCATGGCTGTAACACAATCCTTAGGCGAACTGTGAAAAT
CAGTAGCTAAGTCATTTTGAGATTGGATTCAAGACGCCCAGATCCGTATTACCAAAAGCAGTGTTACAGCAAGTCTGGTTTTAATGTCTGAAGT
TCCTATTAACATAGCTTCTCCACTCTGGGGAATCCCAGGTCTCTGCCAAATGCACTTAATTCTCAGGTCTGTCTGAAAGGGCTCCTAGTAGTTT
CAGAAAGCATCTATTTGTTTGTTTTGTTTGCTTGCTTGCTTGCTTGTTTGTTTGCATACACTGTAGCTGTCTTCAGACACACTAGAT
CCCATGACAGACGGTTGTGAGCTATCATGAACTTAGGACCTCTGGAAGTATAGTCAGTGCTCTTAACTGCTGAGCCATCTCTCCAGCCCCCAGA
AAGCCATTTTCTAAAGCGTGTTTTTGTTGGTGCAGCTTGTTTTGGTTTTGATGTTGTTTCTTTAAGAAAGAGTCACAGGAAGCCCACGCTGGCC
TTGAATTCTTGATCCTCCTGCCTTCACATTCTGAGTTCTGGGATTAAAGGTTCTACCACAAGATCCTGTTAAAAAGAAAAAAAAAAAACAGAT
AATCTCACTATTGCTGGGACTAGTGGCGCCAAGCCTGTAGTCTTAGGTTAAATTAGAAGACAGCAAGTTTAGTGGGCCATGGTGGAACAGGCCT
TTAATCCCAGCACTCGGAAGGCAGAGGCAGGCAGATCTCTGAGTTTGAGGCCAACCTGGTCTACAAAGTGAGTTCCAGGACAACCAAGAGAAAT
CCTGTCTCAAAAAATAAAACAACAACAAAAAAGAAATAATATAAAATGAATAAATAAATGAAATAAAATAAAATGATGATAAGTTGGGCTGGAG
AGATGGCTCAGCAGTTAAGAGCACTGACTGCTCTTCCAAAGGTCCTGAGTTCAAATCCCAGCAACCACATGGTGGCTCACAACCATCTGTAATG
AGATCTGATGCCCTCTTCTGGCATGTCTGAAGACAGCTACAGTGTCCTTACATATAACAATAAATAAATCTTTAAAAAAAAGATGAAAAGTTTA
AGGTCAGCCTGGGCTACAGAGCGAGTGCATAGTCAGCCTACACAACTTAGTGAGACACTGTCTCCAAATAGAAAGTCCAAAAGGGGCCTGGAAT
ACAGGTCAGCCATGGAGCTCTTGCCCAGCATGGCCCAGGTCATAGGTTCAATCTCCATTACAAAAGGAAACAACAAACCCTACAGAAAACCAGC
CCTGCCGCTCACCATTGTCACACAGCAATCCATTCTTCTCCTAGTCCACACATACTATTTCTGTGTTGAACTGTATGTATGTGCAAATTCCATA
GCAGTAACTCCAGAGGTGAAAGAACATTGGGGAGCTTGGCCTGATAAGCCTCTGCTCTGGGTAAGAGAATGGCCACTAAGCCACTAAGATAACA
CACAGGCCTCAGTCTGTCCCGAGATTCTCCGGTCTTTCAGATCCTGTTCAAATCTTCCTGTTCATCTTCCATTTCACAAAACCCAAATACCAAA
CCTAGAGTTAGTTTTCAGTTCACTCCGCCGATCATTCACGATGACTGTTGGAAAGGATGCTTATAACCCACGGCGGTTTCAAGCAAACGCCAAG
ACCAGGTCTAGGATATTAAAGCTGTTGGCGACGCCTTCCTGAATGCCGCTGGTTTTGATGGTTCTGCTGCAATAGTCTATGCTTCATAGGTCCA
TTTGGGGCCCTTCCCACGGCCATGCTGAGTGTCTGCATTTTGAAAACCTGACAAAGCTGGAAGTCAGTTCGAGAATATTGATCCTGGGTAGCTG
AGATGGTTCAGTGGGTAAAGGCGGTTACCGAGCAACCTGGCAACCTGCGTTTGATCCCTCGAACCCACATAAAGATGCAAGGAAAGAAACAGCT
CCATAAAGTCATCCTCTGACCTCTACACATTCACCGCGGCACGTGTGCGCCTGCACACACATCACATACGATAATAAAGAAAAAAATTTTTAAA
GATTTGACCTTTAGTGTACCAAAAGGAGAGAAAGCATTCATTCACTTTTAAACCCCGTGCATATTTACTCCAGTGGCTTTGAAGGGAATGGGGA
CAAACAAACAAACAAATAAATCAAGGTCTTTGTTTAACAGGTTGTGAACCATGGCTATGTGGATACAGGCTCAGCAGCTCCAGGGCGATGCCCT
TCACCAGATGCAGGCCTTGTACGGCCAGCATTTCCCCATCGAGGTGCGACATTATTTATCACAGTGGATCGAAAGCCAAGCCTGGTAGGTGAAC
AGCTTCTAGATCATCTTTTGGGAAGTACGAGGATATTGAACTTTGATGAGAAAAATGTTCTAACTGAGACTTTAAAAGTTGTGAGTAACCTAGG
CTTAGTGGTCCCCACCTGTAACCGTCATGATCCTAGCTGAGGCAGAAGGGTTGCAAGTTTGAGGCCAGCCTGAATTGCAGAGTGAGGCCCTGTC
CCTATCTTGGAAGAAGAAGAAGAGGAGGAGGAGGAGGAAGAGGAGGAGGAGGAGCTCTGTGTGTCGGGCTGGGTGTGTAGCTCAGTGGTAA
AGTACAGGCATGAGGCTCTAGACTCAGCCCTCAGGACCTGTCTCCAAGAAAAGCTGTTTGAAAATCTTCATGTAATTCATAAAAAGGTATTCAG
CCTTCTTTTAGATGCAGGGAGACGAAATAATTCTTGGAGTTTTAATTTTTGTTGTTTTTTAAATTATGTATATATGTGCACGTCTGTGTATGGA
TGCGTACACATGAGGGCACCTATCTGCAGAGGCCAGAAAACAGCTGGAGCTGGCGTTTCAAGTGGTTGCGAACCACCTGGTGTGGCCGCTGGGA
TCTGAACTCAGGTCCTCGGGAAGAGCAGGAAGCTCTCTTAACCACACAGGCCTCTCTCCAGCCTCTGAGCTTGCCTTGTTTTGGTTTGTTTGTT
TGTTTGTTTGTTTTTGAGACAAGGTCTCTCACTTTTTGAGACAGGCCCTGGCTGTCCTGGAACTCAAAAGTGCTGAGATTAAAGGCAAGAAAGA
ACCATGCCTGGCTTTTTTTTTTCCCCCCAAGGTAAAGTTTCACCGTGTAGTTATGAGTGGCCTGCATTCACTATATAGACCAGACTAGTCTTGG
ACTCAAGATCAGCCTTTGTCTCCCATGTGCTGAAATTTATATCTTATAAATCAGATATTTAACATATTGATTTAATAATCAAAACATTCATAGC
TCTCTGGTTTTTTTGTTTTTCTGAGATAGGGTCTCATACTATATAGCTCTGGCTGTCCCGGAACTCACTAAATGGTTTTTTTTTTTTTCTTTTT
AAAAACTAATAATGGTTACATTTCAGTGTTGACTTAGCCAACATTTTTATCTCTATTATGAATTATATACTTGAGCTTTAAAATTGTTAGATCG
GTATAACACAGTTCAGTAGCAATGCATCTTACCGTGCAGTGCTAGGACAAAGCTTACAACACACGAGACAGCTGTACCACTGAGCGGCTGCCTC
CTCAGCCCTGCCGCATCCTCACCAGCCATCAGCGGTGCCCAGCAGCGTGCAGGGCAGGGAGCTTGCCCGTCGTTGGCCTCAGTCTGTCCGTGAG
TGTCCAAGTTCATCACAAGTTCATCAGACTAGCCAGGCTTTGACCAGGGTGGTGAGCTCCTCTTTGGAGAGCCAGCCTTGTTGCTGCTGGGAGA
AGGCTGTCCCTACCGACTGGAGATGTTGCCTTACAGTAATTGCTACAGCTTGTTAGCAAGGCTCCGTTCAGAAACAAGCCTGCCGAAGGAAGGC
AATTAAAAAAAATCCCAGCTTCATATAATTAAGAGGGGGAAAACTGACTAAATATGAGAACATCAAACACACCTCAATTAGTCCAGTCCTTTT
CCTTTTCTTTCTGTTTTAATGATTTGGGAGATTTCGGAAAACATTAATAGGAAGTTTCTGCTGATTAAAAATCTCACTTAGAGGCTAGATCAGC
GGTAGAGCATTCGTCCAGCTAAGCAGACTGGCTCCATACCACAAAAGAGAGAACAAAAGCCAACTTTCGTTTATTCGAGTACAACAGCGCATTC
CTGTAATTCCAGCTACTCAGGAAGCTGAGGCAGGGGAATTACTTAAGCCTAGGAACTCGAGACAGTCCTAGGCAAATGGGCTTTCAGCCAGCAG
ATCTCCTGAGTAGTCTACTTATTGAATAAGCTTTGGGAAATTGGGGTTGATATTAAGGAAAACGTGGGTTTTAGGTAGGGTTTTGTTTTTTCCC
CATAGAGAAATAGAGATATCACCGAAGAGTTTCCAGCTCTCCGTATTGAAGCTGTCATGAAGTCTCTGATTGTAGGCTATGGTTGAGTCCAAAT
TGAGAACCAGACTCCTGTGTTCTGTTCAAAGACTGGATCCTCTCAGCCGGGCAGTGGTGGCGCACGCCTTTAATCCCAGCACTTGGGAGGCAGA
GGCAGGTGGATTTCTGAGTTCAAGGCCAGCCTGGTCTACAAAGTGAGTTCCAGGACAGCCAGGGTTATACAGAGAAACCCTGTCTTGAAAAAAC
AAACAAACAAAAAAAGACTAGATCCTTTCAACAGTGGGCTCCCAGTCAGAACAGAGGAGCAAGGCTGTGCCTGCAGCCCGTCTAGCCTTCCACT
TCATACATATTTTCTTCAACCCATAGAGAATACACTTCTAAAAATTGGCTTTGTCCCTACCCTTTCCAGACACAGGTTGGGTGGTCTCTGGTAA

GGTCGTCTCAGGGCTTTGGTGCGCGTCTGCCTAGCTGTTTGCCACCAGCCACTTGCTAACTTCAGGGATTTGTGGGTGGCTGTCTTTTTAGCTGC
CGCTGGCTCTCTTCCCTGGCTGTGGACCTGGTCAGCAGTAATTAGATATTATTTCAGCCTGACAGCTGTTTGGTTTGTCAGCGTGCTAAGTCAC
TTAAGTATTACCCAGCAGCAATTGTTGCCTAACTTAGTAGACAAAAATCTTTTAAGGACAAAAAGAAAGAAGATAAGGAGGAAGTGGACCCAAC
CCCTGTCACCAGCTGAACAGCTCAGGATGACACGAGGTCTGGGGACTGGCTTCTCGCCTTCACTGGAGGAGTCAGTGTTATTTCCAGGTCCCAT
ATCTGCAGTGATGACAGACTATTCTCCTGGGTGTGAATACTTGTAGGCATCTTCTGTCCTGATGCCTCCCTTCCAGGGTCCCTTAGGAAGGGCA
GTGACTGGGGGCCTGGAGCCAGTCAAGGTTGGAAAGAACATGCAGAACTATATACCCTGTCCCACATACCCTGGAGATACGAGTATAAACTGGA
AGTTAGAAGACCCCTTATTCCCTTTATTCCTAGGAGGGGGTGGGTTAATATCAGAGTCAGTCAGTAAAGGGAAGGGAGGAAGGAGTATTTAGAG
AAAGAAGTGTAAAGCTCAGCTAAAAGAATTGTAGAGTCAGGCATTGTAGACATTTAGCCAACTTATGTCGGGGTGTTTCTTAACCCGTGAATTA
TAGAAGAAATCACGTTCCAGACTCCCATGATGGCTCACACCTATAATCCCAGCACCCACAAAACAAATGTAGTATGTAAAGGCTGCATGTGTAC
AGGCTCCTATGCATGTATGTATACAGATTGTGTAATTTTTTTCCCCTAGGGACTCAATAGATCTTGATAATCCACAGGAGAACATTAAGGCCAC
CCAGCTCCTGGAGGGCCTGGTGCAGGAGCTGCAGAAGAAGGCGGAGCACCAGGTGGGGGAAGATGGGTTTTTGCTGAAGATCAAGCTGGGGCAC
TATGCCACACAGCTCCAGGTGGGTACAAACACTGGCCACACTTAGGCCCTGCCCTCTTGAGGACTTCTTCATTTAATTTTCTGTAGACACGTGT
TCTGATCTTTAACCCGGCATCGTAGAAATGTGTGTTTCACGCACATGGTTTTGATTGGCTTTGTGGTTGCGGCTGTTACCTTCTTTGAGACAAG
AGTCTCACCGTGGGGCTGGAGAGTTGGTTCTGTGGTTAAGAGCGCTTCCTGCTTGTCTTAGGGTTATTATTGCTGTGATGAAACACTATGACCA
AAAGTGAATTGAGGAGAACACCGTTTATCTGGCTTACACTTCCACATCACAGTTCGTCATTGGTGGAAGTCGGGACAGGAACCCAAACAAAGCA
GGAAGTTGGTGGCAGAAGCTGATACAGAGGCCATAGAGGAATGCTGCTTACTGGCTTGCTCCCCATTGCTTGCTCAGCCTGCTTTCTCATAGCT
CCCAGAACCACCAGCCCAGGGGCGGCCCCACACACAATGGGCTGGGCCCTCCCACATCAATCACTAATTAACAAAATGCCCTATAGGCTTTCCT
ACAACCCAAACCTATCATAAGAAGGCATTTTTCTCCACTGAGGCGCCCTCTTCTGATGACTCTAATTTGTGTCAGGTTGATAGAAAACCAGCCA
GCGTGCTGCTATTGTAGAGGACCTGGGTTCAGCTCTCAGCACCCACATCAGGAAACTCACAGTAACCTGGGGCTTGGAGCCCTCTTCTGACCTC
AACAGGCATCCACCCACAAGTGACATACAGACACAGAAATAAAAATAGAAACTAATCTTTATTTAAAAAGAAATGAAAAGTTTCACTATTTAGG
TCAGATTGGCCTCAAACTGGGGATCCTCCTGCATCAATTCCACTCCACCCCCAGTATGGGCTGTAGGTAAGCACCACTCCCAGCCATGACTTTT
ACTCTCTTTTAACTTCTTATTTCAAAATAATTTTGAATTTGCAGAAAGTTGCAGCAGAGGTACAACAAGGCCCCCTTCATATGCTCAGGTTCAT
TTACATCATCATCTCTCTCACGCTCCTCTCTCCCTTTCCCGCCCCCACACCTTCATGTACACATGTACACATACACACATACACACTCTCACAC
ATACACACATACTCATACAACACACACACATAGTTACACAATACACACACATACAAACATACACATACAGATGCAGACACATACACACACATAC
CTTCACGTACACATGCACACACACACACACACACACACATACACACACACACACATTTCTAGTTGCGAGTAAGTTACATACATCTCTCCCCCTGA
GTATCTCAGCATGTATGTTCTAAGAACATGAACTTCCCTTACAGGGTCACAATACAGTTATTCAATTTAGTGTGTTTTAACATTCACACAAACTT
TTACTTACTATTCTGTCTCTATTATCCATTTGTCAACTGACTCACAAGTGTCCCTCCAGTCCAGGGTCCAGTCCAAAGCCTCATATGATATCTA
GTTGACATATCTCTTTAATGTTTTATCTGGTTTGGTTTCAACTTTGTGACGTGTCTGTTTTGGAGATAGGGCCTCCATAGTGTTGTAGCCTATG
CTAGTCTTGAACGTTAAGCATTGAACATTAAGCAGTCATCTTGTCCCAGCAGTCCTGTCCACCTTTCCCTTTTCTTTAACCTGAAAACATTCAT
TTTTCGACCTTATTTTGGCTTTGATATTAACATTTTAAAATAATCACTTATTCCCTTACTTTTAATATTTTTACATTTTATTTTTAAATTTGTG
TGTGGGTATGTATGTGCACATGAGTGTAGTGCCCTCAGGGGTCAGAAGAGGGCATCACAGCCCCTGGAGTTGGAGTTAGAAATGGTTGTGAGCT
GCCTGAGGTCGGTGCTGGGAATTGAACTCGGGTCTTCTGTGAGAGCATTATGAGGTAGGGCCTCACCATGTTGTCTAAGCTGATCTCAAATTCT
AAATAACGGATGCATTGTCCTTCTGCAATGCCCCATCCAGAGAAAGAAGATGCCGGTCTTCCCTACTGTGACAGTAATTCTGATTCTAACTGAC
AGGAAATTTCCCAGTCCTGTGTCTTGTCTGCTGTGGCCTTTTAAAGACTCACCCGTTTCCAAGAATGTTGCTGTAGTGCTTTTGGCATTGAGGT
TCAGAAAGTAAAGCAGCCTTACCTTCTTAGTGCAACTGCATTTTCATAATGTCTTTCTCTCCATCCCGCCCACACCGGGGAACAGCACTGCCCA
TGACTCCATGGTTACCGCATCTCTACCATGAGTGCTCCCTGCCCTGGGTCCGGTTAACCCACAACAGAGTGGAGCAAAGTGATGTCTGCTGTTG
TCCTCTTTCAGAGCACGTACGACCGCTGCCCCATGGAGCTGGTTCGCTGTATCCGGCACATTCTGTACAACGAACAGAGGCTGGTTCGCGAAGC
CAACAACGTGAGTGTGCCCATGGTTGTGGGAGAGGAGTTGGGGTGCCCTTCTTGAGCCGTTTCCCCCTGGATCCCACTTTGTTGAGGTGACCCA
ATATGCACTAGTGTCTCTTTAGGGAGCTGACCTTAGCTTTATAACTTAAGTGAGGCTACAACCACAAAGCAAGGTGAACATGTGCAAACTAACT
TAACCAAAGCAAATCAGTTTTGTGTTGAAGCATGCTCACAATCAGGGAAATTACTTAGTAGAAATTTCTTCACACTCTCTGGGCCAGCTGCTGA
AGGAGTGGATCATACCTAGTCACTTAAACAGCCAGATCCACAGGGACCTTGTGCATGCCTCCCCCATCACTTCCTCTGAGGGGCTACAGACACC
TAGGAGCCTTCGGGTGTGGCTTCATCCACGGTAGAAGCAAATGGGTAGAAGCAAATGATTTCAGCACCAGTCTGCCTTGAGATAGATACAGACC
ATGTTTTATTCCCAATGTGTCCCCAGCGAAATCACAGTCATGGTATTGGATCAATGAGTGAATGTGGAATCAGGGTTATCATCATCAGGAGGAA
GACCCAAGTGACCTCTGGGGCATGTGGAGTTCTAGTTTCTCAAAAGAATTGGGCACACACATCCTCTGTGGGACACTCATGTGGAGGCCAGAGC
TGAAACAGAAGTAGGTTTTTACCGTGAAGAAAGCCTGTCGAGTCAACCGCCTCCACTCGCTTTCCATTCTACCCCGATTCTCACATGTGGCATT
TGTGATGTCTTCTGACCTCAAATTTAACCTTGGGGGTCTTAGCTTCACCTAGGGATTAAGACCGAAGGCTTCTTCCCACCCTCCCACACTGGAT
CTCCCCACCTGTCCCCAGGGCAGCTCTCCAGCTGGAAGTCTTGCTGACGCCATGTCCCAGAAGCACCTTCAGATCAACCAAACGTTTGAGGAGC
TGCGCCTGATCACACAGGACACGGAGAACGAGCTGAAGAAGCTGCAGCAGACCCAAGAGTACTTCATCATCCAGTACCAGGAGAGCCTGCGGAT
CCAAGGTGAGGCTGGCAGTGGAATCCTGGAAGCTCCGGGGGTGGGAGTAAGGTCTAGGAGCAAGCTCTGAGGAAGCAGAAGAGATCCTGGTTCC
ATTCTGAGCTGTGCCTTTGTCTGAGCAGAGTGGAACCATTCAGGCTGAAGAAGGAGCTGGGTAGCTTAGGGAGAGAACATGGCACCTGATGGGG
AGAGTGCAGGGTCTCACTCAGGCCTTCCTGTTCTCATGAAGTTTGGGGTCGCTGTAGAAGATGTTTCCTTTTTGAGATTTAAGGTGTTCATGGG
CTGGAGAGATGGCTCAGTAGTGGAAAGCACTGGCTGCTCCTCCAGAAGGCCTGAGTTCAATTCCCAGCAACCACATAGCAGCTCACAACCATCT
GTAACTGTAGTCCCATAGCGGCCAATGCCCTCTTACGGTGTGCATATATGCAGACAAAATATGCATATATATAAGTAAATAAATCTTTGCCAGG
CATGGTGGCTCACATCTTTAATCCTAGCATTTGGAATACAGAGGAAGGTGACTCTATGAGTTTGAGAACAGCCTGGACTACAAAGAGAGTTCCA
GGACAGCCAGGGCTATTACTCAGGAACTCTATCTCAAAAACAAGCAAAAAGCATTCATAGCTTAATAAATAGCTTACAGAGGACATATTATAAT
TGTATATAGTAAACATTTTCTTTTTTTAAAGATTTATTTATTTATTATATGTAAGTACACTGTAGCTGTCTTCAGACACTCCAGAAGAGGGCAT
CAGATTTTGTTACGGATGGTTGTGAGCCACCATGTGGTTGCTGGGATTTGAACTCAGGACCTTCAGAAGAGCAGTCAGTGCTCTTGACCATCTT
GCCAGCCCCAAAGTAAACATTTTTAGAGTAATTGTTTGTTTGTTTTAGACAGGGTTTCTCTGTGTAGCCCTGGGTGTCCTGAGACTCACTTTGT
AGACCAGGCTGGCCTCGAACTCAGAAATCCGCCTGCCTCTGCCTCCTGAGTGCTGGTATCAGAGGCGTGCGCAACCACTGCCGGGCCTAGTGTA
GGCATTTTATGAATGCAGCCTTGCTGGGATGGGAAGTAGGAAGTACATCACATCTAGGAGTGTGGGTGTAGCTCAGAGGTAGAATGCTTTCCTA
ATGTGTGAGAGCCTGGCCTCCATCCCCAGCACTGGAGGATCTCTATTTGTGGTGCCTGCCATTGAGTTGTATGCAGTTATTCAAGACTTTCCTG
TGACCCTGTATGCCTTCTGGACAGTGTTCCCTAGCCTTTGTTCTAAGGCACACAGAATTTGAGAATTCTTCCAGGAGTTGTGGAGCCTCCGCAG
CGCTCCCTCTTAACCCTACGCTTTCTTCTCTATGCGGGCGTGCCTGCCTCAGACAGACAGAGGGGGCTGGGGCCATGGCACTAGTGATTAAGAG
CACTGGCCTCTTTTGCATAGGAGTTGGATTTGGTTCCCAGAATCCACTTGGTGGCTCAAAACTGTCTGTAACTCCACTTCCGAGTAATCCAGGA
CCCTCTTCTAACCTCTGTGGGCACCAAGCATGCACGTAGTACACAGACATACACGTATGCAAAACACTCATACGCGTGCAATAAATCTAACACC
AATTTTAAAAATAAGACTCTCAGAAGAAACCTGTCCCCACACCCGCCTAAGGTCTCCTAAGGTCATGTGTGTAAAGCATAGCGCATTGCTATGT
TGACATTATTTACTGCCTCCCAGGCTTCCCAGATGATAAATCATTGAGAAGGAACTCTGTCTATTAGCTCTGTGCCCTGAGGCCAGCATAAATT
ACAGTTGCGGGCTTATCCTGGCTGTCTTAGTGTTGCTTTTGTCCATCCCAGCTTGTGTGTCCCTGGGGCAAGGACAAGGTCATTGTGACATGGT
TTTCAGAGGCCAGCCATGAGCTTCAATGAGACATGCCCGTATGCACAAATTCTTGGCAAGACCAGAATAAGGATGCTGGGCTACTCAAGGGCCA
CCGGAGGAAACAATAATGCCAGGACTCCGGTCTTTTTCTGGGCATGGAGCAAGGAACAAGAAGGTTTGCAGGCAGTGATAGTGGACAGGTAGTT
CAACCCAGGACGTACTTGATGGAGCAGAGCCGATGAGGACTCTATGTGACTCTGTGTCCTGCTTCGTCTCCCGGGTCTGTCCATTCGTATTGA
AAGGTACCAAAAGAAAACCGACGATGTAGCTCAGTTGGGGGAGTGCTTGCCTAGAATGCAAAAAAAAAAAAACAAAACAAAAAAAAAAAAAAAA
ACCTGGTTTTATCCCCAGAGCAGCCTCCTGAGCCGCTGTCAAGAGTCTCCCTTCACAGATGGAAGACTGAAGCGGGAAATACAGGGATTTACCC

AAGTTCGACCAGCTGATAAACCACAGGGCCACTTGCACACATAGGCTAACTTCAAACCTGTGGGGAGGGCAGGATGCCCTCTGTGTGGGGAGTG
TGGAGGCACACACTACTAAGCAGTTGCTTCCCCAACAAACACCTGCTCCCGGCCTAGGAGAGGCCAGGTCAGGAGAACCTTGATCCGCCTTCTG
AGAGAGCCCCTTCATCATGGGACACCCATTGCGAGCTGGAACTCTGACTTACTGTTGATGGGGTGTCTAGATGACCCTGAGAGTGGGTGATCCT
TCAGACTTCTTACTGGACACAAGAATTGATGGTGGTGGGTGTCCTGTCCCCTCCTCCAGCTCAGTTTGCCCAGCTGGGACAGCTGAACCCCCAG
GAGCGCATGAGCAGGGAGACGGCCCTCCAGCAGAAGCAAGTGTCCCTGGAGACCTGGCTGCAGCGAGAGGCACAGACACTGCAGCAGTACCGAG
TGGTTAGTGCGTGCCCTGCGACCCTCTGCCCCAGAGGGAGCTCTGTCACCTGAGATTCAGGGCACCAGGTGGGGGACAGAGCCTGGATGGGAGC
AGGGCCCCTCTCTCCTGGGGTGGAGCGGGTGTGAGGGGGCCAGGCCCTGGGTTCTAGGCCAGGCACTGAGGGATGCTCGCCGGGAGCCAGAGAG
CCGCTGTTCCCTCGCACAGGAGCTGGCTGAGAAGCACCAGAAGACCCTGCAGCTGCTGCGGAAGCAGCAGACCATCATCCTGGACGACGAGCTG
ATCCAGTGGAAGCGGAGACAGCAGCTGGCCGGGAACGGGGGTCCCCCCGAGGGCAGCCTGGACGTGCTGCAGTCCTGGTGAGGGTGAGAGGTGG
GCGGGGTGGGCAGCTTGGGCAAGGATGCCAGCTGCCTCTTCTGTCCCTGCCGTGGCGTGAGCAGCAGATGCCCACTGTCTGTGACAGCTCTCAC
TTTAGCAGTATCTTGGCTCTTGATGGGACTCGGCTCTTCAGACCTGTGCCACCTCCCACAAGGGACAGTGGTGCCTTGGGATGGGCAGGGCTAC
CCTTGAGCTGGTTGGTTCCAAGTTGGGGCCACCCTGACTGTCTTCTGCTTTTGAAAAGTGGGACTCTGCTCAGTGTGCCTGTGCAGGAGAGCGG
TGGCCAAGGCCAGCACCTTTCTGGGGCGGGGGGTGCTTTGGTGGGAAGGAGGAAGAGTAGCATGCATCTTCCTCCCCTGGCCTGGGCTGGAACA
GCAGCCGCCATCCCCCTGAAGGCCCCGGGCTCCTTGCAGGTGTGAGAAGCTGGCCGAGATCATCTGGCAGAACCGGCAGCAAATCCGCAGGGCT
GAGCACCTGTGCCAGCAGCTGCCCATCCCATGCCCCGTGGAGGAGATGCTGGCTGAGGTCAACGCCACCATCANNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

TTCAAGTTCAAGGCCAGATTGGCCTGCATGAGACCTATCCCAAACTAAGAAAGGGGCTTGGGGGATGGCTTAGTAAAGTGCTTGCCATGCAAAT
ATGGAGACATGAGTTTTTATATTTTATTTTATACATGTGAGAGTTTTGCCTACATGTATATGTGTGTAGCATGTTGTGCCTGTGGCCCATGAGG
CCAGAAGAGAGCATCAGATCCCCTGGAACTGGGGTTACAGATGATTGTGAGCTGCCATGTGGGTGCTGCAAAAACAGCCAGTGCTCTTCATCAC
TTGAGCTATCTCTCCAGCCCCAATAATAAATTTTAAGAAGTGGAGAACTCATGAAAAAAGACACCTGAGGTTGACCTCTGACCTCCACCTATGT
GCACATATGTGCTTCACCCTCACACACCCCCACAGGGAGGGGAGGAGGAAGGAAGCAGGAAGGTGAAGAGAGAGGAAGTCCCCTCTCCTGGCCA
TCTTGGTCACTGCCCTGTGTGGTGCGAGCACCAGACCACATCCCTCTGGCCCTAACTACCCTCGTACCTACTGACCAGCCAGCTGAATAGAATG
AGAGGCAGTGTATTACAAGTTCATATTCTAACTGTTTCTCAATCAAGTTGCCAACTAGAAACTTTCCACTCCTCCATGCCAAGTTGCTTCACTG
TGAGCTAGAGTTCTTGGCAGGTGTCAAGGACAAGCAAGTATTATACTTGGGGCTGCACATGTGTGCCCTCCCTCTGCTCACTTAGAAAGCCAGG
CTTGTCTGTCTGACTGCTCTCTCTCTCTCTCTCTCTCTCTCACTCCCTTCTTCCCTCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

SAGRES DISCOVERY 02-27

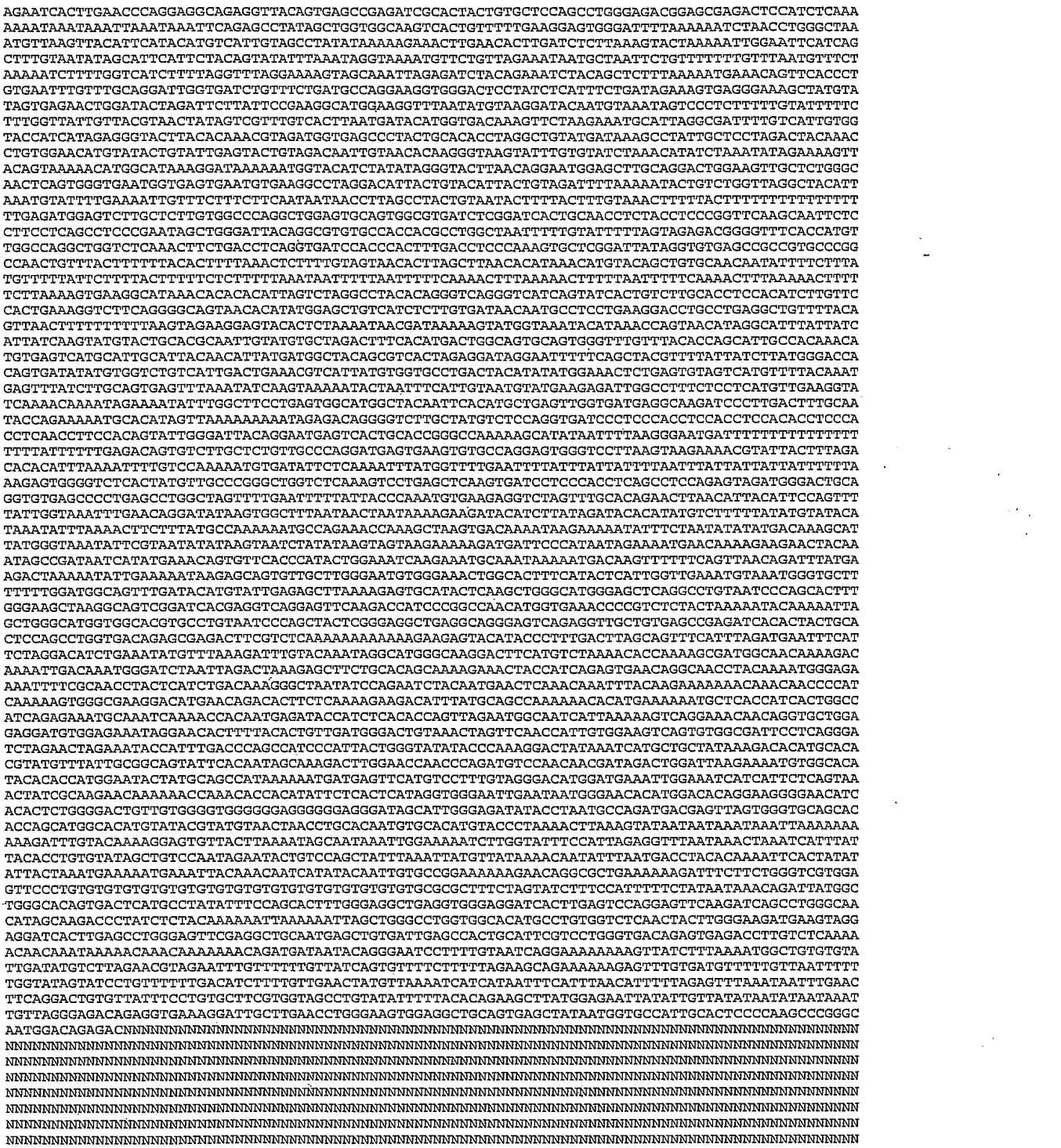
GACCGCCTGGGGGACCTGAATTACCTCATATATGTGTTTCCTGATCGGCCAAAGGATGAAGTATATTCTAAGTACTACACACCGGTCCCCTGTG
AGCCCGCAACTGCGAAAGCAGCTGACGGATACGTGAAGCCACAGATCAAGCAGGTGGTCCCCGAGTTTGCAAATGCATCCACAGATGCTGGGAG
TGGCGCCACCTACATGGATCAGGCTCCTTCCCCAGTCGTGTGCCCTCAGGCTCACTACAACATGTACCCACCCAACCCGGACTCCGTCCTTGAT
ACCGATGGGGACTTCGATCTGGAAGACACGATGGACGTGGCGCGGCGCGTGGAAGAGCTCTTAGGCCGGCCCATGGACAGTCAGTGGATCCCTC
ACGCACAGTCATGACCAGACCTCACCACCTGCAGCTTCATCGCCCTCGTGGAGGAACTTCCTGTGGATGTTTTAATTCCATGAATCGCTTCTCT
TTGGAAACAATACTCGTAATGTGAAGTGTTAATACT

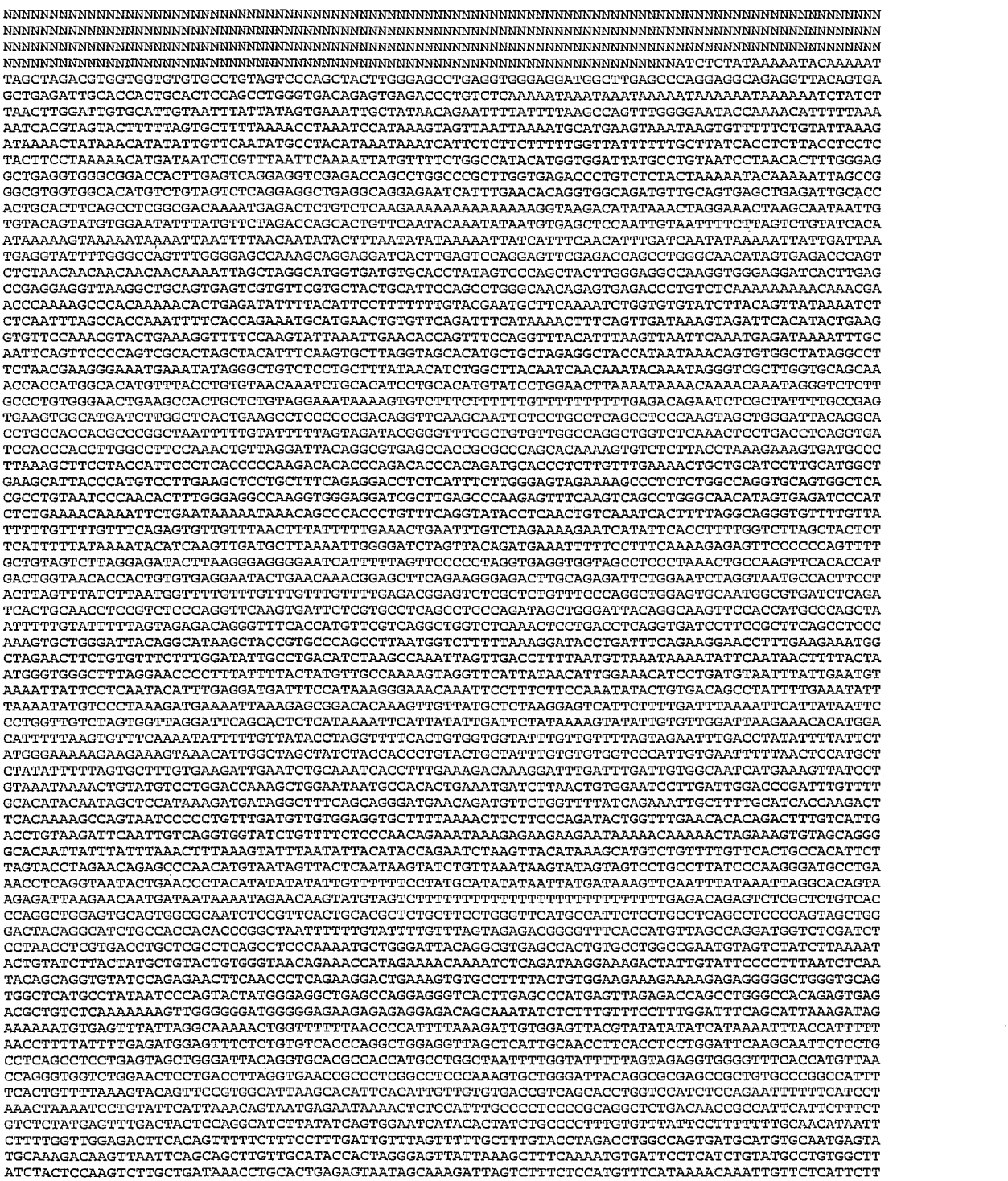
MOUSE SEQUENCE - CODING
ATGGCTATGTGGATACAGGCTCAGCAGCTCCAGGGCGATGCCCTTCACCAGATGCAGGCCTTGTACGGCCAGCATTTCCCCATCGAGGTGCGAC
ATTATTTATCACAGTGGATCGAAAGCCAAGCCTGGGACTCAATAGATCTTGATAATCCACAGGAGAACATTAAGGCCACCCAGCTCCTGGAGGG
CCTGGTGCAGGAGCTGCAGAAGAAGGCGGAGCACCAGGTGGGGGAAGATGGGTTTTTGCTGAAGATCAAGCTGGGGCACTATGCCACACAGCTC
CAGAGCACGTACGACCGCTGCCCCATGGAGCTGGTTCGCTGTATCCGGCACATTCTGTACAACGAACAGAGGCTGGTTCGCGAAGCCAACAACG
GCAGCTCTCCAGCTGGAAGTCTTGCTGACGCCATGTCCCAGAAGCACCTTCAGATCAACCAAACGTTTGAGGAGCTGCGCCTGATCACACAGGA
CACGGAGAACGAGCTGAAGAAGCTGCAGCAGACCCAAGAGTACTTCATCATCCAGTACCAGGAGAGCCTGCGGATCCAAGCTCAGTTTGCCCAG
CTGGGACAGCTGAACCCCCAGGAGCGCATGAGCAGGGAGACGGCCCTCCAGCAGAAGCAAGTGTCCCTGGAGACCTGGCTGCAGCGAGAGGCAC
AGACACTGCAGCAGTACCGAGTGGAGCTGGCTGAGAAGCACCAGAAGACCCTGCAGCTGCTGCGGAAGCAGCAGACCATCATCCTGGACGACGA
GCTGATCCAGTGGAAGCGGAGACAGCAGCTGGCCGGGAACGGGGGTCCCCCCGAGGGCAGCCTGGACGTGCTGCAGTCCTGGTGTGAGAAGCTG
GCCGAGATCATCTGGCAGAATCGGCAGCAGATCCGCAGGGCTGAGCACCTGTGCCAGCAGCTGCCCATCCCAGGCCCCGTGGAGGAGATGCTGG
CTGAGGTCAACGCCACCATCACGGACATCATCTCAGCCCTGGTCACCAGCACGTTCATCATCGAGAAGCAGCCTCCTCAGGTCCTGAAGACCCA
GACCAAGTTTGCGGCCACTGTGCGCCTGCTGGTGGGGGGGAAGCTGAATGTGCACATGAACCCCCCGCAGGTGAAGGCGACCATCATCAGCGAG
CAGCAGGCCAAGTCCCTGCTCAAGAATGAGAACACCCGCAATGATTACAGCGGCGAGATCCTGAACAACTGTTGCGTCATGGAGTACCACCAGG
CCACTGGCACGCTCAGCGCCCACTTCAGAAACATGTCCCTGAAACGAATCAAGAGATCTGACCGCCGTGGTGCAGAGTCAGTAACGGAAGAGAA
GTTCACGATCCTGTTTGACTCACAGTTCAGCGTCGGTGGAAACGAGCTGGTCTTTCAAGTCAAGACCTTGTCGCTCCCGGTGGTGGTGATTGTT
CACGGCAGCCAGGACAACAATGCCACAGCCACTGTCCTCTGGGACAACGCCTTTGCAGAGCCTGGCAGGGTGCCATTTGCCGTGCCTGACAAGG
TGCTGTGGCCGCAGCTGTGTGAAGCGCTCAACATGAAATTCAAGGCTGAAGTACAGAGCAACCGGGGCTTGACCAAGGAGAACCTCGTGTTCCT
GGCACAGAAACTGTTCAACATCAGCAGCAACCACCTCGAGGACTACAACAGCATGTCCGTGTCCTGGTCCCAGTTCAACCGGGAGAATTTGCCA
GGACGGAATTACACTTTCTGGCAGTGGTTTGATGGCGTGATGGAAGTATTGAAAAAACATCTCAAGCCTCACTGGAATGATGGGGCTATCCTGG
GTTTCGTGAACAAGCAACAGGCCCACGACCTGCTCATCAACAAGCCGGACGGGACCTTCCTGCTGCGCTTCAGCGACTCGGAAATCGGGGGCAT
CACCATTGCTTGGAAGTTTGACTCTCAGGAGAGAATGTTTTGGAATCTGATGCCTTTTACCACTAGAGACTTCTCTATCCGGTCCCTCGCTGAC
CGCCTGGGGGACCTGAATTACCTCATATATGTGTTTCCTGATCGGCCAAAGGATGAAGTATATTCTAAGTACTACACACCGGTCCCCTGTGAGC
CCGCAACTGCGAAAGCAGCTGACGGATACGTGAAGCCACAGATCAAGCAGGTGGTCCCCGAGTTTGCAAATGCATCCACAGATGCTGGGAGTGG
CGCCACCTACATGGATCAGGCTCCTTCCCCAGTCGTGTGCCCTCAGGCTCACTACAACATGTACCCACCCAACCCGGACTCCGTCCTTGATACC
GATGGGGACTTCGATCTGGAAGACACGATGGACGTGGCGCGGCGCGTGGAAGAGCTCTTAGGCCGGCCCATGGACAGTCAGTGGATCCCTCACG
CACAGTCATGA

HUMAN SEQUENCE - GENOMIC
AGCCCTCCCGTGCCTCCCACCCTGACCCTGTGCCCAGTGGCTGTGCCCTTGGTTGACCATCCCTCATTTGGTCTCTGACTGTAAGGCCCCGAAT
ATCTGTGTCTTTCATTGCACATTTCCCCTTCTGGGTTTTTTTTTTTTTTTTTTTTTGAGATGGAGTTTCGCTCTCGTTGCCCAGACTGGAGTG
CAATGGCGCGATCTTGGCTCACAGCAACCTCCACCTCCAAGGTTCAAGCGATTCTCCTACCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATG
TGCCACCACTCCTGGCTAATTTTGTATTTCTAATTTTGTATTTTTAGTAGAGGCGGTGTTTCTCCATGTTGGTCAGGCTGGTCTCGAACTCCCG
ACCTCAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGAATTACAGGCATCAGCTACCATGCCCGGCCCCCACTCTGGCTTTTATTCTCTC
TGTGTCTCTCCCTTGTCTCCTTAGGTCTCCATCTGGTTCTCTGATTCTGTCTGGGTTTCTCTCCATTTCTTCAGGCCTGTTCTCCCTTTGAGAT
GCAGTGGGGAGGAGGAGGAGCTATGGAACTTTCCCAGGATGGGCAAAGGGCACCCAAGGGAGTAGAGGGAAGGGTGTCAGAGTTGGGTTGGGAA
GAGGTGACTGTAGTCGTGGCTCCAGATAACACAACTACCCAGAAATGTCAAATTTGGGGTTTCTTTTTGCTTTCAGTCCCCTTGTTTGTCCCCT
TGTGTGGGTGATTTCCCACCACAAAGTGCCCTGGTGATTTTGGGGAACCAGGCTGTGGAGGAGAAAACTGAGGCCACGGGATGGGGGTTCAGGA
AGATCAGAAACTGTCAAGGGTCTGACTGAGCTGCGGTCCGAGGCTGGCCTCCTTGCCCCTAACTGCTCTTCACCCCCAAATCCAAGTCACAGTA
TTAGATGGGGAGTGAGGAAGGATTTTAGAAATCTTACAGAAATATATTCCCCAGGCTAGGTGCAGTGGCTCACGCCTGTAATCCCAGCACTCTG
GGAGGCTGAGGTGGGAGGATCACTTGAGGCCAGGAGTTTGAGACCAGTCTGACCAACATGGTGAAACCTCGTGTCTACTAAAAATACAAAACAA
TTAGCTGGGCGTGGTGTCACGCACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCACAAGAATCTCTTGAACACAGGAGGCGGAGGTTGCAGTG
AGCCGAGATCATACCACTGCACTCCAGCCTGGGCAACAGAGTCAGACTCTGTCTCAAAAAAAAAGAAAAGAAAAAAAAAAAAAGCAATATATTCT
CCAAAAGAAGACCTCCTATATTTTATTAGGAATAATAATAGTCTGCAGCCTAGGCTTCAGTTGGCACACTATATTCGTATCCTGAACTACATCA
AGGCACATTTGTGTACAGACATGGTTGTGCTCTTCAACTCAACGGATCCTTTCAATAACCTTGAAGGCAGTCAGGGCCAGAATCACACCCTTTG
ATTAGTCCATGAAAGAAACCTGCCCAAAGCTGTCTGGCCAGTAAGTGCACAGATGGCACCAGGATCCAAGTTGCCGGGCCTTGTGGGCAGGGTC
TCAGTATAACCTTTCTAAGCTTCCCCAAGCCCAGCACACACCGGCGGAGTGAAGAGGCCTCCCTGGGCTGGGCTAGCCCACCATTTTTCTGCGG
TGCGGAGCATGGCATCTCCATTCTCGCCCAGCCTACACCCCTGCTCTATTGAATGGGACAGTGTGCTCTGTGCACACTTACATGAAGGTGGGTT
TGAGTTTATGGATTAAGAGAATTATCCCAAAGGGCCGGGCATGGTGGCTCACGCCTGTAGTCCCAGCACTTTGGGAGGCTGAGGCGGGTGCATC
ACCTGAGGTCAGGAGTTCGAGATCAGCCTGGCCAATATGGTGAAACCCCGTCTCTACTAAAAATCCAAAAATTAGCTGGGCGTGGTGGTGCACA
CCTGTAGTCCCAGCTACTCAGTACGCTGAGGCAGGATAATCACTTGAACCAGGGAGGTGGAGGTTGCAGTTAGCTGAGATCACGCCGTTGCACT
CCAGCCTGGGCAACAAAAGCGAAACTCCGTCACAAAAAGAAAAAAAAAAAAAGAGGGAGAGAGAAAGAATTATCCCAGGTCCCCTTTCTGCCTT
GCCCTTGACGATCAGGTCTGCCCATGCCCCTACCCTGGGGAGAACAGATTGAGGTCACCTTGACTTGACCTTCCTTGGGGGGTGGAGGGAGGTG
GTACAGAGATGCCTTTGTTTCCTGTGCTCCAAGTCCCTTCTTCAAGGAGAGTTCCTGTTACATGGGAGCCAGAGGGGAGGTGGGGTAGGGGTGA
AGGGCCTTCCCAAGAAAGCTGGAGGCTTTCTAGGAAGTATCTTTTCACCCTGCGGCAAAGGGGAGAAGCCCTGGAGCACTTAAACATCCTGTTT
CACCCCCACCTTGCCTCTGCTTGGACAGCCTACCTGCACTCCAGCCCCCACCGGAGAAGGCTTCTAGAAGTGGGGCCATGGGCCCATGCTCAGA
GTATACCCCACCTCTGAGGCCAGGCCCTGGTACCTCCCTATAGAAATGCCACCCCCATTCTTGTCCAAGAAGACAGATCAGGACCTAGGGAGGG
TGTGTGTTTATATGCACAGGGTGAGGACTTCTGTGCAAATCTGGGGGAAGGGAAGGAGCTGCCGGAGCTTGGGTGAAGCCCGTTCCTGCCGCTG
TCCCCTATCCACCACTCTTCAGGGAAGTCACTTTACAGTGAAGTCACCAAGAGAACACAAGGCCATCCTGCCTGAGGCATAGTGACTGTCCTCT
GTTTCTGGGAATAGCATGAGGGGAAGGGTGTGGGGCTGGACAGGGTGGGTAGGAGAGGAGTCCTGCTTCCTCTGCCCAGCTGCCCAGCCTGCCT
GCCCTGGGGGAGAGGCTTGTAGGCCGGTTTCTTTCTGGACGAAGAGAAGAGGATGCAGAGTCTGTGCCAGGTTCACATTTCCCAGCCAGTCAGG
TGGGCAGGAGGAGCCCACCCTTTGCAGCCCCCTCATTGCAGGGCCAGGCCCAGGAGCCTGGAGAGAGGAGAGAGGGCACACAGAGCCAGGCAGC
TGAGTGGAATTGGCACTGTCCTGGGCAGCCCTGGGTCAAGCCTGGCTTCTCATCCTCATCCATGATGACTATCAGGCCGCTCTTCCCGCTGAGC
TAGTTTCTCCTCCTTCCAGCCCAACAAGAAATCTTTTGTGCCTTGGCCAGCCCAGTACCCAACCTCAAGCCCTCTGGGGGTTGTGTGCGAGGGG
GCTGAGCATCTTCCACGACACCTCCCAGTACTCTGCCACTTTCCTTTGTTATGACTGGAGGGGGTTCCTTTCTGTAGAATCTGTTTCTCATTGT
TTCTTCGTTTCTTAAGTCTCAGATCTACCCACATCTTCCTTGCTCCAAGCCTCAAAAAAGTGCTTCGGCCAGGCTTTTCCCCTTACGCTGGCCT

CTCAACTCCAAGCACTAGCCCCTTTCATTCCATCTACCTGGAATGTCATTCCTCCCTTGGCCACCTGGTGAAATTGGCCTCATCTTTCCTAGGG
TTAGTGTGGCCTAGAGGAAAACACAAAGGCTTTGGAGTCATAAGGTCCTGGTGCAGACCCTGGCTCTGCTGTAGGATCTTGAGTGAGTGAGTCT
GCCTCTTGGATCTAAGCATCCTCACTTGTAAAGAAATAGCAAGACCCACTGCTGGGATTTCTGTTAAGACCCAGTCACAGGCCCGGTGCGGTGG
CTCAAGCCTGTAATCCTAGCACTTTGGGAGGCTGAGGCAGGTGGATCACCTGAGGTCAGGAGTTTGAGGCCAGCCTGACCAAGCCAGCACAGAC
TCAGCATGGTGAAACCTTGTCTCTATTAAAAATAAAAAAATTAGCCAGGTGTGGTGGCAGATGCCTGTAATCCCAGCTATTTGGGAGGCTGAGG
CAGGAGAATCACTTGAACCTGGGAGGCAGAGGTGGCAGTGAGATGAGATCACACCACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCTGTCT
AAAAAAAAAAGACTCAGTCACAGTGGCTGGTGCATTGTAGGTGCTCAGAGGCCTTGGCCAGTAGAGCTGGGTGTTTTTTCCTCTGCCCTTCAAT
CCCATCTGTATTACAGGCCCCTTCTTATGGCCCTAACACATTGCCTAAAGGGCTATGTCCCACTGCTTGTCCACAATAGAGTCTTCATAAATAT
CTGTTGGATTAATGAAGGCCCCTAAACCAGCACAGAACTTCCGGAGCTTTGACGGTTCAGGGCAGCCCCCTGTTCACTGACCACCCCCACCATG
GTTCCCAGAAGACTCTCCCCCTGCTGCCCTGGCCTCTGCCTGCTCTGGTCCCACTGAGCTGCTTTTCTACACACAGTGGCAGCAGCAGCCTCAT
CTTTGCCTGGTGCTGGGCTGAATTTTGAGTTCTTAACCTGCCTGGCAAGCCAGCAAGATACTGGCTGCAGTGGCACTCTGCTCCCTCCTCTGCG
TCCGCCCCACCCTCCCTGGATAATGCTGCATCCCCCAGGACTCTGGGTGGAGAGAGCCCAGTGACCCTGTCCCAAGAGGCGGGGTCGGGGGATC
CTTGGCCTTTCCAGAGAGCCCACCCTTTAGCCTTTAGCTCTGGCTGGAAGGGAGCCCAGATTGGTGAGGCACACAGGAGCAAGACTGAGAGCAG
GTGTGTGAGACTCTCCAGGTGGCGAGTCCTCCATGCACCTGCACATCCATCGCTCCCGTCCTCTCCCCTCCCCTCCATGTGACAAAGCACCAGC
TCTCTCCTGGCCAGCACACTGGCTGGGATTAGGCTGAGGGAAAGAAAGAGAGAAAATGCTTTTTTATCAAGTGCCAGGCACAGTGCTTAGTTGC
CTTCACAAATGCTCTCCTTTTTCCTTTAAAAAAACTGTCTATTTTACTAATGTTTTAATAGGGAGCATCTGCACATGATATATGTATTTTGTAA
CAAAAGATTCAAAAGGGTATGTGGTGAAAAGTTAGTCTCTGCCCTTTCCTGTCCCCCAGGGCCCTTCTGGAGGGGCAACAACAGTTGCTGGGGT
CTTTTGTGCATTTAAATGCACGGAAGGATTCTGTGGATTTGAAACATATATTACACTCTACCCCCTAACTATGATTTACACGTGATGGGAAACT
GAGATCCTCAGAGACATTAAGTACCTAGACCAAAGTCACACAGCTAGTTTTTTTTTTGTTTTTGTTTTTGTTTTTTTTTTTTGAGACGGAATCTC
GCTCTGTCGCCCAGGCTGGAGTGCAGTGGCGCGATCTCTGCTCACTGCAACCTCAGCCTCCCGGGTTCACGCCATTCTCCTGGCTCAGCCTCCG
GAGTAGCTGGGACTACAGGCGCCCGCCACCACGCCCGGCTAATTTTTGGTATTTTTAGTAGAGTCAGGGTTTCACCGTGTTAGCCAGGATGGTC
TCGATCGCCTGACCTCCTGACCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCGCGCCCGGCCAACAGCTAGTAAGT
TAGCAGAGCTGGGATTTAGAACCATATCTAACTTTTCACCACCAATGCTCTGGCAGAAGTAAGCAGGGGCACTGACAGAGCCCTCCGAAACTGC
AGAGCCCATTCCAAACCGAGGCCACGCCATTCTGAGGCCTTGGAGATCTGGCATCCCCGCCTTCTTTTCTGTTGAGCATCCTATACCTTCTCCA
CATGGCTCCAGGGTCCTGTACTGACCTATCCCCCTATGGAAGGATTCATCCCCACAGGGAAAAAGGGACATTCCCACAGTGCCCTTTCTTAGCA
AATGTGTGGCCGGTGGTTGCCCAGGGTCAGCCTGACTCCTGGGATGCAGGAGGGAAGCCATAATAACGAAGGCCTCTGGTTTCTGGCCAGAGGG
GATCATGGTTGTGGCTTCAGTGACGTTCCCAGAAAATGGCCTCATGATCTCTGGGGCAGGAGTGAGGGAGGATGTGAAGCAGGGAAGCTGCCCC
CTCTGAAAGCCATGTGTTCATCTATGAGAGAGAGAGGGGAGGAGGCTGTAGGATGGGAGCAGGGGCATGCATGGACAAGGGCTGTGGACTAGAC
CCCCAGGCTCTTCCCCCAAGCCTCTCTCCTGGGTCAGGCTGGTGCACTAAGGGATGAGACCCTCCAGTGGACATTGCTGCATCTCCAGGTACCT
TCTTGGGTCATTCCTGATGGGTTGGACTGTGGGGTCTTTCAGGATCCTAGCTTCCTGTTCAGTTTCTTTCTTTCTGTCATGTCTTAAGTCTGGT
GTCCCCTCAATTTAAGGGAATATGTCCCCGAGGCCTAGAAGAAGAGGGTCCCACCCCATCAGAACTGTCAAGCAGAGAAGCAGGTGTCAGGCCT
TCCCATCCCAGGATGACAACATTCTGTTTTGCTGAGGTAGTGACCCAGAACATTCTGTCCTCAGCATCTGTGCACACACCCAGCCAGGTCTAGC
TTGGTGCCTGGTGACCATCAGTCAGAGATGTGCCTAGAGCTGCAAGAATCAAGAGGCATTCCCACCCACCCTTCAGGACATTTTTTTTTTTTTT
TCTGAGATGGAGTTTTGCTCTTGCTGCCCAGGCTGGAGTGCAATGGTGTGATTTTGGCTCACCGCAACCTCCGCCTCCCAGTTTCAAGTGATTC
TCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCATGTAATCCTGTAATGGCACCACCATGCCCAGCTAATTTTGTATTTTTAGTAAAGAC
GAGGTTTCTCCACGTTGGTTAGGCTGGTCTCGAACTCCGATCTCGGGTGATCCACCCGCCTCGGCCTCCTAAAGTGCTGGGATTACAGGCGTG
AGCCACTGCGCCCGGCCCCCTTCAGGACATTTAAACTAGCGCCCTGTGGCTGCCACAAACCAGCTGGCTTGAGTCCTAGACCGCCGGTCTTGGG
AAGAGGAGTATTCATCTTAGCTGCTACTAAACACCACAGTAGTAGTTAACCGCTATACAGTGCTTTACAGTGAAGCACTTTACATGTAGTAAAC
ACTTATTTCCCGCAACCCGATGAGGTAGGTACTGTCTCTATCACCACATTACAAACGAGAAGATAGAGGAAAACACACTCAAGATTACCCAGCT
CAAGGAATTGACAGAGTCTGGTTTGAGAACCTGTACTTTTTTTTTTTTTTCTTTTTTTGAGACAGGTCTCACTCTGTCGCCCAGGCTGGAGAGC
AGTGGCACAATCATGGCTCACTACAGCTTCAGGCTGGGCACAGTGGCTCACAAATGTAATTCCAGCACTTTGGGAGGCTGAGGAGGGAGGGTTG
CTTGAGCCATAAGTTCTTGAACAGCCCAGGCAATATAATGAGACCCTGTCTTTACAAATATTTTTTTTTTTTTGAGATGGAGTCTCACTCTGTC
GCCCCAGGCTGGAGTGCAGTTTCGTGATCTCGGCTCACTGCAACCTCTGCCTCTCGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCCAGTAGC
TGGGACTACAGGCGCGCACCACCACGTCCAGCTAATTTTTGTATTTTTAGTAGAGACAGGGTTTCAACATATTGGCCAGGCTGGTCTGGAACAC
CTGACCTCGTGATCCACCGACCTTGGCTTCCCAAAGTGCTGGGACTACAGGCGTGAGCCACCGTGCCCGGCCTACAAATAATTTTAAAAAATTA
ATCTGGGAGTAGTGGTGCACGTCTGTGGTCCCAGTTACTCATAAGGCTGAGGCAGGAGGATTGCTTGAGCCCAGGAGGTTGCCTTGAGCTGTGA
TTGTGCCACCACACCATGAGACCTTTTTTCTGTGAGACTGTCTCCAAAAAATAAAAATAAAAAAAAATCATCACACCCTTGACCTCCCAGGCTCA
AGTGATCCTCCCACCTTAGCCTCCTCAGTAGCTGGGACCACAGGTGTGTGTCGCCACACCGGGCTAGACCCTGTCCTCTTAATGACTGCATAGT
CCTTGTAACCTCCATTTGCATTCCTAGAGCATAGCATTTGTTCCAAAAATATTTATTGAGTGTCTGTTCTGGGCTTGAACACGAGTAGGAGGAT
TTAAAAGTGAATAGCATATTGCGTCTGCCCTTGGGGACAGAGACAGAAACATGAAAACATGAAATTGTCCTTCAACACAAGAAGTGCTGTAATA
GAGGCATGAATAACGCGGTGGGAAACAAGGAGGGAGGTCATGCTGCCTGAAGCAAATGTCACCGAAGGGCAGACATCAAGAAGGCAGGACATTC
CAGGCAGAGGGAATAGCATGTGTGCAGGGATGAAAGCTCACAAGAAAGAGAAACATGAGTCAGGTGCGGTGGCTGATGCCTGTAATCCCAGCAC
TTTGGGAGGCTGAGGCGGGCAGATTACGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTACAAAAATACAAA
AATTAGCCGGATGTGGTGGTGTGCGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGAAGGAGAATCACTTGAACCCAGGAGGTGGAGGTTGCCG
TGAGCTGAGACCGCACCATTTCACTCCAGCCTGGGCAACAGAGAGAGACTCCGTCTCAAAAAAAAAAAAAAAGAAAAGAAAAAGAAAAGATAAA
AGAGAAATATGGAGAACATGGAGCACCTGAGTGTCAAAACATCATGGGCAGTAACTGTCAGGGAGATTGCCAGAGAGCTCGGGGTTGGTTGGCG
CATCCATCCTGCTTCCTGCTTCCTTCTCTGGCCTCCAAGCTCCCTGAACCTACTCTGTGCAAAGCACTGTGCCAGGTGTTGGCCCAGAGTATGG
GACTGCAGCAGTGGCCTGGGTAGCGGAGAAGGGTTTTTTGACCAGCTGGAGACCTTTGTGGCTGGTGTCATTCTGGAGGTGAAGAGAAGGCCGC
TGGAAAGAGCTGCCCAGGGAGGACTATGGGAGAACTTGCAGCTCTGGGCCATCTCTGGACATGAACGTTTTGCATACACACAGGGGAGCTCTGT
GTGTCTGAGTGGGGGCGGGAGGGGTCCTTCTCTCCTTTTGGCCCCTGCAGCTTGGCTTCTGGAGCTTTCCTATGTCTTGCTTTAGTGCTAGCC
CTTGGAGGGTTGCCAGGGAAACCGCTGGCCAGCTCCGGGAGATAGACGTAGCAGAGGAAAGGAGAGTGGGTGACTCAGCCTGGCTTCCCACAAC
CGCAACCCCCTCCTCAGCACGTGGAAAGGATCTGGGGGACCCCCTTCCCCTGGATCCTACAGATGACCCTGTTTATTCTTTCTTCTCTAGAGAG
AGCAGTCCCTCCCGCAGCTCTGACTGGTGGGAGCCAGCCAGATTTTCCCAGGAAGGGAACCGGCCCCAGGCGCCCCGTCCCCCGTAGGTTCACC
CTGGAACTCGGACAGGTGAATTCGGCCTGGGCGAATGTGAATTCCTGCCGTGCCCATGCAGGCGGCAGGAGCCCTGGCTGAGACGCCCTCCCGG
GGGCAAACCCAGGATAATTATTGATCGGGGCCCCTGTGGACTTCTGACCTCGGCCTCGGCGGGAGAGGACCCGGAACGCGGGCCTGGGCTCCCA
GGGAGAGAGGTGGGCGGGCCGCGGAGGGGGCCAACCAAAACGACCACGACAGTGCGCCCTAGCCCTGCTAGTGGTGGTCGACCCAACCCAAACA
AAGCAGCATGTGCTTGCGGTGCGGCGTCGGCTAGGGAGCCGAGCCGGGAAGACACCCCACCGCCGCAGAAAGGGGGTGCGCGCGGCGCCGGCAC
CGGCACCGCCGAGCGCGCCGCCACCTCGGGTGTGCCGAGGGGGTCCGGGTCCTTCAAGGGCGGTCGCGGAGGGGGCGCGAGGGACAGCGGGCTA
GCGAGCGCGCGCCGGGCGGAACCAGGAAGCGGGGCGCGCTCCGGGTTGCCAGCGGCGCGCGTCCCTGGGCCTCCGCGCGTGAGCGGCGCGCGCG
CCCCCGCGGGCCCCGGCGGGAGGAGAGTCGGCGGCCGGAGCCGTCACCCCGGGCGGGGACCCAGCGCAGGCAACTCCGCGCGGCGGCCCGGCCG
AGGGAGGGAGCGAGCGGGCGGGCGGGCAAGCCAGACAGCTGGGCCGGAGCAGCCGCGGGCGCCCGAGGGGCCGAGCGAGGTAGGAGCTGCGGGG
CGAGCCCTGGGCCCGGGGCCGGGGGAGCCAGGCCGGGGAGCCAGCCCGGGCGGGGCCCGCGCTCCAGCCGCTCAGCCGCCCGTCAGGGCCGCGC
CGCCGCCATCACTCCCGGGCCGCGGTGGTTGCGCGCTGGGCGAGGGGCGCGCGCGGGGAGAGGGGGTCCGGGTTGGCTGCCGGGGAGGCTGAGG

GCAATGCGGGGTGCGCGAGGGGGACTTGCGAACGCCGCGGCGCCGCGGGGGGCGTGCGCTTTAAAGGCTGCGTGCGCGTGTGCTGAGTGGGTGT
GTGGGGACCCCGCGCCGACCCCATAGGAGCTCAGGGGGCTGCTGTCAGCCGCCTCACACCTTCACGTTGCAATTCCGAATATCCCCAGCCGTCT
TCCTTGCTTTAACTTCTTTCTTTCAAAAGAGGTTCCCGGGACTCCGGGGATGGGATGAGCCTGCGGGGGTGCCTGGTGCGGTGGGGGGTATTAG
CAAAGCTTCAAGAAACAGGGCCTTATAAGGAATCAAGACAACAAATACGAACGTTTCGATAAGACTCTGGGGGGCGGGATCCCACATCAGGACC
CGCCAGGCCTGGGCTCGTGCGTGTGGCCGTGGGATGCAGTGTGCTTTTTCTTTCTAGTCAGGGATAAAGGGTTAAAAGTGCTCCTGGTGTCGGG
GGGTAGATATGGAGAGTCGGAAGGGGAGTTGTATCACAAAAGCTGGTCTGAGGCTAAAGGAATCTGGCAAGATGGTCGGGGTGAACAAAGAGGA
AAGAACTCACACGGAGCAAGAGGCGGTTGCAAACACTTGTAGCCAGCAGTGATGGAAAAGCCAAAGAAGAAAACCAAGTGTCAGCTTTTAGAAA
GACGGGATTAATGAAAAGCACAAGAATTTTAAAGACTAAAAGAGATACCGATTCTCTCTTTGCCAAAGAGCCAGAGTCAGTTCTTTTCTTCTTG
GTCCCTGTGATCCCGCCATACCTCGTATCAAATAAATAGTGCCAAAAGTGGGTCAAAGAATGTTAGAGCTGGAAAGGAACCCAGCGATGATGCC
ATTCTTTTATTGTACAAATGAGGAAACTGAGGCCCAGATAGGTGGAGTAAGTGGCCTGCTCAGGTGACACGGCTGTTTGTTGAGTATCCAGGGA
TTGAAACTTCAAGGACTCTGAGATTCGTGCTCTTCCCAAAGCATCGTGCAGTATACAGATCTTTGCCTAGATACAATTCCATACATTTTCTCTG
CAGTGTCCTCAGGGAATGCCCTTTGAAAGGGCCAGCGTGACACTGAATATCATACTTGGGCTTATGTCATTTTTTTCAGTCTTCAAGTGGTGTT
TATGGTCTGCTTGGATCTTAGGTTTCCAAAGCTGTTGGATAGCCGCCTGGGCCATAATAAGCTTTCAGCTGTTGGGTCTACATTATTTCAAATA
ATTTTGTTATCTTTCAATTAAGGTAATAGAACTGTGCCTCTCTCCCCAACATTCTATTGTTGTCCATTTGCTTATGTTATATTGCGTTATGTTC
ATTGCCTGTGAGTTCCTAGGTGAGGATGTATTTTATTGAGTGTGCCTTTCATGTTTTAAAATTTCATTTTGTAACACTGTAAATATTGGAGTGG
TTCTGATCACTTCAAATGGGGAGAATCTTATTGATTGATTTTATTTTAAGGCTTTGGGTTGTTTTGTTTATTCATTTGGGTACCAGTTTCCATC
TCATGGAAGATCACAGTTGTTAGAATGGACATGGCTAAATAAGAGAAGGGGCTGCTGATTTTAAGAAAAACTTCCTATGTGACAATTTGTGGTA
TCTGTTACGTTTAATTCAAACAAGTCCACACCTTGGGTCAGGTAAGCGCGTTATCTAGGAGATGACTTGTTTGCTACTGTAGCCTCTGGAAGAT
GAAATTTCAAGCTCCAGATTGAGACACAGGGAAGGAATGGAGAGGTTTTTTTTTTTTTTTTTTTTTTTTTGTAAAGCAAACCATCAGAAAAAA
AAAGTTGATTTCTATCACCAGTAGTTTGGTTATTGCATAACTTGAAGCTAAACTCTGCACAAAATAATCTTTGCTATATACCCAACTAGGTAAA
CTATCCCACCTTCTCATCAGTTCTCACCTTTTCGGTGCTTGTATTTTTTGCCCACGGGATATTAATATGGATTGTGTTCAGAAATTTAAGGTGT
GTACTTCATAGTATGTATGATTGTAGGAGAAAAATGTGCTATCATCGTTTGGAGTGTTACAACATAAATATTTTGGTCAACACTTCCTATCCTG
CTCTGACTTTTCATCTCATCTCCATTTTCTTCCTCTCTTGATTGTTTTTATGTCATTTACATATGTAAAAGCCACATCAAGACTAAAGTTGCCA
TTTATTACTTTTTGATACTTAAGTCGAGTTTTTTCAAATCATAGTATTGTTAGTATTCAAATTGTCTGTAATTTTTGTTAGGCTTATATATTAT
GAATCCATTTGTTGTGGTTTATTTGGCTTGTTGTTATGTAGGTAGGTGACACAGGTAGTCTTATTGTAAAAGGAAGACGTTATAGATAGGTAAA
TAACATGCTCAAGATTAGATGCAGGTTACAGGTGGAATCGAAGGAAGCCTAACTATTTTCGTGCCCTACAAAAATGTCTGTATCTCATAAAGTT
ATTCACAGATTTCTGGACATTCTATCTGTGACACATTTTTTCCCTTTCTGTTAAGAGTGCAGATTACTGCATTATTCCTACAAAAGGAAGCAAA
ATAACCCTAGTTTGTATGATTTTTCTGATAATTTGAAACTTATTCGTTTAAAAAGCTATCTGGCAATTCCAGGTTACTGGACTCTTGAGAAGAA
TATCCTTTTATTTTGATACTATAAAATATCAAAGTATCAAAATACTTTAACTGTGCAACTTAATAAAAATAATGCTTCAAAGTTAGCTCTGCAC
TATCGCTGTCCTCAAATGTGTGGTATTTAAAGGAAGAAAATGTTTTTAATTCTGAGCTTTGTGAATAGAACTCTTCTAAAATCAGAAGTTTTTT
TTTTTCTCCTGCAGTGTTGGAAACACAACAGTTTTATGCTTATTTCTGGGAATAAGAAAGTCAAACTTAACAATCTAGTTTCCATTGATCAGAC
AGTTTTTGTACTTAAATTTAAGTTCTAAGCATCAGAGTGATAAATACTTTTTAAAATTGTATTCACTGTTAATTATAGTGGCCTTATTTGAAGT
AAAATCTTGACATTGGGTGTTTTATTAATGATGATCCTCTGCTACTGAAAAGCCTATGTCAGTTTGGAGAAGATTTTGCACATCTAAATCTATG
CTGTTTTTACTAATCAAAAGAGAAGAGCAATTTACAGGTGTTAGATTTTTAGTTGGTTGAATGAGACCCTCACTTTTGATGGTTTCAGAGTTGA
AGTGACGTTTTATTACTTTTGTTAGTTTGGGTCACACCCATCACTTCCTTGGAAGGTATCTTTGAGGTTTGGTTTCCTTTTTTTTTAAATGGTA
ATATTGGGGTGGGGGTGCTTCCTGTTTGTATTTTCAAAATTAGGTCCACATGTTAACCTTCTTGTAGTGTCACATTTTTATTTTAAACTTATAC
AGACAAACATCAGATGCCATGTGGTTTGTCTCTGACCCTTTGCGCTACTTCATGACAGCTTTACTGAGTGAAGCCTGAATACCCAATCGGGAAG
GCAAGATGTTCTTGTCTTTTCCCAACTCTCTTCAAAGTTTAACAGCCTTGGAAGGAGTCTTAGAACAGCAACAAAAGCACAATTTACAGAAAAA
TGGAGGTGCTGCTATCTGTTTCCTCGCAGGTACTTGGAAAATGTATAGCACTAAGATAGAGTTGAAACATGTTATGTAGAGCCTTGAATGTCGG
TGCTTCAAAGAGGAGTTGCTCTGGGTTTACATGATACAGAACCCCATGGTTTATATTAAGTAGTAATGATAGCCGTTTTTCTGGACTCGCTTAA
AAGCCATACACAGTGTCATGGAAAAGAGTTAAGAACAAGGTGAAATTCAGGGTATGGTATTAGAGCTCAGGAGGAATCACCTTCAGCCTTAAAA
CTCTTCCTTTACTCTCCTGGATCACTTAAGTGATAGGTCACTTTTAATATAAATGTTGCAGGATGAGTTAAGTGGAGCCTTGAGAAATATGTGT
AGATTGTTTCAGTGATTAAAGCAAGTGTTCTTTTCCTGGCCTTTAACTCGCTTTATGCTAAGAAGTGTAATAACTAAATAGACTCCTAATTGAA
TTGACATTCAGATGTGTTTGCAGTTTAGGGGGAGTTTACCTCTTCTAAATTTTCATTTGGATCCCATTACTAAAAGCAGTATTGCATTAGCATG
GTGCACAATTATGTACAATTCAATTTGCAAATGAAGTTAATACTTGGAGTATCTTGACTTCCTATTCCCCTGCTGCCCCAATATTCAAGAAAGG
AGAAGTTATAATTTGTCACATACAAGATGGTTTCTTCTTTAGGTTTATTCTTAATAACTATGTCCATTTTCACATGGATGACACCACTGAGATG
ATGAATACCTGTATTGATTGATTGATGAAGAACATTTATCTTTTTCTACCTACTTTTGGAAGCTAGCTTGCAAAATCTACTGCAACATTCACTC
TTCATGTATCCTTCTATTACCTTTGGTACCCTGAATAACCTTTTAAAAATTTTTGTACTTTTCTAATATGAAGAGAAGTAGCTTCATATTCTAT
GCTAGTTTTCTGAGGTGCTTGTGCTGACTCATTTTTTAAATTATACTAAGATATAGAGCATGGTTTGAGAGCAGTAATGAGATTCTCAGAAAAT
ATGAAAACTTTCCTTTCTGACTAGTTAGAGAAAGGTTGGGGAAGACAAGGGGAAATACATCAATGAGCCAATCAATTATTGTTATTTGTTGGGA
TTAATTTGGTGACTAATATTTTTAATGCCCATCAGGCTACTAAATGTGAATTTGGCTTTACCCTGTAATGATAACAGGACAAACCCAACGGGTT
TCTAACATTGCTTGTTTTCCCCTGGTAGGGGATTTCTTTGCATATGGGAAATCAGGCCGAAGTTGCCAGTAACAGCCACATCCATGATTTGTAT
TAAAAATAACTATTCATCATTCTGGGCTAGAGCTCTGCTTACCATGGCTCACCTGGGAAGATATTCTGATTATGTATCTAATCATTATGATGCC
ACCTTTCGAGAGGTGAGCAGACAATTAACAAGTCCTTCAAATTATGTTCAAAACCCAGAGTTTGAGAAAATGTTCCAACGCCTTCAAGTGTGAA
GATAATAAAAACATTACCTAATGCTTACCGTTCACTGACAGTGTGCTGGGCAGACATTGTTTTCAGCTCTGGCCTTGTGTTAACTCGTGATTCT
CAGAGGAGTGGGTATTATTCCCAGATGGAAGATGAAGAAATGGCCACAGAGAAGTTAAGTAATTTGTCCAAGGTCACATTACTGTTCTTGGCGG
GGCTGATTCCAGAGACTGCATCCCTAACTAGTGTACAGCAAAAGCGAGCTGGCCACTGCCACTTTGTTATAAGACATTTTGTTTCTTTGAGGCT
TGTATTTCTTTGTGTTCCCAAATGGAGTCTCGTTGGTTTTTGAATAGAAAATATTTTTATATGTTTAGGATTTTTTTAAATGTTGATGAAGATG
GTGATAAATATTTTTCCAATTAAAGTATATACTTCTGGTGGAAATTATATTAAAGAAGAGAAAGTCTTAATTTTTATTATAAGTTGTCTTTCAT
TCTTCTTCCCCTAGCATTACCGTGTACATCATAGAAGAAGAGCTATAAGCTGTCTCCTTGGCCTCTGTTTACAAACAAAGGGATCATTTGTGCC
AATGTAGTGGGTTTGTGTTGACATGCACGTCTGTACTGAGAACTCAACAATCCCACTCATTTTATTTACAACTTTATTTTGCGGGGATTTCTGT
CCTATTCTTGTTGCATTAAAGCTTTTTAGAGCATTAGTCATGATTTCTGAGACAGATTTAAGAATTTTACTTATTTGGGCTAATTTATTATTAT
TATTTCTTGAGACAGAGCCTCGCTCTGTCACCCAGGCTGGAATGCAGTGGCGCGATCTTGGCTCACTGCAACCTCCGTCTCCTGGGTTCAAGAG
ATTCTCCTGCCCAGCCTCCGGAGTAGCTAGGACTACAGGCATGTGCCACCATGCCCAGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTTGA
CATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCTCCTGCCTTGGCCTTCCGAAGTGCTGGGATTACAGGCATAAGCCACCATG
CCCAGCCTATTTGGGCGAATTTTTAAGGCAACTGAACTATTGTATGTCTAGAGCTCTGCAAAGGCCATTAGAAAATAGTCTCAGATTTTTTTTT
TTTTTTCATTTATGATGCTTACTTTCTCTCAGCACTTTTCCTTGGGAGTGGATTGTGAAGTTAAGTCTTGGAAACAGAATTCACAACCCTAAAG
CGTAGTGCTTTAACTTTGGGAGATCAAGTCACAGACAAGAAGAACTTCAATTCCCTGTGCAGAGTATAAACTTGTTCAAATAAACAGAGGATGT
TAGCTTCCAGGATTGTCAACTGTCACCTTTGACCAGGGTTGAATTTTCTTTGAATGTTGACAGAAGTTACAATGTCAGTGGAAAAAGCTTAATG
TGAGGTATCTATAACTCAGAATTTCCTTATGTTTGTGTCAGTGAGATCCTACAATTAAAGCTGCTTCTTTTTTTCTATGTCTGATGAGTTTTAA
AAGCCTTCACTGGGGTTTTCCAGCCTTTAGGTGAGAGTAAGTTAAAAAGTTTGTGAGAAACTATTTTTTGTTGTCTAAAATTCAGAGCCTAGGT
CGGGCCCAGTGGCTCACGCCTGTAATCCTAACAATTTGGGAGGCCGAGGCAAGCGGATCACGTGAGGTCAGGAGTTGGAGACCAGCCTGGCCAA
CATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAGCCAGGTGTGGTGGTGCACGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGA





ACAGCCTGATTATGAACTGGAAAATTACAGGTACATTGTTGTAATTGTTTATACAGACAATGAGACATACTCTCCACAGGGGACCTCAGCTGCA
GGGGAGGTTCTGATTGCGTGTCATTAAGAAACGACAGTTAAGAAACTTTTTTTTTTTTAGACGGAGTCTCGCTCCATTGCCAGGCTGGAGTGCA
GTGGCACGATCTCGGCTCCCTGCAACCTCTGCCTCCTGGGTTCAAGTGGTTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCGCATG
CCACCACACCCAGCTAATTTTTGTATTTTTTGTAGAGACAGGGTTTCACCATGTTGGCCAGGATGGTCTCAATCTCCTGACCTCGTGATCCGCC
TGCCTAGGCCTCCCAAAGTGTTGGGATTACAGGCATGAGCCACCGCACCGACCTTCTTTTTTTTTCCATTTTTAAAAATTTTCTATTCTCATTA
CATCTTCCTTTCTCCCTACTTTTCCTTCCCTTCCCTTCCAGTTTGTCCTTCCCTCTCTCTTTCTTCCTTTTTTCTTTCTTTTTCATTCTCAT
TTTTCTGAGTAGTTGCTGAAGACACAGCCTGACCCTAGGGGTCCAAATATAGATGAAACAATCATAGCTCTCTAGCAGTTCACCTGGAGGGAGA
GAGAAAAAGAGAGTAAGAGAACCAAAATGAAGGGGAAATATTCTTAATTTTTTTTTTTTTAAGGACAGAAACTAACTTGTTGAGGAAAAAGAGA
AATATACTGGGAGTTCTGACTGATAGGAACAAAGAGAGGACAGCTTCGAAGGATGATTTGAAAAGTAATCTATGGAATTTAGCTTTAAAGCAGG
ATCTTGGGCTGTAGACTACTTTATTATTATTATTTTTTAAGAGACAGAGTGCAGTGGTGCAGTCATGGCTCACTGTAGCCTCAAACTCCTGGGC
TCAAGCCATCCTCCCACCTCAGCCTTCTGAGTAGCTAGGATTACAGGTACATACCAGCACGCCTGGCTAATTTTTTTAATTTTTATTTTGTAGAG
ATGAGGTCTTGCTGTGTTGCCCAGGCTGGTCTTGAACTCCTGGCCTCAAGTGATCCTCCTGCCTCAGCATCCCAAAGTGCTGGGATGTTGTGGA
CTCCTTTAGAGCCTCTTGAAATAGGGCTAGTAAAGTGATTTTCTACCACTGTATCTGTGCTCATTTACATTGGGCAGATCACTTCTGCTTGACT
TCATAGTTTCAACCTATAACATGAGGGGTCAACAGGTAGATTCGGAACCATCAGAGTTTAGGCCGAAGCCCATAGAATATGAAAGTTATTTTTA
AAATTTATTTTTACAATGTCTACAAATGCAGTTGTTAAAGTGCCAGAGACAGAAGTATTGACAATGAGAAATTATCCAAAACCAGGCCAGGCGC
GGTGACTCACGCCTGTAATCCCAGCACTTTGGGAGGCAAAGGTGGCAAGATGACTTGAGGCCAGGAGTCACAGGCTGCAATGAGTTGTGTTCAT
GCCACTGCTCTCCAGTCTGGGCCACAGAACAAGACCCTGTCTCTAAAAATAATCATCATCATCCAAAACCAAGACTGGCTCCTATTGGAAAGGT
GGAAATGGTTGTGATGGAATTCAGCAACACCAATACCTTGGTATTTCTGACTTTCAGGATGTTAGGAGACTCTTTCAGTCCTTCCTGTTTAAAT
ATGAATGGATATGTATTGCCATTATTGCCCTGCCCCTACATCTCCCAAATTTAGATTGCTAGTATTTATGTAAGTTTACTAGTCACAAATAGAT
TCTTGCATTTCCCATCTCTTGTCATAGGGCCCTCTTTGAGTTCAATATGCTTTTATTGGCACTTACTTTGGTTTTCTTTACAGCAGCAGCTGCT
AATTAGTGACAGCTTTTGAGCAAGCAGCTTGTCATTTTTGGCAGAGATAGGGGACATCCATAGCAAGTCAAGACTATATTTTCATTTGCTAAAT
TTACTTTGCTACATGGAAATACATCTTGGATAAAAAATAGTCTGTAGTCAAAGGTGGCTGTGTTTACTGAATTATCTTCCTGAGTTGGCATTCT
GTCCTGTAGTTGAAGAACTCACAGAGATGAAAAAAAGAAAGAAAGAAAGAAAGAAAGAAAGGTTCAACGTCTATCAGACTGATGCCATAA
GTCCTGAGTCATCCTTCTAACATTAATCTACATTCTGGGTATAGAACCTCATCATCTTGTTTTGGCACAATCATAAATCTTTCTGGATTGTAGT
TAGTGGCATACATGGTAACTGAATGAGTGAATTGTTGACAAATGTGCTTTTCGTTTATACTCAGCTTCTTTCTTGAGATATAATTAAAAGAAAG
GTTAGTTTGCTTAGAGAAGATCCTTTCTTTGGAATTTTAGCTCATCTTAGCATCATCATATTTCATGTAATTCTTCTCTTTGAAATTGCTGCAA
TAAAGTGTTAGCTCTATTTTACAAACTTGTCACGATGTTTATGAGGGTGGCACAACTTGCTATTATGTTTACCTTGATTAGCACCAATGATGAG
TCAAAACCTCCGTCATGGTTTCTATAAAGTGTGATTCACTCCCATTATTCCTGTAATAAGGATTCAGATTAATGACCTCCACAGTGTTAAAAAT
ATCCTGAAGGAAATAACTGACCTACCATCCATTTCCCCCAATTTAGGTCCTTTTTGTAACATGGAGGTCTATAAAAATTGTATTCAATACACAA
TTACTAAATACCAACCATGTATATCAAGTACTATATTGGGGAAATCAAAATGAATCAGAGAGACATGGTCCTTGCTCCAGGATGGCTTACAGTC
TATTAGTTGGCCAGCAGATAACTTAGTTGCCTTGGTTCTTATGTCCAGAGTGTAGGGTAAATTCTAATTCTAGAGGAGGAAAACATCCCATCTT
TTAAAAATAAGATTATCAAAATGATCAAAGACATTGGATACAAATATTGTACTGATTCTATTTCTACCTAAAGGTGTTAAAGATTGTTTGAGGC
ACTTTTCCTAGGCTTGTGGAACTGCCAGGCATCCTTGTCCCAAATTTCCCCTTGATATATCGCACAGCACTGTTAAATTCAGAAGTTGCCTTCT
GTATCAGAGTGTCTATTTCTTGATGGCATAGCTTGGAGAACCCAGATGATCTTCTAGCATTCAACTCATACTTAATGTACATCAACAGTAACAT
AGTTATTTGTATATTTTCTTTTCTTTTTTTCTTTTTTTTTTTTTTTTGAGACGGAGCCTTGCTCTGTCACCCAGGCTGGAATGCAGTGGCACGAT
CTCGGCTCACTGCAACCTCCACCTCCTGGGTTCGAGCCATTCTCCTGCCTCAGCCTCCCCAGTAGCTGGGATTACAGGCACGCATCACCACGCC
CAGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCATGCTGGCCAGTCTGGTCTTGAGCTCCTGACCTTGTGATTCGCCTACCTTGGC
CTCCCAAAGTGCTGAGATTACAGGTGTGAGCCACCGCACCCAATCTATTTGTATATTTTCATTTGAACATTTATTAATTATAGTAGGAATTTAT
CATGTATACCTTGTCTCCAACCCAATGCACAGTAGCATCAGGTAAGTTGCTGTTTAGTTATAGGTATCATGTGAACAGGTATCCAGATGGCAGC
TAACTTCAGTATCCTTTGTTATCCTGTCTTACACACTGGGGTGTTTTACAAGTTGCTTTCTCATTTCTATTAATGACATTTCCCCCTGTATGTA
AAATGTTTTCTGCCATTAGAAAGCCTAAGTTTCAGATGTTCTGTGATAAATATTGGTGATGGATAATAATGTAACTAATGGAAGCCCCTTAAGG
AATTTGCGAACAAGTTTAACAAAGTTAACAACTCAGCTTCTTATAGGAAATGTTGCATTGCTAATTCTGACCACAAGTGGTCAGGATCTAGGTT
TTGGCCTTATGGGAAAGTTACCCAAGCCCAGGACAGTTCTCGTTATTCTCCTCCCACTCACTTTTACAATCTAAAGCTTTGGCTAATTTCTGA
TTGATTTAAAAGAATGAAGGTGAACCCCCACCCCCCAAATATGGCATCCTTTGGTTGTGCTTGAAGGTTTGTCTTCTTAGTGCTAACCCTCAGG
GAAGGGAGTCTTATTTAAAGCCTTTTTTTTTGGATTGTCAAATAATCTTTTTGTATTCATTTGTGAATTGCATTTTATGATAATTCATTTTGTG
GCTCGTGTTATAAAGGAGTTAAACTGCAGGTATCACTGTCAGGAGAAACTCATTTGACTAGCTGATGATTTTTTTTTTTTTTTTTTTGAGACAG
AGTTTCCCTCTATCACCCAGGCTGGAGTGCAGTGGCATGATCTCCACTCACTGCATCCTCCGCCTCCTAGGTTCAAGTGATTCTCCTGCCTCAG
CCTCCCGAGTAGCTGGGACTACAGGTGCCTGCCACCACGCCTGGCTAATTTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGCTAGCCAGG
ATGGTCTCGATCTCCTGACCTCATGATCCGCCCGCCTTGGCCTCCTAAAGTGCTGGGATTACAGGCATGAGCCACCGCGCCCGGCCTCGTGATG
ATTTTCAATAAGTAAACCACTGTGGTTCACAGCCTGAGCTCCGAAGGTGGACAAAACTCCTTGAATATTTATTACTACTACTGTTATTATAATT
CTATTACTACTGCTGCTAGTACTTTATTTTTCTCATTTCCCATGCTTATTCCTTTGCTATTATTTAAGGTTTGGTGATGAAGTATAGGAAGGGC
TTGGAAATGAAGTCATTTATTTTGTTTCCAACACAAAACAGTTTCTAGTGTGGGTGTGTGGGTGGCTTAATTTAACATAACAAACTAATACGTT
TTTCCTTGAACTCCATACTATCTTCATTTCAAACTAGGTATTCTCAGAGTGGGGTTAAAATACTCTCCATCATCAAAGCCCAGACATTTTAGAA
CAAGAGCTTGTCTCACAAAAAGCCTGGTGTCTCTGTTGCCACCACAACCTGAAACTAACGAGTTAGAAACCACATAGAGCCAACGACATGGGGT
AGGAGCTCGTAACATTTTCTCGCAAGTTTTGTGTAGATAGTTAAGCCGGGAACCGATCTGGTTGAGAAAAATGTTTAAAATCATCATTTTCCCT
TCCTTCTCCTTCACTTTTATACTCAAAAGGGTCTAATTTTGCTCCTCTGGGAAGATTGAATGCGTAGGCTTTCATGTAGTTTAACACTCTCTTA
ATTTAAAGAAGTCTGGGTTTGGTGCAGTGGCTCACGCCTGTCATCCCAGCACTTTGGAGGGCCGAGGTGGGTGGAGCGCTTGAGTTCAAGAGTT
CGAGACCAGCCTGGGCAACATAATGAAGCCCCGTTTCTACTAAAAATACAAAAAATGAGCCAGGCATAGTGGCACACACCTGTGGTCCCAGCTA
CTCAGGAGACTGAGACAAGAGGATTGCTAGAGCCTGGGAGGCAGAGGTTGCAGGGAGCTGAGATCACGCCACTGCACTCCAGCATGGGTGACAG
GGTGAGACCCTGTCTCAAAAAAAAAAATTATATTTTCTATCCTCTTCCCCTTTTTGTTATGTGTTTTACAGTCTTTTCTCCATGTCTAATCTAA
GAAACTTATATATTCATTGTATATATATCTACTGGTTGTCAGCATTGAACCTTGCCTGTGCCCTAGCATGTTGCAGAATGACTGACTTGACTTT
ATTTTGAGAATAAGTTCAAAATTTATTCTTTTTTTTATCAGTTGACTAGGGACCTTATCTGTTGTTGCATTTATTATCTCTAAAATACCATCTTC
TTTTTCTTTTTATTTTTTTTGAGATAGAGTCTCACTCTGTTGCCCAGGCTGGAGTGCAGTGGTGCAATCTTGGCTCTCTGCTACCTCCACCTCC
CAGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGTCACGCGCCACCACACCCAGCTAATTTTGTATATTTTTGGTAG
AGACGGGGTTTCACCATGCTAGCCAGACTGGTCTCAAACTCCTGACCTCAAGTGATCCACTGGCCTTGGCCTCCCAAAGTGCTGGGATTACAGG
CCTGAGCCACCTCACCCAGCCTACCATCTTATTTTTAGATGGAGACTTCTGGACATTGGTATAAAATCTGGATGGTTCCAGTCCTGACCTTTTC
TTCATGTTTAATCTCACCTTCCTAACACTTCCACCACGTTGAAAAAGCGTAGCTCCATATGATCTTACTGCCCTTCGTTCAGTCAAGCGAGACA
CTGACATTGTGTAGATTCTGGGTCTCACATTTGCTTTGTTTTTATCTGGAGCTTTACTGGAAACTAAATGCTATTGCGTACTAGCTGCAGAAGC
AGGAGGGGAAGTTGGCAAGAATTCGCTGCTTTCTGTTTGGTCTGTCTGAGGCAGCTGACCTTTTGGAAGGAAATCGCTGCTCTTCGCTTCTTCC
GGTAACAGTGCCGCCTGTGAAAGAACACATACACAGAAGGGCTCTGCCGTTATCCTGGCTGATGCCTTGCAGCATAAGCTGTTAGTTAAGAGGT
GGGAGCCTTTCAGTGCATCTGTTGTGTGCTGTAGGAGCATGCACTCAAGTTCCTACACCATGCTAAGTTGTGTGTAGATCTACTATTAGAGGTA
TAGTGAGAGACGGTCTGTTACCAGAAAAAGTAGGTTGCTTTAGCAAAAGTAATTGCATTTTATTTACTCCCACTATGAGTGCTGTAGTAAATGT
GGACAATTATTTTGTGCACAATTTTAGTTCATCTTAATGTTAAATGTCCTGGTAATTGCTTTTTATACCTGGATAACCGTTGTTGTTTTTTTTT

TTTCCCCAGCAGGACAAACATTTTGATTTGCTAAGACATGAGCTCTTATTAAATGTCATTTCTTCTCAGAATTAGAATAAGATTTTTTTTTTTT
TTTTTTTTTTTGGACAAGATCTTACAATGTCACCCAGGCTGGAGTGCAGCGACACAATCACGGCTCACAGCAGCCTCAAACTCCTGGGCTTAAG
CAGTTCTTCTGCCTGTCTCCTGAGTAGCTAGAACTACAGGCATGCGCCACCACACTGGGCTAATTTGTAAATTTTTTGTAGAGATGGAGTCTCA
CTATGTCGCCTAGGCTTGTTTCAAACTCCTGGCCTAATCAGTCTTCCCATCTCGGCCTCCCAGAGTGCTGGGTTTACAGGCATGAGCCACTGTG
CCTGGCCCAGAATTATCTTCTTCTTTTTCTCATACATTTTTTTTTTTTTAGAGAATGAGTCTGGCTCTGTCATCCATCTGGCATGCAGTGGCG
CAATCATAGTTCACTGCAGCTACTAACTCCTAGGCTCAAGTGATTCTCCCACCTCATCCTCCCAAGTAACTAAGACTACAGGTGTGCGCCACCA
CACGCTACTACTTTTTGTTTTGCTTTCTTTGTAAAGACAGAGCCTTGATATGTTGCCCAAGCTGGTCTTGAACTCCTGAGCTCAGGTGATCCTC
CTGCCTCAGCCTCCCAAAGTGCTGAGATTACAGGTGTGAGCCACTACACCTGGCCAAGATTTAGCTTCTTAACAAACCTGCTACTCGTTGGATC
CACTTTTTCTGCAGGACTTGTTTTACTTAAACACAGGTAGTAGGACACCCCACAACTTGGGATTATTTTTGGAAAGCTGTAGTTGGGTTTCATA
TCACCCAGTAAGCAAACAAGGGAACTAACCAGCTGATGAAGCGTTTCTCTCTTAAAAGAGGAGATTTCAGTTTTGTATTGTTTTAACTAAAACA
TATTCAGTTCAGTTTTTATTTTGTTATTTGAAATGACATATTCAAGTTATGTCTAAGTAAAAATGAAACATTTTAATTCATGGCAAATTAAGAG
AACACAGCTACCTGGAAAACGGGGCAAACTGCCATATCCTTCTGTATTTAGTTTTGGTTCGGTGGATAGGTGTGCTTTTCTAAGGTATTATTGG
TCTCTTCCCTAGATTTGCTGTTGATGGCAGAGATGGTTGGGTGAAGGTTTGTGTTGATGTACATAAAAGACATAGAGATTAGTACAGAGAGAAA
CATCTCAGGGCCCCCTTAGCAAGATTGCCCTGCAGTGCTTCTGTTCTTGGAAACTGGTCTGATCTGTTCCACTTTCCTGGGGTAATGAAGAATC
CAGGGGGAATACAAACCCTGCGTTGGTTTTAGGTATAGGTTCTTGGCACAAAATAAATTGATATCAACAAAACAGGAAGATTTCTCCCCGGTTC
TGTTGGCCTTTGAGTAGGAGCGAAGTTAGGAACCAACAGCTGAGGTTTCCTGTGATCTGCTCTTGTAATGATAGCTTTCTAGACACCTTGAATT
GTTACTCTTGAACTGTCAACGGCCTTCACGTAAGCCAGTTGTGTTCAGGTATGTGATTAGAGGTAAGGGATGTGTTTGTTTGTGTTTAGAAATG
GGGTCTCACTTTGTGGCTCAGGCTTGAGCATAGCGGCGTGATCATAGCTCACTGCAGCCTTGACCTCCTGGGAGCGCTCCTGTCTCAGCCTCCT
GAGTAGCTTGGACTGCAGAAGTGAGTCACCATGCCCAGCTAGAAAGTTTTTTATTTTAAAGAAATTCTGGTACCGTTGTGAGTGACTTTCTGTG
TATTTCGTTCTATTTACAGTTGGTACAAGTTTGCTTAGTCACATCAAAGATGAAAGAGGGCCACTAATATATATAAATATATGTCAGAATTACA
AATTAATCTGCTATTAACAGTCTTAAATCACTATTTGAAAACACATTTAAGGCACTATATATTTGAAAGTGAAAGAATTGCATTTTAAAAAAAA
TTTTTTTATAATTCTGAATTTTTACTTTATAATTCTGAATGTTCTACTTAAAATTAAAATTTTTTTATAATTCTGAATTTTACTTTATAATTC
TGAATGTTCTACTTAAATCAAGGCTGCCCAGGTAAGACAGTGTCATAACCTGGATATTATCATGTTAGGAAATATTTCTTCCTGTGTTTTATGT
CTCTTTAAACTTGGTTCCTGTGGGATAGTCAGTAGTACCAATTCCCCATTGATTATTAAATTTATATCTTAAGTTTTACATTTTAAACACAATT
TAATCAAAAACTTTACAAAAATTGTACCAAAAAGCCCCTTCACCTAAATGTAACAACTGTTTACACTTCTCTTTGACCTTTCTCTATTTGCCCT
CTTGCATACGTGTTGCATACACTTTTCATTTAACATTCTTTTATTTCTACTCTAAAAAAATGTGTCTACAGGCCAGGTGTGATGGCTCACATCT
GTAATCCCAGCAGTTTGGGAGGCCGAGGTGGGAGGATCACAAGGCCAAGAGTTGGACACCAGGCTGGCCAACATGGTGAAACCCCATCTCTACT
AAAAATACAAAAATTAGGGCTGGGCGGGGTGGCTCACGCCTGTAATTCCAGCACTTTGGGAGGCCGAGGTGGGCAGATCACCCGAGGTCAGGAG
TTCGAAACCAGCCTGGCCAACATGGTGAAAACCCGTCTCTATTAAAAATACAAAAAATTAGCCGGGCATGGTGGTGGGCACCTGTAATCCCAGC
TACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAACCTGGGGGGCGGAGGTTGCAGTGAGCCAAGATCGCGCCATTACACTCCAGCCTGGGCAAT
AAGAGCAAAACTCCGTCTCAAAAAAATAAAAATAAAAAATTAGCCAGGCATTGGTGGCAGATGCCTATGGTCCCAGCTGCTCAGGAGGCTGAGA
CAAGAGAATTGCATGAACGCGAGAGGTGGGGGTTGCAGTGAGCCAAGATCATGCCACTGCACTTTAACCCTGTTGAAAGAGCAAGACTCAGCCA
GGCGCGGTAGCTCACGCCTGTAATTCCAGCACTTTGGGAGGCCAAGGTGGGCGGATCACAAGGTCATGAGGTCGAGACCATCTTGGCCAACATG
GTGAAACCCTGTCTCTACTAAAACTACAAAAATTAGCTGGGCATGGTGGCGCGTGCCTGTAGTCCCAGCTATTCGGGAGGCTGAGGCAGGAGAA
TCGCTTGAACCTGGGAGGCAGAGGTTGCAGTGAGCCGAGATCGCGCCACTGCACTCCAACCTGGGTGACAGAGTGAGACTCCATCTCAAAAAAA
AAAAAAAAAAAAAAAATTAGCCAGGCATTGGTGGCAGATGCCTATCTATGGTCCCAGCTGCTCAGGAGGCTGAGACAAGAGAATTGGTTGAACAC
GAGCGGTGGGGGTTGCAGTGAGCCAAGATTGTGCCACTGCACTTTAACCCGGTTGAAAGAGCAAGACTCTGTCTCAAAAAAATAAATAAATAAA
ATAAAAATTTAAAAATGCGTCTACATGGTTTTTATATTTCAACATAGCTTTTATATTTCATTTAACTGGTTGCACCATATCCCATTAGATTAAT
ACATTATAGTCTAATCATCCCCCTATTTTGGACATTTTGGTTATTTCTGTTTGTCCCGACGGTATATATCCCTGGGAATTGGCCTGAATCAAGG
CACTTGTCAAAGAAAATTTTGCTAGGTAGAAACTAAACACTGTAATTCTCAATGGTAAGAGGGAGGCCATGAACTTTAATAGGGAAAATATTGG
TAACATGTGTGGATTTATTAATAAATTGCCTGTTTTGTTTGTTTTTAACTTTCAAACAAGAGGAAAGGGATTATATTTCATTTAAGCAGTATAG
AAACAGGGTATTGTAGTAGCTGAGGAGTTTTTTTCCTGAACTAAAAGATTTGAATTGTCCAAGAGACAGATTCTAAGATGAGTTGATCTTGAAT
TACAGTACAAATATAAACCTTCACTAGAAATTCTGAGGCTGGCTGGGTGTGGTGGCTCACACTTGTCATCCCAGCACTTTGGGAGGCCGAGGTA
AGAGGATCACTTGAGCCCAGGAGTTCATGACCAGCCTGGGCAACATAGCAAGACCCCATCTCTAAAAAAAAAAAAAAAAAAAATTAGCCGGGCAT
GGTGGCACACACCTGTGGTCCCAGCTACTCAGGGGGCTAAGGGAGGAGGATCACCTGAACCCAGGAGGTTGAGACTGCAGTGAGCAGTGATTAC
GCCATAGCACTTCAGCCTGAGTGACAGAGTGAGACCCTGTCTCAAAAAAAAAAAAAAGAAAAGAAAGAAAAAAAATTCTGAAGGTAAGATA
GGACTACATGGCAGCTTCAAATCATTTCTTATTTTTCCGTAATGCAGATGGTCATTAATTTTGGGCTACAGCAAGTGCTTTTAGTCATCTGGAA
AGTGATACAGATGTAGCTTCTTCCCAAAGGGATCGCAAATCCATTATCTCCATGGATTTGGACATGGAGATAATGATAACACATGTACACTGTG
GGCCACCATGGCACAAGAGAGCCCAACTTGCATGCTGGTGGCCTGCAAGCTGCAGCACAACGCCTAAGAAGTCCAGATTTTTATTGACCACCAG
GGACAGTTTCAAAGTGAGAGTCAAACCTCTGCTTTCATTGCTTTGTTTTTCTTTTTTGGAATGTTTGCCCTTCATTTTGATTTTGAAAAAAGTG
TACATGACTTAAAAGTGGAAAGAATAGAACAATGAGTACTCGCATATACTTCACCTAGGTTGAGCCAGTGTTCACAGTTGTTAGATTTACTTTC
CCACACTCCCCACCACTGTCACTCTTCCGTTTCTCCTGCCAAAGTAAGATGCAGACGACATGGCCATTTACCCTCAAATACTTGACAGTGTATC
TACTCCCAGCAAGGGCATTCTTCTACGCAACCTGAATGCCATTGTCACTCTCAAGAAATTTAGCAGTGATAAAGTAATATCTAATATATAATGA
TATAATGGCCTTTAGAGCTGTGGGTGTTTTTGTTTGTTTTGAGACAGAGTCTCACTCAGTTGCCCAGCCTGGAGTGCAAGTGGCGCAATCTCAG
CTCACCACAACCTCTGCCTCCCGGGTTCAAGAGATTCTTGTGCCTCAGCCTTCAGAGTAGCTGCAACTACAGGCGTGTGCCACCACGCCCAACT
AATTTTTATATTTTTTTTTTATTTATTTTTTTTAAGTATAAACACATATATTTTTTAAAGTTTATTTTTAACATTTTTTTTTTTTAATTGATCA
TTCTTGGGTGTTTCTCGCAGAGGGGATTTGGCAGGGTCACAGGACAATAGTGGAGGGAAGGTCAGCAGATAAACAAGTGAACAAAGGTCTCTG
GTTTTCCTAGGCAGAGGGACCCTGTGGCCTTCCGCAGTGTTTGTGTCCCTGGGTACTTGAGATTAGGGAGTGGTGATGACTCTTAAGGAGCATG
CTGCCTTCAAGCATCTGTTTAACAAAGCACATCTTGCACCGCCCTTAATCCATTCAACCCTGAGTGGATACAGCACATGTTTCAGAGAGCACAG
GGTTGGGGGTACAATTTTTGTATTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTCGAATGCTTGACCTTGAGTGATCCTCTG
GGCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACACCCAGTCGTGTTTTTGTTTTTGAATTACGCTCTTGGTTGTGTCTCTTC
AGTCTCCTTTAACCTAGAACAGTTCCACCTGTTTTGGGTGGGGGGTGGGATCATTGATTAGAGTCTCACAATTTGGATTTGTCTGATTGTTTCT
TCATGATTTAGTTTGTGTATTCTTTTCAGCAAATCATATCTGGAGGCACATAATGTCAGTTTATGCCATGATTGGGGATGTTTGATCACTCGGT
TAAGGCATTGTCCGCCAGATTTATCCACAGAAATGCACCTTTTCCCCTTTGAATAATAAGTAATATGTGAGTAGTACTTTGAGACTTAAATGCTG
TTCCCCAACAACTGTCACCTAATGGTTTTAGTAGCTGTGATGATCCTTGTCTGAGTCTACTCTCTTTATTTTTGAGATTGTGCATCTTTGGCCA
AGACTTTATATCCTATATTTAGATGAGAGTTTTAAATATATAGTAACCTGCTGATTGAAACCTGATTTTTATATTTAGTAAGTAGATCCTTTCT
CTACCTTCTCCTTTATTCCCTCCCTTACCCTTTTCCCCTCCTCCATTCTCTGTTCTTCCTATTGTAATATGCAGTGATTTGGCTGTGACATAAA
GATTAATGGCGGATTGTCTTCCCAGAATACTATCATCTCTATGTTGCCTGGGCACATTTTTCCTTGTTTGCTTCTTTGTGAGCCAAATGCTTTT
ATTCTTTCTGTTCTCTTCCCATCTGTTTAATAATGTGATTTTTTAAAAAGAGAATTGGCTTCCTGATTGCATATAGGGTAGTATTTAGAAAAAA
AAAATTAAAGAGCAGATGGCTCTGGTATTAACCTGCTTCTAGATGTGATAGCCTTCTTACTTGATATTAGTCCAATTTTAATATGAATGAAGTC
TTAATCCTTTATTGCTGCTATTGAATATTTTTCCGTCCCTCAAAATCGCTATACTAGGCTAGGCATGGTGGCTCAGGCCTGTAATCCCAACACT
TTGGGAGGCCGAGGTGGGTGGATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTAAAACCCTGCCTCTACTAAAAATCCAAAA
ATTAGCCAGACACAGTGGCACATGCCTGTAATTCCAGCTACTCAGGAGGCTAAGGCAGGAGAATCTCTTGAACCCGGGAGGCAGAGGTTGCAGT

GAGCCAAGATCATGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAAAAAAAAAAAATTGCTGTACTAGGTGACCACCAC
CATTTAATATATTTAATAATGTTGGTATCAACAGAAAGCAGTAAACATAATTAGGGAATTTGCTCTTTTTTTTTTTTTTTTGAGATGGAGTTAC
ACTCTTGTTGATCCATCAGCACAACTGGAGTGCAATGGTGCGATCTCAGCTCACCGCAACTTCTACCTCCCAGGTTCAAGCGATTCTCCTGCCT
CAGCATCCCAAGTAGCTGGGATTACAGGCATGCACCACCACGCCTGGCTAATTTTTTGTATTTTTAGTAGAGACAGGGTTTCTGCATGTTGGTC
AGGCTGGTCTTGAACTCCCAACCTCAGGTGATCTGCCCGCCTCTGCCTCACAAAGTATGGGATTACAAGCATGAGCCACCACGCCTGGCTGGAA
CTTGCTCTTTATATTCTGTACAGAATCCTTAGTCATTCACTGGAGCTGATAGGTTTAACAGTTTTGAACCCTGGCTCCTTGCCTTGTACTTTTC
AGATCAGAAGCAATGTTTAAACGTCATCTCTTTGATCTGTCACCCAGCCCTAGCCTTTGCCAAAATCAGAGCCCCTCAGTATTAGGTTTCTTAC
TTTAATTTTTCATTCTTTGCTCTCTTTAAATTATGAAATATAACAAACAGGCAGAAAAGTACATAGAAAATGGCAAACCACCTTAAGTCCTCAA
CATGCATGCAGCCTGGTGCAGTGGTGCAAGTAAGTGCAGGTTCTCAGGTAGGTCCAGCCCAGATAGTACCCCTTAGTAGTATGGACCGACCCTG
GAGCAAGTGTTTCACCTCTTTCTCTTTTTAAAAATAGCTTTACTGAGATATAATCACGCACTATAAAATTCACCCTTTGAAGTATATTCTCAGA
GTTATACAATTATCACCACTATCTAATTCCGGAACATTTTCATCATCCCCTCAAAAAGCCCTTACCTTTTAGCAATCATTCCCCATTTCTCCCT
CCCCTCAGCCCTTGGCAACCAACAATCTATTTTCCGTCTCTATGGATTTGCCTATTCCGGATATTTCATAAAAATGGAATTTACAGTATGTTCC
CTTGCATGCCTTTCACTTTACATAATGATTTCAAGGTCATCCACACTGTAGCATGCGTCAGTACTTCATTCCTTTTTAACATCTGCATAATATT
CCATTTTATTCATTGTATTTATCCATTCCTATCCATATTTATCTGTTTATCCTTTGGTGGACATTTGAGTTGTTTCCACTTTGGGGCGATTATG
AGGTGATTATGAATAATGCAGCTGTGAACATTTGTGTACCTGTTTTTTGTTTTGCTTTGTTTTTGAGACAGAGTCTTGCTGTGCTTGCCCTGTC
ATCCAGGCTGGAGTGCAGTGGCACAGATCTCGGCTCACTGCAACCTCCACCTCCCAGATTCAAGCAATTCCCCTGCCTCAGTCTCCCAAATAGC
TGGGATTACAGGCACCCGCCACCGTGCCCGGCTCATTTTTTTCTTTTTTAATTTTTAGTAGAGATGGGGTTTCGCCATGTTGGCCAGGCTGGTC
TCGAGCTCCTGACCTCAGGTGATCCACCCGCCTCAGCGTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCACCTGGCCTGTGTACCCACT
TTCTGGGGACACATGTTTTCACTTCTCTTAGGCATATACCCAGGAGTGGAACTACTGGATAATGTAGTAACTCTATGTTTACCCTTTTGTAGAA
TTGCCAGATAGTTTTCCAAAACTGTTTCACCATGTTACAATTCTACTTAATCTTGATGACCCTCAATTTCCTCATCCATAACGGGGATAATAAT
AGTGCCTACGTCTGAGGGATTTAGGATAAAGAGTAGATTCATAAAAGCACTTGTTATAAGTAATATACTAAGTGCTTAGCTAGCTCTTAAATCT
GGATGGGGGATAATAATAACACTGATAAATGTTATTTATTTCTTATCCTATTTCTGAAGTTTATTTTTATTTATTAGATGAATTGAAATATTTG
TTGCTAATAATTCATAAAGCAGTATAATAAATGAAAACTTCAAATTTCATTAGTTGTTTTTTGTACTTTAATTATTAAAAGTCAGATATGTCCT
TGGAAGGAATAGGTAAAGGCATGGCTCCCTGCTGGCTTAGTCCTCTCTGTTCAACAACATATTAGAAGGAATGGAATAGGTAGTTTTCTTCTCC
TTTTTTTTTTTTTTTTTTTTTGAGACAGAGTCTTGCTCTGTCGCCAGCTTGGAGTGCAGTGGCATGATCTTGGCTCACTGCAACCTCTGCCTCC
TGGGTTCAAGCGATTCTTCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGAGCATGGCACCACGCCCAGCTAATTTTTGTATTTTTAGTAGA
GATGGGTTTTCACCATTTTGGCCAGGATGGTCTTGATCTCTTGACCTCATGATCCACCCACCTCGGCCTCCCAGAGTGCTGGGATTACAGGCAT
GAGCCACCGCACCCGGCCTCTTCTTTTTTCTTTTTTTTTTAAGAGTTTAGTATGCATAGGGCAAAATCAAAGCCTTGCTGTTACTGTACCACCC
TCACCCTTCACAATTCTCCATTCTTTCATTCAAAGATGAGAGAACAGACTTCATGGTGCCTTTCCACCACCACCTCCCAAGAGTTCCTGTCTGC
AGAAGTCCTTGTGCCAGTGAAATTGATTAAGAAATAGGAATGCCATCTTTTAAAAGGGCCCAGCACAGCCTGTAATCCCAGCACTTTGGGAGGC
CGAGGTGGGTGGATCACAAGGTCAGAAGTTCAAGACCAGCCTGGCCAAGATGGTAAAACTCCATCTCTACTAAAAATACAAAATTAGCCAGGCG
TGGTGGCGGGCAGCTGTAATCCCAGCTGCTTAGGAGGCTGAGGCAGATAATTGCTTAAACCCGGGAGGCGGAGGTTGCAGTGAGCCCAGGTCAC
GCCACTGCACTCCAGCCTGGGTGACAGAACGAGACTCTGCCTTAAAAAAAAAAAAAAAAAAAAAGGCCAGGCACAATGGCTTGTGCCTCTAATC
CCAGCACTCTGGGGGAGGCTGACTTGGGAGGATCACTTGAGGTGAGGAGTTTGAGACCAGCCTGGGCAACATAGTAAGACCTTGTCTCTACAAA
AAAAAAAAAAAAAGTTTTTTTCTTTAATTAGCCAGGTGTGATGGCATGTGCCCACAGTCCTAGCTACTTGGGTGGCTGAGGTAGGAGTATCCCT
CAAGCCCAGGAGTTTGAGGCTGCAGTGAACCATGATCACACCACTGCACTCCAGCCTGAGTGATGGAGTAAGACCCTGTCTCGGATGGATGGAT
GGATGGATGGATGGATGGATGGATGGATGGATGGATGGATAGAAAGTTTATACTGGAGGATATTGGTTAAGGAGAAGGATAGCAAGAGCTATT
TGTGGAGGATTGATTTTTGGAAAGTTTATTAAATTGAGTTAAAATTAGAGATGGGAGAAAGAAGCCGGTTTTGTAAGTTTAAGGTAACAGTAAG
AACAGTAGTGAGTACTTACAGAGCACCTGCTCTTAGCTAGATACTGTTTTAGGTATGTACATAAAACTAATTCATTCTTACAGCAGCCCCCTAA
GGGGCATAAGTATTATTATTCCCATTGTACAAATAAGAAAACTGAGGCACAGAGAGGCTTAACAGGCTGTCTTTGGCAGAACCGTATTTAGGTG
AGTTCAGCATCATCTCTAAAAGTTTAACCCCAGTTTAGAGACTTTGGCCCTGGGATGGGGGGTAGGATGGAGAATCGGAATTACAAAATGCTTT
AAATTATACATATGAATCCAGCAGACCAAATCTGCTGGATTCATATTATTCATATTATGCATAATATTATTCATATTAACCCCCTACTCCCACC
CCACACTAGAATTCATTCACTGAGTTGGCAGATACACAGTGGGCCTTCTAATGTCAGACACTACTCTCCACTGCAGTTTAGCTAGGGCAAGACC
TTGGTCACAGTGTTCTACAAGTCTTCAGAGAGAGAGTAATGTTTTTCTTTGTTATAGTTTATATTTTACTTTTAGAAAGGAAAAGCATCTGAGA
AAAGATATTTATGACTGAGACAAAATTATTCCAAATCCCACTCACTTATATCATTTATTTATGTGGTGGACATTCATTTTTATGGTTTTCAGTA
AGCCTGTAACATTATGAGCTATTAGACTTTGAAACTTTTATTAACAAGTGCCTGAGGGCCCGACTGATTTATTTGGCTCTCCAAGCCCATGGGT
ATATCCAGATATATAAGGTTGAGGTAGGTGCTTTATGCCTTCAGAAAGTACAGGGTTCTGCATCCAGGGCTGTCTTAGGTTGTTCTGAAATGTC
TGTGAACACAGAGTGCAACTCAGCCGAGCTCAAATAGTTCTCATCTTTGGCCTAAAAATAAGATTGTGAATCCATTTCCCAGTCTTTAGAGAAT
CCCCTGTGATGATTTACCAAAGAACAAACTACTTCCCTTGTCTGAGCATCACGCACTGAAATTGGAGCTGCCCGTAAATAAGCAGAAGATGGCG
GGTACTGGGGACAGAGGTACAGTCTTTGTAGATGCAGAGTAGCGTTCGATGGCTAGATGAATGCCAGTTAGAAGGATGAATGCCGGTTAGATGA
ATGCTACTCATATCAGGCATGTGGACATAGCCTGATAATGGGGTGAAGAGTTGTGACATGTATGAAGAAAAATACTACTTAACTGCCAGGCACG
CTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCAGGTCACCTGAGGTCAGTAGTTCAAGACCAACCTGGCCAACATGGTGA
AACCCCATCTCTACTAAAAAAAATTAGCCAGGCGTGGTGGTGAGTGCCTGTAGTCCCAGGTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAA
CTCGGGAGGCAGAGGCTGCAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTAGGCGACAGAGTGAGACTCCGTCTCAAAAAACAAACAAACA
AAAAACCACTACATAGCTTCTAGGTGTTATTCACGTAACTGGGAGAACAGTTGGTTTTTTCCTAAACTGGGTGTTTAGAATTTATAATGATAAT
CTCAGTAAGTCATCTCATATTTCACATATAGATAATTTTCAGTTTAACAGTAAAATAAAAATGACTCTGTACTAGTTAGTGTACTTTTATTTTA
CACTTTTGAATAGCAGTGAGCAGAATCTACTCTCCAGCTCTATCAAAGCACTTATGTGTAGTGAAACTATATTGTATTTATCAAAATAAGGTGA
TTGCCACTTGGTATTTACCAGCTATTATCCTTCAAATGGGATGCTATTTTAGAAAATAATTATTATGGCATGTTCATAACTAGAATCATAAAAA
TATTCTACAAATTCTAAGAGCTCAGCATTCTACTCTTTGATGAAAACTAAGAAATAATCTAAAATTTAAGGCAAAATAGAGTGACATTTTTTAA
TACCCCTACATGCATAGTATATCACCACAGTATTTCTTTCCTAAAACAGTAATAGGCTCCTAAATATGCTTGACCAGCAGGGAATGTTAAATAT
TTGTTTGTGTATTTATTCGCTCCGCAAGTATTTTTTGACCACTTTCCATAGGCAAGCCACCGTACTAGACACTGGGGACACAGTCGTGAATAAG
ATGTGCTCCTGGCCGAGCGTGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGAGGGCAGATCACGAGGTCAGGAGACCAAGACC
ATCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAACTTAGCTGGGCGTGGCGGTGTGTGCCTGTAGTCCCAGCTACTCGGGAG
GCTGAGGCAGGAGAATTGCTTGAACCCGGGAGGCAAAGCCTGCAGCGAGCTGAGATATCTGCACTCCAGTCTGGGCGACAGAGCAAGACTCCGT
CTCAAAAAAAAAAAAAAATTGTAATTGATTATTTAAATGGAAATCTGTTCCATTTTCATGCCTTGGTGTTTCATACTGATATATTGTTCAATTAT
AACTTTGAAAAGAGCCAATAGAATCGGTCAAATTGTGTGTATACATTTATTTATGCAACAAAAAAATTATGATGCTTATGTGCCAGGTACCGTT
CTAGACCCAGGAGAAAGCACGGTGAACAAAACAAAGTCATTGTGTTCATGGTGATTTCACCCTGGTGGGAAGTCAGTAAGCAAATATATGATTCA
ATATCAGGAATTGATAAATGATAAGAAAAATAAAGCAGATTAAGAGGATAGAGAGTGACCAGAATGCCGTTTTATTTGAGTGGGCTGGGAAGGA
GTCTCTGGGGAGATAAAAGTTTTCATAGCTTTCCTTCTTTTGTCTCTGAAGTCAATTCACCTAATGAATGCAGATGCAAGAGAATTTTTGTATC
TGTTGGTATCACTCACATATTCATTGAGAGCTATGGTGAGGGCCTACTTCTTACTCTTTACTACTTAGGAATACTAACACCTAGATTCTTCTCT
TCATTCTTTTATCACTCTTCCATATACTTAAGTGCCTAAGCACCTTCATTCATCCCATCCCTTATATAATTTTTTTTCTTGAGACAAAATCTGGC
TCTCTTGCCAGGCTGGAGTGCAGTGATGTAATCTCGGCTCACTGCCACCTCTGCCACCCAGATTCAAGCGATTCTCCTGCCTCAGCCTCCCAAG
TAGCTGGAATTATAGACGCATGGCACCACACCTGGCTAATTGTTTTGTAATTTTAGTAGAGACGGGGTTTCGCCATGTTGGCCAGGCTTGTCCC

GAACTCCTGACCTCAGGTGATCCACCCACCTCAGCCTCCTGAAGTGCTGGGATTACAAGCGTGAGCCACCATGCCTGGCCATCCATTCCTTATC
CTTCATCCAAAAATCATGATTTGGTATCTGTTCTGGTTTTCCAAAATCTTGCGATATGATTTATTTGATTAAAAAATACATTGTGCAGTTAAGT
GACTTCCAGTGTTTGATTATAAAGTGGAATTGCTTCTGGAGAGAGCTCTTTTATCTAAGTGTTTTGGTGAACTCACAACCACTGAAATTTGATG
TCTTGGGTCAAATTGGGTCTACAGTGATCCCAGCCTTAATGCCTAAAAGCCCTAAATAATACACTTCTCAAGTGTTCTATAGCATTGCACTAGT
CTAAAATAGATAACTGGCACTCCCCTACACCTCATTGTTGGCTAACTGACTTGTCCCATAAATAGCCCAGTGTTACGTGATCAGACAACTACAA
CTAACAGAAGAGATTTTTATTTCCTGACACACTTGTACAGTCTCTGGTAGTAAACAAAATCCAAGTCCAAGTCACCGGCCCCTAACTGTAACCT
AGTTCTTAGAAGAATTGTGCAAATCAGTAGCCAAATCATGTGGGATGGAATTCAAGATAACCCTGCCTTATACCAAACTCTACATTATGGAAAA
TAGTGTTAGAGCAAGATTCATTTTCAGTCCTTAGAGTTACCTGAAGTCCCTTCCCAGTCTACCCAAATGTTTCTGCCCTAATCTGGTTAAACTC
AAAGAGCATCTGCCAGATGAGTTAAAAATTGTCAGGTGAGTCTGAGGGGGGCATCATGGTAGTTTTATAAAGCCTTTCTTTAAAAAATCAAGAG
CATGTTAAAAAAAGAAACTACCGGCTGGGTGCAGTGGCTCACACCTGTAATTCCAGCACTTTGGGAGGCTGAGGTGGGCGGATCACAAGGTCAG
GATATCGAGACCATCCTGGCTAACACGGTGAAACCCCATCTCTGCTAAAAGTACAAAAAATTATCCGGGCGTGGTGGCGGGCGCCTGTAGTCCC
AGCCACTCGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGGCGGGGCTAGCAGTGAGCTGAGATCGCGTCACGGCACTCCAGCCTGGGC
AACAGAGCAAGACTCCGTCTCAAATTAAAAAAAAAAAAAAAAGAAACTACCTGCTATTGGAGTATAATGGTTCATATTTCCAACTCTTAGGTGGA
ATGTATTGTTTTTGTGTCTGAAAGATTTGTAAATGCTATAATTTAACAACATTGCTTCATAAATTCCTTAGCAGTAACTCAGGAGGTGAACCTT
CGGGCATTTTTCCAGATAAATCTGTGCTCTTTGTGTGCAAAGCATTGCTGCTTAGGTAACTAGTGATAATGCATAGGGTTCAATCAACACTTCA
GATATTTTCACTTTTCTTTTACTGGGCTTTTTCAAAATGGCATATGTTTATTATATTTCTGAAGTCAAAATACCAAATCTAAAACAAGTGATTT
TTTAAAAAAAATCTCTCAGCTGGGCGCAGTGGCTCACACCTATAACCCCAGCCCTTTGGGAGCTGAGATGGATCACTTGAGGTCAGGAGTTTGA
GACCATCCTGGCCAACATGGTGAAACCCCATCTCTACTGAAAATACAAAAATTAGCTGGGTGCGGTGGCGGGCACCTGTAATCTCAGCTACTTG
GGAGGCTGAGGCAGTAGAATTGCTTGAACCCGGGAGGCAGAGGTTGCAGTGAGCCGAGATCTTGCCACTGCCCTCCAGTCTGGGCAACAGAGCA
AGACTCTGTCTCAAAAAAAAAAAAAAAAAAACTCTCTGCTAATTATTTATTACTGTTGAAATGCTGCTTACCATGGCTGACAATTTTGAACAAA
AGTAAAGAATATGTCTACGATGTCAAAGTTAGCAATTCTTTCCCTAATTCTCCTTTTGTACTTTTGCTTATAAGACCTTAGTACATTTCATAGT
CAGAGCTTCATAGACCCAGCTGTGTATCTTTCCATGGCCAGGCTGAGTGTCTACATTTTGAAAACATTTTAAAGTTAAAATTCAGTTCAAGAAT
ATTGTCTTTAGTCTACCAAAAGGGCTAAAAACATTTACTTTGGCCAAACGTGGTGGCTCACGCCTGTAATCCCAGCACTTTAGGAGGCTGAGGT
GGGAGGATCACTTAAGGTCAGGAGTTCGAGACCAGCCTGGCCAACACGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAACCAAGCATGG
TAGTGTGCCCCTGTAATCCCAGCTACTCAGGAGGCTGAGACAGGAGAATCATTTGAACCGGGGAGGCGGAGGTTGTAGTGAGCCAAGATTGTGC
CACTGCACTCCAGCTTGGGTGGCAGAGCGAGACTGTCTCAAAAAAATAAAAATAAAAATAAATAATAAAATAAAAACATTTACCTTGGTAACTA
AGTGAATATTTACTCTGGTGGATGTAAGGGGAAAATAAAGAAAAAACGCCCAAAGCACTGATTGTTTGTTCAACAGATTGTAAACCATGGCTGT
GTGGATACAAGCTCAGCAGCTCCAAGGAGAAGCCCTTCATCAGATGCAAGCGTTATATGGCCAGCATTTTCCCATTGAGGTGCGGCATTATTTA
TCCCAGTGGATTGAAAGCCAAGCATGGTAGGTGAACAAGGATGTTTGCATCATATTTTGTGAAACACAAGAATATTGGAGTTTGTTTAGAAAGA
TGTCATGATGGCAACTTTCAAAGTTGTATTTTTAAACATTTTTAAATGTGATCCATAAAAAGGTATTTAAAATTTTTTTTCTTTTTATAGGTGA
AAGGTATTTAAGCCCATCTTAGATTGAGGGGATGGAATAACTCTTGGGATTTTTAAAACAGGATTTGTTCCCCTTTAATAGTAAATACTGTCTA
AAAGCATTAGAATATTACTGCTAAGAAAGAGCAGCCAACAAATATGTTTCGAGTGCCCATGGGATGCCTAGCAGTGTCCTAAGTAGTAGAAATTT
ATATGAAAAAAATTAAAGCCCAACATTGTGTTGTAATCCCAACACTTTGGGAGGCCAAGGCAGGTGTACTGCTTGAGCCCAGGAGTTCAAGGAA
GGCCTGAGCAACATAGCAAAACCCTGTCTCTGTACAAAATACAAAAATTAGCCAGGTGTGGTGGTGTGCACCTGTAGTACCAGCTACTTGGGAG
GCTGAGGTGGGAGGATCACTTGAGCCTGGGAGGCAAAGGTTGCTGTAACCCATGATCACACCACTACACTCCAGCCTAAGCAACAGAGTGAGAC
CCTGTCTCAAAACAAACAAACAAACAAAATTAAAGCCCTCATCTCCAGATAATTCAGTGTTTCACTGGACATGGTGGTGCACACCTATAATCCC
AGCTACCCAGGATGCTGAGGTGGGAGGATTGCTTGACCCCAGCAGTTTGAGGCCAGCCTAGGCAACATAGCAAGATCCTATGTCAAAAAATAAT
AATAATAATTTAGTGTTTAATGGGGCAGATAGGTGTGAATATGCATATAATTTAATTATAATTTATTTCTTATAGTTTATTAAATATAAATTAT
TTTACATTTCTTAATAAGTTTACATCTAACAAAAAACTAAAAATTAATAATTTAACAGTGGAGACATTGGTGTTTTTAATTTATATGTATTTTA
TATATACACATAAAGACTAAAAGAAAATTGAGTGGGTGTTGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGCAGATCACT
GGAGGCCAGGAGTTCTGAGACAAGCCTGGCCAACATGGCAAAATCCCATCTCTACTGAAAATACAAAAAATTAGTTGGGCGTGGTGACGGGCGC
CTGTAATCCCAGCTACTCTGGAGGCTAAAGCATGAGAATCGCTTGAAGTCGGGAGGCAGAGGTTGCAGTGAGCCGAGATCGCACTACTGCACTC
CAGCCTGGGCAACAGAGTGAGACTGCCTTTAAAAAAAAAAAACAAAACTAAACGAAAATATACCCAAATGTTAACACTAATTACATTCTGGTGG
TAGATTTGATAAGCATTTTAATTTTTCTTTATTTTCCAGATTACTGATTACATACTTGGGGGAGGGGAGAGTTGTTTTAAATTTCTTTTAGAAT
TAGTACAGTGCAGTCGACTAACAGCACAGGTTTTTAATTGGTATCATTATTACACACCAGGCAGCAGGATGTACACTGCTCTGCTCAAGGTCTG
GGAGGTTGCTGGTTGGTTACAGTCTGTCAGTCGATCTGACATATTCATTTGATACTTCAAGCCTCACCGTCTTAGCCATGGGTCCTCTTTGACA
GTCCCTGAGAGAACCAGCTTTGATGCTGCTATTTGCAAAGGGCCATATACCTGTCTGTAATGTTGCCTTAGAATAATCGCAATGCGTGTTAGTA
GCAAATTTCTGTTCAGAAACTAAAGATCACCAAAGAAAGGCAATTTTCTAGGCAATTAAAAAAAAACTCAACTTCATGTAATTAAGTGAGGGAA
AAAAATTAGCTAAATATGAGAATGTCAGCTGTACCTCGTTTAGTGCTTTCCACTCCCTTTTCATTTTCTCTCCTGTTTTCTGATGTGGAGGATT
TAGAAAAACATGAGTAGGAAGTTGCTGTTAATTTCAGATTTCACTTAGCAGAGTTCTCATTTGGTGTTCTCACTGAATGAATTAAAAGACTTGT
GTTGATATTAAGGAAAACTTGAAATTTTTTAGCTTTGGTTTTCTTCAGAATATAAAGATTTTAATGAAGAATTTTCAATTCTTTTTTTTTTTTG
AGATGGAGTCTCGCTCTGTCACCAGGCTGCAGTGGCGTGATCTCGGCTCACTGCAATCTCCGCCTCCCGGGTTCAAGCAATTCTCGTGCCTCAG
CTTCCCGAGTAGCTGGGACTGCAGGTGCCCGCCACCACACCGAGCTAATTTTTGTATTTTTAATAGAGACCGGGGTTCATCATGTTGGCCAGGC
TGGTCTCTAACTCCTGACCTTGTGATCTGCCCATTTCGGCCTCCCAAAGTGCTGGGATTAAAAGCTTGAGCCACCGGGCCCAGCCAAATCTTTA
GTTCTTTATGTTTAAGCCATCTAAGCAAGTCTTTTTTTTTTTTAACAGAGAATTAAGGTTTCAAGTAAAGAACCAATACCTGACTTCTGTGAGT
TTTGCTCAGAGACTGGATCCTTTTAAGAGTGGGCTCCTGGCCGGGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGG
TGGATCACTTGAGATCAGGAGTTTGAGACCAGCCTGGCCAACATGGTAAAACCCCGTCTCTATTAAAAATACAAAAATTAGCCAGGCGTGGTGG
TGCACGCCTGTAATTCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGCAGAGGTTGCAGTGAGCTAAGATCGTGCTAC
TGCATCCCAGCCTGGGTGACAGAGTGAGACTTCGTCTCAAAGAAAAAGAGTGGGTTTCCAGACCAAGGGCATTGTTGCCAGTTGAAACAGAGGT
GCAGGGCTGCCCTCATTCCTTCCAGCCTTTCATTTAATACGTATTCTATTTAATACATAGGGCACACATATTTAGAATCTGACTTGCCTTAACT
GCCTTCTCAAGGCGCAGATTGGGGTGTACTATTTGATGGACTATGGTATCACTGCTTTTTTTGTTTTGTTTTGTTATGTTTTCGTAGAGAGAAT
CTTGCTTTGTCACCCAGGCTGGAGTGCAGTGGCGCAATCTTGGCTCACTGCAACCTCCACCTCCTGGGTTCAAGCAGTTCTCCTGCCTCAGCCT
CCCAAGTAGCTGGGACTACAGGCACATGCCGCCACGCCCGGATAATTTCTTTTGTGTTTTAGTAGAGATGGGGTTTCACCGTGTTGCCCAGGCT
GATCTCCAACTCCTGAGCTCAGGTAATCCGCCTGCCTCGGCCTCCCAAAATGCTAGGATCACAGGCGTGAGCCACCACGCCCGGCCGGTCTCAC
TGTTTTGATACACTTGTTGGTGCCTCTTTTTTGAAATTAGTTGCTATCTTCAGGGATTTAGGGATGGCAGAGCCTTTTAGCTACCACTATCTTG
TTTGGCTCCAGACCCAGTCAGCAGTTATTGAATGTTATTTCAGTCCGACAGCTGTTTGGTTTCTTCAGTGAGTAAGTAATTTGGTACTTCCCAG
TGTCAATTGTTGCCTAAGTAGTAGAAAGGAAGGAAGCGGAAGGAAAGAAGGAAAGAAGGGAGGGAGGGAGACCATCCAACCCC
CGTCACCAGTTCAGTAGCTTGAAATCAATGCAAAGTCTGTAGCGTGGTTTTCCTTGTTTACTGGAAAAGTTGGCATTGCCTTCAGGTCCTGGGT
CTGCAACTAGTGACATGAATGTCTGACTCGTATAAATTCTTGTAGGCACCCTCTGCCTGAATGTCTCATTTCCAGGGCTTCTTAGAAATAGCAA
TAACTTGTTTCACCTGTCTCTACCTAAGAAACCCACAGATACCAAACTCCTTGAGGCTGGAAAGGACATGTAGAAGAGTCTTGGCCTTGTGCCT
CCTTTACACCCATGAGGGGTAACTATAAATAGGAAATTATCCAAGTCCTTATTTCCTTCAGAGTACACAGAACCCTTTCCTTTTCCTTGCATTT
CTCGGAGCAAATAGCATAAGCACCAAGCACATCATTGAGAGAAAGGAAGAAGGGCAGCACATTGTTAAAAATTTTTTTTTTTAAAAGAAGGAAA
TCTACTGTATAATCCAACTATTTAGTAAATTACAAATAGATTAACATAGGCATTGAGTCCATTTCTGTTGGGCTGTTTCTTAAAATTTGCAGTG

AGGATTAAAAACATCACTTTAGTTGAAGAAAAAGTAGGATGTGTTGAGGCTGTATTTATACAGGCTCACGTGCATGTATGTATACAGATTATGT
AATTTTTTTCCCCTAGGGACTCAGTAGATCTTGATAATCCACAGGAGAACATTAAGGCCACCCAGCTCCTGGAGGGCCTGGTGCAGGAGCTGCA
GAAGAAGGCAGAGCACCAGGTGGGGGAAGATGGGTTTTTACTGAAGATCAAGCTGGGGCACTATGCCACACAGCTCCAGGTGGGTGTGGGCTCT
GGGGTCACACTTAATTACCTTCCCTTGGGGGTCTTCTTCCTGTAGAGACTTTCTTTCTCTCCTTCAGTCCAGCATTGTTGAGTTACACGTGCAT
AAGGTTCTTGTTGTGTGGTTTTGGTCTTTTTTTTTTTTTTTTACTTTTTATTTGAGAATAATTTCATACTTCCAGAAAGTTACAAGAATCATACA
AAGATTCCCCACATATGCCCATATTCACCTGTTGTTGACTTTTATGTTGTCATATACTCCTCGCTGTCTCTCGACACACACGTTTTTCAGTCAC
TGGAGAGTAAGTTGCATACCTTGTGTCCCTGCACCAGTAAGTACCTCTGTGCATTTTCTATTTATTTATTTATTTATTTATTTATTTATTTATT
TATTTATTTATTTATTTTTGAGACGGAGTCTTGCTCTGTCGCCCAGGCTGGAGTGCAGTGGAGCAATCTCAGCTCACTGCAACCTCTGCCTCCC
GGGTTCAAGCGATTCTTCTGCCTCAGCCTCTCAAGTAGCTGGGATTACAGGCTCCTGCCACCATGCCTGGCAGTTTTTTTTTTTTTTTGGTATT
TTTAGTGGAGACGGGGTTTTGCCATGTTGGCCACAGTGGTCTTGAACTCCTGACCTCAGGTGATCCGCCCACCTCAGCCTCCCAAAGTGTTGAA
ATTATAGGCATGAGCCACTATGCCCGGTCCCTCTGTGCATTGTCTTTTTTTTTTTTTTTTTTTGAGATGGAGTTTCACTCTTGTTGCCCAGGCT
GGAGTGCAGTGGCGCGGTCTCGGCTCACCGCAACCTCCACCTCCCGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACA
GGTGCATGCCACCACACCCGCCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCTCCATGTTGGTCAGGCTGGTTTCGAACTCCCGACCTCAG
GTGATTCACCCTCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCACCCAGCCCCTCTGTGCATTTTCTAAGAATGAACCTTG
TCTTGCATGGTTATAATACACTGATCAACTTCACTAAATTTAGCATTGATATAATACTTTTAGGTACTCATCTGGATTTCCATTTTGTCAACTA
ATTCAAACATGTCCTTTAGGGTATTTTTCCCCGCTGCAGTCCAGAATCCAGCCCAAGATCACATATTGCATCTAGTCATCATGTCTCTTTAATC
TCCTTTAATCTGGAACCATTTTGCAACCTTACTTTGTCTTTCATTACATTGGCATTTTAAAATAATTAATGTAGGCTGGGTGCAGTGGCTCACA
CCAGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGTGAATCATCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCCATCT
CTACTAAAAATACAGAAATTAACTGGGTGTGGCAGTGGACAACTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCTCTTAAACCTGG
GAGGCAGAGGTTGCAGTGAGCCGAGACCGTGCCATTGCACTCCAGCCTGGGTGACAAGAGTGAAATTCCATCTCAAAAAATAATAATAATAATT
CATGTACCCCCTGCTTTTTAAAGATAAAATGTTCCTCATTTGGGGTTTGTCTGATGTTTCCTCATGATTACGTTAACATTGCACATCTCCGAGC
AGACTTCTAAATATAGTTGGCTGTCCATGTCCATGGGTTCTGCATCCTGATTCCACCAACCGCAGCTCAGAAATATTCAGGAAAAGAAAAAAAG
TAAAAACAAATAGAAATAAAGATATGACAGAACAGCTATTTACATAGCATTTCTTTTGTATTAGATAGTATAAGCAATCTATAGGTGGTTTAAA
GTGTATGGGAGGATTGTATGCATTCTATGCAAAACGATGCCATTTTATATAAGGAACTTGAGCATCTGCAGATTTTGGTATCCAAGTGGGTCCT
GGAACCAGCCCCCACAGATGCCAAGGGACAATTGTAGGTGACTTGTCCTTCTCGGGTATCACATCCAGAGGGGGGCAGTGTCCCTCGTCCCCTC
ATTGGTGGTAGTAGTTTTGATTGCCCATTTGAGAGTGGCATCCAGTTTCTCCTCTTGCGAGGCTTTTAAAACTTATTTATTCCGTTTTTAAGAA
TGTTCCCCGGATACTTTAGGCAAATTAAGATGCAAAAAGTAAAACAGCACTTTGGGAGGCTAAGGCAGGTGGATCACCTGAGGTCAGGAGTTCG
AGACCAGCCTGGCCAACATGGTGGAACCCCATCTCTACTAAAAAGACAAAAATTAGCCAGGCGTGGTGGCGGGCCCCTGTAATCCCAGCTACTC
GGGGGGCTAAGGCAGGAGAATTACTTGAACCCAGGAGGCAGAGGTTGCAGTGGCCCGAGGTTGTGCCACTGCACTCCAGCCTGGGCAACAGAGT
GAGACTCAGTCTCAAAAAAAGAAAAAAGAAGTAAAACAATCTTACCTTTTCACTGCAATTGGATTTCCATGATGTGCCTTCTTGTTCCTGTTGG
TATTGGAGGAACAGTGCCTCCTGTGATTCAGGAGGTCCCTCAGGAGGCTCCCCATCCTGAGGCATGGTTAGGGCCCATAGTGTGGAGTGGCACA
AAGTGATGTCTGCTGTTGGATTCTTTCAGAACACGTATGACCGCTGCCCCATGGAGCTGGTCCGCTGCATCCGCCATATATTGTACAATGAACA
GAGGTTGGTCCGAGAAGCCAACAATGTGAGTGTCCCATAGGGATGGGGAGGGCAGTCGGGAAGTCTTTTCTTACCCACCTCCCTCTGGACCCAC
CTTTGTCAAGGTGACTCAGGGTGCACTATTGGTGTCTCTTTAAAGAGAGCTTCATCCTAAGGGGCACAAAAGAAATAGGAGACTTGACTGAGTG
CAGCCCAGCACTTTGGGAGGCTGAGGCAGGCAGATTGCCTGAGCCCAGGAGTTCGAGAGCACCCTGGGCAACATGATGAAACCCCGTCTCTACC
AAAAATACAAAAAAAATTAGCTGGGCATGGTGGCATATGCCTGTAGTCCTGGCTGTTCGAAAACCTGAAGTGGGAAGATCCCTTGAGCCCAGGAG
GTAGAGGCTGCAGTGAGCCATGATCGCACCCCTGCACTCATGGGTGATGGAGTGAGACCCTGTCTCAAAAAAAAAAAAAATGAAATAGAAGATGT
GGTCTCTGATCTTAACTGATTTATAACCTTGATGAGATTGCAACCACAAGACAATGTGAACAAGTGCAAAGTAATTCAACCTCAGCTGAATAAT
TTTTTAGTAAAGGCATGCTCATATTCAGGTGAGAATACTTAGGAAAGACTTTTCCCTAGCCCCTGAATCAGGTGTGGAAGGAGTGGTCTGATCA
GGTCACTTACAGGGCTGGGTCCACAGAGACCTTGTTTATGCCTCCCCCATCACTTCACCCTGGGGTCTCCAGGATGCCTGCAAGAGGTTTGGCC
TCTTCCATGGTGGAAGCAAATGATTCCATCACGAGAATATCTTGAGTGAGGACACAGATGATGTGTGTTCACATGGCCCTGCTCCCCATGGCCT
CCCTAATGCTTAATGCCGTCCTTGCATTGGGTCAGTGAGTGGAAGAGGAATCACTCCACCTCCTCATTAGTAGGAAAACCCAGGTGACACTGGA
CCAGGTTACGTTCTAGTTTCTCCAAAGGTAATTCAATGGACCTCGTTTGGAATACTCTGGTGGAGGTCAGATCTGAAATGGAAGCTTCTCCCAT
GCTTTGTGATCTGAGCCATGATCTGTCCGCTCACCTGTTTCTCACTTTTCCCACTCCACCCTGTGTCTCATGATGACGTTTGCTTTTCCTCCCG
ACTCAAAATTTACCTTTTGGGGTCTTACCCTGGTTGTAGGAGCTGGCTTTTCCTGGGGATTAAGGCCTCAGTCTTCCTCCCATTCGCACTGCCT
TGCACTGCCCCCCATATGTTCCCAGGGTAGCTCTCCAGCTGGAAGCCTTGCTGATGCCATGTCCCAGAAACACCTCCAGATCAACCAGACGTTT
GAGGAGCTGCGACTGGTCACGCAGGACACAGAGAATGAGTTAAAAAAGCTGCAGCAGACTCAGGAGTACTTCATCATCCAGTACCAGGAGAGCC
TGAGGATCCAAGGTGAGGCGCGGTGGAGGCACATTGTGCAACTTGAGGATTGGGCCTGGGGACTGGAAAGCAGCTCTGGTGGGGTTGGGAGAAA
GCACACTTTCCATTCGGAGGCAGCGACCTTTCTCTGAGTAGCAGGGACTTATTTGCATTGAAGACAGTGCTGAGAGGATGAGATTTAGGAAGGG
GAGATGACAGGACCCCCCGCTTAAGTGCATATCTCACTCAGGTCCCCACATCCAGGGAGCTTCTGAGCTGCCAGGGAAGACATTTCTTCTTTTG
AGAAGGAGCTCACAGTCTAAATAAATACTAGCAAACAATACTTTTGTATATAGTAGGCATATTATAAGTGGAGCTTTATTGAAATGATAAATAG
GAAATTATATAATTACATGTTTAAAAATTTTTCTGGCTGGGCACGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGCAGGCGGA
TCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAATTAGCTGGGCATCCCAGTGGCG
CATGCATGTAATCCCAGCTACTTGGGAGGCTGAGGCAAGAGAATCTCTTGAACCCGGGAGGCGGAGGTTGCAGGGAGCCGAGATCTCACCATTG
CACTCCAGCCTGGACAAAAAGAGCAAAATTCTGTCTCAAAAAAAAAAAAAAAAAATTCTAAGCTGGGAGTGGTTTTGCACACCTGTAATCCTGG
TGCTTTGGGAGGCCAGGGCAGGAGGATCACTTGAGGCCAGTAGTTTCAGACTAGCTTAGGCAACATAGTAAGACCCTATCTCTAAGGGGGAAAA
GAAACCTTTCTAAGCAGGTACGTGTAAGTACTAAGGACCTGTATATGATTTCTAATGTTCTATGCAGTTATTCACAGAGGTCTTCCTGAAACAG
AGTACACTTAACGCCCCTTAGGTAGCCCTTATGGACAGAGCTTCCCTAGCCTGGTATAAATCCTGCTTAGTAGTTGGGGCACAGAGAGCTTCAG
TCTGTGGTGAGGCTGTGGAGCCCCACCAGCGCCCCCTTTTGACCCTGTAGCAGTTTGGCAGTTTGAGCTTTAATAGTTTCCTCTCTGCTTCCAT
GCCCAGCTCAGTCTCAGAGAAGCCTTGGCTCAACCACCCAGCCCCTCCAAACACACACACAGCACACACAGACAACACAGCACACACACA
CACCACACACATCACACACACAGCACACACACACAGCACACACACCCCCCACAGCACACAGAGACACACAGTGCACACACACAGCACACACA
CACCACACACAGCACACACACAGACACACAGCACACACACACCACACCACACACACACCACACCACACACAGCACACACACCACACCACACACA
GCACACACACACCACACATAGCACACACACACCACACATACACCACACACACATAGACACACAGCACACACACACACACAGCACACATGC
TCCTCTAATTCCATGTATGTAGGTTCCATTTTATGTCTATAGTGATACTACTTATTTACTCTTTATCTTCTCCACTGGAATATAAATCTTTGAG
AAGGGACTATATCTTTTATCTCTGTACCCTGAGGCCAGCACAATGCCTGAAACATAACAGTTATTGAGTAAAGGTTGACAGGATGATTCTAGCC
TGTCTTCCTTTTTTATCTGAATCCATCCTAGACTGGCCCTAGAAGAAGGGCAGCTCCTTCAGAGAATGGAAACGGAAGATTTTGGGTGGCTATT
CCTACCCAAGTCCTTAGACTGTCAACAGTATTTCTGATCCCGTGCCTGGCTTTTCTGTTTCCTGTGCATGGTGGCGGATTAGGTTTGGATTCAG
GTTGGGTTTGGATCTATCACGCAGTGTCTTCTCAGTCCCATTTGTCAAGTTCACTCAGCAGAAACACAGACTATTGATCTGCTTTTGCCAGGGA
AGGCTCAGCTGCCTCCAGTGGAGTAGGGAAATTGCTTCCCGTCTCCCTGGCCTCCTTCCCAAAAGCTTCTGCAAATTTCCAGGAGAGCCCTAAG
TGGGTCCCTTGCATAGGAAGGCTGGGCCCAGGTGTTGGGATCACCACCACCCTCCCTGTGGCTGGGCAGGATTCCTGAGGTAGCCGTGCAGATA
CCTTGGATCTGTCCGTCCCTGGATGATCCTCTTCCTGCTCGATACCTGCAGTGAGATTGGAGCCATATTTCTGAGTTCTAGCTCTGGGCTGTTC
CTGGCTACATAGAGTTGCTTTTGTCTGTCCCAGCTTGTGCATCCCATGGGTCAGGGCTGGGGTCAGAGTGACGTGGCCCTCAGGGGCCAGCCAG
GAGCTCGACCAAGACATGCTGGTGCGCGCATCTTCTGACTCAGCTCAAGCAAGGACTCTGGGCTGTTGAGAAGGTGATGGGAAGGGATTAATAG

TCCCAGTGTGGTGGAGACGGGCTGTCGCTGGGAGGGTGGGGTGGGCCTGCGGTGGTGGTTGTAACTGTGGACATGTTTACTTTCTTAGCCTGGG
TTATTGATACACAGGTGCTCCTGTGTTCCACGTTCCCTGTGTCTTACCTATTTCATAATAATTTTTAAAAGGTAATGAGGCCTAACTTACTCCC
TGTCCCGCCATCAATGAGACTCCTCACAGATGGTGTGGAGGGAAGCCGCCTCCCTTCGGCCTCCCTTTCCTGAGAGAATCTTGGTGGCTCTGCA
TCCCCAGTGGCCCTGGACATGCTCTCCCTCTGCGGTCTGTCTGTCTGTCCGTGTTCCCTGGTTGGTTGGCTGGGTTCACAGTGAGCTCACCTGG
ACAAACATGCTGGGCCCCTTCCAGCCTCTCAAGAATCTCATCCTCCCCTGAGGAGGGATTGCTGTGCTCAGGGACTAGACAGAGCCGCCGGGGC
TGGGTTTCCCTGAAGAGGCCTTGCTGCGGGAGGGATGGGGCCGAGCAGCTGCTTGTCTCTGTCACCTCTTCTCTCTGTCCTGTTCCCCGTTAAC
CAAGAAGCACGAACCTCACACAGAGCTCACCCATGTCAGGCAGCTTTCTGGCATCTTCCATGTCCTCATGTATTTAATCTTAATGCACCCCACT
GAGGCAGGTGCCGAGAATACTCCCGTTTTACACGTGGGGAAGCCAAGGCACAGGAAAGGAAAGCGATTTGCCCAGGTTCACCTGCAGTCAAGGG
CATGGGCACACTTACACCCCAGACAGCCTGGACCCATGCTGGGCCGCGAGAAGAGGGCTGGCAGCCCTGTGAGGCAGGCGGGCAGGAGGCAGGC
AGGCCTCCTCCCCAGCTGCCCCAGCACCCGTGTGCCCCCAGAGGGGACGGCTCAGAGTCAGGAGGCTGGTGAGCAGGGCCCAGAGGCGCCTCCT
GAGGCGCCATTCATCTTGGCCCCCCTGGCTGTCAGGAACCCCGACTTGCTCTTGATGCAGTGTCTGAGCCTGGGAGGGTCTCGCTCCAGAACAG
GTGAGTGGGCTTCTCTAGGCCTCCTGTTGGACACTAGGAGGTGATGGTCATGGTTTCCTCTTCTCTCCTCTAGCTCAGTTTGCCCAGCTGGCCC
AGCTGAGCCCCCAGGAGCGTCTGAGCCGGGAGACGGCCCTCCAGCAGAAGCAGGTGTCTCTGGAGGCCTGGTTGCAGCGTGAGGCACAGACACT
GCAGCAGTACCGCGTGGTGAGTGGGGTCCTGGGCCTCTCCTGGGCGTGGGTGCCATGAAGTCAGTCTCTGGGGACCCGAGGGAGGGCTGGGACC
AGCATGAGAGCAGAACCTGGGAGGGCAGGAGGCCTTTTTTCCTGGGGGCCTTGCGAGGCAGAGCAGCTTGGGGAGAGGGAACGGCCTGGGCCCT
GCCCTGCCATTTCCCAGCGAGGCCCTGCGGTGTTCTCTGGGAGCCCAGAAGGGGCTGCTCTCCTCCCTTCCCTCAGGAGCTGGCCGAGAAGCAC
CAGAAGACCCTGCAGCTGCTGCGGAAGCAGCAGACCATCATCCTGGATGACGAGCTGATCCAGTGGAAGCGGCGGCAGCAGCTGGCCGGGAACG
GCGGGCCCCCCGAGGGCAGCCTGGACGTGCTACAGTCCTGGTAATGGTGTGGGGCGGCCAGCGGGCAGGGCAGGAGGGGCTGGTGGGGATCCCG
GCTGCTTCTGCGTCCTGTGCTGGCTCCTGCAGCAGGCCCCCTCCATCCTGGGACAGCTCTTGTTTCTCCAGGGAGCCTGGTTCCTCAATCAGAC
TTTGGTCCCCATCCTGTGCACCTCCCCCAGGAAGGGGGCTGCTGTCCTGGGGGTGGGATGGGGCTCGGGTGTGTGGGGTGATGCTTGGGCTGTT
TGGGCCTAGTCAGGGTCGCCCCTCCTGTGTACGTCTCTAATTCTGGGAGGCAGGGAGCTCTGCTCTTCCCATGGGTGGGAAGTGTGGCGAAAGC
ACAGAGCCTTCCTGGGGGAACGGGAGCTGTGTCTTGGGGCCTGGCGTCTGTGCGGAGGAGCCATTGTCCTCCTGTTGGCCTTGGGGCTCTCGTG
CAGGTGTGAGAAGTTGGCCGAGATCATCTGGCAGAACCGGCAGCAGATCCGCAGGGCTGAGCACCTCTGCCAGCAGCTGCCCATCCCCGGCCCA
GTGGAGGAGATGCTGGCCGAGGTCAACGCCACCATCACGGACATTATCTCAGCCCTGGTGACCAGGTGACTGCTGCCTGTTTGCCATGCCCAGG
AGCTTGGGGCAGCTCCTGCCTGCGTGGGGGGAGCCGCAGGTGCCTTCCAGACCAGCAGATCCACTTCCTGCCTCTCATCCCTCCCAACTCCATC
TCCAGTTGCTGTGGCCCTTGCCCAGTTTCTCCTGTGGACACTGCAAGAGATGCCCTTGGGCTGCAGCCCATGCCAGCTTCTGTGTTATCTCACT
CCCCTCTCCATCCTCTCCCTGGACTCTCACGGCTTCCCCAGGAACAGAGGCTGTGCCCGAGCTCTTCACCTCCTGAGCCCCTCGGGAGGCAGCC
CCACCCCCACCACAGAGGGACTGAGAGCCCTTTCCCCTGCACCAGCCCCTCATCATGCATCTGTCCCTGTGTCCCCCTGCAGCACGTTCATCATT
GAGAAGCAGCCTCCTCAGGTCCTGAAGACCCAGACCAAGTTTGCAGCCACTGTGCGCCTGCTGGCTGGGCGGGAAGCTGAACGTGCACATGAACC
CCCCCCAGGTGAAGGCCACCATCATCAGTGAGCAGCAGGCCAAGTCTCTGCTCAAGAACGAGAACACCCGCAAGTAATTGTGCAGCTTCCTCTC
ATTCCCTGCTACTTGTCTCATGTCCTGGCAACAGGAAAAAAAGAATTCTGCCTCCTGTGTCAGATCCCTGTTTGCCCTTCTGGCCTCTTCTGGG
CATCAGCAAAGGAATATAAGGAAGTTCTTGGGCCTGGTGTGGTGGCTCACACCTGTAATCCAAGCACTTTAAGAGGCCGAGGTGGGCAGATCAC
CTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCAGGCAC
CTGTAATCCCAGCCACTAGAGAGCCTGAGGCAGGAGAATCCCTTGAACCTGGGAGGCAGAGATTGCAGTGAGCTGAGATTGCAGTGAGCTGAGA
TCACGCCACTGCACTCCAGCCTGGGCAACAAGAGCAAAACTCCGTCACAAAAAAAAAAAAAAAAAGTTCTCTTAGGAACTGTTTTCTGTGAAGAT
AGTTTGATCTTGTTTCATTTTGTAGAGATACGTCCGAGAAGATTACATGTATGTTATGTAGCTAACATTTCCTCTAAATGACGTACATTTTT
AGCAAACTTCTCTATTTCCTGCTACCCCAAATTATATTATTTACTCCGCATGTCCTGAGACCCTGGCATGGGTTTGGAGCTGGTCTCTCTCTGA
TTTGCAGTGATTACAGTGGCGAGATCTTGAACAACTGCTGCGTCATGGAGTACCACCAAGCCACAGGCACCCTTAGTGCCCACTTCAGGAATAT
GGTGAGGGTGGAAGAAGAGGAAGAATGAATTTTTCCCTGGTCTTTGAGGGGAACAACTTATATCTTACGTTTCATCTTATGTTTCTTCTTTGTA
GTCCCTGAAACGAATTAAGAGGTCAGACCGTCGTGGGGCAGAGTCGGTGACAGAAGAAAAATTTACAATCCTGTTTGAATCCCAGTTCAGTGTT
GGTGGAAATGAGCTGGTTTTTCAAGTCAAGGTAAAGCCTTCCCTCAGCTCTGCGTGTGCGTGTGCGTGTGTGTGTGGTGTACTTTATGTTAC
AAAATATTTTTTTTTTATCACATAGCATCTTCTTCTTTTTGACTGTTGGTAAACTGAAAATGGACTGACCTCACCCTGAGAACTGTTTCACTTA
GGTTCTCTTAAGACATGAACAGAGGCCAAGCACAGTGGCTCATGCTTGTAATCCCAGCACTTTGGTAGGTTGAGGCAGTCAGGTCACTTGAGGT
CAAGAGTTCAAGACCAGCCTGGCTAACACAGTGAAACCCCATCTCTACTAAAAAGTACAAAAATTAGCCAGGCGTGGTGGCACGTGCCTATAAT
CCCAGCTACTCAGGAGAATCACTTGAACCTGGGAGGCTGAGGTTGTAATGAACCGAGATTGTGCCACTGCACTCCAGCCTGGGTGAAAGAGTGA
GACCCTGTCTCAAAAAAAAAAAAAAAAAGACATGAACAAGCAAGGCCCAGTGCAGTGGCTCACATCTGTAATCCTAACACTTTGGGAGGCCAAGG
CAGGAGGATTGCTTGAGTTCAGGAGTTCCAGACCAGCCTGGAGCTGGTTGTGAGACCCCGTCTCAACAACAACAACAAATTAAAAAATAAAAAA
TAAAACATGAACAAACAATAATGAACTGAACTAGCTGGAGAGGTAGACTACAAAATGGATATGAGAAACATTACTTGGGATGAATTTGAGTAAA
GGTTGTGGTAAGTTTTAAATTTGTTATTTGTATTTTCTTCCCAGAAATATCTCCAATAGTCTTTTCTCTCTCCTGTTCTCCATGTAACTTTGAG
AAACTTTATCCTTCAGAAATATCTAAGCAACATTGCTTGTAAAATATTTAAAATTTCTAAGATTGTGCCAGTATGAAAAGTCATATTATTCCTG
GGGCCATTTAGATTCTGTGTCTGAGAGGAACATTAACTGAAACTTGGAAAATAAAAGTGTTGTTATAATAAGAAAAAAAAAAAAGAGAGAAGGA
GAAGAACTTGAGGCTCGTGGGCGCTCAGCCTTCTCTTGTGTCTTTTTAGACCCTGTCCCTGCCAGTGGTGGTGATCGTTCATGGCAGCCAGGAC
AACAATGCGACGGCCACTGTTCTCTGGGACAATGCTTTTGCAGAGCCTGTGAGTGTATTCCTCGGGCATGTGGGTCCCAAAATCAATGCCGGTG
TCATGAATCTCATTTATGTATTATCCTTTTAAAAAGCATAGGAAAAGGCCGGGTGCAGTGACTCACACTTGTAATCCCAGCACTTTGGGAGGCC
GAGGCGGTTGGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATAGCAAAATCCTGTTTCTATTAAAAAATACCGAAAAATTAGCT
GGGTGTGGTGGCACATGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCACGACAATCACTTGAACCCGAGCGGCAGAGGTTGCAGTGAGCCGA
GATCGCACCACTGCACTCCAGCCTGGGTGACAGAGTGAGACTCCATCTCAATAATAAAAAAAAAGCATAGGAAAAAAGACGCTGTTTTCTTTAG
TGGGAGGCAGAATAGAAAGAATGTGGAAAGTGGAAAGAACATGGGCTTGACATCGGGCCAGGGTTTGAACTGAGACTCCACCATTTCCTCACTC
CATGACCACATGGGCAGTTCACTTTACCTCTCTGAGCCTGAGTTTCCAGCAAGTGTCTGCAGCACAGGGATACTCTTGCTCTACAGCATTGTTA
GGAAGATTAAATTAGATAACATAGAAAATGCTTGCCACACAGTCAGTACTCAGTAAATATTATTTTGAATCCTTGGGTGAAACTATGAATGGGA
TTTGGGACTCCTAGGTTCACTCCAGAGGTTAGATCTCTCCAGAGGCTTACTTTAGCATAGAAGTTGCTTCATACCCTCTTCCTTTCAATAAATG
AAGATGCTGTTAAATGTCTTTTCCAAATTTTAGTTTCTGTGATTCATTCTAGGTCTCATGAAGAATGAGATACTTTGCCTCAAGGAAGATATAA
TTTGGTGGATTTATGCACCCAAACGCTATCTGAATCCCACTAGCATGCTGCTCGATGAGCATTTTAAAGATCTCATAGGCTGGGTGCGGTGGCT
CATGCCTATAATCCCAGCACTCCAGGAGGCCAAGGCAGGCAGATCCCTTGAGCTCCAGACTAGCCTAGGCAGCATAGCAAAATCCTGTCTCTAC
AAAAAATACCAAAAAATTAGCCAGGCATGGTACACCAGCCTCTAGTCCCAGCTACTTGGGGGGGGCTGAGGCGGGAGGATCGCCTGAGCCCAGG
AGGTCCAGGCTGCAGTGAGCCAAGATTGTGCCACTGTACTCCAGCCTGGGTGACAAAGCGACACCCTGTCTCAAAGAAAAAAATTTTTTTAGTA
GGCAAAGGTCATTTGTTACATATTTCCAATAGAGATTAGTCCATAAAAGCATGATAAAAGGGTTATCATTTGGGACATAAGAGCATGTCCTTCT
CTAAGTATATCCAACAAACCTTGATTATGTTTTGTTTTGTGGCTGTTAGAATATAGGATTTGACTGTTAGTTCAACAGCTCATTTACAAAACAG
CATGGACAGCATGGGTTACCTTCCAGTTGTGTGTAAAGAAGGTGAAATGGAACCTTCTGGCTCACGTGGAGAGGCTTAACGTTTCCCAACACTC
CTCTTTAGAGAAAAAGTATTTTACTGCAAAGGTGAGATTTTTAAGAGATTTACCATACTTCACTTACAAACTCTGAATCAGAAGCTCCTTTTTG
AAACTGTCTGTCTGCCTCTTGTCCTGATAAGCCTCCTAGATAAGATTGCCACATCTCTTGTTTCCTTCCCTGCCTGTCCACAGATCCTCACTCTC
TGTGTACCTTTGGCATCTCCTGCACCATGTAATTACTCAAGTATCTTGTCTAAATAAATAAGCATTTTTAACATTCTCAGCTATGTTAATGACT
ACTTACATCTTATGCTATTTTTTTTTTTTTAATTTTTTGAGACAGAGTCTTGCTCTGTCACCCAGGCTGGAGTACAGTGGCATTATCTCGGCT

SAGRES DISCOVERY 02-27

CACTGCAGCTTCTGCCTTCTGGATTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGAAGCTGGGATTACAGGTGCATGCCACCACGCCCAATTAA
TTTTTTATATTTTTAGTAGAGACCAGGTCTCACCATGTTGGCCAGGCTGGTCTCGAATTCTTGACCTCAAGTGATCCACCCACCTCGGCCTCCC
AAAGTGCTGGGATTATAGGCATGAGCCACTGCACCCAGCCGACCTTATGCTATGTTAAAAAAAAGACTTTCAGCTGGGCACGGTGGCTCACACC
TGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCATTTGAGGTCAGGAATTCGAGACCAGCTTGGCCAACATGGTGAGACTCTCATCTC
TACTAAAAATACAAAAATTAGCTGGGCGTGGTGGTGCGTGCCTATGATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAACCTGGG
AGGCAGAGGTTGTAGTGACCTGAGATGGTGCCACTGCACTCCAGCCTGGGCAACACAGTGAGACTCTGTCTCAAAAAAATAAAAAATAAAAAAT
AAATAATAAAGACTTGTGGCCAGGCACAGTGGTTTATGCCTGCAATCCCAGCACTTTGGGAGGCCAAGGCAAGCGGATCTCTTGAGCCCAGGAA
TTTGAGGCCAGCCTTGTCAACATAGCAAAACCCTGTCTCTACAAAAAACACACAAATTAGCCAGGCATGGTGGTGCACGCCTGTAGTCCCAGCT
GTTTGGGAGGCTGAGGTAGGATAATTACTTGAGCTAAGGAGGCAGAAGTTGCAATGAGCCAAGATTGGGCCACTGTACTCCAGCCTGGATGACA
GAGCGAGACCTTACCTAAAAAAAAAAAATAATTGTGGAAATTTATTCTCCATATATATTTGCCTATGTGTCCTGTGGGTCAAATAACATAAGAAC
ATTGCAGCATTGTTAGTAATAGCTAAAGATGAGGCTGTAACACTGATGCCCATCTATGGGGGTCTGGTGAAATTTCTTTATGTGCTGATGGGAG
GTCTCCCAGATAGAGGATTAAGTGAAAAGAGGAAGATGCAGAACATGTGGATTTTGTGCTGTCATTTGTGAAGAAAAGGAAAAGGTATATGTCA
TTGCTGGCATGCATAGAATATCTTTGGTGGGATACACAAGAAACTGTGTTAGGTGCCTTTAAAGAAAAGAACTGGGTTGCTGGGAGACAGGGAT
AGGGAGTGACTTCACTGTGTAGCCGTCTGTGCTTTTTGAATTTTAAATCATGTGAAAATCACCTATTGAAAAAAGTGTTTGTAACAAAATAAAA
TGGAGTACTATGGCTGAACGGGTTGAAAAGCAGTTTATTAAAAGTTAATCTTCTAACCTATTTCTCAATAAAGCCATCCAACTCAAAATTTCCA
CTCTTCCATACCAAGTTGTTTTACTTTGAGCTAGAATTCTTGGCAGAAGGAGTCGAGGGCAATGATTCCACGTGTGTACACACATGCCGACACG
TGTGCACACATACGCACACTCTCTCTGTTTGTACCTAGAGGACCAGTCTTTCAGATTTCTAAATTCCCAAGGTGTTTACAATCTAAGAGCCAGA
CCTTGGTTATGTTTTGGTTTGTGGCCGTTAGAACATAGGATTTGACTGTTAGTTCAGCAGCTCATTTACAAAACAGCATGGATAGCATGGGTTA
CCTTCTAGTTGTGTGTAAAGAAGGTGAAACGGAACCTTCTGAATTTCACAGAACCGTGTACCCCAGCAGAGTCTGAATTTATCCTCAGGCCCTG
CAAGACAAATGTGTGTAACCACTCCCAGCCATCAGCGTTTTTCTTTTGTGGCTTGAGGGAATAAATCATGCAACTGTTTTCTCATCAGATTCTG
GCCTCTCTCCCTCTCAGGGCAGGGTGCCATTTGCCGTGCCTGACAAAGTGCTGTGGCCACAGCTGTGTGAGGCGCTCAACATGAAATTCAAGGC
CGAAGTGCAGAGCAACCGGGGCCTGACCAAGGAGAACCTCGTGTTCCTGGCGCAGAAACTGTTCAACAACAGCAGCAGCCACCTGGAGGACTAC
AGTGGCCTGTCTGTGTCCTGGTCCCAGTTCAACAGGGTGAGGAGCCCAGCTGCCAGCCGCTGTTAGATCAGTCCTTCCCAACCAGATGCTCTCA
GGAGTCTCCCTGCCCTGGGCCCTTATTCTTCATGTCTCTAATAAAATGTACCGAAAGTAATAGAAGCTTCTGACTAGATGGACAACTTGAGAGT
TACCCAGGTCACGTGTAGAAAATTACATCTTTGCATATTTTAAATAAGTTGACCTTTGTCTACAGTTAATGCATTTTCTTCCTTTGTAAAGGAA
ATAGAGCAAAGCAGATGTTAACATAGCTCATGAGAAGCAAAGCTTTTGAGGGGATGCGAACTCTGGGCCTCTCTCCCCTTTACTCTCTTATGTT
CCCCATGTGTAATGCCAGATCAGGCTCCTATGGGACCCTCAACCCACAAAGAGGGATGCTGATGAAAGAAACTCCTCCTCTAGCATCTGCTAAT
TCAGACGTCACTTTGATTTTATTTTTATTCATTTTTTTTTTTTGAGACAGAGTTTCGCTCTTGTTGCCCAGGCTGGACTGCAATGGCACGATCT
TGGCTCACCGCAACCGCCGCCTCCTGGTTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGCGGCACCACGCCCC
GCAATTTTGTATTTTTAGTGGAGACGGGGTTTCTCCATGTTGGTCAGGCTGGTCTCGAACTCCCGACCTCAGGTGATCTGCCCGCCTCGGCCTC
CCAAAGTGCTGGGATTACAGGCGTGAGTCCACTGTGCCCACCCTATTTATTTTTGTTTATTTATTTATTTTTGAGATGGTGTCTCGCTCTGTCA
CAAGGAGTGCAGTGGTACATTCTGGGCTCACTGCAACCTCCGTCTCCCAGATTCAAGTGATTCTCCTGTCTCAGCCTCCTGAGTAGCCGGGATT
ACAGGCACCCGCCACCATGTCCAGCCAATTTTTGTATTTTTAGTAGAGACGGGGTTTCACCATGTTGGCCAGGATGGTCTCAAACTCCTGACCT
CAAGTGATCTGCCTACCTCAGCCTCCCAAAGTGCTGGGATTACAGACGTGAGCCACCATGCCCGGCTATCACCTTGATTTGAATTTAATTTTTG
TTTCTTTTCCTACACCCCCCACCCCCAAGGTGTTTTAAATGTTTAATTTGGAGCCTAACAACGTGCATTTCTCAGAAGCTCCCAGGTGACACTG
ATGCTTCTGGTCACAGACCACACATCGAAACTAGCAAGGGACGGGTCAGCCCAGTCCCAGGTGAAAGTGTCTGTAGCAGGAGCCCACTGGGTGC
TGGTAACTGCAGTTTGGTATTTTCCCCTTCTTCCCTCTTTTCCTCTCCATGGGGCCATTAGGTAAAACTCAGGTAGGCGGGGATATTTGTATGC
CTCTGACAAGGGTAGATGTTTGTTTCCCATTTAATTTTTCCAATTAAATATGTGTATAATATTCCAAGTGTTACTCTGGTGTTCTTATGTTCAC
TGTTGTATCTCCAACCAGGAGAATTTACCAGGACGGAATTACACTTTCTGGCAATGGTTTGACGGTGTGATGGAAGTGTTAAAAAAACATCTCA
AGCCTCATTGGAATGATGGGTGAGAATCATTATTTCTTAAGGCGCCGACAGAGTCTGAAGGTCTTCTCTCTGGCATCGTAAGTCACACTCTGCT
TCTGTCCTTTGTCCTTGGTGATCCAGGGCCATTTTGGGGTTTGTAAACAAGCAACAGGCCCATGACCTACTCATTAACAAGCCAGATGGGACCT
TCCTCCTGAGATTCAGTGACTCAGAAATTGGCGGCATCACCATTGCTTGGAAGTTTGATTCTCGTGAGTGCCCCTCCCTTCTTATGTCCAAAGT
TAGCTGCTTTCGTTACAAAATTATTTTAACAAATAATTTAGTGGGTACTTACTATTTGTTGAGGTCAGTACTAATTATGGGAAACATAAATGTA
TAGCCATGACATACTCATAATAAGGCAGCCTATGAAAAATACTATTATGGGAAACACAATTGCTAATTTGGTTATACATGAAAGTATATGGCAG
CATGGTTACACATGAACATTTAACCATGACATGGCTACCTATGATACAAGAGTCCGTGCAGAATCTCAGTTGCTTCCCTCTTAAAATGTTTGCC
TTATTGTACTACTCTGCATAAAGCTTATTTCAGTGAAGAATTTGATGATTTGGAGTTCTTACAGTAGTAAAAATATTCCTTTATCCTAATTAAC
ATATGGATATTGCCATCAACCATTTCTACCCAAGATGTTAGTTCTTTTCTTTTTTTGAAACAGGGTCTCACTCTTTTGCCCGGGCTGGAGTGCA
GCGGCACAAACATGGCTCACTGCAGCCTTGACCTCCTGGCCTCAAGCAGTCCTCCTCCCTTAGCCTCCCGATTAGCTGGGACCACAGACGTGCA
CCACCACACCCATCTAATTTTTAAATTTTTTGTATGTTGCCCAGGCTGGTCTCGAACTCCTGGGCTCAAACAATCCCCCACTTTGGCTTCCCAA
AGTATTGGGATTACGGGCTTGAGCCACTGCACCAGGGCATCAGGAAAGTTAGTTCTCTCCTCTGACCCTCACAATAAGGGTAGCTTGCTGGTTC
ATTTTCTGTGAATTAAAGTTTTTAATAACTTTTGGCTGGGTGCGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGCCTCAGGCAGGAGGAT
CTCTTGAGGCCAGGAGTTCAAGCCCAGCTTGGGCAACATAGTAAGACCCTGTCTCTAAGTAAATAAATAAATAAATAAGTTAATTAGGTGGGCA
TGGTGGTGCTCATGGTGTGCGCCTGTAGTCCCAGCTACTCTGGAGGGTGAGGTGGGATGATCACTTGACCCTGGGAGTTCAAGGTTACAGTGAG
TCATGATCACATCACTGTACTCCAGCCTGGGCAACAGAGTAAGACCCTGTCTCTTAAAAGAAAAAAAAAAAAAAGGCTGGGTGCGGTGGCTCACG
CCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGCGGATCATGAGGTCAGGAGATCGAGACCATCCTGGCCATCACAGTGAAACCCCCGTCTC
TACTAAAAACACAAAAAAATTAGCCGGGTGTAGTTGTGGGCACCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCG
GGAGGCGGAGCTTGCAGTGAGCCGAGATCGCGCCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTCCATCTCGAAAAAAAAAAAAATTCATCA
CTTTTAATAGCTCTTATGCTTTCTCTGGTTGTGGGCATGCTTCCTAGCTTTTATATATCTTTGTATGGGAAATCAGGGATTGGGGGCCAGTAAA
AACTGTTTCTTCTACTGAGGGCTAGAATACTGTTTGAACTTGAAACGTCTGAGATCATTGGATCTCTTGGGAAGTGATTTTTGTATTACCTGCT
TATCTACCCATGGCTTTTATTTTTATTTATTTATTTATTTTTGAGATGGGGTCTCTGTCACCCAGGCTGGAGTGCAGTGTCATGAT
CTCAGCTCACTGCAACCTCCACCTCCCAGCTTCAAGCCATTCTCCTACCTCAGCATAGTACCTGGGACTACGGATGAGTGCCACCACACTTGGC
TGATTTTTGTATTTTTAGTAGAGACAGGGTTCATCATGTTAGCCAGGCTGGTCTTGAACTCCTGACCTCAGGTGATCCACCTGCCTAGGCCTCC
AAAAGTGTGGGATTACAGGCATGAGCCAACATGCCTGGCCCCTACCCATGGCTTTAAAACTATTTCAGGCCGGGCACGGTGGCTCACGCCTGT
AATCCCAGCACTTTGGGAGGCTGAGGTGGGTGGATCATGAGGTCAGGAGATCAAGACCATCCTGGCTGACATAGGGAAACTCCATCTCTACTAA
AAATACAAAATTAGCCAGGTGTGGTGGCGCGTGCCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCAGGGAGTTGGA
GGTTGCAGTGAGCCAAGATCGCACCACTGCACTCCAACCTGGTAACAGAGTGAGACTCCGTCTCAAAATAAGTAAGTAAGTAAGTAAATAAATA
AAAGTATTTCATCTATAACCCATGGTTATTTTTAAATGGAGATTTCTATTGGAGCCATTATAATGGCAAGCTTGAATTTATAGTATGTTGGGGT
TTTAAGATTTCCTAATTCAGAAATCATGTTTAGAATGTGATTGTTCTGTTTATTGATCTAGAGGAAAGAATGTTTTGGAATCTGATGCCTTTTA
CCACCAGAGACTTCTCCATTCGGTCCCTAGCCGACCGCTTGGGAGACTTGAATTACCTTATCTACGTGTTTCCTGATCGGCCAAAAGATGAAGT
ATACTCCAAATACTACACACCAGTTCCCTGCGAGTCTGCTACTGGTAACAATGTTCGCATTCTGATTTGATTTTGTTGTGTGTGTGTGTGTG
TGTGTGTGTGTGTGTGTGTGCATACCTGCGTGTGTTATCTCTCTTGTGTGAAAACCCACACAATTACCATTCAGTGAGAGCAGTTTGAGCATTT
TCCAGGGCAGATGTAAACCTTGGGCTGGATTCTTCAGTCATACAGAAAACACATCTACCACTAACCCCAAATATCAAATTGAAGAAAACAAATT
CTTTTTAATACAAGCTTAGATCAAACAAAATTAGGTAAAATTTTGTTTTTCATGACAGAGATGGTTTTATTGCTTTCTGAGTTTAGAAGTATTA

CATATTTATTATAAAATTTTCAGAAGACACATAAAGGCATAAAAAAGAAAACAGGCTGGGTACGGTGGGTCATGCCTGTAATCCCAGAACTTTG
GGAGGCCAAGGCAGGCGGATCATTTGAGGTCAGGAGTTCCAGACCAGCCTGGCCAACATGGTGAAACCCTATCTCTACAAAAAATACAAAAATT
AGGTGTGGTGGCAGGCACTTGTAATCGCAGGTACTCGGGAGGCTGAGGCATGAGAATCACTTGAACCCAGGAGGTGGAGATTGCAGTGAGCTGA
GACCACGCCACCACACTCCAGCCTGGGCAATAGGGTGAGACTCAGTCTCAAAAAAAAAAAAAAAAGGAAGGTCGGGCGTGGTGGCTCACACCTA
TAATCCCAGCACTTTGGGAGGCTGAGGCAGGCAGATCACCTGAGGTCGGGAGTTCAAGACCAGCCTGACCAACGTGGAGAAACCCCACCTCTAC
TGAAAATACAAAATTAGCCTGGCATGGTGGCGCATGCCTGTAATCCCAGCTACTCGGGAAGGCTGAGGCAGGAGAATTGCTTGAACCCGAGAGG
TGGAAGTTGTGGTGAGCTGAAATCGTGCCATTGCACTCCAGCCTGGGCAACAAGAGTGAAACTCTGTCTCAAAAACAAAAGAAAAGAAAACAAA
AAAACAGATACCACACAACATCTCTCATCTAGAGATTAACCTCTATGGATGATTTAGTGACTATTCTTGCACTCTATATATAGATATGTATTAT
ACATTGCATCACCCGTTGCTTGAACTTCCTGTGTGGAGGTTATCTAGCAGCAGAACGAAGACCATAAACAAGGAAACATATTCAGGCCGGGCGC
GGTGGCTCATGCCTGTAATCCCAGACTTTTGGGAGGCCGAGGCAGGCATATCACCTGAGGTCAGGAGTTTGAAACCAGCCTGGCCAACATGGTG
AAACCCCATCTCTACTAAAAATACAAAAAGTAGTCAGGTGTGGTGGTGGGCGCCTGTAATTCCAGCTACTTGGGAGACTGAGGCAGGAGAATCG
CTTGAACCAGGGAGGCAGGAGAATTGCTTGAACCAGGGAGGCAGAAGTTGCAGTGAGCCGAGACTATGCCACTGCATTCCAGTCTGGTGACAGA
GCGAGACTCCATCTCAAAAACAAACAAAACACAAATATATTAATTTAGTGATGGGCGCCCTGAAGACAAATAAAGCAAGGTAGAGGGATAGAGA
AGTGGCAGGGAGGAGAGTGGAGGTGTTATTTTACTAGAGTGGTCAAGGAGGGTTTCTCTGAGGACATGTTTGTTTTTTTTGTTGTTGTTTTGTT
TGTTTGTTTGTTTGAGATGGGGTCTCACTTTGTTGCCCAGGCTGGAGTACATTGCTCACTGCAGTCTCAAACTGCTAGACTCAAGGGATCCTCC
CACCTCAGCCTCCCACATAGTTGGGACTACAGGCATGCACCACCAATCCTGGTTAATTATTTTATTTTTATAGATATGGGGTCTTGCTGTGTTT
CCCAGACTGGTCTCAAATTCCTGGGCTCAAGCAATGTTCCTTCCTCAGTCCCCCAAGGTTCTGGGATTATAGGCATGAGCCACTCTACCTAGCC
AGGATGTGATGTTTGAAAAGACCTGAATGAAGTGAGGAAGCTAGCCATACAAAGATCTAGAGAAAAACATTGTATGCCAAGAGAACAAGTACAA
AAATCCTGGGTTGAGAATGGCCATGTCTGGAAAGCCTCAGGAGGGCCAGGGAGGCTGGAGCCTCTTGAGCAGGGAAGATAAGTGGTAGGAACTG
AGGTCAGGACACTCCAGCCTTGGAGTTCAGGGTGAAAGGTTGGAGTCTAGACCATATCATATGTAATTTTTTGTGACTTTTTTTTTTTACTTGG
AAATATATCCTAGGTAGCTGGGCATGGTGGCTCATGCCTGTAATCCCAACACTTTGGGAGGCCAAGGCAGGTGGATCACTTGAGGTCAGGAGTT
TGAGACCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAAACATACAAAAATTAGCCGGGCATGGTGGCAGGTACCTGTAATCCCACC
TACTCAGGAGGCTGAGGCAAGAGAATCACTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCCAAGATCACACCACTGCACTCCAGCCTGGGCAAC
AGAGCGAGACTCTGCCTCAAAAAAAAGAAATATATCCTATGCAGAGTTACAGCTCAGTAAATGTAATCTTCCAACCTCATTTTGATGACTGCAT
ACAATCCCACTGTATGGTGAGTTACATGTTGGTTATTTAAGATACTTATAATTTGGGCCTGGGCACAGTGGCTCATGCCTGTAATTCCAGCACA
TTAGAAGGCGGAGGAGGAAGGATTGCTTGAGCCTAGGAGTTTGAGACCAGCCTGGGCAACATAGTGAGACTCCATCTCTACAAAAAAGAAAAAG
TTAGCTGCGCTTGGTGGCGCATGCCTGTAGTCCCAGCTACTCAGAGGCAGAGGCTGGAAGATTGGTTGAGCCCAGGAATTTGAGGCTGCAATG
AGCTATGATTGTGCCATTGCACTGTAGCCTATGTGACAGAGTAAGACCCTGTCTCAGAAAAAAATAAAATCCTATTTCTGGCAGCATTTCTTTG
TTTTTAACTTCTTAGCCAATCTATAAAATACTCTGTACACTGTAAAGCACAAAAAACATGTTATGAAAAGGTCGCTCCTGACACTTGAAGCCCT
AGAAGAAGATTAGGGTAATAAGCAATTGGTGAACCCTGCAGCGTTTCACCCTCTTGGGCTACTTAAATGACAAGCTCCTTGTCCTATAATCATA
GTGTGATCGTCCTTGCCTAGTATAATTAACTTTGTACTGATTCCCATATTCACGTACCCAGAAACAAGACTTCATTCTCCCATGTCAGATAATC
ACATTCTTACCACCTGCTTACCTGGATTTCCATAGTCAGCCTTCTGAAAAGGTAACTGTGGTTGACCAGATCACGTGCAGGTTTATCTGCTCAT
CTGCCACATCCCAGTGGGGATTCTGTGGGAAGCAAAGGACACATCGCATTCTTGGCACCAACAGCACTCACTGGGACTAGTGACATCAAAGTAC
CCCAAATGCAGAAACACCAGGCGTGAAGGAGCGTGCAGGTGCTGGGAAAAGTAGCCTTCCCTTTCCTGAAAGACTAGACACTCAGAGTTAGAGG
AACCTCAGACATCATCAGATCAGATCAGCGGCTCTCCAGTGCCTAGGCCTTTCCATTAGATCCCTGACGTGTATGCACCTCCTGCTTGAAAACC
TCCGGTGATGGCCAGGCACCGTGGCTCACACCTGTAATCTCAGCACTTTGGGAGGCCAAGGCGGGTGGATCACTTGAGGTCAGGGGTTCGAGAC
CAGCCTGACCAACATGGAGAAACCCCATCTCTACCAAAAATATAAAAAGTAGCTGGGCATGGTGGTGCGCACCTGTAATCCCAGCTACTCGGGA
GGCTGAAGCATGAGAATCACTTGAACCCAGAAGGCAGAGGTTGCAGTGAGCTGAGATCGCACCACTGCACTCCAGTGTGGGCAACAGAGTAAGA
CTCTGTCAAAAAAGAAAAAAAAGAAAACCTCCAGTGACAAGGAAATCAGTCCTTCCTAAGATAAATCATTTCTTTTCCTGGCAGTTCTACTTAG
AACATTCTTCCCTGCATGACTGAACATTTGTCCTCTTATGACCTGCCCCTCCTGGTCCTGATTTTATCCCCTGGGTCAGGTAGAACAAATCCTG
TCTCTCTGCTGCATCTTGGACTTTAAGCTTTTCAAGGTGTTTTTTTTTTTTTAATTAGTATGCAATTAGTGCTTGACTTAGATTTGTATTGAAG
TACATAGTTTCCATGGTTTGAAGAATTTATTGAAACATCCAAGCCAATTTGGAAGATATCTTGAATTTCAGTTTTAGTGCTGACCTTCTCCTCT
ACCAGGTCTTCCTAACAGATTGAAATATTAAATGCTTGGCCAAGTGCGGTGGCTTATGCCTGTAATCCCAGCACCTTGGGGGGCCAAGGTGGGC
AGATAACTTGAGGTCAGGAGTTAGAAAACAGCCTGGGTGACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGCCAAAGTGTGGTGG
TGTACCTGTAATCCAGCTACTCAGGAGGCTGAGGCATCGGAATCATTTGAACCTGGGAGGCGGAGGCTGCAGTGAGCCGAGATTGCACCACCGT
ACTCCAGCCTGGATGAGAGAGTGAGACTGTTTCAAAAAACAAAACAAAAAAATATTAAGTGCTTGTGTCATATCCTTAGATAAGTTAGGTGGTT
GTGTTCTGTCCTAAGAAAAGATGTGATTCATAAGGAAGATCACATTTTTGTTTCACTTGAGAACTTTGATTTACTACATTCTTCCCTTGGCAGC
TAAAGCTGTTGATGGATACGTGAAGCCACAGATCAAGCAAGTGGTCCCTGAGTAAGTGTCCAGGTGGCTGTGGCTCTCCTTCTGCCTCTTTCCT
CCTCCCCCAGACCCTGCCTCCCATCCTTATCCTGGCCCAGCTTTCCGCTCCCCCGGGGAAACTGTCTCAGCCCTGGGGAAGGACCTGGGCTTGG
TGATGCTATGCCAGTACCTGAGGCCCCACTCCTGTAGCTGGAGCCCCAGGGCCGAGTGGGGCACTTTGTCCTTCTACACCCTGAGAAAGACAAA
GATACCCCTTGGTCCCCTCCCCAAGTCAGCTGCCCTGGCCTCCCTGGCAGCTGAAGCTCTGTTCTCTTCCTTCTGCAGGTTTGTGAACGCATCT
GCAGATGCCGGGGGCGGCAGCGCCACGTACATGGACCAGGCCCCCTCCCCAGCTGTGTGTCCCCAGGCTCACTATAACATGTACCCACAGAAGT
AGGTGGCATTCTTGTGGGGGTCCACAGGGGAGGAACTGGGGGCTTGGCCCCAGGCTGGACCCCTGGAGGGCTGGGGTCAAAGGAATCCAGAGCT
CCTCTAGGTCTGAGACCACACAGCCCTGGCCCGGGCTCTGGCCTTTGGGAGGGAGAGATTTGACCAGAAGTGATTGGTGGTTTAGAGTCGGGTT
GGGCAAATGTCATCTGTTCCCCTCTCTCAATATGGAGATTTTTCTTGCTCTAAGGACTGAGTGGAGTTGTGATGTGTCTGGACAGCCGGTGTGA
GAGGTAACAGGGGAGGGTATTTCAGTCTGAGTTGCTGTACAGCCAGCTGTTTGAATGGTTGTTCTTTTCCCATGAAGCCCCAGGCTGAGGGCAT
AGGCTGGCTCAGACTGCTCCCCTGGTGGCCTGTGGGGCTTGGGGTGGTCTCTGGCAGGCTTCCCCTTCCCTTCCCTTCTTTTCCCTCCC
AAGCCCTGACTCAGTCCTTGACACCGATGGGGACTTCGATCTGGAGGACACAATGGACGTAGCGCGGCGTGTGGAGGAGCTCCTGGGCCGGCCA
ATGGACAGTCAGTGGATCCCGCACGCACAATCGTGACCCCGCGACCTCTCCATCTTCAGCTTCTTCATCTTCACCAGAGGAATCACTCTTGTGG
ATGTTTTAATTCCATGAATCGCTTCTCTTTTGAAACAATACTCATAATGTGAAGTGTTAATACTAGTTGTGACCTTAGTGTTTCTGTGCATGGT
GGCACCAGCGAAGGGAGTGCGAGTATGTGTTTGTGTGTGTGTGTGTGTGTGTGTGCGTGTTTGCACGTTATGGTGTTTCTCCCTCTCA
CTGTCTGAGAGTTTAGTTGTAGCAGAGGGGCCACAGACAGAAGCTGTGGTGGTTTTTACTTTGTGCAAAAAGGCAGTGAGTTTCGTGAAGCCTG
GAAGTTGGCCATGTGTCTTAAGAGTGGCTGGACTTTGACATGTGGCTGTTTGAATAAGAGAAGGACAAAGGGAGGAGAAAGCACATGTGCTCCA
GTGAGTCTTCGTCACTCTGTCTGCCAAGCAATTGATATATAACCGTGATTGTCTCTGCTTTTCTTCTGAAATGTAGATAACTGCTTTTTGACAA
AGAGAGCCTTCCCTCTCCCCCACCCCTGTGTTCTTGGGTAGGAATGGGAAAAGGGGCAACCTACAAAGATTGTTGGGGCAAGGGAAGTCACAAG
CTTTCGGATGGGCGGTGGCTTTTCACAAAACATTTAGCTCATCTTATTCTCTCTTTGTCCTCTCTCCCCTCCTGCCCGCCCGCACCCTGGAATT
GCCACTCAGTTCCTCTGGGTGTGCACATATGTTTGGAGAAATAGAGGAGAGAAAAGAGGGCCACGTAACTGAAGAGCTTACAGTGCCAATGCCGT
TTGTGTTCTGGCCAGAGTGGAGTGCGCAGCCCTGACTCCCAGGCGCTGAGATTGTTGCCTGGTTACCCAGGAAGCTGCTGTTCCGGCTGCCCAG
CCTTTCTCTGAGCCAGCGGATGCACAGTCCGTGGCCTTCTTCAGGCTTATTGATGATGCTTTTTGCAAATGTTGAATCATGGTTCTGTTTCTAA
GTTGGATCTTTTTTGTTTTCTCCTTGCCACCCTAATTTGACATCAAAATTCTCTCTTGTGCATTGGGCCCTGGGTCATTCAAACCCAGGTCACC
TCATTCCCCTTCTCTGTTCACACCTAATGTCTTGAAGAGTAGGTAGCAGCAGTGTGGGCTGAACCTAGGCCAGCTTGCTTAGCGGGTCACCCTG
CTGTGAAGTCCTGGCAGGTGTTGGTAATGTGTGGAAATGCAGTCAGCAAGTTTGCTGGGGAGTTTGATAAAAGTATAAAACAAAACAAAAAAAG
CCTCGGTATAATTTTGTTCCACGACTTCTTCTGTAGCTTTACACCAGAAGGAAGGAATGGGCTACAGCAGGTAGTGGAGGAAGAGGGGGGTGAG

CAGGTGTATTAAAATAGCTTACGGGTAAGGCCTAAAAGGTCACCCCTCGGCCCCCTCTCCAAAAGAAGGGCATGGGCACCCCCAGGAGAGGATG
GCCCCAAAAACCTTATTTTTATACATGAGAGTAAATAAACATATTTTTTTTACAAAAATAACTTCTGAATTTATCAGTGTTTTGCCGTTAAAAA
TATTCCTCTATAGTAAATTATTTATTGGAAGATGACTTTTTTAAAGCTGCCGTTTGCCTTGGCTTGGTTTCATACACTGATTTATTTTTCTATG
CCAGGCAGTAGAGTCTCTCTGCCTCTGAGGAGCAGGCTACCCGCATCCCACTCAGCCCCTCCCTACCCCTCAAGATTTGATGAAAATTCCAACC
ATGAGGATGGGTGCATCGGGGAAGGGTGAGAAGGAGAGCCTGCCTGCTCAGGGATCCAGGCTCGTAGAGTCACTCCCTGCCCGTCTCCCAGAGA
TGCTTCACCAGCACCTGCCTCTGAGACCTCGCTCTCTGTTCCAGCAACCCTGGTTGGGGGGTCAGACTTGATACACTTTCAGGTTGGGAGTGGA
CCCACCCCAGGGCCTGCTGAGGACAGAGCAGCCAGGCCGTCCTGGCTCACTTTGCAGTTGGCACTGGGTTGGGGAGGAAGAGAGCTGATGAGTG
TGGCTTCCCTGAGCTGGGGTTTCCCTGCTTGTCCAGTTGTGAGCTGTCCTCGGTGTTACCGAGGCTGTGCCTAGAGAGTGGAGATTTTTGATGA
AAGGTGTGCTCGCTCTCTGCGTTCTATCTTCTCTCTCCTCCTTGTTCCTGCAAACCACAAGATAAAGGTAGTGGTGTGTCTCGACCCCATCAGC
CTCTCACCCACTCCCAGACACACACAAGTCCTCAAAAGTTTCAGCTCCGTGTGTGAGATGTGCAGGTTTTTTCTAGGGGGTAGGGGGAGACTAA
AATCGAATATAACTTAAAATGAAAGTATACTTTTTATAATTTTTCTTTTTAAAACTTGGTGAAATTATTTCAGATACATATTTTAGTGTCAAGG
CAGATTAGTTATTTAGCCACCAAAAAAAAAGTATTGTGTACAATTTGGGGCCTCAAATTTGACTCTGCCTCAAAAAAAAGAAATATATCCTATGC
AGAGTTACAGTCACAAAGTTGTGTATTTTATGTTACAATAAAGCCTTCCTCTGAAGGGATGGTATTGAGTCCTGTTTTTACTTTTTTCTGTCAC
ATGCCAAGGGAGGGCAGCTTGAACACGGAAAAGTTTCAAGTCATCAGCGTGACCCTGAAAAAGGGAACTGGTTGGGTGGTTGGGAGTTGGCTGC
CTCAGAGGGCACGTCATTAGCTCTGATGGCAGATGGGGCCTTTCATACCTTCCTGCTCATATGATGTTTTGAAAATAAGAATGATGGTCTCCTA
GCCTCCTGACTCCAGAAAGCTTGTTAGCCAGGATGGTCTCGATCTCCTGACCTCATGATCTGCCCACCTCAGCCTCCCAAAGTGCTGGGATTAC
AGGCGTGAGCCACTACGCCCGGCTGAAAGCCTGTCCTTAAGATTCAGCACATTTAGAGTACCTGACCCTGAGTTCAGCGTTGTGTGTGGGATGA
GAAATGGTGCCTTCCCTGCAGAGGCTCACAGTTGGAGAAAGGCAGCTACCACAACTGATTATGCTAGGATATCGCTTCCTGCTGCAATCAAGGC
ATCCCAAAGTCATTATGCAAAAGAACATGCAGGAAGGCCACTGAGCAACTCAAGCTTTTTTTTTATTTTATTTTTTTATTTTAATTGAGTAGCT
GGGATTACAGGCGCCACCACTCCCGGCTAATTTTTGCATTTTTAGTAGGGACGGGGTTTCACCATGTTGGCCAGGCTGGTCTGGACCTCCTGAC
CTCAGGTGATCCACCTGCCTTGGCCTCCCAAAATGCTGGGATTACAGGCGTGAACCACCATGCCCAGCCTGGAGCTGGCTCTTAAGGAACAAAT
CAGGGCCGGGCACGNNNNNNNNNNNNNNNNNNNNNNATAGGGCCGGGCACGGTGGCTCATGCCTGTAATCCCAGCATTTTGGGACGCCAAGGCAGG
TGGATCACCTGAGGTCGGGAGTTCGAGACCAGTCTGGCCAACATGATGAAACCCCGTCTCTACTAAAAATACACAAAAATTAGCTGGGCGTGGT
GGCACGCGCCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGCAGGCAGAGATTGCAGTGAGCCGAGATCATGCC
ATTGCATTCCAGCCTGGACAACAGAGCAAGACTCTGTCTCAAATTAAAAAAAAACAAAAAACCCAGCCATTCCACTTGTAGGTATCTACATAAG
AACCATGAGAACATATATGTACAGAAACACTTGTGACAAATGTTCATAACAGCATTATGCATAATAGCCAAAGGGCAGAAACAACCCAAATGTC
CATCAACTGATGAATAAACAAAATGTATTATGGTATATCTGTACAATGGAATATACGGCAATAAAAAGGAATGAAGTGCTGACACACAGGACAT
GATGTTGTCACGGATGAACCTTGACAATATCATGCTAGATGAAAGAAGCCAGGCCGGGCACGGTGGCTCATGACTGGGACTCCAGCACTTTGGG
AGGCTGAGGCGAGGGATCACTTGAGTCGAGCAGTTCAAGACCAGCTTGGACAACACGGTGAAACCCCATCTCTACAAAAAAATACAAAAATTAG
CTGGATGTGGTGGTGCACCCCTGTAGTCCCACCTACTCAGGGAGGCTGAGGTGGGAGGATCACTTGAGCTGTGATCATGCTACTGCACTCCAGC
CTGGGTGACAGAGCGAGGAAAAAGAAAAGAAGCCAAGTACAAAAGACCGCATATTATATGATGCCATTTATAGGAAATGTCTAGGATAGGCAAA
TCTATGGAGACAGAAAGTAAATTTGAGGTTGCCTAGAGGCTGGGAAGGAGTTTGGAGGTAATAGTGAAAGGATACAGGGTTTGGGGGTTTTTTT
GTTTTGTTTTTTTTTTTTGTTTGTTTTTCTTGAGACAGAGTCTCGCTCTGTCACCCAGACTGGAGTGCAGTGGCGCCATCTCGGCTCACTACAAC
CACTGCCTCCCAGTTTCAAGCGATTCTCCCACCTCAGCCTCCCAAGTAGCTGGGATTATAGGCGCCGGCCACCAGACCCTGCTAATTTTTGTAT
TTTTAGTAGAGACAGTGTTTTGCCATGTTGGCCAGGCTGGTCTTGAACTCCTGACTTCAGGTGATCCACCTGCCTTGGCCTCCCAAAGTGCTGG
GATTATAGGTGTGAGCCACCACGCCCAGCCTGAGTTTGGGGTTTTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTAT
TTTATTTAACGAATTGGGCAGTCTCCTGAGGCACAGTAGGCTCAGAGAGACTCTGCAGGGTTTGTTTTTGAGGTAAGGAAAATGTTATTATCTG
TGGTGTTGGTTGCACATATCTCTGGATATACTAGATCTTGAATTGTACACTAAATGGGTGATTTGTATGGTGTGTGAATTATATCTAATAAAGC
TGTTACTGGGCCAGGTCTAGTGGCTTACACCTGTAATTCCAGCACTTTGGAAGGCCAAGGTAGGAGGATCGCTGAGACCGGGAGTTCCAGACCA
GTCTGGGCAACATAGTAAGACCCCCTGTCTCTACAAAAAAAAAAAAAAAAATGTTTTTAATTAGCTGGGTGTGGTGGCACATGCCTGTAGTCCTA
GCCACTCAGAGGCTGGGGTAGGAGGATTGCTTGATCCCCGGAGTTCAAGGTTGCAATGAGCTGTGACCAGGCCACTGAACTCCAGCCTGGACAA
CAGAGCAAGACCCTGTCTTTAAATAAATAATAAAAGCAAATGCAAGATCTCAGCGAGAAAAAACGTGAAAGTGAGGTGAGTTAGCCAGAGTGAG
AACAGACCTGTTGAAAGAAGCTCAGCTGTGAAGGGAAGAGAGGTGCTCAGCAAGTAGTAGCTCTCTTCTCAAAGGTATCCAGAGGCAAGTAAGG
GGAGAAAGGGAGTGGTTTTAGTGTTTTGAGAGCCTAGGTCAAGAACACACCAGCCTGGGCAACATAGGGAGCTCTCTCGTCTCTACAAAAAATA
AAATTAGTTGAGCGTAGTGGTGCGTACCTGTAGTTCCAGTCCCTTGGGAGGCTGAGACAGGAGGATCTCTTGAGCCCAGGAGGTTGAGGTTGCA
GTGAGCTATGATCGCACCACTGCACTCCAGCCTGGGCAATAGATCAAGACCCTGTCTCAAAAACAAAAAACAAAAAAAGAGAAGTTTGTAATTT
TCCTTGGGATAAAGGCAACAGGCTAACACAGATGGTCACCCAGTAACCAGGTAAAGTTAAGATAAACTATATGTGACTGGCTGGGTGCAGTGGC
TCAGGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCACTTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGACATGG
TGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCTGGGTGTGGTGATGCGTGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAA
TTGCTTGAATCTGGGAGGCGGAGGTTGCAGTGAGCTAAGATCGTGCCATTGCACTCCAGCCTGGGCAACAAGAATAGAACTCTGCCAAAAAAAC
AAAAAAAAAGAAGTTTGTAATTTTCCTTGGGATAAAGCCAGCAAGCTAACACAGATGTTCACCTAATAACCATGTAAAGTTAAGATAAACTATG
TGACTGGCTGGGTGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAAGGAGGGTAGATCACTTGAGGTCAAGAGTTTGAGACCAGC
CTGGCCAACATGGTGAAACCCCATCTCTACTGAAAATACAAAAATTAGCTGGGCGTGGTGGCACACACCTGTAATCCCAGCTGCTTGGGAGGCT
GGGGCAGCAGAATCGCTTGAACCTGGGAAGTGGAGGTTGCAGTGAGCTGAGATTGTGCCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTGT
GTCTCAAAAAAAAAAAAAAAAAAAAAAAGATAAACTATATGTGACAAGTCCTCTTACTTGAGGACTCGTTATTGTTTATCTTGAAAACGTGTATG
TAATGGGTTGTATGCGCTTGGCTATACAAAAAAGTAAGATTTCCTCCCTTCTTTGCAAGCTCTTAGCAGATCACCTGTCATGTACATCACATTG
TGGTTGAATGCTTATTCAATAATAAAATTGTTTTCTTTCTCAACTACCTTGAGGGAGAGGATGGGGTTTTTTTTGTTGTTGTTTTTGTTTTGTT
TGTTTTTGAGACGGAGTTTCGCTCATTGCCCAGGCTGGAGTACAATGGCGCAATCTCAGCTCACTGCAACCTCCGCCTCCCAAGTTCAAGTGAT
TCTTCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCATGTGCCACCACATCTGGCTAATTTTGTATTTTTAGTAGAGATGGGGTTTCACCA
TGTTGGTCAGGCTGGTGTCAAACTCCTGACCTCAGATGATCCACCCGCCTCAGCCTCCCAAAGTGTTGGGAATACAGGCGTGAGCCACCGCGCC
CAGCTGAGTTGGGGTTTTAAGAGTTCTTAAGCTTGCCCCTCTCCCAGCTCAAGTGGCTTAATGGCGTTCTTTCCCACACACACCTTTCTGTTCC
TTCACCTGCGCAAGTTTGAGGACCATGCTAGTCTGGTCCTAACTGCCCCAACTGCCAGCCTGGGCTAGCACCCGACATGAAGTCCTGTAGGCGA
CCTGCCCCCTTTAAGAGCACCCCCCTCCTTCAGCTCCTCCCTCAGGCCTGGTGGCCGGATTTCCCAGTTGGGGCCCAGCCTTTTAAAGCCATCGC
TCCTTCTTTCTGGCCGGATGTGTGCTGAGACCCAGAGTCACCCAGGGGTCTCCGTCACGTGCCAGGAGTAGGCAGAAGTGGGCTGTGACAGGTG
CATGTGGGCATGGACCCCACAGCCTGGGGCTCAGGAGGGACAAGGAGCTGGGACAGGGTGGATCCCGAGAGAAAGCAAAGCCACTCGGGAGTGG
GCAAGAGATATCGTTACGCAGCTGCTGTGTGCCCGACCGACCCTGTCCGAAACCCTTCCTGTACCTTCCCTTCCTCTTCCTTCTTTTCTCCCTT
TTTTTTCTTTTCTTTTTTTTTTTTTGACAGGGTCTCACTCTGTTGCCCAAGCTGGGGTGCAGTGGCACGATCTTGGCTCACTGTAGCCTTGACATC
CTGGGCTCAAGGGATCCTCCCATCTCAGCCTCCCAAGTAGCTGCGACTATGGGTGTGACACCACGCTGGGCTAGTTTTTCAATTTTTTGTAGAG
ATGGAGTCTCCCTATGTTGCTCAGGCCGGTTGCAAACTCCTGGGCTCAAGTGATTCTCCTGCCTCAGCCTCCCAAAGTGCTGGGATTACAGATG
ATAGCCACCTCACCCGGCCCACCCCTACCTTCTGAAAGAGGCATTCTTATTCTTATTCCCATTTTGCAGATCAGGAAACAGAGCTCAGTGCAGC
CCACTAAATTGCTCAGGGCCCTACAGCTAACAAGCGGCAGAGGCAGGATCTGCACTCAGGTCAGTGGGACTCCAAAGCTTTGATAGTCTCTCCT
TTGCATCACCTGCCCCACAGGGTCCTGCCTTCTTCCCAATTTCATTTTTCCTCGGTTTTCCTGTATGCAGTAGAGCGTGGGAGGAGAAATGGAT
AATTGCTGCATGCCCCCATATCTCGGTTCCTTCCTCTTCCCAGGAGCTGCTTGGAGATGCTGCTGTGGCCACTGCTGCTGCTGCTGCTGCTGCT

GCCAACATTGGCCCTGCTCAGGCAGCAGCGGTCCCAGGATGCCAGGCTGTCCTGGCTTGCTGGCCTCCAGCACCGAGTGGCATGGGGGGCCCTG
GTCTGGGCAGCCACCTGGCAGCGGCGGAGGCTGGAGCAGAGCACGCTCCATGTGCACCAGAGCCAGCAGCAGGCCCTGAGGTGGTGTCTACAGG
GAGCCCAGCGCCCCCACTGTTCCCTCAGAAGGAGCACAGGTGTGTTTCCCAGGGTCTGGGGAGGTGACCCAAAGAGAAAGAAACCCCACAGGAC
CGTCAGATTCCAGAGCCTGATGGCCCCCTTACCTCCTCCACTGCCAACGGAGTGGCCTGACCCAGAGACCCAGGACTGGCTTTCTTGTCCAAGA
TGAATTTCCCATGCTGGGTCCTTACATCCTCTCTACCCCAGGCCTATTCTCGGTTCCTCCCTCAAGGGTCTCACCAGTCTTGCCTGAAACTCTT
GGGAAACTGGCTTCCTGAGGCGTTTCTGTTGTCATTGGGGCTATAGACATAAGCACCTTCCGGAATCATCTCCCTCTGACCAAGGCCAGCCAGA
CCCAGCAGGAAGACAGTGGAGAGCAGCCACTGCCCCCGACCTCAAACCAGGACCTTGGGGAGGCCTCTCTGCAGGTAATCTAGGATGGCCAGAG
CCCAGTCCTGGCCACAGCCCAGTCCCACCAGAGACCTCTGACTTGCAGCCAAACCCTCCAGTCATGGTGGGCAAAGAACCCCCAAATGGGGGCT
CTGGGTCTGGCTCTGACACCAGACCAACATTCTCTCTTTCCTCCTCCAGGCCACCTTGCTGGGTCTGGCAGCCCTAAACAAGGCCTACCCAGAA
GTGCTGGCTCAGGGACGCACTGCCCGTGTGACGCTTACATCCCCTTGGCCCCGACCCCTGCCTTGGCCTGGGAATACCCTGGGCCAGGTGGGCA
CCCCTGGAACCAAGGACCCTAGGGCCCTGCTGCTGGACGCACTGAGGTCCCCAGGGCTGAGGGCACTGGAGGCTGGGACGGCTGTCGAACTTCT
GGATGTTTTCTTGGGCCTGGAGACTGATGGTGAAGAGCTAGCTGGGGCGATAGCTGCCGGGAACCCTGGAGCGCCTCTCCGTGAACGGGCAGCT
GAGCTCCGGGAGGCCCTAGAGCAGGGGCCACGGGGACTGGCCCTTCGGCTCTGGCCAAAGCTGCAGGTGGTGGTGACTCTGGATGCAGGAGGCC
AGGCCGAGGCTGTGGCTGCCCTCGGGGCCTTGTGGTGCCAAGGACTAGCCTTCTTCTCTCCTGCTTATGCTGCCTCGGGAGGTCAGTGGGACTC
AAGGGCAGTGAGGTGGGGGCAACGGTCAGTGGTCACATGACAAGCAGCCATGCATTGGGCCCTACATAATCATCTCATTTAATCCTCCCCAACA
AGCTGCATGCTAGGGCCAGCAGCCTCCTTTTACAAGTGAAGAAATTCAGGCTCTCTAGGTTAAGAGTCTTGTAGCTGGGTGCAGTGGCTCACGC
CTGTAATCCCAGCACTTTGGGAGGCCAAGGTGGATGGATCGTTGAGGTCAGGAGTTCCAGACCAGCCTGGCCAACATGGCGAAACCCCATCTCT
ACTAAAAATACAAAAACTAGCGGAGTATGGTGGTGCACGCCTATAATCCCAGCTACCTGGGAGGCTGAGGCGGGAGGATTGCTTAAACCTTGGA
GGCAGAAATTATAGTGAGCTGAGATCGCGCCATTGCACTCCAGCCTGGGTGACAGAGCAAGACCCTGTCTCAAAAAAAAAAAAAAAAAAAAAAG
GCCGGGGCAGTGGCTCACGGGTGTAATCCCAGCACTTTGGGAGAGGCTGAGGTGGGTGGATCACCTGAAGTTAGGAGTTTAAGACCAGCCTGGC
CAATGTGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAGCCAGGTGTGGTGGCAGGCGCCTGTAATCTCAGCTACTCAGGAGGCTCAGGC
AGGAGAATCACTTGAACCCAGGAATCACTGAATCACTGAGCCGAGATCGCACCACTGCACTC

HUMAN SEQUENCE - mRNA

GGAGCCGTCACCCCGGGCGGGGACCCAGCGCAGGCAACTCCGCGCGGCGCCCGGCCGAGGGAGGGAGCGAGCGGGCGGGCGGGCAAGCCAGACA
GCTGGGCCGGAGCAGCCGCCGGCGCCCGAGGGGCCGAGCGAGATTGTAAACCATGGCTGTGTGGATACAAGCTCAGCAGCTCCAAGGAGAAGCC
CTTCATCAGATGCAAGCGTTATATGGCCAGCATTTTCCCATTGAGGTGCGGCATTATTTATCCCAGTGGATTGAAAGCCAAGCATGGGACTCAG
TAGATCTTGATAATCCACAGGAGAACATTAAGGCCACCCAGCTCCTGGAGGGCCTGGTGCAGGAGCTGCAGAAGAAGGCAGAGCACCAGGTGGG
GGAAGATGGGTTTTTACTGAAGATCAAGCTGGGGCACTATGCCACACAGCTCCAGAACACGTATGACCGCTGCCCCATGGAGCTGGTCCGCTGC
ATCCGCCATATATTGTACAATGAACAGAGGTTGGTCCGAGAAGCCAACAATGGTAGCTCTCCAGCTGGAAGCCTTGCTGATGCCATGTCCCAGA
AACACCTCCAGATCAACCAGACGTTTGAGGAGCTGCGACTGGTCACGCAGGACACAGAGAATGAGTTAAAAAAGCTGCAGCAGACTCAGGAGTA
CTTCATCATCCAGTACCAGGAGAGCCTGAGGATCCAAGCTCAGTTTGGCCCGCTGGCCCAGCTGAGCCCCCAGGAGCGTCTGAGCCGGGAGACG
GCCCTCCAGCAGAAGCAGGTGTCTCTGGAGGCCTGGTTGCAGCGTGAGGCACAGACACTGCAGCAGTACCGCGTGGAGCTGCCCGAGAAGCACC
AGAAGACCCTGCAGCTGCTGCGGAAGCAGCAGACCATCATCCTGGATGACGAGCTGATCCAGTGGAAGCGGCGGCAGCAGCTGGCCGGGAACGG
CGGGCCCCCCGAGGGCAGCCTGGACGTGCTACAGTCCTGGTGTGAGAAGTTGGCGGAGATCATCTGGCAGAACCGGCAGCAGATCCGCAGGGCT
GAGCACCTCTGCCAGCAGCTGCCCATCCCCGGCCCAGTGGAGGAGATGCTGGCCGAGGTCAACGCCACCATCACGGACATTATCTCAGCCCTGG
TGACCAGCACGTTCATCATTGAGAAGCAGCCTCCTCAGGTCCTGAAGACCCAGACCAAGTTTGCAGCCACTGTGCGCCTGCTGGTGGGCGGGAA
GCTGAACGTGCACATGAACCCCCCCCAGGTGAAGGCCACCATCATCAGTGAGCAGCAGGCCAAGTCTCTGCTCAAGAACGAGAACACCCGCAAT
GATTACAGTGGCGAGATCTTGAACAACTGCTGCGTCATGGAGTACCACCAAGCCACAGGCACCCTTAGTGCCCACTTCAGGAATATGTCCCTGA
AACGAATTAAGAGGTCAGACCGTCGTGGGGCAGAGTCGGTGACAGAAGAAAAATTTACAATCCTGTTTGAATCCCAGTTCAGTGTTGGTGGAAA
TGAGCTGGTTTTTCAAGTCAAGACCCTGTCCCTGCCAGTGGTGGTGATCGTTCATGGCAGCCAGGACAACAATGCGACGGCCACTGTTCTCTGG
GACAATGCTTTTGCAGAGCCTGGCAGGGTGCCATTTGCCGTGCCTGACAAAGTGCTGTGGCCACAGCTGTGTGAGGCGCTCAACATGAAATTCA
AGGCCGAAGTGCAGAGCAACCGGGGCCTGACCAAGGAGAACCTCGTGTTCCTGGCGCAGAAACTGTTCAACAACAGCAGCAGCCACCTGGAGGA
CTACAGTGGCCTGTCTGTGTCCTGGTCCCAGTTCAACAGGGAGAATTTACCAGGACGGAATTACACTTTCTGGCAATGGTTTGACGGTGTGATG
GAAGTGTTAAAAAAACATCTCAAGCCTCATTGGAATGATGGGGCCATTTTGGGGTTTGTAAACAAGCAACAGGCCCATGACCTACTGATTAACA
AGCCAGATGGGACCTTCCTCCTGAGATTCAGTGACTCAGAAATTGGCGGCATCACCATTGCTTGGAAGTTTGATTCTCAGGAAAGAATGTTTTG
GAATCTGATGCCTTTTACCACCAGAGACTTCTCCATCAGGTCCCTAGCCGACCGCTTGGGAGACTTGAATTACCTTATCTACGTGTTTCCTGAT
CGGCCAAAAGATGAAGTATACTCCAAATACTACACACCAGTTCCCTGCGAGTCTGCTACTGCTAAAGCTGTTGATGGATACGTGAAGCCACAGA
TCAAGCAAGTGGTCCCTGAGTTTGTGAACGCATCTGCAGATGCCGGGGGCGGCAGCGCCACGTACATGGACCAGGCCCCCTCCCCAGCTGTGTG
TCCCCAGGCTCACTATAACATGTGACCCACAGAACCCTGACTCAGTCCTTGACACCGATGGGGACTTCGATCTGGAGGACACAATCCTGGACGTAGCG
CGGCGTGTGGAGGAGCTCCTGGGCCGGCCAATGGACAGTCAGTGGATCCCGCACGCACAATCGTGACCCCGCGACCTCTCCATCTTCAGCTTCT
TCATCTTCACCAGAGGAATCACTCTTGTGGATGTTTTAATTCCATGAATCGCTTCTCTTTTGAAACAATACTCATAATGTGAAGTGTTAATACT
AGTTGTGACCTTAGTGTTTCTGTGCATGGTGGCACCAGCGAAGGGAGTGCGAGTATGTGTTTGTGTGTGTGTGTGTGTGTGTGTGTGCGT
TGGTGCACGTTATGGTGTTTCTCCCCTCTCACTGTCTGAGAGTTTAGTTGTAGCAGA

HUMAN SEQUENCE - CODING

ATGGCTGTGTGGATACAAGCTCAGCAGCTCCAAGGAGAAGCCCTTCATCAGATGCAAGCGTTATATGGCCAGCATTTTCCCATTGAGGTGCGGC
ATTATTTATCCCAGTGGATTGAAAGCCAAGCATGGGACTCAGTAGATCTTGATAATCCACAGGAGAACATTAAGGCCACCCAGCTCCTGGAGGG
CCTGGTGCAGGAGCTGCAGAAGAAGGCAGAGCACCAGGTGGGGGAAGATGGGTTTTTACTGAAGATCAAGCTGGGGCACTATGCCACACAGCTC
CAGAACACGTATGACCGCTGCCCCATGGAGCTGGTCCGCTGCATCCGCCATATATTGTACAATGAACAGAGGTTGGTCCGAGAAGCCAACAATG
GTAGCTCTCCAGCTGGAAGCCTTGCTGATGCCATGTCCCAGAAACACCTCCAGATCAACCAGACGTTTGAGGAGCTGCGACTGGTCACGCAGGA
CACAGAGAATGAGTTAAAAAAGCTGCAGCAGACTCAGGAGTACTTCATCATCCAGTACCAGGAGAGCCTGAGGATCCAAGCTCAGTTTGGCCCG
CTGGCCCAGCTGAGCCCCCAGGAGCGTCTGAGCCGGGAGACGGCCCTCCAGCAGAAGCAGGTGTCTCTGGAGGCCTGGTTGCAGCGTGAGGCAC
AGACACTGCAGCAGTACCGCGTGGAGCTGCCCGAGAAGCACCAGAAGACCCTGCAGCTGCTGCGGAAGCAGCAGACCATCATCCTGGATGACGA
GCTGATCCAGTGGAAGCGGCGGCAGCAGCTGGCCGGGAACGGCGGGCCCCCCGAGGGCAGCCTGGACGTGCTACAGTCCTGGTGTGAGAAGTTG
GCGGAGATCATCTGGCAGAACCGGCAGCAGATCCGCAGGGCTGAGCACCTCTGCCAGCAGCTGCCCATCCCCGGCCCAGTGGAGGAGATGCTGG
CCGAGGTCAACGCCACCATCACGGACATTATCTCAGCCCTGGTGACCAGCACGTTCATCATTGAGAAGCAGCCTCCTCAGGTCCTGAAGACCCA
GACCAAGTTTGCAGCCACTGTGCGCCTGCTGGTGGGCGGGAAGCTGAACGTGCACATGAACCCCCCCCAGGTGAAGGCCACCATCATCAGTGAG
CAGCAGGCCAAGTCTCTGCTCAAGAACGAGAACACCCGCAATGATTACAGTGGCGAGATCTTGAACAACTGCTGCGTCATGGAGTACCACCAAG
CCACAGGCACCCTTAGTGCCCACTTCAGGAATATGTCCCTGAAACGAATTAAGAGGTCAGACCGTCGTGGGGCAGAGTCGGTGACAGAAGAAAA
ATTTACAATCCTGTTTGAATCCCAGTTCAGTGTTGGTGGAAATGAGCTGGTTTTTCAAGTCAAGACCCTGTCCCTGCCAGTGGTGGTGATCGTT
CATGGCAGCCAGGACAACAATGCGACGGCCACTGTTCTCTGGGACAATGCTTTTGCAGAGCCTGGCAGGGTGCCATTTGCCGTGCCTGACAAAG
TGCTGTGGCCACAGCTGTGTGAGGCGCTCAACATGAAATTCAAGGCCGAAGTGCAGAGCAACCGGGGCCTGACCAAGGAGAACCTCGTGTTCCT

SAGRES DISCOVERY 02-27

GGCGCAGAAACTGTTCAACAACAGCAGCAGCCACCTGGAGGACTACAGTGGCCTGTCTGTGTCCTGGTCCCAGTTCAACAGGGAGAATTTACCA
GGACGGAATTACACTTTCTGGCAATGGTTTGACGGTGTGATGGAAGTGTTAAAAAAACATCTCAAGCCTCATTGGAATGATGGGGCCATTTTGG
GGTTTGTAAACAAGCAACAGGCCCATGACCTACTGATTAACAAGCCAGATGGGACCTTCCTCCTGAGATTCAGTGACTCAGAAATTGGCGGCAT
CACCATTGCTTGGAAGTTTGATTCTCAGGAAAGAATGTTTTGGAATCTGATGCCTTTTACCACCAGAGACTTCTCCATCAGGTCCCTAGCCGAC
CGCTTGGGAGACTTGAATTACCTTATCTACGTGTTTCCTGATCGGCCAAAAGATGAAGTATACTCCAAATACTACACACCAGTTCCCTGCGAGT
CTGCTACTGCTAAAGCTGTTGATGGATACGTGAAGCCACAGATCAAGCAAGTGGTCCCTGAGTTTGTGAACGCATCTGCAGATGCCGGGGGCGG
CAGCGCCACGTACATGGACCAGGCCCCCTCCCCAGCTGTGTGTCCCCAGGCTCACTATAACATGTACCCACAGAACCCTGACTCAGTCCTTGAC
ACCGATGGGGACTTCGATCTGGAGGACACAATGGACGTAGCGCGGCGTGTGGAGGAGCTCCTGGGCCGGCCAATGGACAGTCAGTGGATCCCGC
ACGCACAATCGTGA

TABLE 28

MOUSE NOMENCLATURE
ICSGNM Sema4d
Celera mCG1273

HUMAN NOMENCLATURE
HGNC SEMA4D
Celera hCG29917

MOUSE SEQUENCE - GENOMIC

CCCACCCACCTCCTTTCACCATCATTCCGGGGCTCAGGACTCCACACAGAAATTTAGAGTGTCCTAGTAGTTCTCACGGTAGCAGCTGAAGGTT
TCTTACCCAGGGCCAGAGGGCTGCCATCTTATCCCTGGCCAGCCGCTCTCAGTACAGGTCTGCGCGGTCCGCGGGATCCAGGACTAATACCCAG
GGTCCTGGAGGAGAGTAAGAACTAGTTGGGGGCCTGTGGGGCTGGAGGAGGAGAGAATGACTCACAGGTCGCCAACCTATACAAAGAAATGGTG
TTGTCAGGATTTAAGCAGCATCATAACAATGACATGCCTTTGCCCAGGTCTCTGCAGCTGGCCGGCCACTGGTCCTCCACGGAACCCTGCTTCA
TGTCTGGCTCTCCCTGCCTCCTTAGCGCACACCCTGTTTCCGTTACTGTTCCATTGGCACCATGGCGGTCACTCTCCGTACCTGGCCACCCAGC
GTGACACCTACCCAATGCTCAGGTTTAGGGCATGAGCTGACTGAGCTAAGGCCATCTGAGGCTTGCCTGCCCCTATGAGGTAGCTTGAGATTGA
ATGCTGACCTAGATGGAGATGTCCAGCTGCTCCTGCTAGCTAGCTGGGCTTTGCCAATGTAACTACAGTAGGGCACGTCCCTGCCAACTGGAAA
TCTTGGCTCTGGGGATACTCTGAGGCCTGGGAACACCAGAGCTGGGACAACAGCTTTGTGTCAGGCAGCCACTCCGGAGCTCCTGGACCCCTCC
TGGGACTCTCCAGGGACAGGTCCTCTGGAATTCAGCAGTCAGGCTGGTGACAGTATTACCTGGGCCAGCATCGTAGAGGTGGGATACCTGGCTA
GTGGCTGGCAGGGTGAGGTTGGAAGGCCACACCCGGCTGGGAGGGAAGGTGTGGCTGCACTGTTTTCTGGAACCATAGCCACCAGAGTTTCACC
TCCTGTCTGAGCAAACGAGCAGCTAGGAATAGACAGAGCAGGCTCCTGTGGCCTGTGTCTTCAGGGGTGTGGAGTCCAGGGAACAATCTGCCGT
ACCACAACCACTCAAGATCCCCAGGTTGTGTTTGCTGTGGTGCTCAGGAGGGTGCCTGAAAGTCTATCTTGTCCCCACAGGAGCACCTAATGGT
ACCCTCTTTGTGATCTATTCCCGTTATTAGATCCCAGTGAGGAACCGTAAGTCTAAGACACAGTACGTGTATACACACACACACAGAGAGAGAG
AGAGAGAGAGAGAGAGAGAGAGAGAGAGGTGCATACCTAAGTGCATATCTGCAGATGTACTCACAAACATGTAGTCATGCATGTTTACACACATCT
GCAGATACATAGGTATGTGTGCACATGTGTATGCATGCACTTACATTGTTAGATGTCATGTTACATGTCATATGCATGTTATACACAGAGATAA
CATTTAACTTGGCACTTGCATGTGTGCCCATGTACATATACATAACAGACATGGCATCTGTGCACACACATGGGCATGGGTATGAGCACAGGTA
AACACATGTCAACCAGCAACACATGTCGCTGGTTGACATGCTGACACAGATGTACACAAGTTCATGTGCACAATGTGTGTGTGTCCACTCATAC
ACACACACAGTACCCTCAAGGCCATTAGCATTCTCAGGCCAGAGCAAGGTGACCATGCCCTGGCTGGGGTCGGTCCTGTCTCCAGTTGCAGCCC
CTGCTGAGATTTCCAGGGTTTGCTGGAGGCAGAGAGTTGCCCTCTGACAGCCCAGGCAGACTGCAGAGGGGGCTGCAGTTCTTTCTCCTGGGTT
TAGAGTAGGTGATCAGCCCTCTTAGTGTAGTAATGGGGCCTTCATGACCCTGTCTGTAATGGGATGTCAGGCCTTCTTCTGGAGGGCCTCAGTT
GTCGCAGGGGAGATCTCAGCTTTCCCTGGGGGAAGGGCGATGTATCTCTTTGTTTAAATTTAAACACCGAGAGCAAGGTCCTGAACTTGGCATT
GGATGGAGCCGTTCCTGGAAGGCACTGTGGCAGCCTGTCTGTGTGGGTGTGGCAGGCACATTGTTTCAAGTGAGTTTTAAATTACACCAAACAG
TGAGTAGTGTAGAGAAAAGAAGAAAAGTCAAGCCCAACGCCTTCCTCCCCTTCCTCTACTTCTCTGCTCCCCCCCTCCCCTCCTCCCCCTCCTC
TACTTCTCTGCTCCCTCCCCTCCCCTCCTGTTCCCAGGGGCTTCTTTTAAAGAGCACCAGGGTGTTGGCAAGGCTTTTGCCCTCTAGTGTC
TGCCCATGGAATAACTGTGCTCTGCATTGTGGGGTTGGGTCTGCAGGGCAGGAGCCTGCAGCTGTAGTGAGCACAGCCTGGCTGAACTTGCTCT
GTGCTTCTGTTAAGGCAGCCCAGGGCCCCAGTAAACCCCACAGTTCCTACTTTTGGTCAAGACTGGCAGAGGAGTTTGCTGGCTGCCACTGAAG
GCCAGAAGGTGGCATTGGATTCCCCTGGAACTGAAGTCCCAGATGGTTGTGAGCTGCCGTGTGGGTGCTGTGAGTGGAAGCCAGGTTTTCTCAA
TCTACAAGAGCAACAACTGCTCTTAACCTCTGAGCCATCTCCCCAGCCCCTACCAATGCGTTTTATACAGCTGACATCCAAGGGCAGCCCCAGC
CAGACCACCCTGGGCTGGTGAAGAGTTTTGGTTATTTCAGCCACTTAAAAAAAAATGTTTCTCTTAAAATTTGTTTTAGTCTTGTGTCCTGACT
TTTTCACTCCAGGCACAAGCTGAGGCTCTTGCTCTCTGCCCCTTGTCATGCACCTCCACCCCTCCCCCACCCTCCTAATAAATGTATTCCCCAC
CCCCCACCCCCTTTGGTGACTGAGGCTGCACTGTGGGCCCTGGTAGCACATTCTGATTATATTTCCACTAAGGACCATTCTCTCTTCCCCTGGG
GTTCTAATTGCTCCATTTTGAGTGTTTGGTAATTCATTCTTAGCTGTTGGTGCAGCATCTTAGCCATGTTATCAGGCCCCAGCCTCTGAGACTT
TCCTTTTTGCAGCTGATAGAATGAGAAAAAAAAAAAAAACCCTTATTATTCTATGTTCACAGAATGGCTGTTAGACCTCCAGACATCTAGTCTT
GAGTTTCAGATAGCAGCATCAAGAGCGAGCTTAGGGGTCCAAATGCTGGTGGTTTTTTTTTTTTTTTTTTTTATTATTGTTGTTAGCCTATTTC
ATGGAATTGTTTCTAGTGCTTTCCACTTAGATTTCTTTAACTAGAAGCAGGGTAAGTTACAAAGGTGTTGAACTGGGCGTTCTGCCCACCAGTG
AGAGCTCAGGATCTGTTACCTAGAAGGAGGCAGGAAGTCACAGAAGCAGGAGGAGGCCAGGCTGGGTGGCAGGAGATTTGAGGGGAGGGGAGAG
CTACTGAGCGTGGGGAGGGGCAGTTGGATGAGGAAGGAGGTGCATCCAAGACAAGTTTGCAGATTGGGTGTCCTTACTAGCCATGGACCCAGCC
AGAGAGTGGGGCTGCAGGTAGGTGAGTGTGCTTTAGTGGCCAGTGCCTTCCTTGTCCTCCCGTCCACGTGGTTGACTAAGGAGCTGAGGGAGTA
GTAGGGTTTCATCCTGGGTCTCGGGGATACATGTGTCTTGTGACACTCTCACAGCTCTGAGAAGGAAGACGTTAGGTTTCTAAAATCCTGTCCT
GATGCTCGTGAACTTTAGGGGCAGCCCTTCTGCACCCTGCCCGGCATGTCCTTTCATGTTTCTCAGCCAGATGGGTCTCACTCCTTGTGGTGTC
TATGAACCACCTCCTGTCCTTCCGTGCTGTGGTGGGGCATCCTAATTAGCGGCTTGCGTGTCCATCAGCTCACAGGTTCAGGGCACCATGTTGG
GTCTGGTGTTGGGCAAAGCCCTTCTGGTCTGTTAGCCCCTGGTTCTGGACTCTCTTTCTTGGTATCTTGCTCGGCCCCACCCCACTTCTTTTCC
AGGGCTTAATTAATTAGCTTGTTGTTAATCAATTTTTGTTAATTAACAAAATAATTAATTAAATCCTGAGCCAGGACCTCACTGTGGAACCACG
GTAGGACTGGGACTCACTGTGTAGACTGGAGCTTGCCTCCCCCACCCCACCCCACCCCCCCCAGTGTTGCGATTATGGCCTGGGACTACATATA
GACTAAACTAGCAATGAACTCACAGAGCTCCCTCTGACCTATGGTTAAAGGCCTGTGCTACCACCTATTAAATTTGGAATCTGTTTTGTATCTT
TAAATTTTATTTCAGTCAGGGTCTTCTGTAGCCCAGACTGACCTCAGACTACATAGCTAAGGCTAGCCCCGAACTCCTCTTTCTTCTGCCTTCA
CCTGGTGGTGCATTGACATTCTAGGTTTATGAAGGGCTGGGGATAGAACTTTGGGGCTTTGCGCATGTGAAGCAAACATTCTACCAATAGAGAT
AAGGAATGTTTTCTTTTCTTTTTTTTTTTTTTAAATAATCTATTTATTTATTACATGTAAGTACTGTCTTCAGACACACCAGAGGAGGGCGCC
AGATCTCATTAGGGATGGTTGTGAGCCACCATGTGGTTGCTGGGATTTGAACTCAGGACCTTCGGAAGAGCAGTCAGTGCTCTTAACCGCTGAG
CCATCTCTCCAGCCCAGGAATGTTTTCTTATAAAAAATGTTCAAGCAGGAATGTGACCTGCATGACCTTGGCTGGCGACCCTGGCAGGCGTTCA
GCCTTCTCTGTTCACACCAACATCTACTTCCATCAGGGGGATGTGAAGAGGAAAGAAATATCCATGTCCCATGCTACCTGACCCTCGCAGCTGG
AACAAATCAGAGGGCCTCCTGCGTGTCACAGCTCCCTTGTTCTGCTCATCTCCAGTTTCTGCAACACCCAGGATCTTCTGGGCTTAGACCAGTG
CCACCTGTGCCTCTGTACCTAGAGGGTGCTTGAGATCAGAGTGGTGTTGCTGTCCTGGCTTTCCTTAGCTGTGAATGCTCAGTGTTGGAGGGAG
TTGGTCACCATGGCTTGGACCCTAGCAACCCACAGCCCCCTTCCTCACTGTGGCAGGAGAATGGGCTCTTACGCGACAGGACGCAGCACTGTGA
ACTTGCTCAGCAAAACGCAGAGTTCATAATTGTCGGACTCACCACTGTCTGTTTCCCAGTCACTGCCTCAGTTCTTGGCTTCCTGCTTTCTGGT
TGGATCAGGGTAGGAGTCACCCCTTGTGCTTGGCTGCTGTGAATTTCTAGGGTAGGACAGGGGTCCGTCTGGCTCCTATTCTGTAGAACCGCTG
TCTATAATTGGAGTCACCTCTTTGCATGTCACCTGTATCTCCTTTTGAGCTATAGCGATAGTTAAGGAAAATGGTGAGCTGAACTGGCTTAGAA
TATCCCACTCCTTGGAGGAAGGAGGGGTTCGGGCTATCTTTAGGAAGCTTCTAAATCCATTGGGATAGAAACCAGACAGTCGGGGCTGGTGAGA
TGGCTCAGTGGGTAAGAGCACCCGACTGCTCTTCTGAAGGTCCAGAGTTCAAATCCCAGCAACCACATGGTGGCTCACAACCATCCGTAATGAG
ATCTGATGCCCTCTTCTGGTGTCTGAAGACAGCTACAGTGTACTTACATATAATCAATAAATAAATTATAAAAAAAAAAAAAGAGAGAGGAAGA
TAAAGAAGAGAGGGGGCACTTTCTATTTTAAAAAAAAAAAAAAAGAAACCAGACAGTCTGTCCTTTAGTACCGGACAGACTAAGGGACTGAAT

AGAGATGCTGGAAGAGCCTGCCCTGCCCTCTGTGGGAGGAAGGGTGGGGCAGGGGAGGCCTGGCAAGTGGGTAGATGCCATGCCAGCATTGGGC
TCACATCTGGAGACTGTTGTGCTCCCTTCAGCTTCTAGTAACCACACCCAAAGGTGAGGCGGATCTGTGTATCAGGGCAGCTGGTGAGTGACTC
AGCGCTGAGCTCTGCATCCTGGGATCCTGGTGTGTGCTGGGCCTCAGGCTTGGCTAGGGCAGGTGAGGACAGGGACAGAGGCTCAAGGGACCTG
GCCACAAGTCCATCAGACAGCAAAGCCTGGTCTTCTGTTTCTTGTTTGTGGACAAATCAGAGTTAATTGCTAGTGTTTCCATGGTAATTAACGG
CTTCCTGGTGAGGCAGGAAGAGCTCGGGTTGCCTCCTGGGCTAGCTATGACTTTTGATGTGACCCACTACTCCTGCAGAATGGGGCCCTGAGGC
TATGTCTTCATGGGTACGGAGGTTAGTGTGTGCTTACATACTGTATGTATGTATGTGAGCACATGCGTGCATTTTCGTGCACATTTGTGTATGG
CTATGTGCATTCTGTGTGTCTACCCATGCATGTGCACCCTTACATGTATTCCCAGGGGAGTGCCCTGTAACCGCAAACCTCTGATGTCTGGTAA
TATTCCTGGGTTAGCATGTCAGAAGTTGGGAAGTGAGCCCTCCAGGGAAACTGAGACCCGTACTGTTCCTTTCAGTTGTGGCATGTCACCAAGC
ACCTGGCTGTCCCTCTAGCTAGTTATTTCCACCTTGGTGGGTCCATCCATCTTGGTGTGTTTTAGCCTTGTTGTCTTCTCTCTGTGGGATCTGT
CTGTCTGGCAGCCCCACAAATCCTGGATGCCTTCCATGTCCCTCAGCAGGCAGGTTCAGACAGGATAGACAGTAGAAAGGGATGGAGGGGACTG
AGAACCATCTGGAGCCGCTGGGACCTATAGTCTCGTCCTTTCCTTCTTTTGCAGGTCAGACGGGAACACCGGCAGCCTTGGCATGACGTCGTGA
AGGTGGCCATTGCTAACCTGACATGTGGGGACTCAGGAACCCCACCCCTTATGGGCTCCAGTCTGTGCTGCTGGCCCCAGCTCTGGGGCTCTAA
GAGGTCCTTGCTGCTACCCCACAGCAGCCTGCTGCCATCCATGTGTGCCCGTTGCTGAAGGCCTCGGTGGCCCCTGCCCATGAGGATGTGTGCC
CCCGTTAGGGGGCTGTTCTTGGCCCTGGTGGTAGTGTTGAGAACCGCGGGTGGCATTTGCACCTGTGCCTCGGCTCACCTGGGAACATGGAGGT
AAGTGAGTGTGAGCCATGAGTGAGTGTGAGTGTGGGTGCAGCAGCTCTGGAGAGTGTGGGGTCCCTGCTTTGGATGCTCTGTGGGGTCTGTCAG
GGCAGGCTTAAGCCGCTGGGATGTCAAAGGATGCTGTGTGACCAGGAGACCCCACAGCAAGCGCCAAGCTTAGGTTGGACGGTGTATGTGACCT
CAGTGGCTCACGGCTTACTTAATGCTGACGACATCCCAGGTACTTATGCTGCACTGTTGAGATTAGCTCAGCCTCAGAGAGGTCTCCAGGCCCG
ATTTCCAGGATGGGGACACACTGGCTGTCCCACATTCCAGGGAGGGAACTTTGTGAAGACAGAAGCCGGGAAGCAAAGTGCACTGAGAATGTCC
AACTCTGAAGCTACCTGGACACTCCGGGTGCTGACTTGTAGGCAAGTTCAGATGAAGTTCATTGATGGGGGAGGGGGCAGAATGCTGAGCTCAG
CATCACAGCAGGAACCTCCACACTCAGGAAGTTGATGCAGGAGGATCGTGAGTTCCAGGCCAGCCTGGGCCACGGAGAGAGACCCTGTCTAAGA
AGACCAGTATTGTGTATGTCCTGCCTGTGTTAACATGTTCTTAAACTGGTGCAGGTACGAAAAAGCATCACTTGTCTCTGGAAATCATTGGTAA
TGAGTGTAAATTTGTTTTGGAGAGAGATGTGTCCCCCCCACCCCCACCCCCATCATGACTTTTCTTTTTTTAAAGGGGGCACCGGGGAAAGAAC
ATAAACCCTGCACACACTAGGCAGATGTTCTACCAATGAGCATCTCAGCCCCTCGTTCCAGAGTTTTCGGTGTTGAGGGTTTCAGAGTAAGGCA
TTTACTTCACGAGTGAGAAAGTTCTCAGTCATTACGTATTTTGAGCCTACAGTGGGTGGTTAAAGACACATTAAAGAGGTAGAGTGTAAACCAA
GTGTCTTCGTCAGGGTTTCCACTGCTGAGAACAGACACCATGGCCAAGGCAACTCTTATAAAGGACACTGTTTAATTGGGGCTGGCTTACAGGT
TTAGAGATTCAGACCATTATCATCAAGGCAGGAAGCATGGCAGCATCCAGGCAGGCATGGTGCAGGAGGAGCTGAGAGTTCTACGTCTTCATCT
GAGGGCAAACAAGAAAAGACTGATTTCCAGGGAGCTGGGAATGATTCTCAAAGCCCACCTCCACAGTGACATACTTCCTCCAACAAGGACACAT
CTCCTAATAGTGCCACTCCCTGGGCCATGCATATTCAAACCACCACACCAAGTGTCTGTGATGTGCTAGAAGCCCCAGCATGAGAGGTTTGGAT
CTGGGAGACAGAAAAGGAGATCAGGAGTATAGCCTGGGGATGCATGCCATCCTCAGGGATCCAGCCGTGGGCTAGCTCCTCTCTTGTACTTGGT
GGCTGCATTGAGGTTACCTGGGGTGGGGGGGGGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

AAGCTGGCTGGGGTTCCCAGCAGAGTTCTAGTCAGAGCAAGAATGTCCATTTGGGTGGGACTTTTAAATAAAAGAACAAACGGCAGCAGAGAGA
TGCCGTTGCCTTGGGAGCATCAGGCATCCATCAAGAACTGACTGGGGAAGTTGAGGCAGTCAGCTGGAGCCATCTCTCTGTAGCTGAGATCCCA
TGGGTGACCTCCCCCGCCATCCCCACCCTCACTCCCCAACCCCCCCACCCCGCCACTGTATTGTGAGATAAATAACAGTAAGCTCTTCTGCAGA
TGGTTCACCCCCTAGATGCTCTCAAGGGCACAGTGTTTCTCAAGGGCACAGTGTTTCTCAAGGGCACAGTGTTTTTACTCTGGGGTTGCTTGCT
CTTCTCTCTGTCACAGAGTCAGGGACCTTGGAAGACACTGGGAAAACATGCTTGGGTCTGAAATGGAGGAGGGGAAACCCTGCTGCCAGAACCA
TTTTCCCCCTTGAGCTCACACAGCACAAGAAAGCTTACCAATACGATGTATATTACAGGTCACTTACTTACTTAGCCCTTGCTGTGACCAAATA
CTTGATAAAATAAGTAGCTTAAGGGGAAAAGATTATCGAAGGCACCTCAGCCAAACAGAAGGCATCTTGTGGACAAGTAATGCTGGCCTGTAAA
CACCCAGGCGCACCCCCAGAAACCCGCTTTCACGGTAGGTCTCACTTCTACATCCACCACCTGGAGAGACACCCATGAGCCCATGGGTGACATT
TTACAAATAAAACGATAACAAATATGAAAACGTAATAGATGGGTTTCCTCTCTTCTCTGCTGGGCATAGATCCAAATTTTGCACCAAATGCCAA
AACCTTGGCTCTTCCCAAGCCTTATATTGTATACCTGATGGCCACGAGGCTAGGTGTTCAAGGAAAGGTAGCTAGCCTGTTCAAGGAAAGGTTG
GTCTGCTGAGCACGGGGTGAGTGATGCCATGCAGGGCAGGGCAGGGCAGCTCAGGAGGCAGGAGAGTAGTTCATTGCTCTGCTGCAGCCGGCTG
CAGATGACTGGAATCCCGGGTGGGGGAGGCTTCTGAAATGAAGAGCCTCATTCACCTAAACTCAGCCAGCTGAAGTTTAAAGCTTGTTCCCAGT
AAGAGTTCAGTTAGAGTTGTCTTAGTTAGGGTTGTACTGCTGTGAACAGACACCATGACCAATGCAAGGCTTACAAAGGACAACATTTAATCGG
GGCTGGCTTATAGGTTCAGAGGTTCAGTCCATTATCATTAAGGTAGGAACATGGCGGCAGCCAGGCAGTGCCTGGTGCAGGCAGAGCTGAGAGT
TCTACATCTTCATCTGAAGGCTGCTAGCAGAATACTGGCTTCCAGGCAGCTAGGATGAGGGTCTTATAGCCCATACCCACAGTGACACACCTAC
TCCAACAGGGCCACACCTTCTAATAGTGCTACTCCCTGGGCTGAGCATGTACAAACCATCACAAGAGGCTTACCTAGATTGCAAGAGATGTTTG
GTTTTGATCCCCAGGACCACAATACACTCACCACATGCCTATACACCATACATACATACACACACATACATGTACCATACATACACCATACGTA
CATACACACACACAAACTCCCCTCAGTTGGGGATATAACTAGATAGAACAGACTCATTAGAAATTCTCTTAGGCAGCTAGGTATGGTGGGAAGG
CTCCTGAGTATGAGGTCAGCCTAGCTTACAAGCTCAAAAGGAAAAAAAAAAGAGAGAATTAAGAAACTAAATATTTGTATAGATGTCTGAGG
AGAGAGGCCACTGCACAGGTTTGACTGGCTAAACTAACTGTGTACTGGGATACAACCAAAATTCTAGTGTGTGTGTGTGTGTGTGTGTGTGT
GTGTGTGTGTGTGTGTACACTTGATAAGTGCGGTCCGTGGATCCCATAGGCCTTTAGAAGCATTTCTCCTAAGAATGGGGACATTTTCCTGCCA
ACTGGTTTCATCATTGCAGATAAGGAAGCACAGTGATTGCCAGTATTCCCTCCGCCCCTCCCACCTCCCCAGTATCCTCCGCCCCTCCGGCCTC
CCCAGTATCCTCCGGCCCCTCCCACCTCCCCAGTATCCTCCGCCCCTCCCACCTCCCCAGTATCCTCCGCCCCTCCGCCTCCCCAGTATCCTC
TGCCCCTCCCACCTCCCCAGTATCCTCCGCCCCTCCCTCTTCCCCATAGCTTAGAGCAGGGCACAGCCCCAGTGGCCTCCGGGCATCCCTGGGA
GGTGTGACGACAGATGGGTCTTATCAGGTGGGTCACACTGTCACCCCAGCTCACACTTCCTAACCTGACTGGTGGCCTTTATTGTTTTAACTGG
CCCGTTGGTCACTGCAGACACTGTGAGGTCCTGTGTGCTTGCTGGCCTCTGGCTTCCAGCCAGCAGTCTCTGGCACAGCTAGGAGCTCCTGACT
GTGGTGGGCAGCCTTGCTCCTGGCCTCTCCAGTAAGCAAAGTGTAAAGTGATGGCCTACTTGGATTGTCTCAGCAGTCCTGGAGTTCTGATAGG
CAGTCCTGTGGGTGGCTCCTGTCCCTTTAACGGGTTGCATCTGCTGATTTCTTCTGTGTGTGTTTAAACGCCTCTTTTAAATCCAGAAGTGAAA
ATTCTTCACCTTCGTTCTGTGGGCATTCCCCCCCCCCCCCACACACACAGTTTGTCACTTGCCATTGAACTGTGTCTCATTTTTTCCCCCAC
ATGAGAACATTCTGATTCATTATGTGGTGATGTTTGGGTGGGTCTGATTCTCCTTGGATGGTGTTGGTTTCTTGTTTAGTTTTTTTTTTTTTT
TTTTTGTCAGCTTGGCAGAAGCTGGACTTCTCTGAGAAGAGGGAACCACAGTTGAGAGAATAACACCTCATAAGATAAGATAGGTCTGTAGTCA
AGTGTCTAGGGGCATTTCACATTAGTGGTTGATGTGGGAAGAGCCAGCCCACGGAGGGGTGTATAAGAAAGCAGGCTGAGCAAGCCACGATGAG
CAAACCAGTGAGCAGCATTCCTCCATGGCCTCTGCCTCAGTTCCTGACTCTAGACTGCTGCTGCTTTGAGTTCCTGGCCTGCCTTCCCTCATTG
GTGGACTGTAAACTGTGAGCTGAAGTAAAGGCGGCCATTTATCACAACAATAAGAGAGCTAAGACACGTGAAATAGGTTTCCTTGTCAGGTGGA
AAGAGGTTATCCCAAGATTGTGTTACCTGCTGACCCTCATGAGCACACTGTGCCAGAAGCATGGACAAACACATTTGTTGTGTCCTCGCACAGT
GCCAGAATTTATTCAGCAACAATAAATTCCCAACGATTAGCAGTTTAGTAACATCAGGTTATCACTTAATCCTGCTTCCCTCAGTGATCAGGCC
GAGCAAGGCAAATGCAGATTCTTTATTCCCGTCTTTTTGTTTGTTTGATAACCATATTTCTCTGTGTAGCCCTGGCTGTCCTGGAACTTACTTT
GTAGACCAGACTGGCCTCAGACTCAGAGATCTGCCTCCCAAGTGCTGAGATTTAAAGCGTTCGACACCATGCCCTGCTCTTACCTGAATCTTAA
TTAGTAACGTTAACTGTCCAACCACACAGCACAGAGAAAATATGTGTATATGGCATGTATATGGTTATAGAGGGAATACAGGTTAAAGTCGCTT
GAGGTTTCAGACCTGGGCTCAGAGAATCTGCACTGATTTCAAACCAGACCAGTGCTGCGAGGGAGCCGCTGCAGTCAGGTGTTAGAGAGCTAGA
CACCTCCGAGAAGCTGGAAGCTAGAGTCTCCCAAGGCAGAAGCATGTCTCTGCTGAACAAACCAGGTAGCAACTGATAGTTTCGTGTGGGGCTG
TCCATCATAGTGTTGGGTGTCTATCACTTTAAGGAGACAAGGTGAGGATGTTACACCTAGGTCTATTAATTCGTAGGCCTGGCTTCCTAGGCCT
TTTTCGTACAACTGTGTGCCCTGACACACTCAGCTTGTATGAATTCATCCAATGGTGGCTCCCCTTTCTGTTCCCAGGAGTAAACCGTTTATCC
ATCTGTTTGGAGTGGATGGTGCATGGCAGACAGTGTAGCTTGCAGGTCCACCCAGGGCCTACTCATCCTTTTCCCCAAAGTGGAATCAAAAGCT
GCTTGTAAAACAGACTCTCCTAAGGCAAGGCACAGCCTGGAGACCGTTTTATACAATATGGGGCAGCTTAGAGCCAGGCACAGCCTGATCCCGG
CATGACCTGTGTTGTGGTGAGCTTGCTTTAGTAGAATGGCTTCTTCAGGAGCTGCTGGTGGTGGATGAGCGGGGGTGAGGGTTCTGTGGGTTGT
TTTCATTGGGTTTGTGTCGCCTGTTTTTGTGAGGACTGTAGTTGAGCAAGCAACAACTGACCCTGCATATCTCAGGCTGTCACACACATGAGATG
TCCTTCAGCTGTCAACGGTCCCAGGGTGGGACCCACATGGATCAGGGCCCACTTACCCCACACTCTGGTCTTCTGAAGTGAAAGAATCTGTACC
TTTAAGTGATACAGGGACAGGTCCTCAGCACCGAGAGGTCAGATGTTTTCTTTTTATTCCATTGTAGAACTTGACATCCTTCAAGTTTCTGGGG
AAAAGTGAAGATGGCAAAGGAAGATGCCCCTTCGACCCCGCCCACAGCTACACATCAGTCATGGTTGGTGAGTCCTGCGTCTGAGGCTCTTTCA
CTCTCTGAGTTTATGGTGGCATGTGATGTTGCCACCTGGGACACTCAGGTCTTCCCTCTTCAGCCCTGCCTTCCTTGGCATCATCTTGGCACGA
GCTCCCTTCAGAGAAGGTGAGCGACTTGTGGCACAGACTCCTCAGTGAGAGCTTTCGCGTTTCCCATTCAGAGGGAGACTCAGGCCCCACCCTC
TGCAGCAGCATATGGCTTCTGGCTGTCGGTTTTTGTGCAGCACACAACCTGGATACTTGTGTGGCTCTGTGCCTCCCGCTGCGGTCCTGCATAT
CTGAGGCTAGGGGTCACACGCTGTCTTACAGATAGTTCATGTTGGAATCTCTCAGCCAGTGTGAAGGTTCAAGCTTCACTGTCAATGTATAACA
TTCAGTGAACTGTGAGATAGTTAATACTATATTACAAAACAGGCGTCATGTGTGACACTCCTGCGCAGTCATAGGCTAAAGTATGGGTTCTGAG
TATATTAAAGTAGACGAGGCTGGACCATGCTGCCTGGCAGTGTAGGTGCCTGCACATCTTTTTTTACTTACAGTGCTTTTTACTTAGGATGGCT
TCCCTGGGTGTCAAATACTGAGGAGTGTACTTGCCATTGCTATACTGACTGTGGCAAATTCTCATTTGTGATTAGCTATTACCCTTTAACCTGG
GAAAAAACAGTTAAATTTGGTGACTGATTGTTCTGATGAAAGATGCTGATGTAGGAAGCAGGAATGCATGTCAGAGAAGACGAGGACCCCCCCC
CCCCCGCCATCCTATAAGGAATTAATGAGGGTATAAATGAATTATGGTAGCCTGGTATGGGTGTGATAGCCTAGCAGAGGTGGAACTATGAGGC
TTGCTTACAGTCCAGCCTGGGCTAATGTCAGAACTTGTGTTAAACAGTTGTCCCTAGTCTCTGACAGAGGCTGAAGCTCTGATTGGATCTTCTC
TACTCCCTCTCCTCCACCACAGGGGGCGAGCTCTACTCTGGGACGTCCTATAATTCTTGGGCAGTGAACCCATCATCTCTCGAAACTCTTCCC
ACAGTCCCTTGAGGACGGAGTATGCCATCCCGTGGCTGAACGGTAAGTGTGTGCTGCCAGCCTTGTGGGTCTACCATTTTATTCTTCCTCTAGC
TGTCCCCAGGTCACAGGAGCCGGGGGAGGCGGGGGTGGGGTGGGGGTGGGGTGGCGGGCTGCTCATGTCAGATCCTAGGCAGTGCTCTTTGGAA
CTGCTCAAGGCCCGCACCAGAGTAGCTGTCTTGCTCACTGCTAATAGCATTGTTTAAATCTGATTCTCTGACATACCCCACCCAGCCCCACTTC
CACCCCGTCCCCCAAATGCAGTTTGGGAGACTTTAATAAAATGAAGCTCTAATGGGAAGTTGAGAATGTAGACACTGAGTTTGGGTGTCATCTT
AGATGTGGAGACTCTTGGGTCTGGCCGGGTGGTGTTGAAATGTGTCTTTACTCCCAGACAAGCATATCAGGGTGTGGATGATGGGGGCCCTTTG
TGGGTGTCTTTTTTGTGGGGATGCTGACCAGTGATGCAGGGCTTTTTCGAAGCCCCTTGATCTGGAGTCAGACCCTGGAGTCTGAGATCTGAGA
CAGCCAATTTCTCCTTGGGCCTCCCCAGGAGTCTGGAAATCCTTCGGGTGGCTGATTTGGCCCTTGTTTAAATTGGCAGATACTCTAGCATGCC
AGACCAACCACCAGCAGAGAGGCCTCACCCGGCTTCCTCTGTGGCTATCTTGGTGAAGCTGAGGAGGGTGGCGGGCGTCCTCTGGGCCTGGAGT
TCACAGTGTGGCATACATACTGTAGACGTCCTAGAAGGGAAGCTTCCAGGCTCTAAGGCTGCCCTTGCCAGCCTGCAGCACCCCAGGGAGCAGG
TAGAGAGGTGGCTTGGTAGCTCCGTGTACAGAAACCATCCTGTGATGCCACCCCACAGAGCCTAGCTTCGTCTTTGCTGACGTGATCCAGAAAA
GCCCAGATGGTCCGGAGGGTGAAGATGACAAGGTCTACTTCTTTTTTACGGAGGTATCCGTGGAGTACGAATTCGTCTTCAAGTTGATGATCCC
GCGAGTTGCCAGGGTGTGCAAGGTGGGTGCTGTCTCCCTGTTCCCACCCACAGTCCTGCATGATGCCACTCCAAGATTCCTCTCTGGAAGTGTG

GCCATCTCCTATGGGTAGAGACCCCTGCGGCAAAGTTTAATGTACAGTTGAGGCACAGTAAGAGACCAGCAATAAGAGTTTTAGAGGTATGTGC
ATGGTTTCTCTTGAGACCCAAAGTAGGATTGGGAAGATGGCTTAGTGGTTAAAATGCTTACCACGGAAACAAAAGGACCAGCGTTCAGATCTCC
AGAACCTATAGATGCTGAGCGGATCCCTCTGTAGAAAAGTGGAGATAGGGCCTGCTAGTGGGGCTGTCCTCATCGGCAAGCTCTGAGTTTGATTA
TGAGACCTTGCCTCAAAGAATAAGGTGGATGGTTCCTGACATCAACTTCTGGCCTCCAGATGCACCCACACACGAACACTCATATAGAGACACA
CCGCACATACACACATACATGAAAGGAAAGAAACTCAAAGAGGAAAAAATTAGTCAGAGTGAGCACTTGTGATATTTTCAGTGTGTCACTAATC
ACAGGTAACTGAAATTGCAGAAAATGCAATCACGCACACGGGAGCCGCCTTATTTCTTTCCAGCCCAGAGTGGAGTATAGTTTGTAACTGTCTG
TGTTGTCTCAGTCGTCAGCTCCCTGAAAATGACTAGGATTGAGCAGGCAAAGAGGGCACAAAAGGAGCTCTTAGTGGATGATCATGTGTTTGCC
CTAGGATGGTCTGCGGGGCCAGGGTCTGTGGTGGGAAGGAGGCCTCCCATCACTTGTTTAACTCCTGGGTCACAGCTGGGAATGCTGCAGGAGC
CAAAGCCAGTGGCACGCTGATGTGACACAGATGGGGTGGTTTTGCTTGTCATTGAATGTGTTTGGCTCTTTTCGTATTCTGTGATCCTGTCCCA
CATGGAAGTATTGCTTTGGTTACATAACTTGTCTTCAGTATTCTTGGGCTAGGCCGTGGTTGGGGACATATGGACGCCTGCTTCTGTGGCTAGT
CATCTGTCCTGCCTCTACCATGTCGTGTCTCTGGAATTCCAGGGCGACCAGGGCGGCCTGCGGACTTTGCAAAAAAAGTGGACCTCCTTCCTAA
AGGCCAGGCTGATCTGCTCCAAGCCAGACAGTGGCCTGGTCTTCAACATACTTCAGGATGTGTTTGTGCTGAGGGCCCCGGGCCTCAAGGAGCC
TGTGTTCTATGCGGTCTTCACCCCACAGCTGTGAGTTCACTTGTGAGTCCCTTGGCAGTTGGGGCCTGGTCACCCTGACGACCTCCTGCCCTCC
TGACACTCTCACGGATTCCCCTCCACAGGAACAATGTGGGTCTGTCAGCGGTGTGCGCCTACACACTGGCCACGGTGGAGGCAGTCTTCTCCCG
TGGAAAGTACATGCAGAGTGCCACAGTGGAGCAGTCTCACACCAAGTGGGTGCGCTACAATGGCCCAGTGCCCACTCCCCGACCTGGAGCGGTA
AGCAGGGTCTCGAGCTCTGGGGAGGGCTCATCTTCTCTGGATCTCAAGGCCCCCCAAGCATGAGACCACACAGATCCTAGTGCATCCCGGCAGA
GGGTTGCATGGCAACAGGAATCTGGGTGCTGGGCTGAGTAGCTGCCGGGCCTGGGGTGAACAGTGAAGCTGTTCCTTTCTGATCTCCTCTGTGT
TGGGTAGCAGGCCTCACTGCATGCTGCCCGGACGAGAGAGTCTACCGCCGGGCTCCTTTGAGAAGTGGACATTGCACAATGGCAGGCTTGCTTC
ATTTCCCATTTCCTGCAGACAAAAAAAACCTGTTTGTCAGCCTGGGCTGTCTCCTGAGGCAGCCTGTCCACTAGATAACAGGAATCATATTCTT
TCCTCCTAGATACAGTAAATTAGTAAAGAAAATTCTAGGGTTGCCTGCATATTGTTGCCACGTGGTGGATGGGTGTGGGTATGGAGGGGCTTGG
CTCTTGAAGCTCTCCCAGGATGGACTGTTCTGTGAGTGTCTGGCCTCGACACCTGGTTATTCTCATAACTCATAATTCAGGTGTTCAGTAAAAC
ATGGCTAGGGAGCTGGGACCAAAAAAAAAAAACTCTTTACAACTTTTTTTTCTTTTGTGCTACCCAGAATCTGGCTTTCTCTCCTCTCTCCT
CTCTCTCTCTCTCTCTCTCTCTCTCTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTTTCT
CTGTGTGTGTGTCTGTATAACAATATTTAACAAGCTTCCTTTGGCATACTTTCTTCTCATAGAAAAGCTGTGAAATGAGTGCTTTTTAATCT
GGAAGTTTGCTAAGTTTTTTCATTGGCTACTAATTCCTCTACTGATCCTGAGACAATTATGTCCCGTGGCTTTAAAAGCACAGCTCTTTGTCTC
TGGGGAGGTCACCTTAGCCCCTGTTACTCTTTGGAGAAGTGTGACCATGGCCCTCCAGGGCTTCTCTTCTGTGTGCTCAGTTGAAGCTAAGTGG
GCATGTGACCGCGGTGCTTTTACCCCACAGTGTATCGACAGTGAGGCCCGGGCAGCCAACTACACCAGCTCCTTGAATCTCCCAGACAAAACAC
TGCAGTTTGTAAAAGACCACCCTTTGATGGATGACTCAGTGACCCCGATAGACAACAGACCCAAGCTGATCAAAAAAGATGTAAACTACACCCA
GATAGTGGTAGACAGGACCCAGGCCCTGGATGGGACTTTCTACGACGTCATGTTCATCAGCACAGGTGGGTTCCTTGGTAAGATTGGGAAATTC
ACTTTTAGCCATCTATAGGTAGGTTTGGTCTCTCCAGGTACCAGGAAGGTTTGTGACAGCAGAAAAGGATTTCTGAGGTATCACAGCACCTGGG
ATTATGAGTCTCTGTGGCCATCAGGCACCTGGGGCACTGGTTACTAATGCAAGTCCCAACCTGTCGTACCTGGGCTGGAGTGGAGTTAAATAGT
CCCTGTTGTCATGGGACTAGTGGGACTGGCCTGGTATTTCCTAATTGGTAGTGGGAGACTCTGCCCCCTCCTAGGTAGGAGCCAGGTTCTGTCC
TGCCCCGAGCTGCCTTTGGAGATGCAACTCTCTCTCAGATGTCTTCTGGGATGGGGATGGAAAGTTGGAGCATGGCAGCTGCCAGAGCCCCAGG
GGCTACCCTTAGAGCTTCCCAGATGACTTGAACATTTTGCCCTCGTCTGCCTGCCTGGGCCCCTAACCTCCCCTGGAAGACCAGTAAAGTGCAA
CGGCCACCTTATACTGAATGTGGCTCAGGTGTCAGGGTGTAACCTTGTTGGTGAAGGTCATTGGAATCCACCATAGGACAGGGTTGTCCTCTTC
TGAGTGCCCCATTGAGGGGATGGCTTGAGTTATCCACGAGTGTGAGTGGTTGCCGCCAAGGCTGGAGTCTCTCTCCTAGTTTCATTTCTGTTGC
CGGGCGTGGTGGCGCACACCTTTAATCCCAGCACTCGGGAGGCAGAGGCAGGTGGATTTCTGAGTTCGAGGCCAGCCTGGTCTACAAAGTAAGT
TCCAGGACAGCCAGGGCTACACAGAGAAACCCTGTCTTGAAAAAACAAAAACAAAAACAAAAACAAAAAAATTAACCAGGGTGCCACCCTGGGC
CTGTCCCTCTAGGGCCTCCTTGCTCACCTGTGTTCTGACCTTGCAGACCGGGGAGCTCTGCATAAAGCAGTCATCCTCACAAAAGAGGTGCATG
TCATCGAGGAGACCCAACTCTTCCGGGACTCTGAACCGGTCCTAACTCTGCTGCTATCGTCAAAGAAGGTAATGTGGGTTTGGTTGGTTGGTTG
GTTGGTTTTAGGGGTGGGGGTCAGGTCCAGGCGCTTGTCTCCCTTGTAGCTTCTCTGTGGCTAGGACTGGCTAGGATGGGTCTCTCAAGGCTTG
GCAGCCTCTGGCCCAGGTGAACTTGGCGTACACAGCATGGGATCTGAGGCTTGGGAGGAGGCATGGGAGAGCCAGGGGCCTTGATTGTACTAAG
CCACTGGAGCTTTTGGGAGGTCCCTAACCTGGGGAAATGTCTGTGCCTTGAACCTGAAAAAAAAATGCAGATTGTGCTGGTGGGACATGACATT
TTGCTAATTTGTAAGGAGAAATAACAGGGGCTGGTGAGATGGCTCAATGGTTAAGAGCATTGACTGCTCCTCCAGAGGTCCTGAGTTCAAATCC
CAGCAACCACATGGTGGCTCATAACCATCTGTAATGAGATCTGATGCCCTCTTCTGGTGTGTCTGAAAACAACTACAGTGTACTTACATGTAAT
AAATAAATAAATCTTTTTTAAAAAAAAAAAAAGAGAACTAACAGGTCACCCTCTAGAGCTCCTGCCATACCGCCCTGTGCATCGGGCAGCCTTT
GCAGAGGCCTCAGTCACGGGGGCTCAGCTCTGCACTGTGGCTCCCACGAGCCACGGAAACACATAGATGACCAAACCTGCCCTCGAAGCCATGC
TATGTATTGCCCGAAGTTTTCATAAAAAGCTCCAGCCAGATGGTAGTAGTGCAAACCTTTGATCCTGGCACTCGGGAGGTGGAGGCAGGTAGAT
CTTTGTGAGTTCAAGGCCAGCCTGGTATACATAGTGTGTTTCAGGGCAGCCAGAACTATGTAGGGAGACCCTGTCTCAAAAATGAATGAATGAA
TGAATGAATGAATGAATGAATAGGTATTTTTTAAGCCCCTAAGTGGGGTGCAGTATGGTTCATACCTCTAGTTCCAGACCTTAGAACATT
GGAAGCAGGAAGATCAGGAGTTCAAGGCTAGTCTTAGCCATATAGCAAAGTCAAGGCCAGCCTGAGCTAAGTGAGACCCCATTGCAAAAAATAA
AACAAGGTATATAGGAGTGAATAGAAATGGCCTGGGTGGGGCTGGAGAGATGGCTCAGTGGTTAAGAGCAGTGACTGCTCTTCCAAAGGTCCTG
AGTTCAATTCCCAGCAACCATTGTGGCTCACAACCATCTGGAATGGCATCTCTGATGGATGCCCTGTTCAGGTGTATCTGAAGACAGCGACAGT
GTACTCTATAAATAAAATAAGTCTTAAAAAAAAAAAAAAAGCCTGGCAGTGATGGTGGCACATGCCTTTAATCCCAGCACTTGGGAGGCAGAGGC
AGACAGGTTTCTGAGTTCAAGGCCAACCTGGTCTACAGAGTGAGTTCCAGGGCAGCCAGGGCTACACAGAGAAACCCTGTCTCAAAAAACCAAA
ATGAAAAAAAGAAAAGAAATGGCCTGGGAGCTGGGCTTGGTCCACTGGCTGGAACTTGTTCCTTGTCCTCTGGCCTTGGGAAGATGTGGACACC
ACATTTTACATCTAGGATAAAACAAGGAAGTTCAGAACATGGGTTGTCTCCAAATCCTGACTACACTGCCTGCTGTCATGTTACCCTGGGCATC
ACTATATGGTCCTCTTAAGGTGGTCTCTGTGTGTGTATGCTTTTCATTAATGTGACTGTTAAGAGGACATGTGAGCCTCCTAAGTGCTGAGGGC
TGGCTTTGAGCAGCACAGAACCCAGGGAAAGCTAGGAGCAGGATCAGCTGCCACCTGCCCTGCTTCATGCCTGCTGGCCAAAGGTGCTCCCCTC
CCCTTGCTAGGGCTCTGCTGTACCCCCCTGAGAAGATGGGTCCAGGGCCACACTTTTGGCTTCAAGTGCCAGTGCTAGCCTCTTGCCTCTACCC
TTGTCTCTGATGCCTGGCTCTGGGACACTGCTGAACTGTGGCCTGGTGTGACTGTCCCCGTGGACTGCACATCTGTGGGCCCTGTGTTTCCAAT
TCAGTTCTCTTTAAGTAGCTGGCCACAGCAGTTACCAAGGGTCCATCAGTCTCACTTACCCGTGTGCTGGGCTTCTGCTAGCACCAGGTACAAT
GCTGGTCCTGGCTTGCACCCAGGAACATGGCACGCTCCTGTCCTGGAAGTCAGAGCGATGTTGATAGGCGTGGTCACATTGGCAGGCTGGATTC
AGAGATGACTGATAAGGATGTGTCCTTATCACAGGTACCTACTGTCTGGCTCAAGACAAGACTGGCATTTAAAGGTTGTGCCCTGTGGATTCCA
GCTGTAGTGCTGTGTCACTTACAGAGTCCAGGAGAGCAGTGGGGGGGGGGGGGGTCACATTAGGAGTGGGAAGCAACTGGAGAGGGCTTTTATG
TGGTTTTCTCAAGACACAAATGAAAGTCTCTTCACCCAAGATAGAGCACCAAGGATAGACCAGTCGAGCTCAGTGAGCCAGTGAGTTTTGGGGA
GGTAGCTACAGGGAAGAAGGAACAGGGGATTATTTACAAGCCCGTGGGTGGTTCGGAGGCAGCTGCATCCATATATCTCCCTTCACAGCTGGTA
GGCAGCTCGGCAGGGCAGAGTCTCCTCTCTACCGCAATTGTGTGCTGCTTATATAACCTTGGGGCAGCGGGCACTTGTGAATCTTAAACCTCGT
CAGGCTTCCTAAATTTCCTTCACTTTGAGTCTTGTGAGGCTCCCTCGGCGCTCCGGGAGGACGTGTTTCGATTGGGCAGACATAGAAACAGAGC
TGTCTCTTCTGGGAAGAGGAGCTGCTTTGGGCGTGCAGTGTGCTTAGCCCAGCTACGGAAGGGTGGCGTCAGATCCCAGGCCCTGCAGTTCCTC
CACTGGCGTTTGAATCCTCCTGGGACAGGGGACACCCTGCTTTTCCAAACAAGATTTGTGTCTTAATGTGCTTTTCTGTCACTGCGATAAACCA
CTCTGACCAAAAGCAGCTTGCAGGAGGAGAAAATTTCCTTCGGTTCACACTTCCAGGTTGTAGTCGCTGAGGGAANNNNNNNNNNNNNNNNNN
NCCCTGCCCTGCCCTGCATGGCATCACTCACCCCGTGCTCAGCAGACCAACCTTTCCTTGAACAGGCTAGCTACCTTTCCTTGAACACCTAGCC

TCGTGGCCATCAGGTATACAATATAAGGCTTGGGAAGAGCCAAGGTTTTGGCATTTGGTGCAAAATTTGGATCTATGCCCAGCAGAGAAGAGAG
GAAACCCATCTATTACGTTTTCATATTTGTTATCGTTTTATTTGTAAAATGTCACCCATGGGCTCATGCGGGAATGGATTATTAAGCTTGCCCG
CTGGCTTCTGCTTAGCTGCTATCTTATAAAGTCAGGGGTGGCATCACTCACACTGGGTTGCACCCACCCTAATTACTTAGCAAATAAGAAAATG
GCCCACAGGCTGGGCGGTGGTGGCGCACGCTTTTAATCCCAGCACTTGGGAGGGAGAGGCAGGAGGCCAGCCTGGTCTACAGAGTAAGTTCCAG
GACAACCAGGGCTACACAGAAACCTTGTCTCAGAAAAGAAAAAAGAAAAAAAAAGAAGAAGAAAATGTCCCACGGACATGTCCACAGGCTAATC
TGATATAGGCAGTTCCTCAGCTGCAGTTGTCTGCCCCGCAAGTGTGGCAAGGTGACAATGAAAACCCATCAGGACACTGTCATTTAGGTCTTAG
CGGTCGGGCCTTGTGGCCTATTCTGAGTCAGTGAGTCCTTCCCTCCATGCAGTGTTTGACTGTGCTGTCTTCCCAGGAGCTGGTGGAGAAGCTA
GCAGCCCCTCCCAGTGCCTGAGTCCTCCTTACACTTGCCATCCGTCTCTCATACACAGGGGAGGAAGTTTGTCTATGCAGGCTCCAACTCTGGA
GTGGTCCAAGCGCCCCTGGCATTCTGCGAAAAGCACGGTAGCTGTGAAGACTGTGTGTTAGCACGGGACCCCTACTGTGCCTGGAGCCCAGCCA
TCAAGGCCTGTGTTACCCTGCACCAGGAAGAGGCCTCCAGCAGGTATGCCTAAGGATGGGGCTGTGTGCCTATGCCCCATGCACAAGCCATAGA
GTAATGTGCGCCTGCTGTCTTCTAGGGGCTGGATTCAGGACATGAGCGGTGACACATCCTCATGCCTGGGTGAGTGGATCTCCTTTGCTTCCCA
CCCCTGGGCTGGCAAAGCTCCCGGGGCGTCAGTTCCATGGTTTTCCTGTGCGGTCTGTCTTCCTTTCTCCTCTCTGAACAGAAGTCAAGTGTCA
CGCAGCAGACCTGTGACCTCTCCTTGTGGTGAACCTGTGATCTTTCTCTGTCCCTTTGGTTACAGAAAGAGGGCTCAAAGGCACACAGGGTGTA
TCGGTTCACTGGAAAGCACACCCTGGCCCACACCATGCTCCTCTGTTCTGCTTAGCTGGGCCCCGTAAACAAAACTGGAGCCTGCTAGGAATGA
GAGCGAAGGAGCCCTTGGGTATGACCAGATAGCCCTAGCCTAAAAACAATACTCAGGAACAGTGTGGGACAGTGTCATGCTTCAAGATGAAAAT
CCTACCCTAGAAAGAAGTGCCTTAAACGCTAAGGAGATGGCTCAGTTGGTAGGATCTGAGTTCGATCCCCAGAACCCATGTAACAGCTGGGCAT
TGGTGGTTCATGCTTGTGATCCTAGCCCCAAGGAGGGTGAGGCAGGTGGATCCCTGGAGCTTGCTAGCCTCACACAGCCTAGCCGACTTGGCAA
GTACCAGACAAATGAGAGACTCCATCACAGAAAAAGACAAAGAGGGTAACTGCTATCTGAGGATGATACTCAGATTTCTGGCCTCTTTCTATAT
AAACACACATGTACGTACACACACACACACACACACACACACACACACACACAGAGCAAATGGCATCAGATTGCCTTCAGGCATGTGTAAATGT
CACACAAATTTCATGTGTAGCTTTCAGTCCCCTTCCAAAGATAGTTGTCTCGTTTTATATATGCAAATATTTCCAAGCCCAAAGCATTTTTCAT
CTTCCGTATTTCAGACAAAAGACACAGTTGTGGTTAGTTCTGGTGTCCTCTTGGGGCACCCCCTCCTGATGGCTGGCCATCAGGAAACGGCTGT
GACCAGAGGTAGGCATAGAATCTTGCCAGAATTCTAGTCTGCCTTCCCAGCCCCGTACCCCCTTCTCTGACTAGCCACATCAGAGTAAGAAGAG
GGTCCCTGGTTGCTAGCTGGCCTGCTTTAGCCATTAGCAGAAGTATTTGTCAGCTGACTGGGTGCCACTGTGAGGGAGCTGAGCCGTGCCCAGC
CCCTTCCTCAGCCTGCTGACCTTTCTCCAGGGCCAGGGTGAGAACAGAAATTCTCAGAGCTGTCGCCAGTTCCTTCAGTGTATGGAAGGGGGAC
GGGGTGGGGGCTGCTCTAGGGTCATGGATGTCTTTACCTTGGTCCTGAAGATTGCACCTGGCTCCAGTGGGTGGAAGTCTCATGCCGTCCTGTG
GGTATTAACCTGTTTTTTGAAAGCAGTCGAGCGGTCAGACGGAGTTGTTGACGGTGAGCACGTTTATTTTGATGTTCCAGATAAGAGTAAAGAA
AGTTTCAACCAGCATTTTTTCAAGCACGGCGGCACAGCGGAACTCAAATGTTTCCAAAAGTCCAACCTAGCCCGGGTGGTATGGAAGTTCCAGA
ATGGCGAGTTGAAGGCCGCAAGTCCCAAGTACGGCTTTGTGGGCAGGAAGCACCTGCTCATCTTCAACCTGTCGGACGGAGACAGCGGCGTGTA
CCAGTGCCTGTCAGAGGAAAGGGTGAGGAATAAAACGGTCTCCCAGCTGCTGGCCAAGCACGTTCTGGAAGTGAAGATGGTACCTCGGACCCCC
CCCTCACCTACCTCAGAGGATGCTCAGACAGAAGGTAGTAAGATCACATCCAAAATGCCGGTTGCATCTACCCAGGGGTCCTCTCCCCCTACCC
CGGCTCTGTGGGCAACCTCCCCCAGAGCCGCCACCCTACCTCCCAAGTCCTCCTCCGGCACATCCTGTGAACCAAAGATGGTCATCAACACGGT
CCCCCAGCTCCACTCAGAGAAGACGGTGTATCTCAAGTCCAGTGACAACCGCCTGCTCATGTCTCCTCCTCTTCATCTTTGTCCTCTTCCTC
TGCCTCTTTTCCTACAACTGCTACAAGGGCTACCTGCCCGGACAGTGCTTAAAATTCCGCTCAGCCCTGCTGCTTGGAAAGAAAACACCCAAGT
CAGACTTCTCTGACCTGGAGCAGAGTGTGAAGGAGACACTGGTCGAGCCTGGGAGCTTCTCCCAGCAGAACGGCGACCACCCCAAGCCAGCCCT
GGATACGGGCTATGAAACGGAGCAGGACACCATCACCAGCAAAGTCCCCACGGATCGTGAGGACTCGCAACGGATCGATGAACTCTCTGCCCGG
GACAAACCGTTTGATGTCAAGTGTGAACTGAAGTTTGCAGATTCGGATGCTGACGGGGACTGAGGCCAGCGTGTCCCAGCCCATGCCCCTCTGT
CTTCGTGGAGAGTGTTGTGTTGAGCCCATTCAGTAGCCGAGTCTTGTCACTCTGTGCCAGCCTCAGTCCTGTGTCCCTTTTTCTCTTGGGTTGA
GCCTGTGGCTCATCCCCTTTGTCCTTTTGGGAAGCAAGTATCTATTCCAGTCTCAAGTCCTGCAGTTGCTGGAGCGCTTACGCACCTGAGCCCT
TTGTGTCCTGGGGGAGAGATGGCCACCTCCGTGGGCTGCGAAGAGCCACCCCTTCCTCTTCCGATTCTCCTAGCAGCCACTCAGAGATAATTTA
ATTCCAGATTGGAAACGCCCTTTTAGTTTATCAGATTGGTAACTTACATCCTGCTGCCCAGATGGCACGGACAGTTTTCTTTCACTTAATTATT
ATTTTTTTTTTTAAGGATTTTCGCTCCTATTGTGTTGATGTCTTAGGTCATTTTCTTTTTTTCTTTCTCTTTTTTTATTACCAGAGGAGATGTTT
TAATATTCATGAGAAGAGGAACATTTTTCTAGATTTTTTTTGTTGTTATATATTGAGATATAAAATATGGCTATGTTGCTTAAGATTCTCAGGGAT
AGACTTATTTTTGTTAACTTCATTCTTTCCTGCTGTTAGGAACATAGGCCTAAAATTGTCTCTTGAGTTTGCTCACCCTTTTGTTTTGGTAGGG
TTTTTTTGTTGTTTGCTGTTATTGTTTCTAGTTTTTAATCTTATTCATTTTGAAGGATTTTTCTTTCTGAACTTTTTAAATTTTTATATTTTCCT
GCCATACATCTACAAAGTGGGTTTTGAGTGAGGGCAGGTGGCCCAGTGGCTTTGGGTGGCGACTGAGCTGGTCCCACGAGGGGAGGAGGGTTTA
TATACCCCATGACCCTGCGGCTTCTTGGCGCCTCCTGCCCATGAGGATCACATCCTGTCTCTCCTTGCTTCCATCTCTCATCACTGCCCTTGGA
CTTCCGCCTTGACTGTCCATGAAAGACAGAAATGGGTTGGGTAGTTGGGCTCCCAACCTCGGATGGTGACCGCAACATCCCGTGTGGGCGGCCG
GCCGCTCCTGCAGCCCGACTCTCCTGCCAGTGTCTTTCAGGATGTCAACGGGTGGTACGATTCTGGCATTTGTTTCTCGCTCACCGTGTGTGGA
ACACTCATTCCATGTAGAGGGTGACGAACTCTGGATTCCCCCCCACCCCCACCCCGTGCCGTGTAGACACTCATCTTCTGCATGACATGATCTA
CCATTCGGTGTAAACATTTGTGTTTATAAGATTTACTTTGTTTTTATTTTTCTACTTGGAACTGTACACATTTGAAAAGTACCCAAATAAACCA
GAAGCTTTATCGTTGACTGGGCCAGCCTTTGCCTTAGTGTGGAGGCTGGGGGCGGTGGGGTGTCCTCCTGTCCCTCTGTGACGGCCCTGGGTGG
GGGTTGGTCCTGGGATCTTGTCTGTTCTCATCCCATGTGTCCGGTTTCTTGCTTTACCTTCTCCGTCATGGGAATGGTTCTGACGACTTCTTCC
TCAGTGCCTTCTTTTGTGTCCTCTGTCTCACAGCCTCATCTCCTAAGTCCTTCCCTCCTCCTGGCTCCTCTCTATCCTGTCTGGGCCCTGACTC
ATCTTCTCCCAGAAGCCCTCGGCCGGCCTTGGCCTCGGGGCCCAACAGCCGTAAGCAGGTCACCTTACTGCCACCCTTCTTGAGTGACCAGGCG
CAGAAGGTGCAGGCGCTGGGGACCTTCTACCTCTTCTGCCAGGCCACAGGTGAGTTGAGGGGCCTGAGTGTCCATGGCTGTCCCCTCGCTCTGC
CCTTGCTCCTAGCTGTGCCTGAGGTTCAGCTGTCTGTGCTGATCCCGGGATCAACTGTCAACCGTGCAACGCTGTTGCTAGGGCTGCCGAAGGG
GTCATCCAGCCTCTCGCCGTAAAGGTACAGGTGTTGGGTCTTCTGAGCATGTAGGCTGCTGTGCCCAATGTTGTATGTCAGAAAACTGGACCTA
CAGGGCAGCAGAGAACCAGATGAGGCCACGATTTGCTAACCTGGGTTAGGTAGGGAATTCAAGGCCAACCCCAGGCAACTTATGAGAACCCTGT
CTTGGAGTTTTAAAATAGGAATTAGGATACATCCAGTGGTAGAATGTGTGACTAATGTGTACAAGGTCCCAGCCACAGCATAAATAAATACATA
AATGCGTGAAGTCCATAAGGTGGAGGTTTTCTCCCTCTGCTGGAGACTATCACATAAGGACATGGACTCTTGAAAGATGGTAGTTTACCCAAAC
CATTCTTTAGCTCAGAGATACCCATAGCCCCATCTTTCCCTGTGGGCTTTGGCCTCTGCACAGAAGTGAGGAATAGAGTTGATTTCAAGACAAA
GCAAATCCGGTTTATCTTAAAATTGCTTTTTAATTGTCGAAGCTATGGAGATCTTGAAAGTGCTATGTGTTTTGTTAAATTAGCTCTAGGATCC
CAGGGGCCTGTGTTGTCTGCTGTGAATGCAACATGCCGTTGGCAGCTGGAGGCCCCGTGGAGGCTGTGGGAGGTGGGCAGAGGTTGCTGCAGAC
CTACGTACCCTGACATGTCATCAGTGAATACATGGGCCTTGATGGCCCTTTTGAGTTGCTGTCTTAACTCTGGCTGCCCAGGCTGCTGACCCTG
GACACCTGAGCTTCAGCCCCCCTCTCCAGGTCCCTGGGTCTCCTGGTGTGTGTCCACGGTGCCCAGTGATTCCCATTTTGTGCTTGCTGCTGTGG
ACCAAGCCTTCATGTCGACACCTGTTCTTGTTCCTCAGTAAGATATTTTAAGATAGATCATTTATTTATGCATGTGTACAAATCTGTGAGCGTA
TAAAGGGGCAGAAGAGACGCCTTGAAGCCAGAGTCACACATGATTGTACATCACCTGGTGTAGATGCTGAGGACTGAACTTGGGTTCAACTTGG
AACCTGCGAGAGAAGCAGGTGCTCTCAACTGCTGAGCCATCTCAGCACGTCTCTAAGGGGCAAGCCATTACATTTAGGGGAGTGTTTTCCAGTC
CCCGGTATTATTAGCAAGGCTTTCACAGGTATGGGTCCTCCGGTGTGGGAGAGGGTGAATGACTGGGGCCTTCCTTAAGGAAGATAAGACTTCA
TTGTTAGATGCATAGAAACTACAACATCGGGCATTTCAACAAGGGGGAATTCGAAGCCGGGAGTTGTTTGCTAAGGTGATGGGGAACCTAGGAG
TGAGACAGGAAGGTGGGCTTCTCCAAAGACTGCTACAGGAAGCCACCAGCATGGGCAGAAGCAAAATAAAACCTCACTCACACTTGCCAGGCCT
CTGAGGTTGGGCATGACCTGCAAGGGTAGCCTTGCCGGCAATGTTCCTACCGCCGCACTCCTCAGGTACCACGAGAGACAGGAGATGCGCTTTT
TGAACTTTTTAGTGACCTAAGGGAACACTGGAAGCCAGGGACTGAGGAGCCATGGCTGGGGACTGTGGGGGCCGGAAGTGTGCAGGGTGTGAGT

GGAAACTGAAGTGGAAGAGTGAGTTCCTCTCATGCCCCTCAGAGCGGACTGAGCCCAGGCTGGGGAGACAGCTCACTGATTAAAGTCCTTACTG
TGGGAGTGTAAGGACTGGGGTTCTCATCCCCAGACCCCCACCTAAGTGCTGGGTAGGCTTGGTGACCCACCTGTAATTCCATCTTTAGAAAGTG
GTGATGGAATCCCCAGAGCATGCTAGCTGGCAGGATGAGCCATTTAGCAGTGCTCTGGGTTTGATTGACAGAACCTGTCACCTCAAGCCTTTGC
ATGCATCTACACACACACACACACACACGCACGCACGCACGCACGCACGCACGCACGCACGCACGCACGCACCAAGTCTCTGTCTTGAGCAG
ACATGGGACCAAACCCTTACTCTCCCTTACCTACTTTCTCCTGTCCTTTTTTTCCACAAACATTTGACCACACCCGGGGCCTGTCTTTTCAGTCC
TGTCCTCCACCAAGACAAGGCACTTTAGGGAAAGGCACCGCCAGCCTGGTGATGGCTGGGTGGGCTTTGGTGGTGTGAACATGCCAGGGCCTCT
GCTATCTTTGAGCAGGTGGCAGGTTGGGTCGGAGTTGGCAGACAATCTTATCTGAAGCAGAGGCCATGTGGTTTTGAACTCAACTCCCTGTAAC
CTTTCTACAAAAAGCAGTGTATGTCTTTGAGGTCTGCTGAGGAGGCCAAAGCAGCTGTCCCAGGTGAGACCCCAGTTGGCTCTCCTAGCCCAAT
GACATGGGCAGGGCAGGGCTAGGTGGGCAGAGCAAGTTGGGAGCCTTGACCTGCGTTTTTCTCTCTCCTAAAACAGCTGTTTGTATGATTTATG
TGAGTGGCTTGGGGCTAGCTGATTAAAGGCCTAGTGCGCTGTTTTTAGAACACAAGACTTAAAGAGAGGGTGAACAGGGACTCTTCAGTCCCTT
GGCATGTGTCCTGGTGTCCGCTCTGGCTCTGCTGGTGACTCTGAGCTATCTTGGGGGAGCCTCACCCCTCTAGAGGGTTGATTAGAGGTCAGAT
AGACAGCAAGGCTTGTACTCAGGACTATTCTGCCCACTCCTGCTTCCACCCAGGACCTCCATGTCCTCTGGATTGGATGAGTGTTTTCCCAGTG
TATGAGGCAATTCAGACGCCCTGTTCTGCATACCCAAGTGAGATGACCAGGGAAGACATGAAAGCTGCCCCAAGCATGGCTGTGGGGGAAGGTC
AGGCTGCCTACAGCCTAAAGCTTGCAGGAACTCCCGTTTAGTTCCAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
GGATCCGGCTCTGACTTTTCCTCCAGTCTTTGTGCCCGGGTCTGCAGCCCAGCACTGAGGTCCGGCCATACCCAGCCAGGTGGGTGGAGGGCTG
GAGCCGCTGCACTGTCTGACCTTACACTGCAGTTGCTTCCCCGTGTGCTGATATCACTGGGAGGTGCATGTTTATTCTGTCCTGCTGCCAGCTG
CCAAAGGTTGGCATATGTACAGCACATGCCATGCCAACACACACCACACTGTGACATACACTACACCACACCACACATACCACATATACCAGGC
ACCACACATAACTCCCACCACATACTCTCCACACATAGCCCCCAACACCACACATATAATTACCCACTGCACACACAACACATTTATCCCACAT
TTCACATAACCCCCAGTACCACATGCCACACGTACCACATCTTACATGCCACACACCATGCACCACATATCACACCATACATGCTTCCTTTGTG
TACCACATATATAACATCACACATACCACATACACACTCCATACCATATATCATGCTACACATACATGTACACACTACGTACTGAGTCCATAAA
CACTGCACACATCACACAAACCCCATGTGTAGCACACAGCCACACCACCACCACATCTCACCTATACCAAATACCTACATCACAAGTCACCCAC
ACTACAAATTGCCCACACCGTAAAAGTACCACCCAATGCCATGTGCGCACAAACCCTACAAACTTAAGACACTTACCTCAGGTGCTTTACGAAC
AGCATAAGCAAATTGCTTTTACCAAGCGGGGTTCCTAAGCAAGCACCTGTACATTTTTGGGTCCCCTCATTTAGTCCCTGTTTGGGGTATGGAT
TCGGGGGGCCCTAAGAGAGCTGAGGAATTGGGGTAGTGGGGACAATGAAAGCTGCTTCCTTTCCGGGCCTCCTGGGTTCTGGGCAGCTTCAGGA
TCTGGGCTCAAAGAAACTTTTGGGGCTCCTTTCTCCTAATGGGGGCCTCTGTGGTGGCCAGGTGGGTGGGGCTGGGAAAAGGGAGTCCCTGGTA
CCTCCCTTTCTCAAGGAGGGCAGGGGCACACCAGAAAGTGGTTTCCCATATCCATGACCTTTAAGAGTGTCCTCAACCATTGGGGCACTTCCTC
ATTCTGGTTCTTCAGGGGGTGGGTGTGTTAAAGATCACATGACCCTTATAGTGAGATGCAGAACTGGGTGGGGTGTGCCTAGGGTTCCTGCTGC
TCCAATTTAGGAATCCATCATAAATGCAGACAATGATGTCTTGAGAGCATCAGCCTCATCCTTGAGCAGTATCTTTAGTCCCCCCAGAGTCCA
GAGCCCAGCTCCCTCATTCCCAGGGCCTGTTTCAGTTCACAGTCCTAAGAAGCCACTGATGGCTACATCGTCATCTCTCAAGACTTCCAGGTGC
AGTCCCGATTACCTGCATGATGAGGTGCCTGGGGGCAGAGACAGAGAAAGGGCCTCAAGCTTAGCCTCCCCTCACAGGTAACAGACATGCTTGT
ACTTGGTCTAAATTCCAGGCTGGCCAGGGCCAAATAAGATGCCATCTGAACTAGCAGCTGTCTGGACTAATGGCATGTGACTGATGGGGGAACT
CATGAAATCTGAGGCTACGGTATGAGAGAAGTTTCTAGAAGTTGAGGGAAGCTTTGAAAGAGCCCTTGTGGCCAGAGTGCAGACTTGTGGGGAC
TGTGCAGCCCATGGGGATAGGTGGGTCAGAATCCTTCCCAGGAGGCTTAGTAGTCACTAACTTGATGTCAGGAAGAGCCCAGCCCGTGTGCATG
ACTAAATACCTGACAAAAGCGAGTCAAGGGGAGGTTTTAATTATGGTTCACAGTCTGAGTCTATGAGGAATGCAGCAGGGGCATGCACCTATAG
TCAGGAAGCAGTGTTGCTCAGTTTGTGTTTCAACATCCCCTCCTCTGGGGGCATCACTGTGTAGCCTTGGCTGGCCTGGAATTTTCTAGACTAC
CACGTCTTCCAGTTCCCAGAAATCCTCCTGACTCTGCTTCCTGAATGCTAGGATTAACGGTGTGTGCCAGCCACCATGGCCAACCTCACAGGCA
TGCCTAGAGGCACATCTCCTAGGTGATTTTAGAGTGTCTTGAGCTGACAATATCTACCATCACATGAAGGTATTTGAGGCAGGTGGCACAAGAC
AGAAACAACTGTTAGCTTCAGTGAACCCCTAGCTAGGACATGGGTGAAAGAACTCTGGGAAACCTGTGGATGGGACGTGCCTGGGCAACTGTGA
TGCATAGGTCCAGTTCTGGGTCCGCCACCCAGTGCCAGATGGCACAGTACTGAGGGGGTGGCACCGTCCACTGCTTTTAATGCTCCTTCTCCCT
CTCTTTGATTTCTGCACTCAGAAGGAATTGGATAGTTAAAGAACCAACAGAGAGTAAGTACCTCTTCACCTCTCTCATGTTTTACAGTGATGCC
ACATTTAAGTTTACAGGTGCTGTGGTGTGGGGTTTGTGGCCAATGTGACCTACATGTTTTCACCCCCCACCACAAACTTGATCTACAAACAAAC
AACAAAAGCCCGGAGTTAGTGTTTCATGTTCATTCCTTGGTTGTAATACCTCAAGAGTTAGTTGTTCCAGTTGGATTGTAGATTGATACCCAAC
TGCAGAGGAATGGCTAAAACAATATGGTTCCATGAAAGGCACTGAGTTGCAAAGGAAATGCTTGGCCCTAAGATCTACAGGTAACACCCAAGAT
CCTACCAGCTCTGAATCCAAATCCACAAAGCTGCTCCTGTCCTGGATCTACACAGGCTCTGTTGTGTCATTGTTCCTTAAACTGTTTCACAGCT
GTTTAAGTAGTGTCGGCATAGTATTAAGTACTGTAAGAAATGTAGAAATGATTCCAAGTCTCCAGGAGGAGGTACATGTAGGTTTTCTGCAAAC
ATGTCATTTGATGTCCTCAGGGATCCCCTGCAGATACTAAGGGATGACTCCAGTTGTGCTCCCCAGTTGATGGACATCTGTATACAGATGTGTG
TGCGTGCATGTGGATGCGTTCATATACACCTAAATACATGGAGTTGTCGGCGGCTAGAATTGAAAACACTTGAGTAGAAAGCAAATTTAAGTCC
GCAGGGCTTGTCCACTAGTCTGCAGCCAGGTGGGTAGGCACAGGTGCTTCCGGAACACGAGACTGGCATGTTCCTGTCTTATGTATGTTTGTTT
ACTTTTTAATTTTTTAAGTTAATTTATTTTAGAGACAGAACCTTAGCATGGATCTCTGGCTAGCCTGGAGTTATGAGACTTACTCTATAGCTCA
GGTTGGCCTTGAACTTATGGTGGTTAACCCTCTGTCTCTGCCTGCTGAGTACCGGGACTACAGGTGTGCTTCATCGTGCCCACTCAATTCTGTC
TCAGTGGCATTTTTCAATTATAAAAGTAACACTTATTTATATTTGTTATTCATAAGCTCTTGGAAATTTATTTTTAAAAATTCAAGGGTCTGGA
GAGATGCATGGGTAGTTAAGAGCACTTGTTCTTGGAAAGGACATGGGTTTGATTCCCAGCACCCGAATTGTGGCTCAGGATCCCTGCAGCTCCA
GTTCCAGAGCATGCCATGCTGCCTCCTCATGCAGGTGGTGCATTGGTAACAAGCCAGCAAAACACCCATACACATACAATAAAACCCATCCCCA
GGCTGGGAGGTATTTTAGTGGACAAAGCACATGCTGTGCGGCATGTACGTAATGCCTGGCAGGCAGTTGCAGTAGCCTACCTATAATCCCAGCA
CTCCCAAGGTGGGAAAGGGAGATCCTTGGAGCATGCTGGCTAGCCAGTCTGGCTGATTCAATGAGCTCATAGTATACTTGAGACCCTGCTTCAA
TATATATATATATACACAGTGCCAAGCAATAGGCGAAGACACATGGTTGACATCCATCTCCAAGCCCCACATGTATGAGTTGCATTCTGTTAAC
CCTCTGGAGCCTCACCAAGCACTGTATGACCTACATGTTTTTCAGTTTGCTTTTTTCTGAAATCAGTTTCTCTGAGAGGGTTCTCCTGACTGTC
AGTCACTGTAGTGGCTTCCTACCATTTGTATGTGTCGTCGTCGTCCCCACCCCCGCCCCCCGGACATTTCCTGATTGTTACTAACAGAAACAAG
CCTGTGGCCCTCCAGTTGCATTACCGCTTTGGAGCCGTCCCTGGGATGGTCCAGTTGTATTTCTACTTGATCCAGTGTGAGAGGAAAGCCTGGG
ACAACAGCACAGGGGGTCATTGATGAGGGAACCAGATGATGATGAATAGAGGGTTGGTGAAGTGAGGAGACTCCAGGCCCAAAGTTATAAACTA
AAAATCTCTTCAAAAGTCCAGTCTGTGGGGCTGGCATGCTGTTGGTAGAATGGTCACTTAGTATGCATGAAGTCCTAGGTTAGATCCTCAGTAC
TCCATCAACTTGTTCAGGGGTGCAGGCCTAGAACCCCAGCACGTGGGAGGTGAAGGCAGGAGGATCACAAGCGCAAGGTCATCTTTGGCTACAT
AAAGTTCAAGGATAGCTTGGGCTACACTGAGGTCCTGTCTTAGAAAAGAAAAAATGCAACCTGTCACCTGTAACTGAGTAGTGCTAACTCCCTG
CCTGGTACCATTCCTTCCCCAGGGCAAGTTCTCCCACCCTTGGCCACCCACACACCCTGGCATCATGGCGGGGACAATGCCAGGTGATTTTAAG
AGTTCCCAGGTTCTGCCTTGGTGGTTGTTATTTGTTGTTATTTTTTGTTGTTTTTCCTGCTCAGTGTTTTGAGCCCAGGTGGAGATTGCTATTT
CTTTTCTCCCCGTTTGAATGTCTCCCATCAAGCGTGCGTGTGTGCGTGTGTGTGTGTGTAGATGGCATGTGAAGGTGGCAGGACCTGGCTGG
CTGGTCCTTCCTGTCCAGCTCAGCTTGGTACATCACATACCTGGTAACAGTAGCTGACAAAATGTAGCACCACGAGGCTGGTTTAAACCATTGG
GCCATCTTCAGCCAAGCCCCAGGTAGGGCCAGGGAGTGAACCATTTATGAGTGTAGCTGCTTTGTTTTGCCTTCTCCTTGGTGGATGGAGGGCA
GCCTGCCCTTGCATGGCCTGAAGCTCTGGGGATCTAGGGTGAAGTCTGAGACCCAGACTATACATACCCATAAGTCAGCACTAACAGGGAAGTG
ACCTGTTGCCATCACAGC

MOUSE SEQUENCE - mRNA

GAATTCGGCACGAGGCCATCCATGTGTGCCCGTTGCTGAAGGCCTCGGTGGCCCCTGCCCATGAGGATGTGTGCCCCCGTTAGGGGGCTGTTCT
TGGCCCTGGTGGTAGTGTTGAGAACCGCGGTGGCATTTGCACCTGTGCCTCGGCTCACCTGGGAACATGGAGAGGTAGGTCTGGTGCAGTTTCA
CAAGCCAGGCATCTTTAACTACTCGGCCTTGCTGATGAGTGAGGACAAAGACACTCTGTATGTAGGCGCCCGGGAAGCAGTCTTTGCAGTGAAT
GCGCTGAACATCTCTGAGAAGCAACATGAGGTATATTGGAAGGTCTCTGAAGACAAAAAATCCAAGTGTGCAGAGAAGGGGAAATCAAAGCAGA
CGGAATGCCTAAACTACATTCGAGTACTACAGCCACTAAGCAGCACTTCCCTCTATGTGTGTGGGACCAATGCGTTCCAGCCCACCTGTGACCA
CCTGAACTTGACATCCTTCAAGTTTCTGGGGAAAAGTGAAGATGGCAAAGGAAGATGCCCCTTCGACCCCGCCCACAGCTACACATCAGTCATG
GTTGGGGGCGAGCTCTACTCTGGGACGTCCTATAATTTCTTGGGCAGTGAACCCATCATCTCTCGAAACTCTTCCCACAGTCCCTTGAGGACGG
AGTATGCCATCCCGTGGCTGAACGAGCCTAGCTTCGTCTTTGCTGACGTGATCCAGAAAAGCCCAGATGGTCCGGAGGGTGAAGATGACAAGGT
CTACTTCTTTTTTACGGAGGTATCCGTGGAGTACGAATTCGTCTTCAAGTTGATGATCCCGCGAGTTGCCAGGGTGTGCAAGGGCGACCAGGGC
GGCCTGCGGACTTTGCAAAAAAAGTGGACCTCCTTCCTAAAGGCCAGGCTGATCTGCTCCAAGCCAGACAGTGGCCTGGTCTTCAACATACTTC
AGGATGTGTTTGTGCTGAGGGCCCCGGGCCTCAAGGAGCCTGTGTTCTATGCGGTCTTCACCCCACAGCTGAACAATGTGGGTCTGTCAGCGGT
GTGCGCCTACACACTGGCCACGGTGGAGGCAGTCTTCTCCCGTGGAAAGTACATGCAGAGTGCCACAGTGGAGCAGTCTCACACCAAGTGGGTG
CGCTACAATGGCCCAGTGCCCACTCCCCGACCTGGAGCGTGTATCGACAGTGAGGCCCGGGCAGCCAACTACACCAGCTCCTTGAATCTCCCAG
ACAAAACACTGCAGTTTGTAAAAGACCACCCTTTGATGGATGACTCAGTGACCCCGATAGACAACAGACCCAAGCTGATCAAAAAAGATGTAAA
CTACACCCAGATAGTGGTAGACAGGACCCAGGCCCTGGATGGGACTTTCTACGACGTCATGTTCATCAGCACAGACCGGGGAGCTCTGCATAAA
GCAGTCATCCTTACAAAAGAGGTGCATGTCATCGAGGAGACCCAACTCTTCCGGGACTTTGAACCGGTCCTAACTCTGCTGCTATCGTCAAAGA
AGGGGAGGAAGTTTGTCTATGCAGGCTCCAACTCTGGAGTGGTCCAAGCGCCCCTGGCATTCTGCGAAAAGCACGGTAGCTGTGAAGACTGTGT
GTTAGCACGGGACCCCTACTGTGCCTGGAGCCCAGCCATCAAGGCCTGTGTTACCCTGCACCAGGAAGAGGCCTCCAGCAGGGGCTGGATTCAG
GACATGAGCGGTGACACATCCTCATGCCTGGATAAGAGTAAAGAAAGTTTCAACCAGCATTTTTTCAAGCACGGCGGCACAGCGGAACTCAAAT
GTTTCCAAAAGTCCAACCTAGCCCGGGTGGTATGGAAGTTCCAGAATGGCGAGTTGAAGGCCGCAAGTCCCAAGTACGGCTTTGTGGGCAGGAA
GCACCTGCTCATCTTCAACCTGTCGGACGGAGACAGCGGCGTGTACCAGTGCCTGTCAGAGGAAAGGGTGAGGAATAAAACGGTCTCCCAGCTG
CTGGCCAAGCACGTTCTGGAAGTGAAGATGGTACCTCGGACCCCCCCCTCACCTACCTCAGAGGATGTTCAGACAGAAGGTAGTAAGATCACAT
CCAAAATGCCGGTTGGATCTACCCAGGGGTCCTCTCCCCCTACCCCGGCTCTGTGGGCAACCTCCCCCAGAGCCGCCACCCTACCTCCCAAGTC
CTCCTCCGGCACATCCTGTGAACCAAAGATGGTCATCAACACGGTCCCCCAGCTCCACTCAGAGAAGACGGTGTATCTCAAGTCCAGTGACAAC
CGCCTGCTCATGTCTCTCCTCCTCTTCATCTTTGTCCTCTTCCTCTGCCTCTTTTCCTACAACTGCTACAAGGGCTACCTGCCCGGACAGTGCT
TAAAATTCCGCTCAGCCCTGCTGCTTGGAAAGAAAACACCCAAGTCAGACTTCTCTGACCTGGAGCAGAGTGTGAAGGAGACACTGGTCGAGCC
TGGGAGCTTCTCCCAGCAGAACGGCGACCACCCCAAGCCAGCCCTGGATACGGGCTATGAAACGGAGCAGGACACCATCACCAGCAAAGTCCCC
ACGGATCGTGAGGACTCGCAACGGATCGATGAACTCTCTGCCCGGGACAAACCGTTTGATGTCAAGTGTGAACTGAAGTTTGCAGATTCGGATG
CTGACGGGGACTGAGGCCAGCGTGTCCCAGCCCATGCCCCTCTGTCTTCGTGGAGAGTGTTGTGTTGAGCCCATTCAGTAGCCGAGTCTTGTCA
CTCTGTGCCAGCCTCAGTCCTGTGTCCCCTTTTTCTCTGGTTT

MOUSE SEQUENCE - CODING

ATGAGGATGTGTGCCCCCGTTAGGGGGCTGTTCTTGGCCCTGGTGGTAGTGTTGAGAACCGCGGTGGCATTTGCACCTGTGCCTCGGCTCACCT
GGGAACATGGAGAGGTAGGTCTGGTGCAGTTTCACAAGCCAGGCATCTTTAACTACTCGGCCTTGCTGATGAGTGAGGACAAAGACACTCTGTA
TGTAGGCGCCCGGGAAGCAGTCTTTGCAGTGAATGCGCTGAACATCTCTGAGAAGCAACATGAGGTATATTGGAAGGTCTCTGAAGACAAAAAA
TCCAAGTGTGCAGAGAAGGGGAAATCAAAGCAGACGGAATGCCTAAACTACATTCGAGTACTACAGCCACTAAGCAGCACTTCCCTCTATGTGT
GTGGGACCAATGCGTTCCAGCCCACCTGTGACCACCTGAACTTGACATCCTTCAAGTTTCTGGGGAAAAGTGAAGATGGCAAAGGAAGATGCCC
CTTCGACCCCGCCCACAGCTACACATCAGTCATGGTTGGGGGCGAGCTCTACTCTGGGACGTCCTATAATTTCTTGGGCAGTGAACCCATCATC
TCTCGAAACTCTTCCCACAGTCCCTTGAGGACGGAGTATGCCATCCCGTGGCTGAACGAGCCTAGCTTCGTCTTTGCTGACGTGATCCAGAAAA
GCCCAGATGGTCCGGAGGGTGAAGATGACAAGGTCTACTTCTTTTTTACGGAGGTATCCGTGGAGTACGAATTCGTCTTCAAGTTGATGATCCC
GCGAGTTGCCAGGGTGTGCAAGGGCGACCAGGGCGGCCTGCGGACTTTGCAAAAAAAGTGGACCTCCTTCCTAAAGGCCAGGCTGATCTGCTCC
AAGCCAGACAGTGGCCTGGTCTTCAACATACTTCAGGATGTGTTTGTGCTGAGGGCCCCGGGCCTCAAGGAGCCTGTGTTCTATGCGGTCTTCA
CCCCACAGCTGAACAATGTGGGTCTGTCAGCGGTGTGCGCCTACACACTGGCCACGGTGGAGGCAGTCTTCTCCCGTGGAAAGTACATGCAGAG
TGCCACAGTGGAGCAGTCTCACACCAAGTGGGTGCGCTACAATGGCCCAGTGCCCACTCCCCGACCTGGAGCGTGTATCGACAGTGAGGCCCGG
GCAGCCAACTACACCAGCTCCTTGAATCTCCCAGACAAAACACTGCAGTTTGTAAAAGACCACCCTTTGATGGATGACTCAGTGACCCCGATAG
ACAACAGACCCAAGCTGATCAAAAAAGATGTAAACTACACCCAGATAGTGGTAGACAGGACCCAGGCCCTGGATGGGACTTTCTACGACGTCAT
GTTCATCAGCACAGACCGGGGAGCTCTGCATAAAGCAGTCATCCTTACAAAAGAGGTGCATGTCATCGAGGAGACCCAACTCTTCCGGGACTTT
GAACCGGTCCTAACTCTGCTGCTATCGTCAAAGAAGGGGAGGAAGTTTGTCTATGCAGGCTCCAACTCTGGAGTGGTCCAAGCGCCCCTGGCAT
TCTGCGAAAAGCACGGTAGCTGTGAAGACTGTGTGTTAGCACGGGACCCCTACTGTGCCTGGAGCCCAGCCATCAAGGCCTGTGTTACCCTGCA
CCAGGAAGAGGCCTCCAGCAGGGGCTGGATTCAGGACATGAGCGGTGACACATCCTCATGCCTGGATAAGAGTAAAGAAAGTTTCAACCAGCAT
TTTTTCAAGCACGGCGGCACAGCGGAACTCAAATGTTTCCAAAAGTCCAACCTAGCCCGGGTGGTATGGAAGTTCCAGAATGGCGAGTTGAAGG
CCGCAAGTCCCAAGTACGGCTTTGTGGGCAGGAAGCACCTGCTCATCTTCAACCTGTCGGACGGAGACAGCGGCGTGTACCAGTGCCTGTCAGA
GGAAAGGGTGAGGAATAAAACGGTCTCCCAGCTGCTGGCCAAGCACGTTCTGGAAGTGAAGATGGTACCTCGGACCCCCCCCTCACCTACCTCA
GAGGATGTTCAGACAGAAGGTAGTAAGATCACATCCAAAATGCCGGTTGGATCTACCCAGGGGTCCTCTCCCCCTACCCCGGCTCTGTGGGCAA
CCTCCCCCAGAGCCGCCACCCTACCTCCCAAGTCCTCCTCCGGCACATCCTGTGAACCAAAGATGGTCATCAACACGGTCCCCCAGCTCCACTC
AGAGAAGACGGTGTATCTCAAGTCCAGTGACAACCGCCTGCTCATGTCTCTCCTCCTCTTCATCTTTGTCCTCTTCCTCTGCCTCTTTTCCTAC
AACTGCTACAAGGGCTACCTGCCCGGACAGTGCTTAAAATTCCGCTCAGCCCTGCTGCTTGGAAAGAAAACACCCAAGTCAGACTTCTCTGACC
TGGAGCAGAGTGTGAAGGAGACACTGGTCGAGCCTGGGAGCTTCTCCCAGCAGAACGGCGACCACCCCAAGCCAGCCCTGGATACGGGCTATGA
AACGGAGCAGGACACCATCACCAGCAAAGTCCCCACGGATCGTGAGGACTCGCAACGGATCGATGAACTCTCTGCCCGGGACAAACCGTTTGAT
GTCAAGTGTGAACTGAAGTTTGCAGATTCGGATGCTGACGGGGACTGA

HUMAN SEQUENCE - GENOMIC

CCTGACCCAGTCACCTCCCAAAGGCTCCCTCTCCAGAAACCATCACATTGGTGGTTAGGATTTCAACATCTGAATTTGGGGGTAATCCAGACAT
TCAGACCATAGTATCACCTTTGAAAGACATGACACCAGGCATCCCTTTAGGGCCGCAGGGTTAACACAGTCCTCCCTGAGGGGCTGGCCAGCCA
CTTCCCAGAACAACCCCACACTGTGCCTGGGAGCCAGTGTCCAGTAGGGAGACCGTTGGCCCCCTTAGAGGTGGCAGCAGGTCAACATTAGGCC
AGTGGAAGATGATTATTTTTTGCTAGCACTAACCTGCTTGGGCCCAAGGATGCATGCACACACCACACACCCTCCAGAAAAGACAGTATTGTCTG
TATCCAAGTCTGAAGAATAGAGTGATGTCACACAAATGGCATGACAGTCTGCATCTCTACCATGCTGGCTGCTGCTTAGAGGGGTCCCCACTCT
TCCTCTGAAGGGCCCTGTTCGTGCCGCCACTCTGCGTGCATCCTCATAGCGCTTGTCCTGCCGACATTGCTGATAGATGGATGCCTGTGTTCTT
CACTCCCACCGCCCTCTGTCTCTCTCCCTGGGTTTCCCATTCTGTACATGCTGCACCCAGGGGTTTGGGAAGTGGGTGAGGGTTAGAGCATGTC
TCTGAGATATCCTGGCTGTGGCTCGCTTGCCCCTGCAGGGATGTGGCTTGAGGGTGAAGTAGACTGGTCCTGGCAGCTGCCCTGCTGGGTGAGT
CCGGCCCAACACAGGTCCAGGGCTAGGCATGTCCCTGCAGAGCTGGAGTGTTGGTCTCCAGGGATCCATTTTAATTCTAGGAAAACTGAAGTTG
GAACAATAAACTGTTTATTATGCTTGTGACCTAGACAGCTCCTGAAACCCATTCCTGATTCCTGATGGGATAAGGCCATTTTATCCTCAGTTTG
CAAGGCAGTGACATCAGCATCCTAACTGGAGGTGGGAGAGGGGTTTCTGGGGGCAGAGGACATCCCAGGGTGGGGATACTAAGGTGGCCAGGTA

CTGGCAGGGCATGGTTGGTGAGGGCTGCGGTGTCTTCTGTTTCCCAGCACCTGGCTGCCTGCTTCCAGCTGGGAGGGAAGATGTGGTGAGTGCG
TGTCCTCCACTGTCCTGGTTGTAGGGCCTGGAGAGACTCTAAGCTTTACCTGCCCCATCTGGGCAAACCCCTGAGATAAGAAATAAGCCAGAAC
ACGCTCCCCCAGGCAGTAGTTTGCATGCAGTGAGGTCAGGGGTCCAGGTAATGACTGCCTATGTTAGATTGGCCAGTCCACAGCTGTCACCAGA
GATCCCCTTTCAGTTTCCCTGGGATGCCAGCCAGGGCATTTTAATGCCAGTGTTGCATCCTGTTGCTGGCAGAAGCACTGACACCTTCCATGTG
GTAGTGACTGGTGTCCCCCTCTGTAATCTACCCTAGCTGCCAGACAGCTGATCCCAGGAAGGAGCCGAGACACGGGTGACTGGACAGTCCCCAGA
TGGCATTTTGGTTCATGGTTCCTGCCTTACAGGACACTTGCCAGCAGTCACTATTCACATCTAAGATGCAACACTAGATCAGAATGTATGTTCT
GCAACAGAGTGACACATGCACAGATGCACATATACACACATGCACACACAGATGCGCACATACATGTCTGCGTACACATACACAGATGCGCACA
CAGATGCATGCACGTATGTGCACATATAGCTGTGCACACATACATGTATATGCATACACAGATACATATGTATGGATATATGTACACAGGCAGA
CATGCACAGGTGCACACATACATTATACACACACATACACAGATGCCCATGCATACACATATGTATACACATGCAGAGATCCAAGCAGATGCAC
ATGCACTCACACAGGTGTACATATGTATGCACACAGACATACACATGCATGTGCAGACATGCAGACATACACATGTACACAACACACCTGTACA
GATGTGTACAAATGTACAAACATGGATAGGTGCACATATCTATGCGGGTTCATGTGCACACATACAGAAATACAGATGCACATGCGTGCACATA
CACAGATGCATACACACACAGATGTACATGTGTCCACATATATATATACATACACGCAGACATGTATGCACAGTGGTTGCTGGGTACTCCCATTTT
CTCTGCTGTGATCTCCTGCCTTGATTTGAAGACCCCTGGGGGTGGGAGAGCTGCCTTCTGACAAGTACTGACAGGCAAAAGAGTGTGGGGCTCA
GAGCCCCCTTGGAGTTCCATTCTGCTGACATTTAAAGTGGGCTCGTGCACCCTCATGAACAGCCCCAATTACGTGTAAGTAATGAGAGTGACAT
TTCACAACCCTGTCTTTCTAATGGGCTCCTGTGTCAAGTCATTCTTTCTGAATGCAAAGGGCAGCAATTTCACACTGTCAGGGCAAAATGCACA
TGCATACAGCTCAGCTCCCAGCGGGATACCTTTGCTTCTCAGAAATGGCGAAGAAAGCCAGCAAAATGGCCTTTTTCTCCTTTTGTTTTAATTT
AACTATTTAGAGTGAGGTCCTTAATGTAACACCCATCAATGATTATGGAGCCACTGTTCTGAAAGAACTCGCAGGGCCGGCAGATCTGTGTGAG
TTGTGGTGTGTGCTTTGCTTAAAGCAACTTTAAAATTATATGAAACAATGCATTCTTGTTGAAAAAGGAAAAAAAAACCCTCCAGTGTCACAAA
GAAAATGTGCAGCCCCCTCCCCCTCCCTGGGAGGAGCAGTATGTGGCATGGGGTCTGTCCTGACCTTTGGCTACTCATGTGGACTGTTTTAAAG
GCCATTTGAGAAGAGCAGCAGGGCCTGATTTATGCCATCGAGAATCTGGTGTCTGCTGATGAGATCAATACACTGCAGACCTGGATATAAATCC
GTGCCAGGAAGCCTGGTGGTCAATCATTGTTCTCAGGGCAGGGCCTGGAAGCCAGGTGGGGGTGCCCGTGCCCTGCTGAGCTCTACATGGCAGT
ATCTGGATTGGTCCAAGGTAAAAGCAATTAAGAAAAAGGTTTCTTTTCAACATAACCAGTTTGAGTAACCGCATAAACAGCACCAGTCCTGACA
GTCCTTCGTAACCATTTAAAGCCACACAGGAGAACCTGCTGGCTTCCACCTGGGCACCTGCTGACACTCCTGGAAATACCTTCTCTCAGCCACA
TTCGTTTGGGGATGGCTTTGCCATCCCTGGGTTTGGTCGTGGATACTATTACAAGATTTGTTTTCAATCTCTCTTCACTGGCGATTTTGTTTTG
TGGAACTTTCTACTCTTGGCTCCTTACCTTTGTCCTCTCCGGGTCTGGCCCTAGTCTTCTCACTGGGATGTTTGTGTTTCTCCTGTTCTACCTC
AACTAAGTCAGGGAGGCGTTTTTAGGTCCTTAGGCCAAGTGCTATGAAAACAATACCACAGAGGGGGATGGAGTGTGGGGGTCAGGGGAGGCAA
AGGGTGACTGTGGGATGGAGCCAGCCACCAGCAGCTCCTGGGGGTAGAACAGTCTGGAAGAGGGAGCAGCAAGTGCCAAGGCTGCAAGGCAGCC
TGAGACGGGTGGGGTGCATCGGAGGGAGGGGGCAGGAGTGGAGTGGAAGAGGCTGGCCACATTAGGTGCTGGCATTCTGCATTAAATCCTGTGC
CACTGCCCAGCACTTCGGCTTTGCGGTGAACAATCCTATTTTTACAGCGTGTTTGAGCCCCCAGATCTGGCTGCCCTAGGGACCCAGGCTCTGC
ACAGAGTCAGCTCACTCTTCCCGTCCTTGGGAGCCTCCCTTCAGGGGGTCGTGTCTTCTGCTTCTGGATCCACTGGGCTGCTTTCCCCAGGCTG
TGAGGAACCAGAACATGGATGTCTTTTTAAGGTTAATTCATTTTATGAGAGTAATTAATGCAGGTAATTTTAAAGTGAAGTAGTTCTTCTTTAA
CTTGAGAGAGGAAGCAGCACTTGCTTGTCTTGTCCCTTTGTCCCTTCCCTGCTGCCCTGAGACACTGAGTTTCAACTATTTTCACTATTTTGGT
ATTTTCCTTCAAATTAGATATGCCTACATTTCCTGACTTTCCCATCTTAGATGTTGTGTTATGATGGAAGACAGGATTGTGTTCTCTGACTCTT
GTCCCCTCCCTTTCCCTCTCTTTCTTCCCCCAGACCTCCAGTGGAGTTAGTTGTAATTTTTGTAATGGGGGCTATGCAACTGGGCAGTGATAAG
TACACTCTGGTTACATTTCCATTCATGGGTCACTCTTGCTTCCCTGGGGTTAATAACTTCATTTTCTAATCTGTGTATCTGTTCTAATTCATCT
TCAGACTCTTTGCCAGAGCCTTAAAATGCATTTCTGAGAACAAAGCCACAGATGCAATCAGTAATCCACTGTGCCTTCTCCTGCCCCGCCCCAT
TGGAGCCTCTGCCTGCTCCCCAGCTCCCCGCTCTCTCTGCCTCTCCTCCACTCGCTTCCTAAGAAAGAAGACCTGGGAAGCAGCTCCCTTGTTT
TGGTGGAGCAAATCCTGCAGTAGCTTTCTGAGAAAGAAGCTGAGGGAGGTAAAACATTTGAGAACTTGTAGGTTTGAAGCAGTGTTCTGTACTG
CACTCATACTGATTGATAATTTGACTAGATGGGGAATTCTAGGTATGAAGTCATCTTCCCTGGGATTCAAAGGCGTTGCTTTGCTGCCTCCAGT
GGGGCACTCAGAGGTAATTTCTTTGTGGCCTGTTTCTTTCTGGAAGCCTCATGTAACCCTCCTTTCAGGATGATGTGTCTGGTGTGGGCGGGTT
CCTTTCATTCACTGTGCTCCTGGGCGCTGTTATTCCGAAAGCTCAGGTCCTTCTGTTCTAGTTATTTTCTTTTTATTACTGCTTTAATAATTCC
TCATTTTTTTTCCCGGAGCTCCTGCCAGTTCATGTGGGACTCCTGAATGGATCGTCCAGTTGTCTGTTCCCCCTTTTTTCATCTCTGCTACGTG
TGTAACTTCTAGGAAACCTCTTTAGTTTACTTTCCAGCCTTTCATTTCTTTCACCACATTTTACTTTTAAGCTTGCTTCCATTTTCCAGGTTGT
GTTTCTTTGTGACTTCTTCCAGGCCCTGGCTCAACTCTGGTCTGAAATTCAAATCAGTCAGCTCTGGTGGTGTGTGACAGGGTTGGTGGTAAAC
ACAGCCACTGTTAAAAATTAAATATGTGGACTTAAAATGAAACAAATTATATTTAAAAAGGTAAAATACTCAGAACTCATTCCTTTCTAGTATC
GTGTGCATTCTACTGTTATCTGTGTGGTTGCAGTTACTCGCCTCTTGTATCTGAGATGGCAGTGCCATGTGCTGGGTGCTGCTGTGCACCTCTC
CCCAGTTCAGCGGCATCATTCTGGGAGCTCGAAAGCAGCATTTACACCACAGAAATCAGCGTGTGCTGCAAGCTGGGCACCCCCCACCTTACCC
CACCGCCCACCCCCACTGCCCACCCCGTGGAGAGCCAGTTGTTACAGCTTGCCAGCACACCGTTGGTTACTGCTCACCTATTAATAGATTCCAA
AGTCACCTCCCTCCTCCATTTTTATCCTTAAAGTTCATATCCTTTTAGAGTCATTTCATTGGGTTTCCAGAGAGAGTTGAAATAAATCTCTGTG
TTCTCCCATCTCCTGGCTCTGGACTCTTAGCCTGGCCTGACCCCAGCATGCTTATTGGGATACGCAGAGGACTGATTGCAGTTGGGGGATCTAG
ATAGGAATTAGATCCCATGTAAACCATATCTCTCCAACAGTGATCCAGCATCTTTGGTATTTGACCCGAAATGAACTGGGCCTTGTGGGTCTTG
CGTCTCTGCTCCTAGCCCTCCGGTGTGGGCACTTACTTCCTTAACGTGTCCAGGCCATGAACCCTCACAGAGGCTGCTTTTGTGACTGGCAAGG
AACTCCTAGGCCTGTTCCTTGTTGTTACTGATTTTAATAGACTTTATTTTTTAGATCAACTTTAGGTTCATAGAAAAATTGAGAAGGTGGTACA
GAGATTTCCCATATGCTCCTTCCCCACACATGCACAGCCCCCTCATTTTCAGAATCCCCCCACAGAGTGGTGCCTTTGCTACAGTCGGTGAACC
CACATAGGTACCTTATCACCCGACATCTGTATCTGGACATTAGGATTGCCAGTTGGTGTTGTACATTCTGTAGGCTCGGACAAATGCATACTGA
CATGTGTCCACCGTGGTAGTATCCCTGCCAGCCTAGTTTCCCTGCCCTAAAAACCCTCTCTCTCCCCAGCCCCTGGGAACCACTGATCTTTTTA
CTGTCTTCATGGTTTTGCCTTTCCCAGAATGTCCTATAGTTGGGATCATGCAGTATGTACTTCTACAGATTGGCTTCTTTCTCTTTAATGATAA
GCTTTTAAAGTTCCTCTGTGTCTTTTCATGGCCTAATGGCTTATTTATTTTTAATGCTGAGTAACGTTCCCCTGTCTGGATGTAGCGGTTTGTA
TACCCACTCGCCTGCCCCTGGGCTGTCTCCACGGCTGGCTTCCTGTGTGGTTGGCACGCCTTACCTCTGCAGGCTCCGCATCCGTCTTCAGAGC
GCCTTCTCCCATCCCATGGCAGCTCATTGCTGTTTCTTTTGTGTGTATGGACCTTTGCCCAGCTGGGGGACATGCCACGAGAGAGGTTGTTTCT
GCTTTATCCTTGCTGTGCACAGCTTGGCACTGGCTGGGACCTGGGTCTGGGTGTGGCTTGGAGGAGCCAATGTCAGTTCATTGGGTTTCACTGG
GCTGGGACTGCAGCACATGGACCAGGCCACTGGTGTCCTTGCTGCATGCATGACAAGAACCCTCTCCAAGGCCCTGCCTGCCGCAGGCCTGCCT
CCTCCTCCTCCTCCTCTAGTGGCGCGGGAGCCAGTGTGAAGTCTCTCACAATGCGAGTGTGCAGTCCTCTTCTGCTTTAAGGGATGGGGCAGCC
TGGCCACGTTGTCACTTCTGGCTCTCACTGGCTGTATGATGTTTGTCACATGGAACGGGAGAAAGGACGCATCCTTAAAATGCCAGGGGATCAT
TGCTCCAAAAGGAGGGGTAGCTGGTTTTTAATGGGAGCTTTTCTCTTGAGGGACTGTGGATAGCTTGTCACCACTGTTACCATCCTTTCTTATG
TCTGTCATTGCATGCAATGAGGACTGAGAAGAGCAAGGGCAGCAGGACCCTGGAGGGGCATGGGATGTTTGTGGGTGCCAGGCCCTGGGCTGGT
TGCTTCCACGCAGCCCCACTCCAGGGCGTGGGTTCTGTGGGGCCAGGACTTGTTTGTTCCAGGCTTAGCAGGAGCTCCATTCGTATTTGTCAGA
GCAATAAACATTATTATTATCAGATGCTAATTGATTAGTTATATATTAATATGATTTAGCAGATAATTCTCACAACTTTGTAGGCCAAGTAGGT
CAACTTCTGTTTTGCAAACAAAAAGTGACACCATTATGGCAAGGAGCTGCAAATGTGCCTGGAATTCAGAAGATCTGAACCTATAATTTATTGA
GTCTTCTTCATTGGGAGCCTATGTAGAAACCATTACTGGTTTGGGAGCTCAAAGTGGAGCAGCTTTTGGGAGCCACTCCTAATTACCAATCAGT
TATACAGAGGAAAAGCCTCTCAGATGAATGAGACTGTGCAGTGGGATTTAGACCGGCAACTTCAGAACAGACACATCTGGAAATGTTCTAAGTG
GTGTTGACAGGCAGGAGAGACAGCCGTTACACAGCCATGCAGAGGGGCCGAGCCCTGTGTGTTCAGGTGTAGCCAGGACAGTGCAGTGGAGGGA
GTGTGGATGAGGAGCAGTTGGATGGAGGTAGAGTAGGGTTGTCCATGGCCTTGCTGGCCATGATGAAAATGTGGGCCTTATTCTGAGTGATGAG

AAGGTGTTGAAACATTTCACATGGGGAAAGGATATGATCTGGATTTATGATAAGAGCATGACTTTGGCCACTGCTACTTTGTGGCAGTGGACTG
GAGGGAGGTTGTGTCAGTTTGGAATGGTATTTGTTGGTAACAAAAATCTGCAAGCAAGTAATTTAAAGATTTTAATAATTTTATTAGCAAGTCT
GCATAGACTCATAGCCTAGGGTCTCATAGGCTCTTGTGGGTTTCACTTGGCCATTCTTAGAATGAGACTTTTATCTTCATGTTGACAGCATGGC
TGCCAGAGCTCCAGCCATCACATTCTAGTTCCAGGCAGCAGCAGGAAGAGAAGGACTGAGGGAATTGCTAGCTGAATCAGCCTCCTTTAAAGAG
CTTTCCTGGAATTGCCATCTAATAAATTCCACATACAGTTTTTTTGGCCAGAACTCTCACCAGAGAAGCTGGGAGATATAGTGAGCTGGGCACA
CTGCCAACCCAAGTAACCTCGGAATTTTGTTAGCGAGGGTGCAGGAACATGGATGCTGGGGCAGGAAGCCAGTGATCTCTACCATGGAAGCAAG
AGGCCAGGATGAGAGGTGAGCATTGCTCAGATGAGTGATGGTGGTGGAGATGGACAGGAGGAGACAAGCCCCAGATGTGTTTGAGGCTGAGCAG
CAGCACCATCTATGGATTGGGGGTGGGGGTGGGGTTAGAGGTAGATGGGGTCGGCCCCTGACTGCTGGTGCTTTTTTTTTAGGTGGGGACATGGA
CTGTAGGAATTGGCTGGAAGCAGAGTGAGGTTCTGTTTCGGCTGTGTCTGGCTGGGTGTGGAAGGCGGCATGTGGAGGTGGTAGGGAGGAGTGG
GGTTCTAGAGTCTGGAGCTCAGGGGTGTGGTTGTTCCATGACCCTCACAGGACTCCTGGATAGAAGGGGGAGCAAGGGACTCAGGGATCCCAGG
TTGCTGTTTTGAGTGAACTGTTTACAGAAGTGTAATGTGAAAGTGCCCAATCACTGGGTGCCCAGCTCAGGACATTCTCATAGAGTGAACCCAG
GGGTGCAGCTGGCCCCAGATCAAGGTGCTAGACGCCCTTGGGCCAGTCCTGTGGCGGGTTACGCTGTGGGGCCCAGCAAAGGTACACCAGGACA
GTAGCCATGCAGTCATCAGAGAATGTTGGGGACATGAGAGATGGGGCCAGGAGGCCTGTGCATGCCTCTCCCACCACCAGCCCCACAATTTCAC
TAAGCAGCATTAAGCCTGTTCTTTTACTAAGGGCTGTTTCTTACTGGGCAAATCAGAGTGAGTTACCACCATTTCTATGGTGCATAGACTTCTT
TAAGTGAGACTGGAAGAGCTAGCAGGGTCCCATTTGGGGCAGGAGGTCAGACACTCCTGCGTGGTGAGGCCTCACGTGCGTGTGTTTCTACAGG
TGTACATCCGTGCATGTGTGTGTGTACATATGTGTGCGCATATGTTGTGTGTGTGCATGTGTGTGCACTCACATGTACATCTTAGCTCTCTCTG
CAGCCTCTGGTTTTTCTGGCCGTTTCCTCGCTGAGCGTTACAAAGGCAGAGTCTCTAAGGGAAACTGAAACCCGAGTTCTCTTCCTTCATTTTC
ATCTCATTACCAGCTGGACACAGCAGCCACACAGGAAGGAAGCTGGGCAGCCAGCCGGCCATGTGTGTCTGCCGGGTGCCCCACACCAGGTCCC
CTCCACGTGTCTGTCCTGTGTTCTGGGCTGGTAGCTGGAGGAGCGGGAAGCACTGACTCCTGAAGACCCTGGCTTCGCTTTCCTGTGTCCGTTG
GGCTGTCCACTTCTAAGACTCTCTTTGTCCCCCGCTGCCTTCCGTATTCCTCAGCAGATGGACCCGGGTGAGGATCCAGGGCAAGCAGAGGGGC
TACAGAGCAGTGAGAAGCAGGTCATCACTCACCATGGGTCCTGCCTTTTCTTTCTCATGTCCTTCCAGCATTTCTTCTGAGGCCCTGAAGAAGT
ATCAAGTGGGCTTTGACATTGCGGTGGTGAGAGCGACCCCTCCTCACCTGGAGAACTGGGAAATGTGGATTCTCAGGGACCGCGCTGTTCACGA
GCTCCAGGCTGTGCTGCTGGCCCTGGTCCTGGGGCGCTGAGCCGCATCTGCAATAGCACACTTGCCCGGCCACCTGCTGCCGTGAGCCTTTGCT
GCTGAAGCCCCTGGGGTCGCCTCTACCTGATGAGGATGTGCACCCCCATTAGGGGGCTGCTCATGGCCCTTGCAGTGATGTTTGGGACAGCGAT
GGCATTTGCACCCATACCCCGGATCACCTGGGAGCACAGAGGTGAGTGACGAAACCTGCAGGGGTGCTGATGGCCTGGGATGGGGACCTCACTG
CCTGGGATGCTGAGGTGGGTGGCTGGGGACGGGACAGGGACCCCACTTCCTGGGATGCTGAGGCGGGTGGCTGGGAACGGGACAGGGACTCCAC
TTCCTGAGATGCTGAGGTGAGTGGCTGAGGACGGGATGGGGACCCCACTTCCTGGGATGCTGAGGCGGGTGGCTGGGGATGGGATGGGGACCCC
ACTTCCTGGAATGCTGAGGCGGGTGGCTGGGGACAGGATGGGGACTCCACTTCCTGGGATGCTGAGGCGGGTGGCTGAGGACGGGATGGGGACC
CCACTTCCTGGGATGCTGAGGTGAGTGGCTGAGGACGGGACGGGGACCCCACTTCCTGGGATGCTGAGGCGGGTGGCTGGGAACGGGACAGGGA
CCCCAATTCCTGGGATGCTGAGGCGGGTGACTGGGGATGGGATGGGGACTCCACTTCCTGGGATGCTGAGGCGGGTGGCTGAGGATGGGATGGG
GACCCCACTTCCTGGGATGCTGAGGTGAGTGGCTGAGAACGGGACAGGGACCCCACTTCCTGGGATGCTGAGGTGGGTGGCTGAGAATGGGACA
GGGACCCCACTTCCTGGGATGCTGCGGTGGGTGGCTGGGGACGGGATGGGGACCCCACTTCCTGGGATGCTGAGGTGAGTGGCTGAGGTCGGGA
TGGGGACTCCACTTCCTGGGATGCTGAGGCGGGTGGCTGGGGACGGGATGGGGACTCCACTTCCTGGGATGCTGAGGCGGGTGGCTGGGGATGC
TGGCATGTGATCTGTTGGATTCTCTGCTCTGAGAACTTTTGTCTGAGCAGACAGGCCTACTCAGCTGATCTAAGGGAGAGGCTGTGACAACTGT
AGATACTCAGCAAGGCTCGTGCAGACCTCCTGATTTGGTTTCTGAATCTGGGGACCCCTGACAGGAAGCTTCCCTCCCTCGTACCTAGTAATGT
TCGCGGCGTGCTGCCAAAGCACCCGCCCCACTGAGCGTCTGCTCCAGGCGCCTGAGAAGAACAGTGAGGCATCATAAGGATGCTCGTCCTACGT
GCAGCTGAGCCTCATGCCAGCTACTTTCCTTTCCTGCTGTTTAGTTTTTTTTTAGTTATTTCTTCTCTTGGAGGATGTGTCTGGGGACCCGGGT
TTCTGACTCAGTGGATTGAGAGCTTACACCCTGGGTCCTGAGCAAGGTGTTGCTTGCAGGTGGCTGAGAGCTGTCAGCAATATAGGCCATTGTT
GTGCTGAGAGAGAGGACCTGCTGCCTGTGTGCATCTCTCTTCCACATGGGAAAATTAGAACAGAAAGTATGAACACCTGACTCTCTTTGTTTTT
TCTCGAAGTCAGGGTCTGGCTCTGTTGCCCAGGCTAGAGTGCAGTGGGACAATCATAGCTTACTGCAGCCTCAATCTCCTGGACACAAGCAGTC
GTCCCACCTTGGCCTCCCAAAGTGCTGGGGTTACAGGCGCCCGCCACCACACCTGGCCCACCTGACTCTTAAATAAAGCAGACTCTTGGTAATA
TGTAAAAAGCCAAGGTCAAAATGCTCAAATTGTTGTCAGGACAGTTGAAGAAACAGGTCCTAAAAAAAAATAATGCTGATACATTTATATTATTC
TTAAGCAGCTATTGCTCAAATCTTCATTTTCCTAAGTAGCTATTGATACAGTAACCTAATAAGCAAAGAGACGTCACTTGTTTCTCTGTCTATA
AGTTTGTGGTGGTGATCACTGAGAATTGCATTCGTTGATGGATATATTCTCCAAAAGAAATTTTGTGAAGATTTTGAAGTAAAACATTCTTTTC
CTGAATAAGAAAATCCTAAGTCATTGTATTCCTGTACACCTAATCTGTGGATGACAAGGCATGTAGACCAGAGTTGGGTGGGCAGAGGGTGGGA
GCCATCACAGGAAGCATCTGGCAGAGCAGGGTTTGGGATTCTGAGGGAGCAGGAAGGGATGTCCGACTCACAGCTTCAAAGTGAGCA
CACTGGCTCCGGGCTTGAGCTCTAGGGCTGTGAGTGGTTCCCATGAGCACACCTGATGGCTACACTGTGGGTCTGGCGTTGACTGAGGCCACCT
CCACTGTAGCAGTGCCTGTTGCAGCAACACATGGCCCTCGAGACATGACTGCACCCAGACGTGCTCATTGTCACTGAGACAGGGACCTAGGATG
TGCTCAGGTTTAAAAATGCTTCCATCGCTCTTTTCTTCCTCCCACTCTGACCCTGCCCTTGCATCCCACAGAGGTGCACCTGGTGCAGTTTCAT
GAGCCAGACATCTACAACTACTCAGCCTTGCTGCTGAGCGAGGACAAGGACACCTTGTACATAGGTGCCCGGGAGGCGGTCTTCACTGTGAACG
CACTCAACATCTCCGAGAAGCAGCATGAGGTACGTCCTGGGCTCCCCTGCATGTCCACATAGCCCAGCTTGAGTGGGCAGCCTCTCCTGGCCCC
ACTGTGGGGCTGGGGGCTGACTTACCTGGAGCCTCCATTCTGTAGCTGTGACCATGCAGCCCCATCTTTGGGTGTCCACCAGCAGTTCACCCGG
GGACCACCCTCTTTGCTTTTTTTTTTTTGAACTTTTTATTATGAAAAAATCTCAAACATACCTATGAGCAGAGACAGCTATGCCATGAGCCCTG
TGCCCACTGCAGCTTATGCAAGGCCGGGTGTTCAGTCTTGCCTACAGTACCCTCCACCTCCTGGGGCATTGAGGCAGATCCCGACACCACATTC
TTCATCTGGGTATCTCTTACTGGAAAGGGCCCCTTGTCGTGCAAATAATCAAAAATAGCTTCTCCAAAATTTATATCATCATACATTCAGCCAG
TGTTCATATTTCACCGACTCTTGTGGATGATGCTTGTTTAGTTGGTTCAAACGTTTAGTTTGAATCAGGTTGCAACCACGCTGTCCCAATCCAT
TGCAGCTGGTCACCCTGTCCATTCAGTCTCCGCTTCTAGGAGCCAGCCTCGGTTTCCTTCCTGAGAAAGCTACTCTGCACAGCCCATCCCATGT
CCCACTCTTCACATTGCTCCTGATTCCTCGGTGTCTTTAAACATTTTAAAAAATCAAACCGAATTTAAAATTTGATTGTAGCTCACTGCAGCCT
CAAACTCCTGGGCTCAAGTGATCCTCTTGCCTCAGCCTCCTGAGTAGCTGGGACTGTAAGTATGTGCCACCACACCCAGCCCCACTCATGGTGT
CTTTAGCATGCACCTCTGTCTTCACATCCCCAGCTGGGTGTCAGATCCAGGCTCATCCCTCTCAGGGCTGTGAGGCGGGCTTCTCCATGGAGGC
AGGTGTTCCTCCTCCTCAGTCTCGGTGGCCTTTGACCAGCGAAGTCTAGATGCTCTTCTCATCAAAGATTGCAAAACGCAATGTTCTGATTCTA
CCTCTCCTTCTCTACTTGTTAGCTGGAAATCGTATAAAAGGGGAAGTGCCCATCACCAGCTATTTTGGTCCGTAGAGGTCCCATTTCCTTTGGG
AAATGCAGAATCGATGCTTGGAATCTTTGCCTTTATTTACCAGTTTTCAGAATAATGAGTTAATGAGTCAGTTTCCCCTCTGAAGGGCAAGAGT
GAGTTTTTTGATTGATTTTTAGTGTCACAATGAAGTCATAGATTTAAAGATATTTGCTCTTCTTTGACCCATCACAGTGAAACACCTACCTCAT
GCTCAAATCGTCGCATCCATGGTCAACAGCAGCCTGTTTGGGTTGGCTCCTGAGACCTCGCGGTGTGGGGTTAGTTTTCTTGCTCTCTGGAATC
TGTTCCAGGTTCACGCTGGACATTTTCTGCCCAGATCTCTTTTTGTTTTCATCTCCAGGGTCTAGCTTATTTCTCAATTTCTGTTTGACACATA
AATGAGCTCTGAGCATTATGCTCTGAAAACAAGTATTTGGCTGGGTGCTGTGGCTCACGCATGTTATCCTAACACTGTGGGAGGTCGAGGTAGG
CGGATTACTTGAGCTCAAGAGTTTGAGACCAGCCTGGGCAACATGGCGAAACCCTTTCTCTACAAAAACTGCAAAAAATAGCCAGGTGTGGTGG
CTCAGGTCTTGGGAGTCTGAGGTGCTTGGAAGTCTGAAGTGGGAGGATCACTTGAGCCCAGGAGGTCGAGGCTGCAGTGAGCTGAGATCATGCC
ACTGCAGTCCAGCCTGGGCAACAGAGCGAGACCCTGTCTCAAAAAAACAAAAACAAAGTATTCAGCACTGTGAGGCACTCTGAGCAGAAAGATG
TGGTGGTCTCACCTCACTCAGCTCTTACTCTTCGCGTGTCTGTTAAATTCTCTTCCTCTGAGCGCCTTCCTGACCACACAGGCTCACCATCGGT
CTTGGGGGAATTGTGGACAGTGTGTTTGTGCTGGCCCCACAGGTGTTCAGTGAGAGCCAGACATTGCTCTGTTAATGACACCATGGTGGTCCCT
CGGGGTTGGGGAGAGGCTTGGGGACCTCTTATACTTAAAAGAAAAAAATAAAGAGACCCCCGCCAAGCATCAGTGAAAATCCCTGCAAACGTGA

TCAAGAGTCTGTTGAAGTGTACGTTCCCTTGTCCTTATGCATTTCATGCGAGTTGACGAAATCATCTGTACTTTAAATGCTGAAGGAAGTGGCT
ATTTTAAATGAGACTCTGTTCCGCTTTTGTGTGCCCCTATCAGGACTTCCATTTCTATGAAATGACACTCCCTTAGTACTGTGTCTGCAGCCTG
GGTGCTGTTCAGGAACTCACAGAGTTAGTTAGAAACCTAAAGTGGGGTTCCTCTCCTCATACTCTCCCTCCTAGAAGCCCTGTGTGCTTCCTAA
CCTCTGAGTCCTGACACCTGCTACAAGCCTTTTGGTGGAGAAAAATACATTGTTACTGGTTTCTTTTGCATCAGTTATGGAACATCACAGAGAG
AGGGGGCATTTTGGGGAAGGTGAGGCAGAGATAGATATAGAAACCTTCCCTTTTGTCTTATGTTGCTTTCTATTCTGTGGGGGCTTTGGAGGGC
AAGGGGCTAAGGCCCCCACCCCCTGGAAGTTTCTGATCACGAATTGTCCCTGGTTTGAAAGAAGAGGTGGTAGGAACATGGATCTTACTAAGAT
GGTGCCTGAGCTGAGCTGGTGGTGTTAGTTCATCACTTCCTCCTGCTGCCAACATGCAAGTTTAAGGAATCGTAAATCTCCCTTTCTACTGATA
CAGTGAATATTGTGGCTTTTTTTTTTAAACTGGACTGTAGAGTCACTTTTTTTTTTTTTTTTTTTTTTTTTGAGACGGAGTCTTACTCTGT
TGCCCAGGCACACGAGGCTGGAGTGCAGTGGTGCGATCTCGGCTTACTGCAACCTTCGCCTCCCGGGTTCAAGAGATTCTCCTGCCTCAGCCTC
TCGAGTAGCTGGGATTACAGGCGCCCGCCACCACTCCCAGATAATTTTTGTATTTTTAGTAAAGATGGAGTTTCACCATGTTGGCCAGGCTGGT
CTGGAACTCCTGACCTCAGGTGATCCGCCTGCCTCAGCCTCCCAAAGTGCTGGGATCACAGGTGTGAGCCACTGCGCCCGGCCTGTAGAGTCAC
TTTGAATGGATGGAAAAAAGCCCACTTTGATGTTTGAAAATACTTATGGTTTAGGTTTTTGAAAAATAATTTAATTTTCTCCACTTTCACGAGT
TTGATTTTTGCTGCTGTTTTATGGTGAGTGATGGAACTTTTGGAGCTGGTCTTCCAGACTCCACTGGTTTCAGGATAAGGATCACAGTGAGGAT
GTTCATGAAGGCCCCAGGCTGCTCCCCTGCTCTCTGAACCTCCCTTGCAGTCTGAGAATTGATCATCTCAGGAGAAACCTCTAGGCTCTAAACT
CTATCATGTGCTTTTAAAATTGTGCATTTTTATACTAGTATCTCTTTAAAAGAATATGCACTGATATGGACTCTATCCCAACAGGTGTATTGGA
AGGTCTCAGAAGACAAAAAAGCAAAATGTGCAGAAAAGGGGAAATCAAAACAGGTAAATTTCTTTTGCAAGCTACAAAGAATCCCATTCAAGTA
TTTCTTGGTTGTTTTAATCTACTGAATGCCAGCATGCCTGCAGTGCAGGCCAGCCTTTTCTCCAGGCTCTGTTCATTCTGCTGGGCTTGGTTTT
GTTGTGATGCGTCTTGGAGCTCATCCCTCTATTCCTGAGTATCAGGATTGGGTTTCTCAAAGCAGGTGCCAAACATATTTGGCCTTTGAGAAAT
ACTTTTTTAAAGTTTATATGAATTGAATGTATTCAGATGGCCTGAAACTTTGACTACAGAACACTGGTGAATAGTGAAGCCCACTGGTGAATAG
TGCAGAAATTCAGGGTTTGTTCTGCTTCCTTGCACCCAGAGGCCTTAGGCTTGGAGGAGTTGCTAGTCATGCAGTTTTTCTCAACCCCTTCGTT
GGACTTGCGACAGAGATGCCCCATTTATTCGGCCTGCTGTGCTCAACCTCTTGCAGGAGGGAGCACATGAGTGAGCAAGTGTGGGATCTGGCCA
GCTGTTTTGGGTGCCAGCAGGAGCAGGCTTTGTGTGAGCCCTGAGGGTGGCACCCAGGTTGGGGTGCCTGTGACCCCCGCAGCCCCAGAGGGTG
CGTTACAGTGCTCTCTTATCTCTGCTCTCCATGGACAGTGGTGTGTTATAAGCTCAGTGGGCCCCTTTTCTCATTGTGTGGGACAGCTGTCCTC
TGCCAGTGAGGGCAAAGGGCCAGTATGACAGCCTTTTTTGGGTACACACACTCAGGGTCCTGAGCTCTTGTCCGGCATCCAAGAAGAATGAGGT
TGCATGGACACTTAAAGGATGGTGGAGTCAGAGAATTTTGTTTAGTGTTGGAAGTGGCTCTCAGCGGAGATGGGAGCTTGAGAGGGAACAGGAC
GAGCAAATAATCTTCCCTGAAGTCTGGCCAGCTCTGGCCGGCTCTTCTCCAAAGTTAAGCCATTTCTCCAAAATCCAGCCATCCCTCTGAAGTC
AAGTCACCTCTCTCTAGTCCAGCACCTTCTCTTCTCTATCAACTGAGTCTGGGCTCTTATAGGCACAGGATGAGGGCAGGGTGGGCTGTGGGTA
GTTTCGGAAAAGGCAACATCTGATTGTAAAAAGATGTTCAGAAAGAACCAATCGGGAGACGGCGGGCAAACAGGGATAGAAGTTCTCACTCTGG
GCTGCGGGTTTTAGGCTTTTTGGCTCACATGTGGGGTTTTGCCAGGGACCTGCCCCTGTCTGCCTAGACTTTCTCTGGCTCCTTTCTCTATCAC
TGGGACTTTTGGATTCTTGGCACACGTCCGTCCCTTTGGTCCCTCAGGCCCCTCAGTGTGGTACTCATTCAGGGAGCCCTGGGCCGAATACTCA
TTCCCGTCTGCAGCTCTAGGTTACCCTCATCACCCTCTGAGCCATCATGTCCCTACCTGGCACTGGGCATTCTTCCTCAATGGTGGTCAAGACA
AGCTGAGTTAAAGGCAAAAAAAGAAAGAAAACCCAAAGAAGTCTATGCTAAACTTTCTTAGCAAAATGCTAAACACTTGCACTGAAGTCTTTGT
CTCTAAATCCAAAGTTAGATTAGGAAATGAGAGGAAAAGCAGGTGGTGCAGTGTAGCTCCGGTTTCCGGGGGTGTGCAGGTGGGTTGGGGTGAA
TAGTGAATTACTTCCAACCAGTCTAAAAAAGAGAACTCTCCTAATCTGGGATAATTTCAGACTATAGCACATGTAACGCAAGTACTTTTAGCCT
AAAATAGTGGGTTCTGAAATGGTATCTTTGTTTTCCTGCTTGGGCCTTTCTGATGCCAAGCCGGGCTCCAGGCTCTCCTAGTGCAGCCACTCCC
ATGGGGGCTGGACTGGGACCCTGGGTTGGGTAGACCTAGTGTCGCTGTTCCTAGTTCTGTGCAAGTTGGAGGCAGGGTGGGGTCTCCAGAAACA
GAGAGGAAATTCTGTAGGGTGGACACTTCTCCAGGCCTGGCAACAGAACAAGTGGTCCACGTACTTAGCAAGAGTAAAATATATTGCTTTCAAC
AGTGGGTGTCCCAGTAAGATTTGAGGTAAGCATTCATTGAGTTTTTTTTCAGTCACCACATCTTTGCTGAGTATCAATTAGGGACTGAAACAAA
ATCCTGTTTGGCACCTGAACAGCATGTGGACACTGCAGAGACACAATTACTCAGGCCAGTTTCAGCTTTAGGTTTGCCTAGGGGTGGGGTTGGG
GTCTCAGTGAACCTTCCACTGTACGAGAACAGGCCAGTGTGTGAAGAGGAGTTGCAGAGGGTCTAGATGACAAGACAAGGCTGAGAATGCACAC
ATGCCTCGTTGGCCTGGGGCCACCTGTGAGCTGGTGTTGGTGAATGTGGGTCTGTGCCCCTGAGATGAACGGCGTGAGCAGTTTGAATAGTGGA
GGGCATCTGGGCTGGACGGTTGCTAATGGTGCATTTTTCTTCCCTGCAGACAGAGTGCCTCAACTACATCCGGGTGCTGCAGCCACTCAGCGCC
ACTTCCCTTTACGTGTGTGGGACCAACGCATTCCAGCCGGCCTGTGACCACCTGGTAAGGCTGATGGGCACCTCCCTGTGCTCACGCCAGCCTG
GTCAGCAGTTAAAGTAGAAGGGGGCTCAAAGCAGACGTAAAGCTGTCTCCACCCTAAAAAAAAATAGGATTTTCTCAGAGCCAGCTGCAGAAAA
TGGGGGCAGCTTGTGGCCCCTCTGAAAGTCTTGCACAGCTGCTGTCAGGGGCACACAGCCCACTTGGCTCCTCTAAGTTTCGGTGTCCATGGCC
AAGGGTGAGGCCTGGGGTGCAGCTCAAGGTGCTGGGAGCCCTTGGTGCTAGTGCAGAGCATGCCATGGAGGGGCGTGCTGGAAAGTACAGACAG
CCTGAACATGGCATTGGGGATGTGCTGGGAAGGACAGGTAGCCTGAACATGCTATGGGGTGAGGGGACGTGCTGGAAAGGACAGACAGCCTGGC
AGCTCTGGGCATCTGGGTCAGGTGGAAAAGTCAGGACTTGCTCCTGGCTTGTGTGTTCTTGGTTGGTGCATCTGTGCTCTGGCTGTGGGACCCA
CCCTTCTGGTCGGCTGTGGTGTGCAGCTTGCTCACTGAACCACTCCTGGGTCCACCCACTCAGGGGCAGCAGGTCAAGTGTGCTGAGCACCTTG
AGAAGCAAGTCCGGCCTCTGTCCCTCACCGGCTCACATCCTTGACTGCCCAGCCTGGTATCCGGCACCTCCCCCTGTGTGACGGTCCTTTCTAT
CCAGATAATCTGATGAGCAATGTGATGATCATCAGAGAGGGAGAAGTAGCATTTTAAATAAGTCCATGTGAACATGGAAAATGAAGCACATTTT
CTACTGTGTATCCCTGGATTTTAATGAGTCCTGATAAATGTAAAATATGCCACAGTGAAAAGCATCATTTGCTAGAACCCTAAATTAATTGGAA
TTAAAATATTTTCCAATCTTGAGTCAGAGATAAATGACAAGACAACGTATGGCCTCATTAGAGACTTGATGAGGAAGCCTGGTATTTGCACACA
GACGTCTGGGGTGAGATTCATAGTAGGGGTCTACCCAGCTGCCTGTACCACAGATGCTGGCAACGAAACCTGATAGGGGGTGGGGGTGCTTTGG
GGATAGTAAGACCCTCAGTCCTCAAAGACAGTCGTTTGTATTTACTTTTGTGCAGAAAGTACGGTTGGACCAGAAACATTTTGCACAACAAAGG
ATTTTTCTGGCTAAACTCAATCAGAAGCTTAAAGTTCTGTCATTTAAACTTACATTCTGTAGATAGGTTAGCTGTTGAGGTTAGAGGATACTGT
ATTTGGTTTAAATTTAGACCTATAATTTTTCCTAATTTTTTTTTTTTTTTGAGACGGAGTTTCACTCTTGTTGCCCAGGCTGGAGTACAGTGAT
GCGATCTCGGCTCACTGCAACCTCCATCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGATTACAGGCATGTGCCACCA
CGTCTGGCTAATTTTGTATTTTTAGTAGAGATGGGGTTTCTCCATGTTGGTCAGGCTGGTCTTGAACTCCTGACCTGAGGTGATCCACCCGCCT
TGGCCTCCCAAAGTGCTGGTATTACAGGCATGAGCCACCACGCCCCGTCAATTTTTCCTAATATTTTTAATAAAAGTTTCACAGCTGCAGAAA
AGATGTATCACTTGTATATCCTGGCAACCTAGATTGCACAATTGGGAGTGTGTGTGTGCACGTGTCTGTGTGCCTGTGCATGTCTATGTGTCCA
CATGTGTGTCTGTGTACATATGTGTGCTTGCTGAACTATGACCCGTGACTCCCAAATGCCTTCACAGGCATCTCCTAAGAATAGTAACATTTTC
CTATGTAACTTCAGTTTTATCATTATATCTAAGAAAACGTTCAATCATTCCCCAGCATCATCCAGTCTCCAGTCCCCGTTCAGATTTCCCCAAC
AGCCCCGAAACCTCCTTTCAAGGTATGCTAAATGGTCACATCCAGTGGGGTTCACATTCCCTAACCTAACAGGTGAAGAGCTGTGTGCTGCTTT
AACTGGCCTTTCAAGGGTGTCAGCTGCGGCCTTCCACGTGGTCTGAGCCTTCCTGCTCTGCTTCCGAGAGCGTGTTTCCAGCCAGCCTCCTGCA
GCAGAGGTGCTGGGTGCCCTTGCCCCGCCGTGGGCCCTGCCTGTCTTCAGCATGCCCAGGCTGTTGGCTGCAAAGTGGCATCCCCACGCGTGTT
CTGTGTGCTCTCTGGTTCCCGGCAGGCTCAGCCCCTCTCTCGTCTGTGCTGTCCAGATGGGTTTCTTCTGTCACTTGCTGGATTTTCCCCTGTTT
TTCTCCTGGATGCCCTTTCTCACTCGTTTGTCCACACTTCTCACATGTTCAGGGATGGAGACACCTCATCTGCCATTCTGTAGGCATTTCCCCC
AGTTTGTCACATATTTAACCTTGCCGTATTATTTCCCCATGTGGAACTTTCCAGTTCTCTCTGTGGTTGGATCTGTGCATTGTTTTCCTCATGT
GGCTGTGGGCACTCTGGCCAGGTAAAGAGAGGACCCCCAGATGGAAACGCCAGCCCCTGCTCTGTTTTAGTACAGTGCGGTTCTGTTTTTAGTA
TTCAGATGGTTGATCCATCTGGAGTGTGTTTTGGTGGGTGGAGCGACGTAGAGATTCTGCCTGTTTATGTTTTTCTGCTTCCTATTTATTGGGT
CACCTAGCTGCTTAGAATGCCGTCTTTATTGATGTTAAAATTCTGCTCATGGGCTTCCGATTACATACTGAGCACGTCCTGTGTTGGGTTTATC
CTGGTGGCTTTCCAGCCCTAGAGCCATCAGCGTTGCCATTTCCATTTTGCAGATGAGTAAATTGAGGGTCTGAGATCTTGAGAAGCTTGGCCAG

GGCAACGGAGCAAGGGCACCAAGGTGCTGATGTCTAGACCTGAGCTGAGCAACACAAGCCCTGGCCCTAGTGGGCGGGACTCCTGTAGCTCCAC
ACCTATCTGCTCGGCCCTGTTGGTCTTCCGAGAAGAGCAAATTTGTAAAATGAAGTGGTACAGAGACACATTGTTACTATAGAAATTCAGCCAT
CTGATGATGTGCTCTCTTTTTATTCAATTGTAGAACTTAACATCCTTTAAGTTTCTGGGGAAAAATGAAGATGGCAAAGGAAGATGTCCCTTTG
ACCCAGCACACAGCTACACATCCGTCATGGTTGGTGAGTCCTGCCCCTCCAGTTCCTTCACCGTGAAGATTACAGTGGCATGTTAATTACCAAA
CAGGATATTTGGATCTTCTCTGAAGTGCTGTCTTCCTTGGCTTTGTTTAAATAGGAGCTATCCTTACAAAAGGCACATGTGACTGCATAGACCC
TTTAACTTTTGAATTCATTGTTTGCAAGGATAATAGCCGCCATGGTAAACGTCACTTTGTATCCATTGCTGGCTCATGTCATTTGGATAATCCC
CGCGTGCTGAGCAGATGCTCCTGTTTGAGAGTAAGGTTTTGACTGAGCCACATGCTGTCTGCAGTGGTCTCTCACCTCTGAGCAAGTGGTCATA
GCCTGGTGTGTACCCACTGTTGCATCTGCCAGCATTTTCCTGGATGTGGGAATTCCTTGCTCATGTTTACTTATTGCCCCATGACTCTTAAAAT
GCAGCTGAACATGGAGCATGAAATTATCCCCATCAAAGTGAGAGCACACCTGTGGTCCTAGCTACTCGGGAGGCTCAGGCGGGAGGACAGGAGT
TTGAGACCAGCCTGGGAAACAGCAAGAACTCATCTCAAGCCAGGCTCAGTGGCTCATGCCTCGATCACTTGAGGTCAGGAGTTCAAGACCAGCT
GGTCAACAGGGTTAAACCCCATCTCTACCAAAAAATGTAAAAATTAGCCAGACATGGTGGCGCGCACCTGTAGTCCAAGCTGCTTGGGAGGTTG
AGGCAGGAGAATTGCTTGAACTGGGAGGTGGAGGTGGCAGTGAGCCAAGATCGCACCACTGCACTCCAGCCTGGGTGACAGAGTGAGACTCTGT
CTCAAAACAAAACAAAAAAACCTCATCTCGAAAAAGAAAGAACTAGAAGACACAGGACACCCCAAAAGTTGAGGAGACTGTCTTTCCCTTTCCC
CAGGCAGGGACTTAATTGGGTTATAAAGGAAAACACCGTGTTGAATGTTTGTCCCAGTGTTGGTGCCATAGCCTGAGAGGTTGGTTCCCTTTTC
CTCTTTTCTTCTGGGCCCCTGCAGATGGAGAACTTTATTCGGGGACGTCGTATAATTTTTTGGGAAGTGAACCCATCATCTCCCGAAATTCTTC
CCACAGTCCTCTGAGGACAGAATATGCAATCCCTTGGCTGAACGGTAAGGAAGAGCAGTGCACCTTAGTGGGAGGTGCGTGTCTCCTCATGAGT
GCACACCTGTTGATCTCTCCTTTTCTGTCTCTGAGCCCTGGGGGCCCCCGAGCTTGTGTTAGCCCCTGTTTGTGGGGGATACTTCCCAAACTGT
CCAGCAATGGCCAGAGTCCCAGGGCACCTTGTTGGGTGTTTTCACTGGTAACAGAGTACTGTTTTAAGACAGCTCCCCACTAACCCCCAAAAA
TGGATTTGGGAGACTCTCATAAAATTGAGAATCTGATAGTAGATGGTAAACTAAGACTAATCAGATGGGGACATGGTATAATTTCCAGAATGAT
ATTAAAGTGTGGCACCAACACTGGTGTGGGACCTGCCTCCGGGCCCAGCCTCTAGTGCCCGGTCAGATGGGCTCTGGGTGCCTTGTTGCTGCCA
GCAGCACATGTCCGATGTCCGTCTTCAATGTGCAGGAAGAAGCTGGTGGCTGTTCATGGGGGCTTTTCTTGTGGGTGCCAGCCAGTAGAGCCTT
GGGTTTTGAACCTCTTGACCTTAGGGCAGATCCCAAGACCCCAGATTCAGGGACAGTCGGCCATTCCTCAGGGTGGGGCAGGATCTGGTGGTTA
GAGTTTGTTTATGTGAAGCATGTGTTGTTTTAAACCAGCAAATGCATGCCTTACGTAGGTCTCTGATGCTGGTACCATCTGGCTCCCTGCCTTCC
AGTCAGGAGGCCCAGCCTCAGTTCTTGGGGTGAACCTGGGTGGGATGCACTGCAGAACCACTGTCGGGGGCACCTCTCTGAGGCCGAGGAGGTC
GGGGTAGGGCACCATCTGGGCTCAGGGCTGTCATCATCCTCAGATCCTGGAGTTTCTGTTTGGATTGTGGCATGTGCACACTCCAGACATCCTT
GCAGGGAAGCCCTCAGGCCCCCAAGGTAGTGTTGGCCGGCCTCGTGACCTCATGGGTGCAGGCAGTCCCCCAGCTCTGTGTTCTGGGATAATCA
CTGTCCTCTCTCTGCAGAGCCTAGTTTCGTGTTTGCTGACGTGATCCGAAAAAGCCCAGACAGCCCCGACGGCGAGGATGACAGGGTCTACTTC
TTCTTCACGGAGGTGTCTGTGGAGTATGAGTTTGTGTTCAGGGTGCTGATCCCACGGATAGCAAGAGTGTGCAAGGTGAGTGCCAGGCACTCTG
GCTTCGCTTGGCCCCTGCCATGGCAATAGTGTGCCTGGATGATGGGTGGCTCCTGACCTTCGTCTCAAATGTCACTTTCCCTAGCACTTTATTC
CCTTGGGCCTCAGATGCAGCTCTCAATGGATCTTATTTCTGGGGGTTGTGGGGACTGAGGGAGTGCTGGCCCCCATGTGTGACCCATTAGCCTC
CTCTTCTCAGGAGGTTCTTTCTTTTAATGCACCCTCTTCAAACCTCTAGCTTATAAAAAGCAAGGCTTTGTGGAATGTATTCACCAGAGTCTGT
TGGAATTTCACCATTTGGCTCTTAATCTACCTAAGAGTGAAACATTAACCGACAGCTTAAGATTAAGAAGAGAGAACCAATACAGAAGTTTGTC
AAAACACAAATCTTTAAGTACATTAAAAGGGGAGGGTGCCTTTAAAATGACACACTGTAGGCACAGTGCTCAGCACAAGAGAATGGCCTATGGG
CTTGATTACAGGAAATCTCAAGGTTGCTCAGTGGCAGTTTCCAGGAGGTGGATTGTCAGGCCTCAGGGGAGCTGGGGGAAACCACATGAAACAC
AGCCGCCATGTCCCTGGCCAGGAGCTCATCTCGGAGCAGGTAGCCATTCGTCTCTCATGGAAATTGGTAGATAGTTCTTGCGTGGCCCTTCTC
ATGTAGTCATGACCATCAGGACATCAGAGAAGCAGGGTTCCTTTCATGCCTATGGCGCACAAAAGTGGGTGCCTTTGACACCGTTCCCTTAACA
GCCCCTTGCATAAGGAAGAAGGTTGGGTGATGTGCACACCTGAGTATCCACCTGGTGCTTTGCTCCCTGCCCAGGCCTTCCGTAGCCAGGGCTC
ACTGACCAGATCCTCCAGCTGCCCCCCAGCCGTGGCTGCCATGCTCCTGTCTTGCAGACCAGGAAACCATCCTATCAACAGTATCAGTGTTGGG
GGCAAGCCAGTGCCCCTTGAGATGGGGAGGGTGCTGCAGGGCCAGAGCTCCTGGCAGGCGTGCACAGTGCTCAGAATGCTGTCAGAGCAGCACT
GGCCAGGGGACTCGAGCCCTCCCCTGCCATCGGGAAGCCAAGGATCAGACTTGCCTTGACCTTGACTTATTACCCAGCACTGAGGGTTTGCAGC
AGGATCAGTGAGCAGATTCAGCGATGCACAGAGCAGCCACCTCCACCCCCGACAAGTTTCTACAAGTCTTAGGCACACTGCTGTCATCCCCTCT
GATCCCCTTTTTTTTCCCCATACTTGTTTGAACTCCTGGACTAGGGTGGTTTGAGCTTAGGCCCCACAGCTCCTGCCTACCACGCAGGCACACAT
GAACCCTTCACCTGCTGCCCGTGACCTGAAAGCCACATGAGACCCCTGACGAAAAATGTGCTAGAAATTATTCTTTGCTAAAACATCAAGGAGG
AAAATGAAGTCCTTTTATCAAAAAGAGAATTTGGGCTCCTGTAATCACACAGCAGAGATGAAGGGGGAACATTTTCCCTGTGTCCAAAATAAGT
AAGGCTGCTTCTATTTCATATTCTTCTGCACTCAGGTTTTGTGGTTTCAGTATTTCTCTCCAGACCACACACAGTCATGTGTAGTTTATAATTG
TGTCTTGGTCATCGGATCCCTGAAAAGCGTTTATAAAGAACTTAGGTTCAAAGCACTTTAGCAGATACTTTGGGTAGAAAGGAAGTGAAGGATC
TATTCCTTTAAAGGGAGGAAGGTTCACACATTTGCCCAAGACAGGCTGCAGGGCCGGTGGCTGTCCCCTGGAAGGAGGCTGCCGCCACTTGCCC
CACCCAGAGCATGTTCATTGATGGGCCCTATGTCAGGAAAGTCACACAATGCCAGGGGCCTTGGCAGTTGGAAGTGTGTGAGCACGGCAGCACC
TCTGCGGTTGCAGGACTGAATGCTGGGCACAGGCAGGCATGGACGATCAAATGAGCTTTCAGTGAGAGGGCTTTTGTCCGTTTTGTTTTGTGTG
TTAACCCAGGAGCGTTCTGGGATCCAAGCTGGAACCTGGACGTGGTGCTGCGGGCCACTCACATAATTGCGGCATCTGTCTCCTGTTGCCCGAG
CTTTGTTTCAGTCAGGCACAGCCGCGCTGTGCTGGGCCATGGAGGGGTGCACCTCTGACCTTAGTGCTTGCTCACAGGGGATCCACTCTCGGCC
CACCACGTCTTCTTGTTGGGGTTTTAGGGGGACCAGGGCGGCCTGAGGACCTTGCAGAAGAAATGGACCTCCTTCCTGAAAGCCCGACTCATCT
GCTCCCGGCCAGACAGCGGCTTGGTCTTCAATGTGCTGCGGGATGTCTTCGTGCTCAGGTCCCCGGGCCTGAAGGTGCCTGTGTTCTATGCACT
CTTCACCCCACAGCTGTAAGTGCCCTGGGTGGAGTCCCCCTCCTTGCTCCCTTGATGCCGCCAGGTGGTCCCGTCACCTCTTTCCCCTCCCAG
GAACAACGTGGGGCTGTCGGCAGTGTGCGCCTACAACCTGTCCACAGCCGAGGAGGTCTTCTCCCACGGGAAGTACATGCAGAGCACCACAGTG
GAGCAGTCCCACACCAAGTGGGTGCGCTATAATGGCCCGGTACCCAAGCCGCGGCCTGGAGCGGTGAGCTGGGGCACTGGGGGCGGGCCGTGCT
TTCCCTTCAAGGCCCAGGGCATGGAATCCAGTACAGGCACTGGGGCCTGCTCATGGGCTGGGTACCTGGCCACGCCAAGGCTCTCTGCATTGGG
ACAGGGACGGCCGATGAGCACAGCTCATCCTTCTTCCCTTTTGCATGTTACGTAACAGCCATTGCTACACTATTGCACAAACAAGAAGGCTGGG
GCAGCTGTTTTTGCACAATTAACATTGCATAACAATTAGGTCTGTTTCATTTTCAGTTTCTTACAGAGAAACACATGATTCCTTGGCAAAGGCCT
CTGCACTGTCCACTAGTCAACAGGAGTCACATTTTTTCCTCCTAAATATAGTGAACTTTATGTAGAAATTGGGAATTTCCAGGCCGATTCCTTC
CCTCACATGGGGAAATGGGTGTGACAGGCATGTGCACAGCCCTCTGTGGGGCTGTGACCTACATGGGGTGTCCTGGCCCTCAGAGTTCACTGCA
GCACCAGCTCCCTCCCAAGGGCAGCTGTCCCTGACACCATCATGGCTCCTTCTATGCATAGCTTCGTAAAATGTGTTCACTCATGGTCACAGAT
TTTGGTTTACACACATCAGGGAGCTAGAACAGGAAAAAAGAATCCCTCAGGCTCTTATGCTATTTTAAATTGTCCTGGTTTTAGCCATGTCTTAG
CATTCTTTTCATGAGAAAGCTGCAAATCAGTGTTCTGTTTTTTAATTTCAAAAGCTCAATAAGTGTTTTTCACTTACAAATAGATACAAATTCC
TTCCCTGAGTATGTATCGTGAATGCAATTCTGTCTTGCAGATGTGTTTTATAACTGTGTCCTCTGCTGGCTGGGGAGAGGCCACCTTTCCTCAT
AGTAAAGTTATTCACTGCTACCCTCATTTCAAGGCATGCATTGTGTGGTTTCCAGGTTTTGCAGCCCCCCCTGCGTTGGCTGCTTGTGTGGAAG
CACCCGTTGCGTGGTGGGACACGAGCACGTTAACAGCGGGGATTTTCTCCCTGCAGTGCATCGACAGCGAGGCACGGGCCGCCAACTACACCAG
CTCCTTGAATTTGCCAGACAAGACGCTGCAGTTCGTTAAAGACCACCCTTTGATGGATGACTCGGTAACCCCAATAGACAACAGGCCCAGGTTA
ATCAAGAAAGATGTGAACTACACCCAGATCGTGGTGGACCGGACCCAGGCCCTGGATGGGACTGTCTATGATGTCATGTTTGTCAGCACAGGTG
GGTTCCGAGGGCTTGGCAGGCTTGACAGTGACAGCACATCTGTGTCCTCTGGTAGGAAAACTGGGAAATCCAATTATTCTTTCGTGAGTAGTTC
CATTGCCTCCCTCGAGGTGACCTGGGAGGTTTGTGGGAGCGTAAGAAGATTTCTGAGAAGTCACCACACCAGGTGGCTTTCAGATCTGGGACCA
CCAGGCTACTGGAGGTACTTGTTAAAAATAAAAATGCAAGTCCTGGCCTGTGGCTGGGCTGGGCTGGGGCAGAGGAGTACTGGCCGCCGAGGAG
TTGGGGCAGTGCCCACGCAGGGGGCAGGTGTGAGCCACCTGGGAGGAGGCGTCAGCCTGGCGTTTCCTGACTGCTGGCAGAGGACCACGTCCCT

GCTTCCTGGCCGAGGAGCCAGGTTTTAGATGTGCCCTGGCATGTGGACTCTGAAATAAGCACTTCTGGAACAGGGACAGGGGCCAGGAGCCACG
GTGGCTGGCAGCGCATTGTGGCCTGCCCTTGGAGCCTCCCAGCCAACCTCACATGCCCCCTGTCCTCACCGCCTGCCTAGGGCACTTACCAGTG
ACACCCCGAGGGCTGGTGGAGCATGGGAGCCCCCTCATGTGGCACTTAGCCTCAAGTGTAATGTCGACTGTTGGTGAGGATTCTTGGGGTCAAC
CATGGAACAGTTTATTTCCTTGGAAAAAAACTGGAATAACCCATAACACTTGGGTTTCCAGTTGTCTGTTTTGCCAAAGCCTTTTCCTTTTTT
TGTTTCTAATGCGAAATCATCATTGTTTTCTAAGTATCTGTGGAGGGAATGACTTGAGAGTGAAGAGTGTGAAGTTTGCCGCTGTGGTCACTGT
CCTTGGTTTCTGTGTCTGGGTTAGTGTCACTGACCTGTAGCTTTGGCCCTGCAGACCGGGGAGCTCTGCACAAAGCCATCAGCCTCGAGCACGC
TGTTCACATCATCGAGGAGACCCAGCTCTTCCAGGACTTTGAGCCAGTCCAGACCCTGCTGCTGTCTTCAAAGAAGGTAAAGTGACGCAGGCAG
CTGGACCGGGGGCTTCTCCGCTCGGTGGCTTTGATTCTAGGTGACAGGAGAGTTGGCAAGCTGGAGTCGGGCTCCTGGGCAGGCCCCTCTGTCT
GTCTGCCCTGGGTGAGCCAACCTTCAGAGTTTGACACAGAGCCATTCCGTGAGCTGTGGGATCTGAATTGGGGAAGGCAGGAAGGCAGACCTGG
GGAGACGGGACTTTCTCTTCGAAGTTGCTGGAATGTCATTGAGTTGTTGGTGCAGCTTTACAGGCTGTGGAGAGGTGGGCACTGCTCCATGAAG
ACACCTTTTTATGCCCTGAGCTTGGGGGGTGTGCAGACTGCATCTGTGGGATATGATAGTGATACAGCTGACTCGTCACCGTGGAAAATCCACA
AGAGAAGTGGTTCGTCTCATCTGTAAAGCTGTCTCCACCTGTGGCTGAGACTCTGGTCTGGCCTGCAATACTCCCAAGCAGCCCTTGGCAGGGG
TGGGTGGGCGGGCATCCACGCTGGCCTTTAGGGGGCTGCCTCCCTGGCCCTGGCTCCTAACGGGACCTCCAACCACCTTGTGGGATCCAGGCCC
AGTCAGTCCTCTCCTCCCTCAGCTGGGAGCAACAGGCAGAGGAAGAGGGCCCCTGTCTGGCCGGGTAAGATACCTACCCTTGGCAGGTGCGTAT
TTGCAAACACCCCTCCAGGTCTTCTGTCCTCTTCCCTCCCCTGTATCCACAAAGCTTGGGAGCCTGGGTCCTTTTACGTGGTCACCTCCCCTCT
GCTAATGGAGAGTTCTCCCTCAGATCTGAAAGGAAAAGAGAATGAAATAGCCTGAGCAAGTTATAAGCCACTGGGTACTGGCATCTGTTCACCA
GCCTCTCGGTCTCCAGGACACAAAGGGAGCCCTGGAGATTTGAAGGGTCGACGCTTTAGCCACTGTGGGGCCTCACCCCAGCCTCGTTGTTGAA
AGAAGGGGACCCAGAAGCTCTTCTGGGGCCATCGTGCTGTTCAGTGGCCTCAGCCAGACTGGGCAGGCACCTACAACATCTCTAAAATGTGGAC
TTCTCATTAGAATGAAGATTGGGCCCCTGGTGTGGACATTCGTGAGAATGACACTCTGTTCCAAGGGTCACTTAGGGACCCAGGCTGGTGGAGG
CTTCCAGGGCACATGGGCACTGATCCTCAAAGGCAGAAGGGGGTAGGAAGAGGAGGGCCGCACAGAGGGGGTTACGGGTCAGTGCCCACCCGCC
ATCTCCCAGAACTCGGTCACATGGCCACACCAGGGCAGCTGGCCACACAGGGAGCCTCGCGCCCAGGAGGAGGAGCCAGTGGGTTTGGGGAAGC
GCTTGCTGGTCCTACTGGACCACCCGACCCGCCTGTCTCTGTAGGAGCCTCCATTCGTGGGGACGTGGCTTAGTTGCCTGGACAAGCGGAAATA
CATCCTGCCTGCCGTGGGGTCCTGTGCCTTCTCCTTGGGCCTCAGTAGGCTCCAGGTGGGGGTGGAAGGCCCAGCTCCATGGCCATGGCAGCAG
GAAGTGGCTGTTCAGTGGTAAAAAGACTGTGCCGCCTGACCCCATCAGGCTCTCTCACGGTGATCAGCAAATGGAGAAACGGCCAGTACCACGC
CCTCCCCCTGTCCTACAGCTGGGGAGGTGCGCTGTGCCTCCACCCTCACCTCCTCTCCCCTGATGACAAGCATGGGGTTTTGCTTTTATTTTG
GTAAATACACATCAGATGAAATTTGCCGTCTTAACCATTTTTCATTGTGCACGTCAGTGGCATTAAGAACATTCACGTTGTTTTGCAGCCATTA
CCACTGTCTGTCTGCAGGGTGCTTTTCATCTTCCCAAACAGAAGCTTTTTACCTGTGAAATACAAACTCTTCATTTTCCCCTCCTCCAGCCCTG
GGCAGCCGCCATTCTGCTTTCTGTTTCTGTCTGGGTACCTCATATGAGTGGAATCACACAGTATTTATCCATTTGTAACTGGCTTATTTCACTT
AACATAAAGTCCTCAAGGTTCCTCCCTGCTGTAGCAGGGGTCAGGGTTTTCCAAGGCTACATACTCCTCTGTCGTATGTGAATACCGCATTTTG
TGAGTCCCGCATTTTGTGTGTGCGTTCATCCCTTGATGGACACGGTTGCTCCCACCTTCTGGCTTCTGTGAACAGTGCTGCTGTGAACGTGGGT
GTGCAGATACCTCAAGTCCTTGCTTTCCATTCCTTGGGCGCACACAGCAGATGCGGTTTGCTCGGCCCTCTCTGAGCCCACCGAGTAGGCTGTG
TCTGTATTTTCACCAGGACTCCTTGGGATGCTGAGCTACAGCTAGCGTGGCAGAGGGCAAGGAAGGCACTTAGACAGCTCAGTTGCCTCTGATC
ACGTCCACCGTCACTCCAACCTGCCCTCGGGGTCTGACGCGCACACACAGCAGCAGAGACAGAGATGGGAGCATGAGAGCTGCCTGCAAGGGGA
CAATCCTCAGGCCCAGGGAAGGCGGAGACAGGGGGCGTCGAGGGGCAGGAGTGCACAGGACAGGCTTGCTCTCAGCGGGCCTCACTCATGCTGC
CAGGTGCCTGGTCAGGCTTTTTTTCTTTGCCTTTAAAAATTTTGTCTTGAAATAATTTTAAATTTACAGAAGAGTTTTGATGATTGCACAGAAG
GATCTTGAGCGCCCCCACCTAGCTCCACATGTCCGATGTCTCACATAGCCAGTGTGCATTTATCTGAGCCAAGGTGCTGTCATGGTGCAGTGCG
TTACCTGAACCCCAGACCCTGGACCCTCCTACCTCCCGCCCACCACATTCCTGGCTCAGCACCTCAGGTTGCACTGGACACTGCATCTCCTCGG
CTTCTGCTCTGTTCCTGCCTCCCTGACCTCAGCACTCCTGGAGAGGAGTAGTCTGGTGTTTTGTGGTGTGTCTGGTGTATTCTTGTGATTATCT
TGGGGTCGTGGTTTTAGGGGGAGCACCAAAGAGGGCGCTTTCTGGGGATGGGGCATCTGTATGACTCGCACCAGCGTGATGACCTTGGTCATTC
TGTCCAAGTCACCACCGTCTTTTTCCATGTCGAGTGTGTCGGGGCATGTAGTCCACACTGGGGGTGGGGGAGAGTGAGCCCCACCTCCCAGGGG
AGTCATGTGGGAAACCCCCACAGTCATTCATGCTTATTTGTAGGGACAGACTTGGAGGCTACAGAAATGCCCTGTTCTCCCACCCACTGACATC
CACATTGACCAGTGGGTCCTGCCTGCAGCAGTTACAGCTGGCTGTCCTGACGACCAGTTCCTCCTTCCCTGTCCCCTCTTCCCTTCCACAGTCA
TCCCTTGGTCTCTGTGTGGCGTCGTTTAGTTTTTAAAGCTTAGTTTCATTTGGGCTGCAGCCCAGCCCCATCCGGGAGAAGCGGAAGCTGGGGC
TGAGTCTCCCGCAGGGTGCAGGAGGTGGTCTGGATCCCCTTGGGACAGGCCTTGCCCCCCAGAGCCCACCCCACCCTCCACAGCTACCCTCAAG
CCTCTCTTTGGGGTGAGGAGTCAGGCGGGCCCCACTTGGCCACCCAGGGCACCCTGCTCTGCACTGCATGGTGTTCACGCCACCTCGCAGGTGC
CCCCTGCGGGACCCAACAGGACCAGCTGTCCCTTGGAAGTTACCCAGCTTGGCTTTGCTGCCAGAGAATGTTTCCGCCACCTCCACAAGCCGCG
CGATGCCCGAACTGTGATCTGGGATGTCATCCTCAATCCTTCCCACAAACGTGGCTCACACATGGCCTCATCTGCCCAGGTCTCTGCTGCTGCT
GCTGCTGTGAGGCCAGCGGCGGGCCAGGTTCCCTCTGCTGTGTATTATCACAGTTTCCATCCTTGGGGGCTTTCCCTTTCTCTCGTGGGTCTGT
GTCCGCACAGCTGGATGTGTGGCCTGGGGCTTCCTGTATTGGCATCAGGGCCTGTGATCTTCCAACCACACTCTGAAGTTGACTCCGAGCGTAT
CCTCTGAGGATGAAGGTCGTGTTTCATCTGACTGTAAACCACTAAGTCATGTGTAAATTTGGGAATCTTGTATTGTTAACCAAAAGGTGTCCCC
AGGCTGTTGAGGCAGATGCCCTGGGCAGAGGCTAGAGAGCGCGCTCCACGGGCCACCTCCAGGTCTGTTGCACGCCCCCGAGCTTCAGGTGGGT
GCACTGCATGTGGGGCACCCTCCTTCCAGCTGAGTTCCGTTCAAAAGCAGTCAGCAGCCCTGGATGCCTGTGTGCTGGGCACTGCTGGTGCCAG
GTGGGCTGATGGGATGGACCTGAAGCTGGTGTCACTGGGAACCAAGTGTCCCAGAAGGTGGGAGAGTCTCACCTGCCCTCTGCTGTGGGTGTGG
CTGCTCTGGAGCTCGGAGGTTGACTTCCCGTCTGTGAGCTCTTCCCTTTTACATATAGATAAGTGAAAAGCAAAAGGCATTGTTCCTTTTTTAT
GTTTTGTATCACGATCTCCTCATCCTTTGCATGTCGTCCGTTTGGCATCCCTGTTATGTTAGGCCTCTGCTGGATCCAGACCCTCACGAGAGGC
TCCCCGCCCACAGGTGCTCACATTCTGGCTCGGGGGACGAGGTTGGGCTTCGAGGTGGTGTGCTTCAGCCTCTGGCTGCAGCCCCTTCTCACCT
ATAGTGAGGCCGGGAAGATGACCGGGAGTGCCAGGCTCATGCATCCTCTGCTGCAGGGAGGAGATCTGGAGGTGGGGACTGAACAGCCTCCCCA
CTGGCTAAGAGAAACACGTGCAGAGAAGCGCTTTGCTGGAGGGCAGGCACCTGTGGGTGCCCAGACAGGGGAGAGAGGGATTTGGACCTAAGGC
CCAGTGAGCCCTGACATAGCACGTGGATTCTGCAGGAAGGTCACAGACCTGCCTTGTTTGCCTCTGGTTCTGAGTACCTCTCCTCCTTACTGCA
ATGTCCCCTGAAGGTACACTCTGGCTGCTTCCCACACACTGGTGCAGAAGCAGAGGCCATGCTCCTGGATGCCTGCTTGCCTGATGCTAGTTCT
TCTCTGTCTCATACACGCAGGGCAACAGGTTTGTCTATGCTGGCTCTAACTCGGGCGTGGTCCAGGCCCCGCTGGCCTTCTGTGGGAAGCACGG
CACCTGCGAGGACTGTGTGCTGGCGCGGGACCCCTACTGCGCCTGGAGCCCGCCCACAGCGACCTGCGTGGCTCTGCACCAGACCGAGAGCCCC
AGCAGGTATGGGGCGGGATGCGCTGCCTGGGGATGTCCCCCATGTGTGTGGGTGAATAACACGTGCCGGTTGTTTTGCAGGGGTTTGATTCAGG
AGATGAGCGGCGATGCTTCTGTGTGCCCGGGTGAGTGACTCCTCGACGTCCCATTTCCTTTGGGAGTGGCGAGGTCTTGTAGCCATTTCACGGT
GCTTCAGTTCTGTGGCATTTGTGTGTGTTTTGTTTTTCTTTCTCCACTCGGAACAGAGGTCAAGTGTTCTGTAGCAGACTCGTGGTCTTCTCTG
TCTTTTTTTCTTGCCGAAAGAGTACTTGAAGCCACTTAGAGTGTATCTGCTTACTGGGAAGCAGTCTCCTTCCAAAACCATCCTGTTTTCTTTC
TGCTTAGCTTGGGGCTCATTAAGCAAAACCTAAGCCTGTTATAAATGGGGAGAAAGGAGCCCATGAGTGATTAATCCTCAGGCAGTGTAAGGGC
TGGGGTGGTGTTTCCCCTGGGGCTCCCACCTGGGATTCACCCGCCTGTGGATGTCTGAAATAGCACCACACCCAGAGGGAGGGGTGGCATCAGG
CCAGATGCCCCTTCCCCAGCAGCCACCTTCCAGGGTGCTAAAGGCAGACTTGACCCTCAGTTCTGTGTCTTCCTGACCCTGACAAGACAGCTGT
CATCAGACTAAGAAAGGTTTAGGCAGCTGGGCATGGTGGTACACGCCTGTAGTCCCAGCTACTAGGGAGGCTGAGGCAGGAGGATTGCTTGTGC
CCAGGGGTTCAAGGCTCAGTGAGCTTATCATGCCACTGCACTCCAGCCTGGGGTGACAAAGTGAGACCCAGACTCTAAAAAGAAAACAAAAGCT
GGCCGGGCACAGTGGCTCATGCCTGTAATCCCAGCATTTTGGGAGTCTGAGGCAAGAGGATCACTTGAGCTCAGGAGTTCGAGACTACCCTGGG
CAACGTGGTGAGACCCTGTCTCTACAAAAAATACAAAAATTAGCCAGGCCTGGAGGTGGTCACCTGTAGTCCCAGCTACTCTGGAGACTGAGGT

GGGAAGATCCCTTGAGCTGGGGGGGTTGAAGCTGCAGTGAGCTGTGATTGCACCACTGCACTCCAGCCTGGGCAACAGAGCCAGACCCTGTTTC
AAAAAAAAGAAAAAAAAGAAAAGTTTAGGCAGGAGGAGAGTGCTGAGATGCACTGAAAGGCCAGTCTTCCTTGCAGCCATTAGCAGAAGCGTCT
CGTGTCTGATTCAAAGAGCTGACACTAGGCACAGAACTGGCCTCTGCTCAGCTTCCCCAGCCTGACGCGTTTTCTTCTGGGACACGGGTGAGAA
ATGGGATTTCTGCTGCTCAGAGCTGCCTCCAATTTCTTTTGTCCCCATGGGCTGTCATCCAGGGCTCATCTTTGCTTTTTGGTCACGCATGTCTT
TATCTCCTTAGTTGTTCTGGAAGATTCCATGTTGCTACAGTGGGTGAAACTCTTGCGTCATCTTGTGGGTATTTTAAAGAAGTTGTTAAATAGC
AAATGGGGATTGTTGACGCTGTGCACGTTTATTTTGATGTTCCAGATAAAAGTAAAGGAAGTTACCGGCAGCATTTTTTCAAGCACGGTGGCAC
AGCGGAACTGAAATGCTCCCAAAAATCCAACCTGGCCCGGGTCTTTTGGAAGTTCCAGAATGGCGTGTTGAAGGCCGAGAGCCCCAAGTACGGT
CTTATGGGCAGAAAAAACTTGCTCATCTTCAACTTGTCAGAAGGAGACAGTGGGGTGTACCAGTGCCTGTCAGAGGAGAGGGTTAAGAACAAAA
CGGTCTTCCAAGTGGTCGCCAAGCACGTCCTGGAAGTGAAGGTGGTTCCAAAGCCCGTAGTGGCCCCCACCTTGTCAGTTGTTCAGACAGAAGG
TAGTAGGATTGCCACCAAAGTGTTGGTGGCATCCACCCAAGGGTCTTCTCCCCCAACCCCAGCCGTGCAGGCCACCTCCTCCGGGGCCATCACC
CTTCCTCCCAAGCCTGCGCCCACCGGCACATCCTGCGAACCAAAGATCGTCATCAACACGGTCCCCCAGCTCCACTCGGAGAAAACCATGTATC
TTAAGTCCAGCGACAACCGCCTCCTCATGTCCCTCTTCCTCTTCTTCTTTGTTCTCTTCCTCTGCCTCTTTTTCTACAACTGCTATAAGGGATA
CCTGCCCAGACAGTGCTTGAAATTCCGCTCGGCCCTACTAATTGGGAAGAAGAAGCCCAAGTCAGATTTCTGTGACCGTGAGCAGAGCCTGAAG
GAGACGTTAGTAGAGCCAGGGAGCTTCTCCCAGCAGAATGGGGAGCACCCCAAGCCAGCCCTGGACACCGGCTATGAGACCGAGCAAGACACCA
TCACCAGCAAAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGACAAGCCCTTTGACGTCAAGTGTGAGCTGAAGTTCGCTGACT
CAGACGCAGATGGAGACTGAGGCCGGCTGTGCATCCCCGCTGGTGCCTCGGCTGCGACGTGTCCAGGCCGTGGAGAGTTTTGTGTTTCTCCTGT
TCAGTATCCGAGTCTCGTGCAGTGCTGCGTAGGTTAGCCCGCATCGTGCAGACAACCTCAGTCCTCTTGTCTATTTTCTCTTGGGTTGAGCCTG
TGACTTGGTTTCTCTTTGTCCTTTTGGAAAAATGACAAGCATTGCATCCCAGTCTTGTGTTCCGAAGTCAGTCGGAGTACTTGAAGAAGGCCCA
CGGGCGGCACGGAGTTCCTGAGCCCTTTCTGTAGTGGGGGAAAGGTGGCTGGACCTCTGTTGGCTGAGAAGAGCATCCCTTCAGCTTCCCCTCC
CCGTAGCAGCCACTAAAAGATTATTTAATTCCAGATTGGAAATGACATTTTAGTTTATCAGATTGGTAACTTATCGCCTGTTGTCCAGATTGGC
ACGAACCTTTTCTTCCACTTAATTATTTTTTTAGGATTTTGCTTTGATTGTGTTTATGTCATGGGTCATTTTTTTTTTAGTTACAGAAGCAGTTG
TGTTAATATTTAGAAGAAGATGTATATCTTCCAGATTTTGTTATATATTTGGCATAAAATACGGCTTACGTTGCTTAAGATTCTCAGGGATAAA
CTTCCTTTTGCTAAATGCATTCTTTCTGCTTTTAGAAATGTAGACATAAACACTCCCCGGAGCCCACTCACCTTTTTTCTTTTTCTTTTTTTTT
TTTTAACTTTATTCCTTGAGGGAAGCATTGTTTTTTGGAGAGATTTTCTTTCTGTACTTCGTTTTACTTTTCTTTTTTTTTAACTTTTACTCTCT
CGAAGAAGAGGACCTTCCCACATCCACGAGGTGGGTTTTGAGCAAGGGAAGGTAGCCTGGATGAGCTGAGTGGAGCCAGGCTGGCCCAGAGCTG
AGATGGGAGTGCGGTACAATCTGGAGCCCACAGCTGTCGGTCAGAACCTCCTGTGAGACAGATGGAACCTTCACAAGGGCGCCTTTGGTTCTCT
GAACATCTCCTTTCTCTTCTTGCTTCAATTGCATACCCACTGCCTGCCCAGACTTTCTATCCAGCCTCACTGAGCTGCCCACTACTGGAAGGGA
ACTGGGCCTCGGTGGCCGGGGCCGCGAGCTGTGACCACAGCACCCTCAAGCATACGGCGCTGTTCCTGCCACTGTCCTGAAGATGTGAATGGGT
GGTACGATTTCAACACTGGTTAATTTCACACTCCATCTCCCCGCTTTGTAAATACCCATCGGGAAGAGACTTTTTTTCCATGGTGAAGAGCAAT
AAACTCTGGATGTTTGTGCGCGTGTGTGGACAGTCTTATCTTCCAGCATGATAGGATTTGACCATTTTGGTGTAAACATTTGTGTTTTATAAGA
TTTACCTTGTTTTTATTTTTCTACTTTGAATTGTATACATTTGGAAAGTACCCAAATAAATGAGAAGCTTCTATCCTTGATTTGGGGAAGACAT
TCCTTAGCGGAGGCTGTGCAGCCTCCCGCCCCTGCATGGCCCAGGCGGGACAGCTGGGCTCGCTCTTTTCTGTCCGTTTCCTGCTGTGTTTTGC
CCTCTCTGGCCTGTGACGTGCTCCTGGCGACTTCTTCCTCAGTGCCCTCTCTTTTCTGTCCTCTCTGTCTCACAGCCTCGTCTCCTAAGCCCCT
CCCTCCTCCTGGCTCCTCTTCCCTGTCCTGTCTGGGCCATGTGGGGGACAGGAGGCTTTCCTCTCCCTGGACCCCCTGGCCAGCCTCGGGTGCG
GGGCCCGACAGCAGCTCGAGGGTCTCCTTGCTGCCGCCCTTCCTGAGTGACCAGGCACAGCACGTGCACGCCCTGGGGAACTTCTACCTCTTCT
GCCAGGCCACAGGTGAGTTGGGCCCTCTCTGTCCCCTGTGCCCTGTCCATCTGTCTCCTCCCACAGGTGGGGGGCGGGCGGGGGCATCCTCCAC
ATCCCTCCACATGTTCCTTTACCTTCCTTATCTGTCCTGGCTGCGTCCCTCGGGTTGAGCCGTTTCACGCTTTCATTGTGGGTCCATCCCGAGG
GAAACTGTAGACAGTGTGAAGCCACTTCTAGTGTACAGGGGTCAACCAGTGTTTTCTGTAAAGGGCTAGATATTTAGGCCTTGTGGGCTGCAGG
CTGTGTCACAGCCACTAAGCTCTGCTGTTGTATTGTAAAACCAGCCATAGTCAATACACAACGAGTGGTCAGGGCTGTGTGCCAGTAAAACTTT
ATTTATAAAAATGCACGGTGGGCCAGATTTGCCCCAAAGGCCCCAGTTTCCCAACCTGTGGTATATAGGATTGCTTCTCCCTTAAAAAAAAAAA
AAATTTCAAGAGACAGGGTCTCCCTCTGTCACCAAGGCTGGAGTGCAGTGACACAATCATAGCTCACTGCAGCCCCTGCCTCCTGGGCTTAAGC
CATCCTCCTGCCTCAGCCTCCAGAGCCAGAGTGCTTCTATTTCTGCTAACAATTTGGAGGTTGATATACGTGGTATTTGGAAATTTTAAAAAAT
TAAGAGCTTCCAGAATGGGAGTTGTTTTAATGACTTGCTTCGTGGTATTTAAAAGCGGAAAAGATTGGCGGGCATAATCCCCCTGCTTTGGGAG
GCCAAGGCAGGAGGATTGCTTGAAGCCAGGAGTTTCACAGCAGCTTGAGCAACATAGCGAGACCTGATCTCTACCCAAAAATGTGAAAAAAACT
AACCAGGCTTGGTGGCACGTGCCTTGAGGATTGTTTGAGCCCAGGAGTTTGAGGTTACAGTAAGGTATGATGGTGCCACTGCACTCCAGCCTAG
ATCACAGAACAAGACCCTGTCTCAAAAATCATCATCATTATAAAAACAGAAAAGATTGAGAGACTAGTGTACTCCTCTGGGACCTGGAGGCATT
TGCCCTGGATTGGAAAATACTCGGATGGGATATCTGCTCTTGAAAGATAGTAGATGTCCAGAACCACACTTCAAAGATGTATCCTGTGCTTCAG
GCAGTGCGTGGTAGCCCTGGTGGCCCCTGTGTTGTCATCTGACTGATCAGTAGATACAGAAAGAAAGGAAGTGGCCTGTTAGAGCCTGCCCCGG
GGGAGGGATGAAGTTAATGAAGAGGAAAAGCAAACCCAATTGCTCTCTTTTTAAACATGTTAAACACACTGTCAGTAGCTCCTGAGAGTTTTAA
GGTGCTGCCCTCTCCTGTTAAACAAGCTCTGAGAGCCCCAGGTGGCCCATGTCTGCTGAGGCCAGAATGTCCCTTGGCAGCCAGNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
GAAGCTGCCGGTGAGCATGGAGCACTGTGGAGACGGAGCTTTGCTAGGCTGGCTTGTGTGGTTCCTGCCCTCCACTGGGTGCTACGGACCAAGG
GCTGTGCTGAGCCCCCTGTGGCCGCTCTCACAGCTGAATGGTGCTCCTCGGCCAGCTAGTTTGCCTTGGTGCAGGCATCCCAGAGGACTTCATG
TCTCCATGGAGACTGTGTCCTGTCGCAGCACTGGGGTCCTTCAGGCAGACTCAGGAAGCTCCTCCTCGGTGGGGAGGCTGGGAAGCGGGCGGGT
CTCTATGAACTGGCCGTGGACCCAGGGCTCCTTTGCGGGCAGATGCAGGCAGGCTGTATGGTCAGGCAATGTTGGTTGGTTATTTATTTATTTA
TTTTTGAGGCAGAGTCTTGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCACGATCTTGGCTCACTGCAAGCTTCGCCTCCCAGGATCAAGCGATC
CTCCTGCATCAGCCCCCCTAGTAGCTGGGATTACAGGCACACCTCACCATGCCCAGCTAATTTTTGTATTTTTAGTAGAGACAGGGTTTCGCCA
TCTTGGCCAGGCTGGTCTCAAACTACTGACCTCAGGGGATCCACCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCATGCC
CGGCTGCTGTTACATTTTTAAATGTGAGGCTCCAGGTGTACCCCCTGTAGCTAGGCAGGCATACACACAAGCCCCTGGGGTCAGCAGGGAATGA
AAGATGGGTGCCCAGGGAGAAGGGACATCACTGTTACAGCAACAGAAACCACCCCAGATATTTCAACCACAGGGCATTTAACACAGGGAATTGG
TTACAAAGGTGATAGAAGGGCTGGGAACAGTGGGAAGGTGAGGTTTCCATTATCAGCCATGGGCAGGAAGAGTGAAGTGTCAAACACTCAGTCT
CACTTGCTGTGCCACCGAGGCTGTGGCCGTGTGATCTGCAGCCTCTCCCTGCCCGCCACACTGCCTTCACTGCTGGAGGTCCTACTTGAAGCCA
CAAAAATGTTTCTTCCTTCCAACTTCCTGTCTCCTGTCAATGACTCCCATGGCCAGACCTAACAGAAAGCTGGCGGTCACAGATGGATATGGGG
AATGTAGCTGTGGGCTTGCAGCAGTGTGGCCAGGAGTAGTGTGTAGAGGGTAGGGGAGCTGAGGGAGGAGGGCAGTCCTTTGCCAGTGCTCAGG
ATGGACTGAACAGATTGAGAACTGAGGCCCCCAGCCCTCCGCCACCCCCTTTTCACGTGGTCTTTACTTTCTCTCCAGAGGCATTTGGCCCCAT
CTGGGACATTCTCGTTCACTTGTTCCACTGAGGCCACAGCCTGCGAAGGCTGTGAGACCTCCCCAGGGAGCACCAGCTTAGGAGAGAGTGGCTT
CAGCCTTTTCAAGGGTGGGCCGAGGCCAGGGCATCATGGGCATGCCGTGAACTCAGAGGGGCTGTGGCTGTGAATTTCCCGAGTAGGCTCCAGG
GTTCTGTTGGGGTCTGTAGATGCTTCCTGCGACAGAGGCCACAGTGTGACTTGCAAGTCCCAGAGACTTTCCTGAGGAGAGTGAGTGCCATTTT
CTGCCTTGTGGGCCAGGAATGAGCCATTCCAGGTGAGGCCCAGAGCCTGGAGATTGCAATACAGTGCACTCAAGGCACAGGCCTACCGCTTCTG
CCTGTGTCCTCCCCCAGCCACCCAGGGCAGGGCTGCTTTGGAACTTGGCTGGGTTTTTCTTTGCTATAATGGCTGTTTTCGTGGTAGCTGTCAC
AGTGGTTTGGGGGCTGTCTGATTAAAGGGCTAGCAAAGTGTCTTTAGAATATGAAACTTAAGAGGACATTCGTGGCATCTTCAGTTCCCCATGC
TGCGTCCTGGTGCCTGTAGCTCTGCTGGGTGACCCTGTGTCTTGGGGAGCGTCTCACCCCCCAGAGAGGGCTGACTGATGGAAGGTCAGCTGGT
CAGGGTTGCACTTGGGGACTGGGTCTGCCCCAGAGCTGGTGGAGGCCCATGTGTCACCCAGGAGATGTCCCCACCTGCCCCAACACTTGGCCAG

TGCTCAGAAAGTGGCCCCAGGGACTTGGCCATCCAGGAGAGGTGAGGGCCCTCTGAGGCCAAAGCGCTTCCTGAAAGGGGATCGGGGTGGGTCT
GCACAGGGGAAAACATAGCCTGTGGTGTGTGCAGAGGCTGCCAGGGCACAAGGGCCCAACGTGGGGTGCGGTGGAGGTGATGTGGCCACGTGGG
CGGAGTAGGGCGGAGAGGCCTGTGTCCTGGGGATGCGAGAGCTTGAGGCCTGGTGGTGGGGTGGAGGCCCACCCTTGTCCTGCACCCAGGGGCC
TCAGTGCCCATCCAAGGGAGGGACAGGGCCACACCTGTGGGCCTGTGTCAGGAGCTGGGGTGGGAGATTGGCCACCAGTGCCACTCTCCACCTA
GACACATTTCATCCCTTCTCCACCACAGTTCTCGCCTCTAGGAAGTGGAATTATCAGTGGAAGATGATACGGAAAGATCCACTGATGGCCCTGG
CACAGGCCAGCCTTGTCCCTGGGGCAGGATGGGACGGTCCTGAGAAGGCCCTGGGACACCCTAGGGGTGTCATAGTGGGAACTATGCCTTTGCA
GTGCCCAGGTGAGACAGCACATGGTGTCACCCCAAGCATGGTACCCTGGGCTCAGTGACAAGAGGGGTGGGCAGGTCAGGACTGCACTGCCTTG
GGGCCCGTGCCCTGGGAGCCGCTAGCCCTATGATGCCTGAGTACCTGGGGGACTGAGTGCATCGGCAGGGCCTGGAGCAGTGGGAGTGGCCGAN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
ACACACAGCACAGCATACAACACACATCACACACACACCAATCATACCACTGTTACACACACACCACCACACATACTGCACACACCAAAGCACA
TACACACCACATAGACACATGCACGCTACCCACACCACACCAATCACATCCACACATACACAACCATACACACACACACACACATTGTTGACTT
AGGATCGTTTCAACTCACAGTGGGTTTATTGGGATGCAGCCCCGTGGCAAGTGGAGCAGCATGTGTATTGACAAGGGGAGGAAAGCCGTCTGGA
GCTGGTGAAGTAAAGTTAGCATGCAGCCGAGCTCTGCTCGTCTGAACTGATGAACCCAAGTTCCTCATGGATCACTCAGAATACAGATGGGTGA
AAAAATAACCCCACCACCCGTGTGCCAGCACATAGCGCATCTGGCATACAAACGTAAGGATCAATAGCGATGAATGGCGATGGGTTGTGTCTAC
ATGCAGATACAAATCATGCACTTGTACATTAGTGTGCACACACAGAAACAGATCGATATAATTTTTTAACCAAAGTGCAGTCTTTACCCTGTCA
GGGCCCTGCCTTCACCTCTGCCAGGACTATCTTCCATGTCAAGTTTAGACCCGTGTCATTTTCAAAGCTAATAATGGTTCCCCCATACTTTAGG
CAGCATTTAGATATTTGGATTTGGGATGGCCTTTTATGTTTTAACTACAGTGTTAGAAATCAGAGCCCTTGGAACCACTGGGATCAGAGGGCAG
CAGCAGAAGGCGCCCTTGGTCCTCTTTGAGGGGCCCAGGGCTCCGGAGAGGGCCCCCGTTCCTAGCAGCCACAGTGGCCTGTTGGCACGCATGT
GTGTGTTCCAGCTGCTCTGTGACATTTCCCTTTGTTTCAGACTCTTGAAAGGCCACGGCCGTCGTGGGAATTAGTTGACCTTGTGTGTTGGGCC
ACCCTTGCTGGACAGGACAAGGTGGTGCTATCAACTCCCTGTGCTCTGAGGTCCTTCGCATGTTAGATGAGGCAGCTTCACCAGAAACTATCCA
TGTCTCTTCTGTTATCTGGGATAATTCCACGTGCCTTTACAACACAGCTGTCTGGTTACCTGGGGTCTGGAAATGCCCTCGGTGCCTCAGTGGT
GCCTTCCCACAGGCCCCCCATGGGAGCCAGGCGATGCCTACAGATGCCTCAGTGGTACTTTCTCAGGTCCCTTTGCAGAGAAGAGGTTCAGGAT
TCCTGCCCACATTGATAAGGCGGCTTGGCCAGTAAGTGGCAGGCATGAACAGGTGCATTCCAGAAGCGCTGGGGCTGGTCCAGTGCCCTGAGTG
GTCTAGAGCATACCAGAGTGAAACGTTAGGCTGCGTCGGCCTGGTGACTGTCAGGGAGATGAGGACTCAGAGAAGGGAGCTGTCAGAATTGCTA
CCTATGTGGCAGGGGTCTCACTCTCTCCTCCCTCCTCTTGGGGCCCCTGGCTACTCTGTGACTTCAACAGAGGACAGAAAGGATGACCAACAAG
GCCTCAGGGCATACCCCCAGCTGCACTGTCCTTGTCCCCAGAAGGGTCCCCAGAGTCTGGGAGGGAGGAGGGGCCATGGCCAGGATTAGAAAAG
ACCGTGCCCCAAGGAGAGAGCACAGAGATGGGCCAGGGAAGCAGTGGGATCCTCGGGAAAAGAGGCTGGGAGCAGGTGTCCGGGTGAGGCCCGG
GCAGCGGGTACAGGCAGGGACAAGCCAGGAGTCCCATCATGGAAGACATGATGGCCAGCGGCCAGCACTGTGTGCAGAGAATGGCCCCTCTGGG
GATGTGCCCGCTGCCCCATTAGTTGCAGGAAGGCCACCTGGATGTGAGTTTGGGAGATGGGCTGGCCCCGAGGCAGCCAGCCCTGAGGTCAGAG
TGGGCCACATGCATGGGGATGCCGGGAGGACACAGAGGAGTGCTGCAGGAGATGGCAGTGGGGGCACTTTCCAGGATGGGCCCGAGCAACTCAG
TCACTGGGTGGATGTCTCACCACCCCTCCAGGCCTTCCTCAGGGCGAGGCCACTGCCCAGAGGGCACCTGGTTTGTCGCAGAGTAGAATCAGCT
CCATATTTTGTAATCACATCCACGAAGCTCTGAAGCCATGGTGGTCCTGGCACCAGCTGGCTCCGTTAGAGGCTTGGGGTGGGAGTGAGCAGGT
GGGAGGTGCCCCAGTGACAGGCTGAGTGCTGGAGCCCAGGCTGCCAACAGCCTCCCCAGACTCCTGAGTTGATGTAATAAACCCAGCCCTGGTG
AATAAACCTGGCCCTTGCTTATACCAAGGTGATCAGTCTTCTCACGACAGTCCTAGCTGTAGGAGAAAGATCATTACCTACGGCATCTGCCACA
GCAGTTAATTTGCCTTCAACTTAAGCTAGTTGCAGTGACAGGAAGGGCCAGGGGGAAATATCTGTCCTCAGGACCTCTACCCTAGATCCTTGTA
AGCCACAACAACTTCCCTTCTTTGAGGGCGCGACCAGTGTCACCTGGCTCGCCACTGGGAAGAGCCAAGGCACATCCAGGTTGGTGGCTGCTGA
GCCCCACAGCATCAGACCAGCCTCTTGTCCCCACCCCACAGAGGCCAAGGGGGTGATCTGGGAGTAGCACCCCAGCGTGGCCGCTCTCTTGAGG
TAACAGGGTTGGATGGTTAGGGAGCTTGGAGCACTGGCCCAAGCAAGAAACCAGTGGTGTTTTCAGGAGGCCCTGCTGGGAGATGGAAGACAGC
TCCCCACTGGGGGCCTAGGATTCCAGGAGCTCCCCAGCAGTCCTCCGTGGGACATACGTGGGTTTGCACCTGCTGCCCTGTCCCGCTGAGGGTG
CGGTGCTGATGGGGTGGCCCTGCACACTGATGGTAACTCTCACTTTCCCTCTCTCATGCATTCAGAAAGAGATGGATAGTTTAAAAACGAAT
ACATGGAACGTAAGTACTTCTTTAACATCTTTAATGTCTTATGATGATCAAGCATGTATTTAAATAGTATTTACTGATGCCTGTTAGCGGTGGT
AAGCACGTGTCTGTTTCTGCTCACACCCCAAGAGTGTAGAGCTTTGAGGGTTTTGCAGTCAGTGGTCCCATGATGGGGCGTTGGGTGATTAATC
CAATCCAGCTTAGGCCACCCAGATTCTTAGTCTCAAGGGCTTGGTCATGAGAACCTTCCAGAGGCTCCTGTGACTCAGTGACTCCAGTCCCCTG
GGTGGTTCTTGGTGCAGGTCACATGAGGGAGGAGACCGGGCTTTTATAGAACTCACTTCACTGTCTGTTCAAAGAAAAGTGTTACTTGATCATA
ACAGCTCAAAAAAATCTGTTTCTTAAAATGAGATTTTACCTGGATGCCCATCAGCTGGGAAAGGGAATATCTATTCCCCAGTTGATGGGCACCT
AGATGTACATAGAGACATATGTTTGTACATCTATGTAATATGTACTTATATTTGTAGATAGATACATGGAATTATCTGTGGCCAGAGTCCAAAA
CATTTTGAGTGGGAAAAAACAAATTATAGAGTGTTAAGTTTTGTTTTTTTTTAAATTCTGCACAAAAACCAAACCTGTTCACAAGGGCTTGTCC
ACCAGGCCAGGGCCAGATGGGCCGCCAGGCAAAACAGTTTTGGAGCACCTTCTGAATTTCCTTGAGTTTACAGAATGTTTCCTTCAAAGTAACA
CTTTTATAAAAAATTATTATTATAAAAGCAATGCTTGTTTGTTATAAGTTTGGAAACTCCAGGGAAGTATAAAGAAAAAATTTAAACAATCCCA
AATTTAACCATCCAGAGGTAGTTACCACCAGCATCCCGGCCATTTTTGGGCCATGACTATCTACGTTCACACATGTATACATGGGTGTGTACAT
ATATGCACACATTCCTAGATATTGTTTCACTTATTTTTCTGTGTTGCTGAATATTCTTCGATGGCACTTCGAATGAGTGACTTGTGGCCCCCTC
CTTGGACATTTCCCAACTCCTCACTGATAGAAACAGGGCTTCACTGGGCCCATCCTTGCCTCGGGACTCATTCCTAGGACTGCCCAGCTAAAGG
GTCTGAGCTTGGTCAAGTCCTTGGGAGGAGCATTCTCTGGTGATCCTGGACAGTGGGGAATTGTTGACCAAGAGACCGGACAAAGATGAGCAGA
TGCCACAGTCAGTAAAGCAGGGAAAATGCATTACTAAAGTCAGCTTCATTAAACTGGCGATCGCTTCTTTTCAAAAGTCCAGCATGTGCCACAG
AAATGGAAAGCTCTCTGGCCACTACTGTCCTGCCCAGGGAGGGGAGCGTGGGTCCACCCACACCATTTAATACCTGTAACTGGATGCACCTCTG
CCCCTACACCTGAGAACAAGGCCAGTTTTTGTGTGTGCAGGTACTTTGGACTCTTTTGGCTCTGGAATTTGTTTTACCTGCTCAGTGTTCTGAA
CTCCTTCCTTTTCACTACTAAGCATTCTCCATGAAGCCACACTTCATTTTGTCATTGTGAGGGTGATGGGCATCTAGGGCAAATCTAANNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
GAGGCCATGGCCGGCACTGGTCTAGGTGGCCCATGGCCCATTTGGGGGCCTTGGTGGGCCTCGAGGAAGGGCAGGTGCTGGTCAGGGAGCCGGG
TCGCTAGGCAGCAGGTGGGTGTCACCCCAGTCCACGCTGCTGGGGTGCCTGGCCTGATGCAGGCTGTGCCTGAGGGAGACAGAAGCAGCAGAGT
AGGCTGGCCGGCCTCCCCAGCCCCACCACAAGCAGGAGCTTCAGAGACAGAAGGAGCACCTGCACCCCCTCACCTGCCCTCCAGGGCCTGGCCT
GGCCCTCCCAGCTCAACTCCAG

HUMAN SEQUENCE - mRNA

CTGAGCCGCATCTGCAATAGCACACTTGCCCGGCCACCTGCTGCCGTGAGCCTTTGCTGCTGAAGCCCCTGGGGTCGCCTCTACCTGATGAGGA
TGTGCACCCCCATTAGGGGGCTGCTCATGGCCCTTGCAGTGATGTTTGGGACAGCGATGGCATTTGCACCCATACCCCGGATCACCTGGGAGCA
CAGAGAGGTGCACCTGGTGCAGTTTCATGAGCCAGACATCTACAACTACTCAGCCTTGCTGCTGAGCGAGGACAAGGACACCTTGTACATAGGT
GCCCGGGAGGCGGTCTTCGCTGTGAACGCACTCAACATCTCCGAGAAGCAGCATGAGGTGTATTGGAAGGTCTCAGAAGACAAAAAAGCAAAAT
GTGCAGAAAAGGGGAAATCAAAACAGACAGAGTGCCTCAACTACATCCGGGTGCTGCAGCCACTCAGCGCCACTTCCCTTTACGTGTGTGGGAC
CAACGCATTCCAGCCGGCCTGTGACCACCTGAACTTAACATCCTTTAAGTTTCTGGGGAAAAATGAAGATGGCAAAGGAAGATGTCCCTTTGAC

CCAGCACACAGCTACACATCCGTCATGGTTGATGGAGAACTTTATTCGGGGACGTCGTATAATTTTTTGGGAAGTGAACCCATCATCTCCCGAA
ATTCTTCCCACAGTCCTCTGAGGACAGAATATGCAATCCCTTGGCTGAACGAGCCTAGTTTCGTGTTTGCTGACGTGATCCGAAAAAGCCCAGA
CAGCCCCGACGGCGAGGATGACAGGGTCTACTTCTTCTTCACGGAGGTGTCTGTGGAGTATGAGTTTGTGTTCAGGGTGCTGATCCCACGGATA
GCAAGAGTGTGCAAGGGGGACCAGGGCGGCCTGAGGACCTTGCAGAAGAAATGGACCTCCTTCCTGAAAGCCCGACTCATCTGCTCCCGGCCAG
ACAGCGGCTTGGTCTTCAATGTGCTGCGGGATGTCTTCGTGCTCAGGTCCCCGGGCCTGAAGGTGCCTGTGTTCTATGCACTCTTCACCCCACA
GCTGAACAACGTGGGGCTGTCGGCAGTGTGCGCCTACAACCTGTCCACAGCCGAGGAGGTCTTCTCCCACGGGAAGTACATGCAGAGCACCACA
GTGGAGCAGTCCCACACCAAGTGGGTGCGCTATAATGGCCCGGTACCCAAGCCGCGGCCTGGAGCGTGCATCGACAGCGAGGCACGGGCCGCCA
ACTACACCAGCTCCTTGAATTTGCCAGACAAGACGCTGCAGTTCGTTAAAGACCACCCTTTGATGGATGACTCGGTAACCCCAATAGACAACAG
GCCCAGGTTAATCAAGAAAGATGTGAACTACACCCAGATCGTGGTGGACCGGACCCAGGCCCTGGATGGGACTGTCTATGATGTCATGTTTGTC
AGCACAGACCGGGGAGCTCTGCACAAAGCCATCAGCCTCGAGCACGCTGTTCACATCATCGAGGAGACCCAGCTCTTCCAGGACTTTGAGCCAG
TCCAGACCCTGCTGCTGTCTTCAAAGAAGGGCAACAGGTTTGTCTATGCTGGCTCTAACTCGGGCGTGGTCCAGGCCCCGCTGGCCTTCTGTGG
GAAGCACGGCACCTGCGAGGACTGTGTGCTGGCGCGGGACCCCTACTGCGCCTGGAGCCCGCCCACAGCGACCTGCGTGGCTCTGCACCAGACC
GAGAGCCCCAGCAGGGGTTTGATTCAGGAGATGAGCGGCGATGCTTCTGTGTGCCCGGATAAAAGTAAAGGAAGTTACCGGCAGCATTTTTTCA
AGCACGGTGGCACAGCGGAACTGAAATGCTCCCAAAAATCCAACCTGGCCCGGGTCTTTTGGAAGTTCCAGAATGGCGTGTTGAAGGCCGAGAG
CCCCAAGTACGGTCTTATGGGCAGAAAAAACTTGCTCATCTTCAACTTGTCAGAAGGAGACAGTGGGGTGTACCAGTGCCTGTCAGAGGAGAGG
GTTAAGAACAAAACGGTCTTCCAAGTGGTCGCCAAGCACGTCCTGGAAGTGAAGGTGGTTCCAAAGCCCGTAGTGGCCCCCACCTTGTCAGTTG
TTCAGACAGAAGGTAGTAGGATTGCCACCAAAGTGTTGGTGGCATCCACCCAAGGGTCTTCTCCCCCAACCCCAGCCGTGCAGGCCACCTCCTC
CGGGGCCATCACCCTTCCTCCCAAGCCTGCGCCCACCGGCACATCCTGCGAACCAAAGATCGTCATCAACACGGTCCCCCAGCTCCACTCGGAG
AAAACCATGTATCTTAAGTCCAGCGACAACCGCCTCCTCATGTCCCTCTTCCTCTTCTTCTTTGTTCTCTTCCTCTGCCTCTTTTTCTACAACT
GCTATAAGGGATACCTGCCCAGACAGTGCTTGAAATTCCGCTCGGCCCTACTAATTGGGAAGAAGAAGCCCAAGTCAGATTTCTGTGACCGTGA
GCAGAGCCTGAAGGAGACGTTAGTAGAGCCAGGGAGCTTCTCCCAGCAGAATGGGGAGCACCCCAAGCCAGCCCTGGACACCGGCTATGAGACC
GAGCAAGACACCATCACCAGCAAAGTCCCCACGGATAGGGAGGACTCACAGAGGATCGACGACCTTTCTGCCAGGGACAAGCCCTTTGACGTCA
AGTGTGAGCTGAAGTTCGCTGACTCAGACGCAGATGGAGACTGAGGCCGGCTGTGCATCCCCGCTGGTGCCTCGGCTGCGACGTGTCCAGGCGT
GGAGAGTTTTGTGTTTCTCCTGTTCAGTATCCGAGTCTCGTGCAGTGCTGCGTAGGTTAGCCCGCATCGTGCAGACAACCTCAGTCCTCTTGTC
TATTTTCTCTTGGGTTGAGCCTGTGACTTGGTTTCTCTTTGTCCTTTTGGAAAAATGACAAGCATTGCATCCCAGTCTTGTGTTCCGAAGTCAG
TCGGAGTACTTGAAGAAGGCCCACGGGCGGCACGGAGTTCCTGAGCCCTTTCTGTAGTGGGGGAAAGGTGGCTGGACCTCTGTTGGCTGAGAAG
AGCATCCCTTCAGCTTCCCCTCCCCGTAGCAGCCACTAAAAGATTATTTAATTCCAGATTGGAAATGACATTTTAGTTTATCAGATTGGTAACT
TATCGCCTGTTGTCCAGATTGGCACGAACCTTTTCTTCCACTTAATTATTTTTTTAGGATTTTGCTTTGATTGTGTTTATGTCATGGGTCATTT
TTTTTTAGTTACAGAAGCAGTTTGTGTTAATATTTAGAAGAAGATGTATATCTTCCAGATTTTGTTTATATATTTGGCATAAAATACGGCTTACGT
TGCTTAAGATTCTCAGGGATAAACTTCCTTTTGCTAAATGCATTCTTTCTGCTTTTAGAAATGTAGACATAAACACTCCCCGGAGCCCACTCAC
CTTTTTTCTTTTTCTTTTTTTTTTTTTTAACTTTATTCCTTGAGGGAAGCATTGTTTTTGGAGAGATTTTCTTTCTGTACTTCGTTTTACTTTTC
TTTTTTTTTTAACTTTTACTCTCTCGAAGAAGAGGACCTTCCCACATCCACGAGGTGGGTTTTGAGCAAGGGAAGGTAGCCTGGATGAGCTGAGT
GGAGCCAGGCTGGCCCAGAGCTGAGATGGGAGTGCGGTACAATCTGGAGCCCACAGCTGTCGGTCAGAACCTCCTGTGAGACAGATGGAACCTT
CACAAGGGCGCCTTTGGTTCTCTGAACATCTCCTTTCTCTTCTTGCTTCAATTGCTTACCCACTGCCTGCCCAGACTTTCTATCCAGCCTCACT
GAGCTGCCCACTACTGGAAGGGAACTGGGCCTCGGTGGCCGGGGCCGCGAGCTGTGACCACAGCACCCTCAAGCATACGGCGCTGTTCCTGCCA
CTGTCCTGAAGATGTGAATGGGTGGTACGATTTCAACACTGGTTAATTTCACACTCCATCTCCCCGCTTTGTAAATACCCATCGGGAAGAGACT
TTTTTTCCATGGTGAAGAGCAATAAACTCTGGATGTTTGTGCGCGTGTGTGGACAGTCTTATCTTCCAGCATGATAGGATTTGACCATTTTGGT
GTAAACATTTGTGTTTTATAAGATTTACCTTGTTTTTATTTTTCTACTTTGAATTGTATACATTTGGAAAGTACCCAAATAAATGAGAAGCTTC
TATCCTTAAAAAAAAAAAAAA

HUMAN SEQUENCE - CODING
ATGAGGATGTGCACCCCCATTAGGGGGCTGCTCATGGCCCTTGCAGTGATGTTTGGGACAGCGATGGCATTTGCACCCATACCCCGGATCACCT
GGGAGCACAGAGAGGTGCACCTGGTGCAGTTTCATGAGCCAGACATCTACAACTACTCAGCCTTGCTGCTGAGCGAGGACAAGGACACCTTGTA
CATAGGTGCCCGGGAGGCGGTCTTCGCTGTGAACGCACTCAACATCTCCGAGAAGCAGCATGAGGTGTATTGGAAGGTCTCAGAAGACAAAAAA
GCAAAATGTGCAGAAAAGGGGAAATCAAAACAGACAGAGTGCCTCAACTACATCCGGGTGCTGCAGCCACTCAGCGCCACTTCCCTTTACGTGT
GTGGGACCAACGCATTCCAGCCGGCCTGTGACCACCTGAACTTAACATCCTTTAAGTTTCTGGGGAAAAATGAAGATGGCAAAGGAAGATGTCC
CTTTGACCCAGCACACAGCTACACATCCGTCATGGTTGATGGAGAACTTTATTCGGGGACGTCGTATAATTTTTTGGGAAGTGAACCCATCATC
TCCCGAAATTCTTCCCACAGTCCTCTGAGGACAGAATATGCAATCCCTTGGCTGAACGAGCCTAGTTTCGTGTTTGCTGACGTGATCCGAAAAA
GCCCAGACAGCCCCGACGGCGAGGATGACAGGGTCTACTTCTTCTTCACGGAGGTGTCTGTGGAGTATGAGTTTGTGTTCAGGGTGCTGATCCC
ACGGATAGCAAGAGTGTGCAAGGGGGACCAGGGCGGCCTGAGGACCTTGCAGAAGAAATGGACCTCCTTCCTGAAAGCCCGACTCATCTGCTCC
CGGCCAGACAGCGGCTTGGTCTTCAATGTGCTGCGGGATGTCTTCGTGCTCAGGTCCCCGGGCCTGAAGGTGCCTGTGTTCTATGCACTCTTCA
CCCCACAGCTGAACAACGTGGGGCTGTCGGCAGTGTGCGCCTACAACCTGTCCACAGCCGAGGAGGTCTTCTCCCACGGGAAGTACATGCAGAG
CACCACAGTGGAGCAGTCCCACACCAAGTGGGTGCGCTATAATGGCCCGGTACCCAAGCCGCGGCCTGGAGCGTGCATCGACAGCGAGGCACGG
GCCGCCAACTACACCAGCTCCTTGAATTTGCCAGACAAGACGCTGCAGTTCGTTAAAGACCACCCTTTGATGGATGACTCGGTAACCCCAATAG
ACAACAGGCCCAGGTTAATCAAGAAAGATGTGAACTACACCCAGATCGTGGTGGACCGGACCCAGGCCCTGGATGGGACTGTCTATGATGTCAT
GTTTGTCAGCACAGACCGGGGAGCTCTGCACAAAGCCATCAGCCTCGAGCACGCTGTTCACATCATCGAGGAGACCCAGCTCTTCCAGGACTTT
GAGCCAGTCCAGACCCTGCTGCTGTCTTCAAAGAAGGGCAACAGGTTTGTCTATGCTGGCTCTAACTCGGGCGTGGTCCAGGCCCCGCTGGCCT
TCTGTGGGAAGCACGGCACCTGCGAGGACTGTGTGCTGGCGCGGGACCCCTACTGCGCCTGGAGCCCGCCCACAGCGACCTGCGTGGCTCTGCA
CCAGACCGAGAGCCCCAGCAGGGGTTTGATTCAGGAGATGAGCGGCGATGCTTCTGTGTGCCCGGATAAAAGTAAAGGAAGTTACCGGCAGCAT
TTTTTCAAGCACGGTGGCACAGCGGAACTGAAATGCTCCCAAAAATCCAACCTGGCCCGGGTCTTTTGGAAGTTCCAGAATGGCGTGTTGAAGG
CCGAGAGCCCCAAGTACGGTCTTATGGGCAGAAAAAACTTGCTCATCTTCAACTTGTCAGAAGGAGACAGTGGGGTGTACCAGTGCCTGTCAGA
GGAGAGGGTTAAGAACAAAACGGTCTTCCAAGTGGTCGCCAAGCACGTCCTGGAAGTGAAGGTGGTTCCAAAGCCCGTAGTGGCCCCCACCTTG
TCAGTTGTTCAGACAGAAGGTAGTAGGATTGCCACCAAAGTGTTGGTGGCATCCACCCAAGGGTCTTCTCCCCCAACCCCAGCCGTGCAGGCCA
CCTCCTCCGGGGCCATCACCCTTCCTCCCAAGCCTGCGCCCACCGGCACATCCTGCGAACCAAAGATCGTCATCAACACGGTCCCCCAGCTCCA
CTCGGAGAAAACCATGTATCTTAAGTCCAGCGACAACCGCCTCCTCATGTCCCTCTTCCTCTTCTTCTTTGTTCTCTTCCTCTGCCTCTTTTTC
TACAACTGCTATAAGGGATACCTGCCCAGACAGTGCTTGAAATTCCGCTCGGCCCTACTAATTGGGAAGAAGAAGCCCAAGTCAGATTTCTGTG
ACCGTGAGCAGAGCCTGAAGGAGACGTTAGTAGAGCCAGGGAGCTTCTCCCAGCAGAATGGGGAGCACCCCAAGCCAGCCCTGGACACCGGCTA
TGAGACCGAGCAAGACACCATCACCAGCAAAGTCCCCACGGATAGGGAGGACTCACAGAGGATCGACGACCTTTCTGCCAGGGACAAGCCCTTT
GACGTCAAGTGTGAGCTGAAGTTCGCTGACTCAGACGCAGATGGAGACTGA

TABLE 29

MOUSE NOMENCLATURE
ICSGNM Mdm2
Celera mCG3393

HUMAN NOMENCLATURE
HGNC MDM2
Celera hCG19697

MOUSE SEQUENCE - GENOMIC

ACACCAGAAAAGGCCATCAGATCCCATTATAGATGGTTGTGAGCCACCATGTGGTTGCTAGGATTTGAACTCAGGACCTCTGGAAGAGCAGTTG
GTGGTCTTAACTGCTGAGCCATCTCTCCAGCCTCCAAGAACCCAGTTTCTTTTCTTCAAATGCCTCATTGCAGTTTGTTATTGGATAGCAATAG
AGAGTCAGTTTCTCCCTTCCAACACTTCAAGCTTAAAAGATCATATGTACATATGTTGATCAGCCTATCATCCCCCCAAAATATAAGCAGTATA
TTTGACCATGGCCAAATTCCATTTCAAAGTATGTCCTTCCTGGTTAGGCTTGCAGTAGCCATTCAGGAAACTAGATGAGGGGTGTACTTATTAC
AGGCCACATAGGCTCTATGTAGTCATAACCAGACAAGTGACTGCCGTCATGTTTACAGAATAAAGCTCTAGTTCAGACTCTCTTAACTTTCAAC
TATGAGCCGGGCGTGGTGGCATACTCCTTTAATCCCAGCACTCGGGAGGCAGAGGCAGGCAGATTTCTGAGTTCGAGGCCAGCCTGGTCTACAG
AGTGAGTTTCAGGACAGCCAGGGCTACACAGAGAAACCCTGTCTTGAAAAACCAAAAAAAAAAAAAAAAAAAAAAAAACCAAAAAAACCTTTCAA
CTATGAAAACCAAACTATGATGAAAACCAAAGGTGATTTTTAAAGCCAACTGCCATTTAATAATAAATAATTCATGCCTTTATGCGATGCGT
TAGGGTTTAAGCCTTTAAATAGCATAGATCTGACCAGACATGTTTAAGAAATGTCAACAGAGCCTGGTGATGGTGCTCACCTTTGACAGAGGCA
GGCAGATCTCTGAGTTCGAGGCCAGCCTGGTCTATAGAGTTTCCAGGATGTCGAGGGATACAAAGGAGAAACTCTGTCTCAGAAAACAAACAAG
AGAAAAGTGAGGGGAGACAATGACTATTGTCATTCAGGCGTTATTTTTTTTAATCACACGGACTTACTTTTGAAATCACATAAGGTCCCCAGGC
TTGGGAACAAACCGCTAGTCAGGCTTTGCTGGGTTTTAGATGGACTCACAACTTTCTAAATCTAAACCTACTAACAAAGAAACTACACACTTCC
TCTCACAAAGTCATTTTACAACCAAAGTCTCTCTCTCTCTCTTCCCACTTCCTCCCTCTCCCCTCTCCCCTTTTGAGACAGTTCTCATTGTG
TGACCCAGGCTGTGAACTCCCAGGTTCAAGCAATACTCCTGAGTAGCTAGGAAGACAGGTGTGCACTGCCATGCCAGCTTTCTGTTTGAGTACT
GGTTTGTTTGTTTGTTTGTTTTAAAGATTTATTTATTATGTATACATCGTTCTGCCTGCATGTATGCCTGCAGGCCAGAAGAGGGCGTCAGGTC
TTATCACAGATGGTTGTGAGCCATCATGTGGTTGCTGGGAATTGAACTCAGGACCCCTGGAAGAGCAGTCAGTGCTCTTAACCGCTGAGCCATC
TCTCCAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNN

ATAGTATTTTAAAAATAAACTAAATGCCTTTAAAGGTAGTGGTTAGTCCTATTTGTCCTCAGTACTCTGCCATGAGGCCACATTCTAGCCATGT
AGACAGAGGCCTGGCACAGTGAGATCTGCAGCCATTGCAACAATAGAGCCATACAAAATAACTGTCCTGACAGAGACAGCCGGCCAAGCAGCCA
GGAGGGAGCACGACTGCTCTTCAGAGGACCTGGCTTCCACTCTCAGTACCCACATGGTGGCTCCTAGCCATCTGGAACTCCAATTCCAGGGGTC
CAGCACTGTTGTGGTATCCCTGGGGACCAGGGACACAAGTGGTGCATGGAAGTACATGCAGGCAAAACATGCATATGCATGGAACAGACAGAAA
GCCAGCAGGCTCTCCGTGCTGGGCATCCACTAGCTATAGAACACGAGTGAACAGGAGCCTTGATCATCAAAGCTGACGTGCAGGAGTGTCTTTA
GAGTATCTGTGGCCGATGGTAACATACTTTGATATCAGACTGACGTGGCTAGAGCAAGCTCAGGGACATTTATCATGGTGTTCCTTGGTATCCG
TTGTCAGGCTGCCAGGCTGGGCTCACTAGCTGCTTTGTGGGTGACACCTTGTTAGGTAGGTGACAGTTGTCCAGTTTTTATCTTTTTAAGGATT
CATTTCTTATTTTATATATAGGAATGTTTTGCCTGCATGTGTATATGTGTACCATGTGGATGTCTGGTGGCTATAGAAACCAGAAGAGGGTGTC
GGATCCCTTGGAACCAGAGTTAGATAGTTTTGATCTATCATATAGGTTCTGAGAACTAAATTCAGGGTCTCTATAAGAGCAACAAGTGGTCTTA
ACCTCTAAGCCTCAGCCCCATCAACTATTGTCTCACTACTGGGAAAGCTGGATTAGAGTCAAATTGTAGCTGGCTACTTGTTTTTATAAATAAA
GCTTAATGTTATATATTTACTCTTATAGTTTATGTAGTACTTTTGCTTTTAAGTTGGCTAGACATAGAAAAAACACTTTCTGGCTCTTCTGATA
TTACTGGCATGCTCTTTAAAGATCATTTGTCATTAGTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGAGAGAG
AGAGAGAGAGAGAGAGAGAGAATATCTAGCCTTTGCATGTATTTTAAGTGATAAATAAATGATGCATAAACCACATATAAAGAAAACAATGA
GTTGTAGCTGAGGGCTGTGATTGTACTCTTTGAATTGTTCATTACCTTGTGACTTTGGTTTCTTTAGCAGTCAGGAATGTGGTATATGATAGAT
TGGTGATAGGTTTTGCCCTAAGATATAGTCTATTCTCCTACATTCTATAAGCTCCCTTTCAGTAGACTGACGGATTTGTACAGTATAGTAAGAG
ACTGGATCTCAGCTAGGTTGTGTGGTGGCAAGCAGATGATGGAGCTGTAGGAAGGAGTCAGTGCTCACTCACACACTCCCCTGTGTGTGTGTGT
GTGTGTGTGTGTGTATTTGTAGCTCCTGCCTGCAGAGACTACAGTGGATGTTGGATTGCCTAGGATGTTGGTAGCTGCCTTTTGGTGGCCCTAG
GAATCTAGAATTGGGTCCCCTGCAAAGCAGCAAGTGCTTTTAATCTCTCAGCCATCTCTCCAGCATCTTGATACCGTTTTGATCAGAACAAATT
GAGTTTGATTATTTGACATGACACCAGGATTTGATGACTTCATGATAATTTCATAGTAGCTTTTCCCAAAGCATTTTCTGTCCTAACGCTTAGT
GGTGTGCACTTGTACTTAGTGTAAAACCCAACTTTCTGAAGTGCAGCTCGGTAACAAATTGTTATAAGCACGGCGTTTGCTGCCTGTATTGGGC
TTCTTTCTGGCCATACATAAAGGGCTTGTGCTGTAGAGTATGTTCATGGTGTAACATCAGCTCTTTTTCTTTTCTTTTACAGGTTAGACCAAAA
CCATTGCTTTTGAAGTTGTTAAAGTCCGTTGGAGCGCAAAACGACACTTACACTATGAAAGAGGTGAGCAGAACTGAGGGGTGGAGAGCCGATG
GCTTCATGGTTACATACAGGCATCTGTGGTGGTTTTTCAAGTTTGAGTGAGATTGGCCATACAGATTTTGTAATGAGCAAGGACATTAAGTTTT
GTGATCATTTGAACTGTAATTTGAAGCTAAAAATTCTAATTTACATGAATTTCTTCCTCCTTTCCTTTCTTTGAGACAAGGTCTTTTTTTTAAA
AAGATGTATTTATTTATTATATGTGAGTACACTGTACCTGTCTTCAGACACTCCAGAAGAGGGCATCAGATCTCATTACAGATGGTTGCGAGCT
ACCATGTGGTTGCTGGGATTTGAACCCAAGACCTTCAGAAGAGCAATCAGTACTCTTAACCAGAGCCATCACTAGCCCCTGAGACAAAGTTTTA
CTATGTAGTCCTGACTGTCCTGGAACTCACTATGTAGACCAGCTGGCCTCAGACTCAAGAGAGATCCACCTGCCTCTGCCTCCTGAGTTCTCTT
TTCTCTTTTTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNAAAAAGAAAGCAAAAGAAAAAAGACCTTATACAACTGTTGGGATGCTCAGTGGGCTGATTCATAGACACAATGTTGTATTCTCTGCCTT
AACGTTTATTAGTAAAGTATTGTTTTCAGCTAGAGGTTGGTCAGTTGTAGACAGAAGTTTTGCATGGCTGAGATATAAGTGTTTCTCTGGCTCA
CTTAGGTTAAGGCTTGTTTACTTAAAACACTCAAGTTCTTGTGGCAGGTTAGGGGCTTCTTCTCAGCTACACATTTGGAAACGTCTCAAAGAAC
ACTTTGTTGGAGGAACCCAAGTGTCCTTTCTGTCCCACTGACTGTCAATACTTTGTGATCTATAGACATGTAAAAATTGCCTTTCAGATTGATT
GGCTCCTACTTAGCTAGTTAAAGTCTCTTTAAGTGTTAAGTGATGTTTTTAAGGTCATTAACTTTGGATTGACCTTTATAAAGGTTAGACAAAT
GATAAACAAGTATGGATTTAGTAGTAGGTAGATATGAGAAAATCGATGAAGGCCATCAAAAAGATTTAGTGCTTATGCTAAGCTGTGTGCAGTA
GGTCAGCTGTCCTCCTGCTCTCTGCGGGGAGTTGGCTTCAGGACACTGCCTGCCAAGTCTCTTACTTAAACCGTGAAACTGTCTCTGTATGGAC
ATCACCTCTTAGACATTAAGTTATCCCTAGAGTATCTGTAATACACAATGTGTGTAGTTGTTATACTGTATTCTTTAAGGAATAGTGACAAGGA
AAAACATTTCTACATTCAGGATGGATGCCAGGAATATTATTAGACCCACAGTCAAATGGATCTGTGGGGGTGGGACTTACAGATTGTTTATAGT
GTCTGATACCAGTTTTCAGTTACAAGATCTTTATTCTAGGACACTTGAGAATGTAGTGAGCTAGTGTGGTAGACAGTACGCTGGGATAGGTGTC
ATGTCCTGGGTTAGTTTCTCATCTCTGTTTATGTTTTTATTTTCCCCCCTGTGGTACTGGGTGTCAGATCAAGGGAGCACATTTTACCTACTGA
ACGACACTCGTGACCTTGTTTTCATACAGGAATAACAGTTCCCTGGGGTGTCAGGATGGTGAGACTGTACTGACAAACCTGTGCACTGTAAAAT
GCTGTCTAGAGTTACATTGTTGATGGGCTCGTTTTGGAATGACAAAGTATGTTGCTTAAGCTGCCATAATGGAGCACATGGAATATAATAATAG
TGATGGTTCGGGCCCTGGACTGTTTGGTGAAGACTATATTAATAACTGAGAATATTCCATTGGGAGATGTTACTCATGATGTCCTGTCTTCCTC
TGTGATGACCTCAGAGCTGTAGAAGTATACGTTTGTGACATGTCACTATTCTAATACATTGCTGTATTTTACCTTACTCTTTTTTTTTATTCAA
TTTTTTTTTAAGATTTATTTATTTATTACATGTAAGTACACTGTAGTTATCTTCAGACACCCCAGAAGAGGGCATCAGATCTCATTACAGAGCC
ACCATGTGGTTGCTGGGATTTGAACTCACAACCTTTGGAAGAGCAATCAGTGTTCTTAACCACTGGGCCATCTCTCCAGTGTCCCCCCCCCCCC
TTTTTTTTAAACCTCTTTTTTCTTTCCTAGTATCATATGTTAGTATCTAAGTTTCTGGGAAAAATTAAAATTTATAAGAAAAAAAGAAAAACAG
AAAATACATTTAAGTAATGTGGAGAAACAGTTACTTCTATTTTCATCAGTGTGGAAGTATTTAAAAGAAGCTTCTACAATACAACTGTTTGGTC
TTGTACATGATTATGGGTGTGGCTGTTAGTGTAAAGTGTAACTTGTTCAGTTAAGTGTGGTATTGCTGAATGTATAATGTATATATTCTATGTG
ATTTCCTTAGTACTTAGAAACCATATTTGTGTTTCAGATTATATTTTATATTGGCCAGTATATTATGACTAAGAGGTTATATGACGAGAAGCAG
CAGCACATTGTGTATTGTTCAAATGATCTCCTAGGAGATGTGTTTGGAGTCCCGAGTTTCTCTGTGAAGGAGCACAGGTAAGCCTTGTGCGTGG
TGGGTTATAAGAACAGCGAGCGGCTGTGCATGGGGCTGGAGAGATGCTCAGTGGTTAAGAGGACCCAGGTTCAATTCCCAGCGCCCCCATGGCA
GCTTACAACTGTTGGTACTGCCAGTTCTATAGGATCTGGTGCCCTCACACAGACATACATGCAGGTAAACATAAAAAACATCTTAAAGAAGTAC
CAGCTGGGCGGTCACTGTTTCTCACCTCTGTCAGAGAGGAACTGACCATGGATACAAAATGCTAACATTGGGTGTCATTTTTTGAGGCCCTACT
GCGATTAACAGTAGTCGTAGCATATTGTGTGGGAACCTGAACTCTGGAATCTTAGTTTTGATTGTGTGTGTGTGTATGTGCATATGCCACTGTG
AGTGTGTGGCAGTCAGGAGTCAGCTTGTCCTTCCACCATGTGGGTACTGGGGATTGAATGCAGGTTACCAGGCTTGACCTCTTTTGAGACAGGT
CGAGTCGTTAGTCTGTGGGTGTGTAAATGGATCTGACATCTCTCAGCTGTAGGCTCTCTACTCACATGTTGTTTTTTTTTTTTTTTTTCTTTT
CTTACAAGGAAAATATATGCAATGATCTACAGAAATTTAGTGGCTGTAAGTCAGCAAGGTAGGTAATTTTGAATATTATAAACATAGTATAACT
TAATAACAGTTCTTTTTCATGTAAGATCTTATGTATCCTAGTCTAACCTTAAACTATGTAGCTACGGACCCTTGAGCCTTAAAAAAAAAAAAAA
AACCACAAACCTTTGAGTAGCTTTTTGTTGTGTATGTATCTGTATGTCTGTGTAGGGTGGGATAGATACATGGTGTATACCTGGAAGTCAAAAA
ACAGCTTGGCGGAATTGGTCTACTTTTTACATGGGTTCTGGTATCCAGCTCAGATCTGTAGGCGTGTGTGGCAGGCACTTTGACCTCCTGAAAC
ATCTTACCAGTCCCCTAATCATGTTTTAAAGACTTGGATGTTGTCTTAGTCAGGGTTTCTATTCCTGCACAAACATCATGACCAAGAAGCAAAT
TGGGAAGGAAAGGGTTTATTCGGCTTACACTTCCATACTGCTGTTGACCACCAAGGATGCAGGACTGGAACTCAAGCAAGTCAGAAAGCAGGA
GCTGATGCAGAGGCCATGGAGGGATGTTCTTTACTGACTTGCTTCCCCTGGCTTGCTCAGCCTGCTCTCTTAAAGAACTAAGACTACCAGCCCA
GGGATGGCACCACCCACAAGGGGCCTTTCCCTCTTGATCACTATATTGAGAAAATGCCTTACAGTTGTATCTCATGGAGGCATTTCCTCAACTG
AAGCTCCTTTCTCTGTGATAACTCCAGCTGTGTCAAGTTGACACAAAACTAGCCAGTACAGATGTATACTTCATGTTTTAAAGACTTGGATGTA
TACTTCTTCGTAGAGTGCAGTTCTGGCTTTAACCCTTAGCACTCTAAAAAGGCAAAATATCACTGTGTGCTGCTTTCATTTGTGTTTGCTTCTG
GCTCTCTTTATTATTTTTAACTCTTTCATTGCCTACCAATTTTTTTTTAATAATTATTTTTGGGTGTATTAGTGTTTTGCCTGCATGTCTGTCT
GTGTACCATCTGTGTGCAGTGCCTTTGGAGGACAGAAGAGCCCATCAGGTCTCCTAGAACTTGTTACAGACAGTTAACGACTGCTGTTGGGCT
GGGAATTGAAGCCAGAACTTCTGGTAGAGTAGCCAGGGCTCTTAACCATGAAGCTGTGTTCCCAGCCTCTACTTTTTTGTTGTTTTGAGACCAG
ATCCCCATAAATTATCCAGGCTCATTTGGAACCCAGGCTTCCTGCTCCCCAAGTAGCTGACGTTTGTTCATTTATTCAGCACTGCTGAGAGTTG
AACTTAGGCTCACACACCCTTGCGTTTAGAAAGTACTGTACTAGTTAGCTGCCCCAGCCAGGCTTTGACTCATCTCATTCTCTCTTAAAAAATT

AAAGTGACTTCTTTCATTTCACTTTATTTGTATGGGTGTTTTTTCTGTCCTGCTGTATGCATGTATACATGTGCACCACGCGTGTGCAGTGCCC
AGCAAGGTCAGAGGAGGAGCATTGAATCTCCTAGGACTGGAATTAGACTATTGCCACCTCTGGAAGACCTTCAAGTGCTCTTAAGCACCAGAGT
CATCTCTCCAGCCCCTCTTTGGAAAAAATAATTATACTGCCTGGTGTGGTTACACAGACATTTAATCTCAGCAAATGGGCGGATGGACTTGTCC
AGCCAAGTTTACATAAAGAGACCCTGTCTCAAAAAGGCAAAAAGCAAGTTTTAATTATGTGTGCGTCCCTTTATGTGAATATGTGCACATGAGT
GCAACTGATCTTAGAGGCCAGGAGTGTCAGCTTCCCTAGAGCTGGAGTTAGGGAGTTTTGAGCTGTGGTATCTAGGAACTAAGAGTAATCCAGC
CCCATGATTCTCCTTAAAAGTAAAAGAAAGTACATTTATTCGTGTTTAAGAGCATCCTTATGCCATGATGTGCATTGGGAAGTCAAATTGGATG
TCTTGTTAATCTCTGTCACGACCCTGGGTTATCAGGGTTTCTTCTGAAGGACAGGTAATGTTAAAAGCTGCTTAGTAGAAGCGTGATCAAACCT
CAGAATGCGTTGAGATGTTTCAGGAAGTAATATAATACCTAGGTAGGACCGTGAAAGAGTGGGGTTTCATCTCTTCTCTTCTCTTGCCCCCCTT
TGTATTCTTGCTCTTGTTTCTTGAGTGGACACTTAGCATTTTTAGGTAAGCATCATTTTAGCTCTCCTTGGCAGTTCTTTTTTAGTGACTTGAG
CACAGGTCCTTGTGTGTGCTTCACAAGCATCAACTCTGATGTTGAGCTACTTACTGAGAGAATTGGTTATTTTTGGGATGCAACCTTTTTGAGA
ACCTAGTAAAGGCACTTGATTTTCATTCTATAAGTGTGTACATGTGGATAGTGTTTTATTATTATTATTATGGTTTTTTGAGACAGGGTTTCTC
TGTATAGCCCTGGCTGTCCTGGAACTCACTGTTTAGACCAGGCTTGCCTCGAACTCAGAAGTCTGCCTGCCTCTGCCTCCCAAGAGCTGGGATT
AAAGGCATGCGCCACCATGCCCGGCTATTTTTTTTTTTTTTTTAAAGAAAGAGTTTCTCTTTTTAAAGACAGGCTCTCACTATTAGCTATGGT
TGGGCTAGAACTCATTATGTAGATCAGGCAGACCTTTAACTCCCAGAGATCCATCCACCTGCCTCTGCCTTCTAGACTTACATACCGCCATGTC
TCCTATTAGTTGTATTTGAATACTAGTAGCTGTGGGCTCTGAAACCCCGTAATCCTTACCGTTACCCTTGAACATAGCTACTGTGTTCAGAAGC
TTGCTTGGTTTCTAGACTGAATCAACCATTCTCTTGCGATCCCACTATTCCCTTCTATATTCAGAAGTCACTGTGTTGTGTGTACAGTGTGTTG
TAAATGGCACCAGGATCCTCCCTAAAAAAAGAACAAAGTAATTAGTTTGGTAACTGAGACCTGTGGTTTTCGGCTTCTGCCTCATGATGCTGAG
GTTACTGGGACCTGCTAAGGCTCTTTATGTCATGCTATACAGTTATGGAATCTGATAGTATTTTACATTTTCTCTAGTAGTCACTCACTTAATA
AACTTTGACAGATTACTGACGATTTCTCTTGATGCTGTGTTTCAGTTTAGTTAAAAGTAATTTTGAAAATCCTAGGTGAGCCTGTCACTCCCGT
TACTTTATTACATCTGTTTTATAACTATACACAGCCCAAGACAGAGTTCCCAGGTAGCATAGCCTATCTATGTATTCCCTTTAAAGTTTGTATT
ATGCCATAATACAGGACAGTTCACTGCGGTCACCCAGTGTTTGAGGAGCTCGGCAGTGCCCAGCTGTGGTCTCACGGTTGATGGATGTGCTTTA
GGCGGTAGTCTAGGGTATGGATTGTGATTTTTGAGTAATTTTGTCCATTCCAGTTCTGGAACTTGGATGTTTTGAGAGCTTGGTCTGTGAAACT
AAGTACAAACTACACCTGTCTATCTACATAACTCTTTTAAATTCATTATTTTTTCCAAGCTAAATCGTTCACCTCCCTCACCTCTCTTGGTGAG
TGGTACCACACATTCTTCATCTAGTTAGACTCTTGGGATCACTTCCTTTTCCTTACAGACATCTAGTCTTAACCAGTTTTTATGTCTTAATTTT
TCTCAAGTTGATTGTCTTAGTTAGGGTTTGCATTGCTGTGAAGAGACAACATGACCAAGGCAACTCCTGTTATTAAGAAAAACATTTAGTTGGG
GCTTGACTTAATACTTCAGAGGATTAGTCCATTATCCTCAAGGCAGTAAGCATGGCAGCATGCAGGCAGATGTGGTGCTGGAGGAGCTGAGAGT
TCTATACCCTTATCCAAAGGTGGAAGGCAAGTAAGAGGCAGGTTTCTTCCACATTGGGCGGGGCCTGAGCAAGGGAGCCTTAGAGCCCACGCCC
ACAGAGACACACCTCTTCCAACCAGGTCACACCTCCTCTAGCCAGGCCACACCCTGGGCCAAGCATATTCAAACCACCACTTAAATACTTTAAC
TACATGTATATATGTATTGTATGCCGACTAATGCCACANNNNNNNNNNNNNNNNNNNNTATACACACACACATACACACACAGTTGTCTTTG
TATTTCAAATACTGTTTGCTTGTTTCTGTGCTCTGTTTGCCTTCCCGTGTGGACCTCCTACATGCTAACTGAGGCCTCCTCCACTGAATCACTA
TGGCTTGACAGTCTCACTGAGTTGCCCAGGCTGGCCTGCTGGAGATGATTGCTGTAGTGTAAATCACCGTGCCCAGTTGGGAGTGGTGGTGGGT
TTGTTGTTTTTTAAATTCTATTTTGTCAGAGTGGTTTGTTGCTTTTTTTGTTGTTGTTGTTCTTTTTTTGTTTTTTTGAGACAGGGTTTCTCTG
TGTAGCCCTGGCTGTCCTGGAACTCACTTTGTAGACCATGCTGGCCTCGAACTCAGAAATTGGCCTGCCTCTGCCTTTGCCTTCCAAGTGCTGA
GGTTAAAGGCGTGTGCCACCACCACCTGGAGGTTTGTTGCTTCTTATTTAGGAGTTTTATGATTGCTCTCTGGGGAGAATAGTTCTGTGAGCTA
GGAAATTAGCTTTATTTCTTGAACTAAAACCCTTTAATAGTGAGAAGTTGCAAGATGGCCTCAGGCAAGATTATAGAACTGCTTGAATAACTGT
TGAGAAGAATAACCTTGTATGTGACTCAGCTGAACACGCATGGCTCTGTGCACAGCGACCCTGCACTTTACTGTTTGAGTACAGAGGAGTTTAT
TATGTTGGTGTCAGTCACAGGAACTGTTTGCGTGTTCATGATTTCTCACATACTAATCCTTCAGTCTGGAGTGTCTGTCCTATGCTAACTTCAG
CGTAGGCGATTCCAGAATCTGTCCTGATAGCTCTTCAGAGCCCCTCCCCCACGTCTACTAAACATTTTTGTTTCCCCTGCTAGTATATCTTAAA
ATTTGCTTATTTTGCTTCATAATTCCTGTTGAATTTATATCTCCAGCATGCAAATGACTCTTGATACAAATGGTTAATAGTTGTTAAAAGGTTA
GATTTTGTATTGGGCATGTGTTAGACTGGTATATGTTGAATTCTTGATTTCTTTGTTTGATCCACTTTTTACTTTCTCTTACAATCTTCAGAC
TCTGGCACATCGCTGAGTGAGAGCAGACGTCAGCCTGAAGGTGGGAGTGATCTGAAGGTAATACTTGCATAAAGTTCTTACTCTAACACACTTT
TCTCTTTAAAATATCCTGTCTGTAAGTGTGGGTGTGTGTATGTCCTCCAGCCAAAAGAAAGAGGTGATGCTCACCTGGAGCTGAGTTACAGGTG
GATGTGAGCTGCCCCAGACATGAGTGATGGAAACCAAACACACCCCAGCAAGAACAGCACATGGTCTTCTTCTCTGAGCCACCGCTCTAGCTTC
ATGACACATAGTTCTTGAAAATTGGGAGGGTTACATAAAACAGGGTGTGGAACAGCCAATGTTTAATGTTTATTTTGCAATATTTTACTTTCTT
TTATGTACTTAGGATCCTTTGCAAGCGCCACCAGAAGAGAAACCTTCATCTTCTGATTTAATTTCTAGACTGTCTACCTCATCTAGAAGGAGAT
CCATTAGTGAGACAGGTACATAGGGACATTATGTGACATACTAAACAGTTGCTTGGTGTTTCCATTTTGGGTCAAATGACCCTTTGACAGAGGT
CTGAGACCTAAGACCACTGAAAACCACATGGTTGCATTATGATTCATCACATTAGCAAAACTATGGCTATGAAGTAGCAATGAGAATAGTTTTA
TGCTTGGGATCACCACTATGAGGAACTGTATTAAAGAGTCACAGTGCCGGGCGATGGTGGCTCTCATCTTTAATCCAGCACTTGGGAGGCAGAG
GCAGGCGGATTTCTGAGTTCGAGGCCAGCCTGGTCTACAGAGTGAGTTCCAGGACAGCCAGGGGTATACAGAGAAACCCTGTTTCGAAAAACCA
AAAAAAAAGAGTCACAGTGTTAGGAAAGTTAAGAGCTGCTACCCTAGACTTCTAATAAAAGGAGATGAAGTTGTTCTTTGTTTTGGGACAGGGC
TTCTATATAGATCAGGTTGACCTTTGCATAGTCTTTTTCTTTTTTCTTTTTTTTTTTAACTTTATTTATTTAATGTATGAGTGCTCTGCTGCTC
TTAACCACTGAGCTGTTTCACCAGCCCAGCCTTATTCTTAAAGCTTACTGTTGATGGGGAAATCGTGTACTGTTGAATCAGTAAAAGCACTAGG
AGGATTAAATGAGTAACTTGTGGAGGTAACGTCCACAAAGAAGGTTGCAAGCTTAGAAGTAGAGCTTATGTGTAGCTGAACAGATCCAATGAAA
CACTGCTGACTTTTGAAACATTAATGGTTCACTTCTCTGTTTAATATAATTGAAATTAAATTTTGTTGCAAATAGGTGCTGAAGATATTTCAAT
CTCAAATCAGTCCCAGTACAGGGAGTTTTAACCCCATGTCCTTTAATCTATAGAAGAGAACACAGATGAGCTACCTGGGGAGCGGCACCGGAAG
CGCCGCAGGTCCCTGTCCTTTGATCCGAGCCTGGGTCTGTGTGAGCTGAGGGAGATGTGCAGCGGCGGCAGCAGCAGTAGCAGCAGCAGCA
GCGAGTCCACAGAGACGCCCTCGCATCAGGTAGTGCTTGGGTTTAAGAAATTATCTTACTTTTTAATATGGAAGTGTCTTGTCTGCCAGAATGT
ACACCACATGCATGCAGTGCTTTGAGGCCACAGGAGGGTGTGGAGTCCCCTGGAACTGGGGTTAGGGATGGTTGGAGCCACTGTGTGGGTGCCA
GGAAAGTGGGTTGACTACCACATCTCTGCCCTAGTTTTGAGTGCTGCAGATTAAATCCAGGGCTCTGTGCGCACTGGGCAAGTGTTCTACCAGT
TAATTACATCCCCAACACCCAACAGTCAGTGAGCCAACCTCTCTGCGGATCTCTGCCTATCTAGTTTCTTAGAATAGAACCTGACCTGCTGTCA
AAACAGAATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATT
TTTTTAAACTTAAGTGAAAATGCTTTTAATACAACTGTGTTTTTGCTTTGTTTTAACTTACTTATGAGAACATTAGTCTCAGTAGTTTTACCCTT
TATTTACAGGGAACACTATGCCTGATAGTGTTTCAAATAATTTGTTAAAGGATCCTACAACTAATTATTACATTTAATAAGACAGGCTAGAACT
TGAAAGCTCAGCGGTTAAGAGCCCTGACTGCTCTTCCAGAGGTCCTGAGTTCAACTCCCAGCAACCACATGGTGGCTCACAACCATCTATAATG
GGATCTGGTGCCCTCTTCTGGTGTGTCTGAAGACAGCAACAGTATACTTAGATATAATAATAAATTAATCTTAAAAAAAAAAGACTACTTTTAT
GTCAAGCTGACTGTATTTTCTGGAAGAGAAATGATGTGTCTGCAGTTAAGCAGCATCTTGGTAGCAAATTGAGAATGCCTGTGTCCTGAATTCT
AGAGCAGTGTATTTTTATCAGTTGTAAGTAAGTTGATTTGCGGATGAACTTAGTGTATGATTTGAAGTTGAATCTCTTGTTTGCATTTTTGTGA
GACAGGGTCTCTTATTTAGTTCTGACTCTTGGCTGTCCTGGAACTCACTGTATAGACCAGGCTGGTTTTGAACCTACAGAGATCTTCCAGTCTC
TGCCTCCTGAATGAATGCTAGGATTAAAGGCATACACCACATGCCTGGCCTGAAGTTGAATCTTTTAATCTCAGCACTCAGGAAGCAGGGACAG
CAGAGCTCTCTGAGGTAATAGCCAATATAGTGTCACATGAGGTAATAGCCAATATAGTGTCACATGAGGTAATAGCCAATATAGTGTCACATGA
GGTAATAGCCAATATAGTGTCACATGAGGTAATAGCCAATATAGTGTCACATGAGGTAATAGCCAATATAGTGTCACATGAGGTAATAGCCAAT
ATAGTGTCACATGAGGTAATAGCCAATATAGTGTCACATGAGGTAATAGCCAATATAGTGTCACATGAGGTAATAGCCAATATAGTGTCACATG
AGGTAATAGCCAATATAGTGTCACATGAGGTAATAGCCAATATAGTGTCACATGAGGTAATAGCCAA

TATAGTGTCACATGAGGCCCCAGGCCAACTAAGGCTGCATCGGAAAACCCAGATGCCAGCTTGGTGTTTGTGTGTCGTCACTAGCACTCCGTCA
CACTAGCCTGTGAGTCAGGGAGGCCTTCGTCTTCCTGTGTTTAATAGGATAAACTCACAGTGGTGCTTCAGATAATAGTGGGTGTGCATATAAT
CACACACGTAGGAAAGGTCATTGTGGAAGATCTTTTTATGGTATTGTGGGAACCTTAACCAAAGAAAGATGAGTGGGGCTTAGAAACTCAGATT
ATCTTACTGAGAAAAAGTTAGTGTGTGGATTGATTTAGGAAACAAGATGTGGCTGGAGCATGGGTATTGAATAGGGTGGAGGGTGTGTTTAGCT
GGACATTTGAAAATGTTAATGCAGTCATTCTGAGTGTAACCTCGGGGCTAAGGGGCTCTGACTTTTCCTTCATGAGGTAGGACTTTTGAGTAAG
GTAGTAACCTTGAACCCAGTCTATGTGGTCTGGGGCTGAGAAGGAAATAGTGGCTCGGGATGAACCCGGGAGCTCTAAATGAGGCCCAGAGGCA
ATGCATTTACATTCGCTGCATTCTTCCTCCATAGGATCTTGACGATGGCGTAAGTGAGCATTCTGGTGATTGCCTGGATCAGGATTCAGTTTCT
GATCAGTTTAGCGTGGAATTTGAAGTTGAGTCTCTGGACTCGGAAGATTACAGCCTGAGTGACGAAGGGCACGAGCTCTCAGATGAGGATGATG
AGGTGGGTTTCTGTGTCTGTCAGCCTTTTAGTAAGATGAAGAGGCCATCTATTCAGAGTCTCTGGAAAGTCTTGCTTTTTCATTTGTTCAAGAT
AGAATATTGCTTTGTGGATTTGAGGTGAAATTTTATAGTTTCTTTGCTTGATTTATTTATTTAGATTTATTTGTTATGTATACAGCATTCTGCC
TGCATGTATGTCTGCAGGCCAGAAGAGGGCACTAGATATGGTTACTAGCCACCATGTGGTTGCTGGGAATTGAACTCAGGACCTTTGGAAGAAC
AGACAGTGCTCTTAACCTCTGAGTCATCTCTCCAGCCCTTTGCTTGATTTATTATAGTCTCACATTACTAAATAAAAAACTTAGAGGAGAGTTT
GAACAATGTTTTTAAACTTTTTTTGAGTTGATGGGGTGTTTTTGTTTTGTTTGTTTGTTTTGCTTTTTGAGACTTGGTTTTTTTTTTTTGTTTTTGTT
TTTGTTTTTGTTTTTTTTTTTTGGTTTTTCGAGACAGGGTTTCTCTGTGTAGCCGTGGCTGTCCTGGAACTCACTTTGTAGACCAGGCTGGCCTC
GAACTCAGAAATCCACCTGCCTCTGCCTCCCAAGTGCTGGGATTAAAGGCCTTCGCCACCACGCCCGGCGAGACTTGGTTTTTCTGTATGGCCC
TAGCTGTCCTGGAACTTGCTTTGTAGACCAGGCTGGCCTCAGATCTGCCTGCCTTTGCTTCCCAAGTCCTGGAATTAAAGGTGTGCGCCACCAC
TGCTCTGCTAATGATGGATGAACATTCTCATAATGGCTGGACCACAAAGTTCTCCATTTGGTCTTCCCATTTATGTATGTATGTGTGTGTGTGT
ATTTGTTTTTGAGACAGGGTACCACCGTGTATCCCTGGCTGACCCTGAACTGGCTATCTAGACCAGCCTGGCCTCAAACTCATGGGAATCCTCT
TGCCTCTGCCTCCTGATTGCTGGGATGAAAGGTGTGAGCCCCTACTTCTGCCCCTCCCTTCTCAGTACTGATTTGTTTTTCACCAATGTAAAGC
ATGCAACGAACAGTGTCCAATAGGACCCGAGTATCTCTTTCTCGGGAGCAACTCTACATTTCTAGTTGTTTTCTGTCTAATAACTCTAAATTTA
TAAAATGTCTTCTTGAGTGTTTTGTTTGGTTTTAAGTATCTAACAACTCTTGCCATTGCGAGTAAAGGTTTTCCTATCCTGCGTTTCCTGCTTG
CCTTGAACTGCATTTAACTTTCTTTCAGAACTCTTCGTCCACAGTTAATGGCTCAAGCTGTTTGTTTTAAGACTTACTGAGAATTCTGGCTTCT
TGGTTGAAGGGTTGAATTGATGCTAATGAATTTGTCTTACTAGGTCTATCGGGTCACAGTCTATCAGACAGGAGAAAGCGATACAGACTCTTTT
GAAGGAGATCCTGAGATTTCCTTAGCTGTAAGTATATAGATTCTTCAAAGAAATAAAACACAATGTTGAGATCAGAATTAGGACTATAGGTAGT
TGTGAGCCACCACGTGTGTGCTCAGAACCTGAGCCATCTCTAGCCTGTCACTATTTCATATAGGTCACCTTTTGTGTGTGTGTGTGTGTAGG
GGAAAGTACCTAGAGTCTACTCTATTAGCTAATTTCTGGTATATAGTATTAGATATATTCCTCATGTTCTTTGCCTATTTATGTAAAATATGAA
ATGCTGAAAATTAAGCTACATGGTATACTTTTACCTTAGCCACATTGAAGTTATTAGCCTTGCTATGAACACTGACTGAAGAGTTACTGTCTTT
TTTATTGAAGGACTATTGGAAGTGTACCTCATGCAATGAAATGAATCCTCCCCTTCCATCACACTGCAAAAGATGCTGGACCCTTCGTGAGAAC
TGGCTTCCAGACGATAAGGGGAAAGATAAAGTGGAAATCTCTGAAAAAGCCAAACTGGAAAACTCAGCTCAGGCAGAAGAAGGCTTGGATGTGC
CTGATGGCAAAAAGCTGACAGAGAATGATGCTAAAGAGCCATGTGCTGAGGAGGACAGCGAGGAGAAGGCCGAACAGACGCCCCTGTCCCAGGA
GAGTGACGACTATTCCCAACCATCGACTTCCAGCAGCATTGTTTATAGCAGCCAAGAAAGCGTGAAAGAGTTGAAGGAGGAAACGCAGGACAAA
GACGAGAGTGTGGAATCTAGCTTCTCCCTGAATGCCATCGAACCATGTGTGATCTGCCAGGGGCGGCCTAAAAATGGCTGCATTGTTCACGGCA
AGACTGGACACCTCATGTCATGTTTCACGTGTGCAAAGAAGCTAAAAAAAAGAAACAAGCCCTGCCCAGTGTGCAGACAGCCAATCCAAATGAT
TGTGCTAACTTACTTCAACTAGCTGACCTGCTCACAAAAATAGAATTTTATATTTCTAACTATATGACCCCCAAATTAGACAACATGGGTATTA
TTTTTATACATTAAAGCCAGAAAACTGTCTTAGTCCACATAAAATTCACTTATAATTTATCCTGGAGAGTAAATATGGTGAATATTTTCTTCCT
TTTTAGGGAAATTTCACTTGTTTATTTTATATTTGTGTTTTAAGTAATTTGCATTGGCTGTTTATATTTTCCTTATATTTTAAATAATCTCCGC
TTGGAAGGACTTTGGAAGTGTATGTGAGAAGTCCTTTCCATCTCCTGCAGATGATGGTGGACCTTCCTCATCAAGGGCTACAGAAGTACTTGAT
TTCTGTTTTTTTTTGTTAATAATAAGAACATTTAATTTATTTAGTGTCTTTCATGTAAAGAGTTAAAGACTATGTGAAGGATTGTATATTTAAGT
TATTGAAATTCTGAAACTGTAGTAATCTAAAATGTGTGAGTTGTGGGCTGCAGAGAAGACTCAGCCAGTAAAGGCACCTGCTGTGTACACCCAC
TGACACACATTTGATCCTTGGAACCCCCAGGAAGAGTGAACCAGTTCCACAAAGTTGTTCCCTGATCTTCAAATGGATGCACGCACGCACGCAC
ACACACGCGCGCGTGCGCACACACACACACACACACACACACACACACACACACACAGTTTTAAAGGCATGAATTGCATCTGGTGGTATGTAAGTG
AAAACACACGCCTTATTTTCCAGCATTTTCAGCTTTTTGTCATAGGGGTGTGGCACAAGTGTTGCAGTTTGTCCCAGGTTGAAAAGCCTGAGGC
TGGTAGAAGCGCCTTTTTGCCTCAGCTCCGTGGTTCCTGGTGGTTGCCTATGTTTCAGGCCTGTACTTAGGCTAGGTTTAGAAACCAGCCCATT
CAGAAAGACTGAATCAGAACATGGATAAAGTGAACTCATTCTAAGATGACTCGTCTATCCATGTAGATTAATCTCCTGGTTCATAATAGGCCTC
TTCCCTTTGATTGAAGGGTCACGTCTAAGTATAGAAAACATAAAACTGTAAGGTAGAGGAAGCGAAGGATAGCTTTGTATTAATGTTGCGTTAA
AGCTTCAGAGACAAGAACAAGAACACTCCTCCCACGTGACAGCATTTGAATAGGAGGCGGTGGGTGCGGCAGCCTGGGCAGCTTCAGTCCCGAT
TTACAATAAAGTACCTTGTGTGTTATTAGTTCTTAAATGTTTATTTAGAAATGGCATTGATGTTATTTATTTGCAAATAAATGGTTTATTGAAG
AATTGTGAAAGAGATTTGTCTTACACATTTTTTTGTCAGTGATTTTGTTTTTAAAGATTTGTTCATTATATGTGAGTACACTGTAGCTGTCTTC
AGACGCACCAGAAGAGGGCGTCAGATCTCATTACAGATGGTTGTGACCCACCATGTGGTGGCTGGGAGTTGAACTCAGGACCTTTGGAAGAGCA
GTCAGTGCTCTTAACCACCGAGCCATCTCAGCAGCCCCCATCAGTGATCTTTTTATAATTCATTTTTATTTTATGTTCATTGGTGTTATGGCTA
TATGTCTGTGAGGGTGACAGAAACCCTGGAACTGGAGTTACAGACAGGTGTGAGCTGCCCTGTGGGTGCTGGGAAATTGATCCATTGCTCTCCA
CCTTTTTAAAATTTGTGTGTATGAATAATTCGTCCACATGTATATGTATTGTGTGCATACACTGCCTTGAACTACATGCATGCAGTGCCTGAAG
AGGCCGGAAGAGGGCATCAGATCCTTAGGACCCGAGTTCCAGGCTAGGAGCCTAACCCTGTCCTCTGTAAGAGCAGATGCTGCTCTTGACCACA
CAGCTGTCTACATGCCGCCTTTTTTTTTTTTTTTTAAGGTTTATATATTTTATGTATATGAGTACACTGTAGCTGTACAGATGGTTGTGAGCCTT
CATATGGTTGTTGGGAATTGAATTTTAGGACCTCTGCTGGCTGCTTGCTCCGGCTCAAAGCTTTATTTATTATAAGTACACTGTAGCTGTCTTA
CTATAAGAGGGCATCAAGTCTCACTACAGGTGGTTGTGAGCCACCATGTAGTTGCTGGGATTTGAACTCAGAATTTCTGGGAGAGCAGCCAGTG
TTCTTAACCACTCAGCTATCTCTCCAGCCCCTAATAGCTACAAATTTAAATACTTTAGGCAATTTTGCCTAGGGATTTCCCAATATATTATATT
GCAATGGATTTTCTTTTGAGTCGGAGAAATGTTTGCGATTTAACTTAAAGTTAAGATACTTGTGTGGAGGAGATGGCTCAGTGCTTGTCTTGTG
CCCTGATTCCATCCCCAGAAACCGTGGATATGGTGGCACTCATCTGTAACCACAGCATGAGAGATGACAGGCAGACCCACAGGCGAATCATCTG
GAAGCTTGCTGGTCAGCTGGCTTGCAGTATGCATCATGACAGAAACAAGAGGCTACCACAAGGTGGAAGGCCGGAGACTGTTAGGTTTTGGGTG
TTGCTAAATACTGGCCCTGGTTGCCTCCAGGGGCTGGGAAATTCTCACTTAAACCCAGATGATGCTCTGTAATCTTGTCCCCCAAGTTATCCCC
GATTGGCGAATAAAGATGCCTGCAGCCTGTAGCTGTGTGGAAGAGAGACAGGTGGGGTTTGGGGGTCTGAGGCAGGAAGAAGAAAGAGGTGGAG
AGAGGAGAGTGTAGGTGAGTCTGGAAGAAGTCAGTGCTCTTAATCCCTGAGCCATCTTTCTAGCCCCATATAGCAGTCTTTTCTAGTTTGTAGA
TTTTTGTTATGTTTGCAAACAAAACAGTAGTGGAAAGAGACAACATTCACTATATGAATATTCTTTATTGATAATCAGATAATGTAAATAAAAT
AAGCTCAGAGGTAGTCATGGTCCCTCCCAAGCAAACGTTGTAATCTTAGATAATCTGAGAATTTATTTATTTTTCTGTGTAGCCCTGGCTGTCT
TGGAACTCACTGTGTAGACCAGGCAGGCTGGATTTGAACTCAGAGTCCCCCTCTGCCTCTGCCTCTGGAGTACTGGGATTAAAGGCGTGGTCCAG
CACTGCCACCACTCAACCTGGGCACCTTTAATAGCTTCTGCTTCTGTGCTTTTAATGGCAGGAATCACTTAGAAGCTTGTTAAACAAAAACCCG
CATGAAGTCTCTCGCACAGAGCTGTGGGTTGGCTTGTGAGCTTAAGGTTTGATTAAACGGCCTGTGAGACACAGTACAGCATCTTATTAGTGAT
GCAAGTCTAGAACAAACTCGGTGAAGAATCTGTTGTAGGCACCAAGAACCCGATGCTCTTCACCTAATCCAGCATCATTCTCTCCCGTACCTGA
GGTCACCAGGAAGGCAGAATTGAGCTCACAAACCTTCACTAGATGCCCCCTCGGAGACTGAGAATGAAACTCCTGTTGCAATAGGAAAATAAGT
GTGCTATATGGCTTTGTATATTTTTCCTAGAAACAGATACGTCTCAACCCAGCTTCAGCTCATACATTGGAAAGCAGATCTGATGTTAATACCA
TTTTAGTACAGGCAGAGTCTGAGAAAACTGGGACTGTTTTTGCTTGTTTGAAACGGGGGTTTTTCTGCGTAGCCCTGGCGGTCCCAGAACTCTG
TAGAAAAGACTGGCCTTGAACTCACAGAGATCCACCTGCCTCTGCTGCCTGGGTGCTAGGATTTTACCATCTCAATTCAAAAATGGGCACGCAT

GTAAACTAGGCACTTTGTGAAAGTTTCCTTGAAAAGGACGTGGTTTTTGGTAACCAGCATTTCCGTTTTCAGGTCACCTTTAGTAAGGTATATT
GCTTTCAAAACAGTTACAGACCCAAGTATTCCTTCTGCTTTCTCTACCTGGCAGAGGGCAACAGAATAATTTCCTGGTTATGTTTTGTCTTGGG
GGTAGTTAATGGAGATTAGACCCAAGCCTTTGCATATGCTAAGTACACTGTCACTGAGCTACACCCCTCACCCTGTTTTAGTGATTTTTACACT
GGGTTTTGATATATATTTCTGATTTAAGTAATGTAACCTGAATATGGACACAGCGGACCAGGTCTGTAATAGCTACTCCAGCGTCTACGGCAGG
CAGATCCAAAGCCAGTTTGGCTTACTATGAGTTCCAAGTGCAGGCTACACAGCTTAGTGAAATGCTGTGTCTGAACAAAAAGTAACAAAATAAA
GACGTAGCTGTGGCTCAATGGCCCTGTGCAAAGCCCTGGCACAGTCTCTGGTAAGACACGGGCACTTGCAAGTTGTTTCAGTACCAAGTCTCCG
GTTAGGCCCATGAGCAGCTCAGCGAACAGCTCATTTCCTTTCACGGAATCTTAGGAAAGGGTCAACCAGTCAGAACTCAGAACACCAGCTGATG
GCGAACCAAGTTTGCTCTTACATATCTTACTGGTTTTGCTTTTCTAAGATGGCTAGTCCAGGCTAGCCTTGAGCTGTGTCGATCTTGCCTCAGC
CTCCCAAGCGCTGGGATAATAGTTCACCACCACACCTGGCTTCGTCTTATATATATACTTCAAATGTAATATACCCAGATCCCTTTTTGAACTA
TTAATACGCGCCTTCTGGGATATAAGTTAATGCTTATTTAAATAAAATGATCAAGATACTCATGCTATTTCCAAATTTAGAAGCGGTTAAAAAG
CTATGCAGACTATTGATATTAAAATATAGATTAGGTTTGGCACCAAGAAAGGGCACCAGGGTGCCCACGTATCTCTTTAGAGTCTCAAGCCTTC
ATCGCCTGTCAAACCCCGCATGTTCTTACTTCCTGTGGGAAATGCATGTCACTTAGAAACCTGCACCTCGGAGTTACTGTTAATGTTCCTGTTT
GATATTTATCCTTTTTTTTTTCTTTTAATTTATTTACTTTTGAGACAGGGTCTGTCTGTGTAAACGAAGACATCCGCCCACCTCTGCCTTCTGA
GTGTTGGGATTAAAGGTGTGCGCCAACACGCCCAGCTTTCTCTTCTTCTAATGTTAGAATAAAGTTACTTTTACAGGGGACACTTTACTTCGAA
CTGTAAGAATTTGTTTTCTGGTCTAGAAGGCAGATTGGCTAACAGCTAATGCCTTTCCCTCAAGCCTCACAGCTCACCCATTTGCATTTATCTT
TGGATTTTGTTCTTTGACATACACGTGAAAAGTGTGTATGTGTGTGTGTGTGTACTAGTAAGCTGAATGTTGCCAAACATAAAACGCATTTACA
CAAAATTACTCAGATCCTTAGCGTTCTGGAAAGGTCTGTAGCGGTAGCTGAGACACTTCCCCATCCATTTATTTCCTGTTTTTTGGCTAGACTC
TGAGAAATTATTTCTCAAGCAGATCCTTGTCTTAAAGAGCTCATGGCGTGCTAGAGAAGGCCAGCACAGAGCAGTTCCACACCACGATGCTGTA
AAGTCACTAGTCAAAGGAACTTCTTTGAAGGATCGGCCTTGAACTTGACCACCTGGAACTCCATGGGCTTCCCCGTTGAAGACGATGCTTGGAA
TTCTTCCTTTTAAAAAATTTATTTATTTTACGTGTATGACTACATGGTTGCTGTCTTCAGACACACCAGAAGGCAGCCTCGGATCCCATTACAG
ATGGCTGTGAGCCACCATGTGGTGGCTGGGAATTGACCTCAGGACCTCTGGAAGAGCAGTCAGTGCTCTTAACCCCCCATGGAATGGAGTTTTA
CTGAGCAGGAAACAAGACGTGACACAATCAGAATCCAGACCTGGGACCGAGAGCACTTACTGTGTTGTGTTTAGGGAGCAGGAGAGCTTTGGGC
AGCCCAGCTCCCCAGGTTCTGTGTGGAAGACGGACTTGGCGAAAATACCCATGAGCAGCAGCTGGGTCAGCGGCGGAGGGACGCTAACTGGCCT
GGAGAGGCTGTATACAGCAGCTTCCAGTGACTGGATATGGGAATCGAACAGCCTTGCATGGCGTCTCAACAGTCAACCGGATGAACTGCAGTTC
CTAGGCATCGTAGTCAGGTGGGTGTGTCTGGTGAGCAGCTGGAGTTGCATCTGAGGCTCAGGCAAGGGACTGGGGTTATACAGGAGGGGTCATC
TTCGTAGGACTGTGGCATCAGGTGCAGGGGGCAAGGGCAAAGGCACGGGAGACAGAGGCCACTGCATCTGTACCCACATCAGACATGTTTGTCC
ATTTTCTCTCATTTGGCCTTAGACCATTGGCAAGAGTAAATGCTCTTAGTCCCGTTATCTAGAAATTTCTTCCTTTGGGGAGAACCACTTATAG
ACAATATCAGCTCTCTACAAATAACACGAAAGGTCGTAACACAGCAAGTGACCAGAAAGTGCCCGTCCTTGCGGCTCTGATCCACGTGGCTCTC
CGTAGACAAATTGTTTTTCTTGTAGGGATATCTGTTTTGCTTCTGAACTTTCTTACAAGTGTTTGGGACTCCTTCGGGGTGGCGTTTGTGTGGG
CAGCATGAGCTAAGCAGTGACCTCCACTTTATCCAGACTGAAGATGGATTTGGTCGTTACAGGTCGCTCTAGGCCAGGTTTGGAAACATCCGGT
TTTCTTCTTAAGGAAAACAGTGGAGTCTGTCCCAATCGCAGTCCCACAGGAGGGAGGGTTGCCATAACCGGGAGTAACCAATCCCTGATTCCCG
GAAGTCGAGTTTCACACCTTGCTTTATTTAAAAAATACGTACAAAAGAGTCATGAAAAACACGCCCAGACTAGGCTTTGTGGCAGCCGAGTGGC
TTGGCATGAATTTGTACAGCGGAATCATCGGGCACGAAGGATTGGATACGGAGATGGAATCCGGCTGCCATCGCAGCGGGAGGTGAAAATCCTT
TTTAAGAGCACTGAAGGGCTGGGATTTCCCTGGAATAGTAAGCTTCGTGAGGTAGGAGTCGTGTCCAGGGACTGTAACCTGAGAAGGAACAAGA
AACAATTACTTGAGTGATTTCAGATGGGTGTGAGGTCCACGCAGAAGACAGATCTCCACCCCTTTGAGCGGTGCATGCGTGGCTTGAAAGCGGT
CCACGCCTCCGGGGCTATAGCGCCCGGAAAGTTGCCAGTGTTTCTTGATGTAGGCCTTTGGTGCAAATGCTACCAAGAATTACAAAATGAAGTA
AGAACAGAGAGGGGGTTCAGCATCTAGTGAAGGAAAAGACTAAATGGAGGAAGCCACGACTGATTCTGCCACGGTCATTTTCAGTGTGCCGGGG
TAAAGGTGCTTTTTTTGGACCAAGCCTAGAGTATCCTTATTGGATATCAAGATTGTGAGTAGATTCTTCCTTCAACTTACTCCCATTCTCCTTG
CCACTGACCTAAGGTGTATAACTCTACTTCACTCCCCACCCCTCCTTTTTAAAAAGAAAGAAAGAAACAAAACAAAACCAAACCCAAAACCTTG
CACAAGAGCGGTTTTTTTGCCTGCACGTGTCTACCACTTGCATGCAGTGCTTACAGAGGCCAGAAGAGGGCAACAGATTTCCTAGAACTGGAGT
CGCGGATGGTCAGTTGTGAGCCACCCGGTGGATTCCAGAACTTCAACCCAGACCTTCGGAGCCCTTCTACCACTTTCTTTTAAAACTTTTAATT
GTGCCAGGCGGTGGTGGCGCATGCCTTTAAGCCCAGCACTTGGGAGGCTGAGACAGGCGGATTTCTGAGATCGAGGCCAGCCTGGCCTACAAAG
TGAGTTCCAGGACAGCCAGGACTATACAGAGAAACCCTGTTTTGAAAAAACAAACAAACAAACAAAACCCCAAAACCAAAACCAAAACCAAAC
AACTTTCAATTGTTTTAAAAACTAGTTTTGTTCTTGTGAATCTTCAGGTAGGTTGCGATTGCTCTTGGAGTTGCTACATAGACCAGGTTGACCT
CAAACTCACTGGGTCCACCTGCCTCTGGGCAGTGCTGGCATTCAGGGCTTCCTTTTGAGCACTTTATATATTCTAGAAACTCATCTCTTAATGG
AGAAGTCATTTGCAGATCTTTTTTCCCCAGGTCTGAAGACACAGGGACAATCTGCTCTTGGCTCCTTTGCCATGCTTCCTGGTTCGTTTTTCTTT
GTCTATCTTAATTTTGTGCCTTTGGGGCTCTATCTAAAAAAAACCCATCGCTTTACATAAATGGCTTGAAGTGTTTCCATTGTTTTCAAGCACG
CACACACACACACACACACACACACACACACACACACACACACACACAATTTATACCTAGGAGAAGCTCAAACATCTGCATCTGCAGCTGTGGCCA
GGAGAAGTGAATGGTAGGTCTGGAGCCACCCGGTAGCTCTGTTCCTGGAGCTGGGGGACCCAGCTGGCACCACCTGTCTAAGTTCCTGATTGAC
AGGTAGGACTGAGGGGCTGTCTTGCTACAGTGCCAATGCTGTGGTTGGCAGGGACTCCCCTAGATCTCGTGGGGGCAGACTGAGACAGCAGCGG
GGCTTGTGGCATGCCACATGGTAGCAGGGGGGGGGGGCTGTCTTTTCTTCAGTAAAATGTGCTCTGGACCAAGGCTTCAGCCAGAGTCCAAGAT
GGCTGACAGCTCCTATGCCAAGATGGTGTTTGGCAGTGGCTATGGAAGGGCAAGGAAAATGACAAAGAAAAGCCACTTTCAGAAGAGCTCTCTA
GATTGGATTTAAAGCTTGGGATTCCTCATTCATGGTTCCCTGCCACACTGGTGCTTGCTGGCATCTCCCATCGTCCTCAGTTCACAGGCAGGCC
TGGGTGCCAGGGCTGAAGCTGCTGAGTGTTTCTCTCTTTCCTCTGGGGTCATTTCCAGGCACACCTTTGTGCATCTTCCTAATTCCCCCTCTTT
CGCTCCTACCATGTGGTGTCTGCTTAGCTGCCCTGACTTCTCTGGCAGGGCTACCTGTAAGGCACCTTGGCTTACACTGGCTTCCTCCTGGGCT
GATTGATTAGGTTATCCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTACGCGTTAGAATAGCCGTCTTGAGCTGGGGA
TGGTTCACTGGGTGAAAGCGCTTGCCCAGCAAGCCCGACATGATTCAGTCTCTAGAATGTATGCTGGAAGGAGCAAACTGCCCTCAAAGCTGCT
TACCAACTTCTCCAAGTGTGCTATAGCCCACAGATGCGTACATAATTGAGAAAACATGGTAGGTGCTTGGTTAGGAAAACATATGACTTTCCTC
CCGGAGACAGTGTTTCTCTGTATAGCCCTGGCTGTCCTGGAACTAACTCTGTAGACCAGGCTGGCCTTGAACTCAGATCTGCCTGCCTCCGCCT
CCCGAGTGCTGGGGTCAAAGGCACATGCCACTGAGATGCCAAAGCTTTGAAATTCAGACTCCATTTTAGAAAACCTGACCTAAGTGTGAACTCA
GGTAGACCAACAGGCTGGTATCTAATAGCATTAGTTTCCAAGTTGCCCCCCAACAGAACCTGAGCCTAGCTCCCGTCTCTAGTCTAATCCCCAA
CAAGAGCAGAGTTTCCAGGTTACACCCTCAACAGGACCAGTGTCTCCAGGCTATTTCCCCAACAAATCTGCACCCCCAAGTTACAAGCCTACCC
TCTGCCTAACGACCACCAATGCAGAGGGGAGCAGAAGTTAAGTCTATGATAGACTCCCAGCACCAGCCAATCATGTTAAAGGCCACAGGAGCTT
TCCAATGAGATGCTTGCACATGTACTCCCTGCTTGCTGCTTACTATAAAGCCTTGACCCATAGACATTCTGGGCTCCCCACCACCACCACCAAA
ACTGTCCTGCCCTGCGTAATGGTGGTGCGTTGGGGGATGGGCGGGAGGGTTGTTCGAACAGAATAAAGACCCTGGTGAGTTGCACCAGATTGGC
TCCTGTGTGTGTTTTGGGGGATCACTAACATTTCCCTGGCGCAACACCATCACTGCGAGACTATATGTGATTCCCCCTCATTGGTTTGTTTCTG
CCTTCCACTCCTCTCCTATTGCAGGCCTGATGTTAACCTTGCCTTCCAAGCCTTGCTG

MOUSE SEQUENCE - mRNA

GAGGAGCCGCCGCCTTCTCGTCGCTCGAGCTCTGGACGACCATGGTCGCTCAGGCCCCGTCCGCGGGGCCTCCGCGCTCCCCGTGAAGGGTCGG
AAGATGCGCGGGAAGTAGCAGCCGTCTGCTGGGCGAGCGGGAGACCGACCGGACACCCCTGGGGGACCCTCTCGGATCACCGCGCTTCTCCTGC
GGCCTCCAGGCCAATGTGCAATACCAACATGTCTGTGTCTACCGAGGGTGCTGCAAGCACCTCACAGATTCCAGCTTCGGAACAAGAGACTCTG
GTTAGACCAAAACCATTGCTTTTGAAGTTGTTAAAGTCCGTTGGAGCGCAAAACGACACTTACACTATGAAAGAGATTATATTTTATATTGGCC

AGTATATTATGACTAAGAGGTTATATGACGAGAAGCAGCAGCACATTGTGTATTGTTCAAATGATCTCCTAGGAGATGTGTTTGGAGTCCCGAG
TTTCTCTGTGAAGGAGCACAGGAAAATATATGCAATGATCTACAGAAATTTAGTGGCTGTAAGTCAGCAAGACTCTGGCACATCGCTGAGTGAG
AGCAGACGTCAGCCTGAAGGTGGGAGTGATCTGAAGGATCCTTTGCAAGCGCCACCAGAAGAGAAACCTTCATCTTCTGATTTAATTTCTAGAC
TGTCTACCTCATCTAGAAGGAGATCCATTAGTGAGACAGAAGAGAACACAGGATGAGCTACCTGGGGAGCGGCACCGGAAGCGCCGCAGGTCCCT
GTCCTTTGATCCGAGCCTGGGTCTGTGTGAGCTGAGGGAGATGTGCAGCGGCGGCACGAGCAGCAGTAGCAGCAGCAGCAGCGAGTCCACAGAG
ACGCCCTCGCATCAGGATCTTGACGATGGCGTAAGTGAGCATTCTGGTGATTGCCTGGATCAGGATTCAGTTTCTGATCAGTTTAGCGTGGAAT
TTGAAGTTGAGTCTCTGGACTCGGAAGATTACAGCCTGAGTGACGAAGGGCACGAGCTCTCAGATGAGGATGGAATGAGGTCTATCGGGTCACAGT
CTATCAGACAGGAGAAAGCGATACAGACTCTTTTGAAGGAGATCCTGAGATTTCCTTAGCTGACTATTGGAAGTGTACCTCATGCAATGAAATG
AATCCTCCCCTTCCATCACACTGCAAAAGATGCTGGACCCTTCGTGAGAACTGGCTTCCAGACGATAAGGGGAAAGATAAAGTGGAAATCTCTG
AAAAAGCCAAACTGGAAAACTCAGCTCAGGCAGAAGAAGGCTTGGATGTGCCTGATGGCAAAAAGCTGACAGAGAATGATGCTAAAGAGCCATG
TGCTGAGGAGGACAGCGAGGAGAAGGCCGAACAGACGCCCCTGTCCCAGGAGAGTGACGACTATTCCCAACCATCGACTTCCAGCAGCATTGTT
TATAGCAGCCAAGAAAGCGTGAAAGAGTTGAAGGAGGAAACGCAGCACAAAGACGAGAGTGTGGAATCTAGCTTCTCCCTGAATGCCATCGAAC
CATGTGTGATCTGCCAGGGGCGGCCTAAAAATGGCTGCATTGTTCACGGCAAGACTGGACACCTCATGTCATGTTTCACGTGTGCAAAGAAGCT
AAAAAAAAGAAACAAGCCCTGCCCAGTGTGCAGACAGCCAATCCAAATGATTGTGCTAAGTTACTTCAACTAGCTGACCTGCTCACAAAAATAG
AATTTTATATTTCTAACT

MOUSE SEQUENCE - CODING
ATGTGCAATACCAACATGTCTGTGTCTACCGAGGGTGCTGCAAGCACCTCACAGATTCCAGCTTCGGAACAAGAGACTCTGGTTAGACCAAAAC
CATTGCTTTTGAAGTTGTTAAAGTCCGTTGGAGCGCAAAACGACACTTACACTATGAAAGAGATTATATTTTATATTGGCCAGTATATTATGAC
TAAGAGGTTATATGACGAGAAGCAGCAGCACATTGTGTATTGTTCAAATGATCTCCTAGGAGATGTGTTTGGAGTCCCGAGTTTCTCTGTGAAG
GAGCACAGGAAAATATATGCAATGATCTACAGAAATTTAGTGGCTGTAAGTCAGCAAGACTCTGGCACATCGCTGAGTGAGAGCAGACGTCAGC
CTGAAGGTGGGAGTGATCTGAAGGATCCTTTGCAAGCGCCACCAGAAGAGAAACCTTCATCTTCTGATTTAATTTCTAGACTGTCTACCTCATC
TAGAAGGAGATCCATTAGTGAGACAGAAGAGAACACAGATGAGCTACCTGGGGAGCGGCACCGGAAGCGCCGCAGGTCCCTGTCCTTTGATCCG
AGCCTGGGTCTGTGTGAGCTGAGGGAGATGTGCAGCGGCGGCACGAGCAGCAGTAGCAGCAGCAGCAGCGAGTCCACAGAGACGCCCTCGCATC
AGGATCTTGACGATGGCGTAAGTGAGCATTCTGGTGATTGCCTGGATCAGGATTCAGTTTCTGATCAGTTTAGCGTGGAATTTGAAGTTGAGTC
TCTGGACTCGGAAGATTACAGCCTGAGTGACGAAGGGCACGAGCTCTCAGATGAGGATGATGAGGTCTATCGGGTCACAGTCTATCAGACAGGA
GAAAGCGATACAGACTCTTTTGAAGGAGATCCTGAGATTTCCTTAGCTGACTATTGGAAGTGTACCTCATGCAATGAAATGAATCCTCCCCTTC
CATCACACTGCAAAAGATGCTGGACCCTTCGTGAGAACTGGCTTCCAGACGATAAGGGGAAAGATAAAGTGGAAATCTCTGAAAAAGCCAAACT
GGAAAACTCAGCTCAGGCAGAAGAAGGCTTGGATGTGCCTGATGGCAAAAAGCTGACAGAGAATGATGCTAAAGAGCCATGTGCTGAGGAGGAC
AGCGAGGAGAAGGCCGAACAGACGCCCCTGTCCCAGGAGAGTGACGACTATTCCCAACCATCGACTTCCAGCAGCATTGTTTATAGCAGCCAAG
AAAGCGTGAAAGAGTTGAAGGAGGAAACGCAGCACAAAGACGAGAGTGTGGAATCTAGCTTCTCCCTGAATGCCATCGAACCATGTGTGATCTG
CCAGGGGCGGCCTAAAAATGGCTGCATTGTTCACGGCAAGACTGGACACCTCATGTCATGTTTCACGTGTGCAAAGAAGCTAAAAAAAAGAAAC
AAGCCCTGCCCAGTGTGCAGACAGCCAATCCAAATGATTGTGCTAAGTTACTTCAACTAG

HUMAN SEQUENCE - GENOMIC
CGAGTAGCTGGGATTACAGGCACCTGCCACCACGCCTGGCTAATTTTTGTATTTCTAGTAGAAACGGGGTTTCACCATGTTGGCCAGGCTGGTC
TCGAACTCCTGACCTCAGATGATCCGCCCGCCTCGGCCTCTCAAAGTGCTGGGATTACTGGCGTGAGCCACCGCACTTGGCAGTTCTTTTTTTT
CTTTTTTCTTTGAGATGGAGTCTCGCTGTGTCGCCGAGGCTGGAGTGCAGTGGCGCGATCTGGGCTCACTGCAAGCTCCGCCTCCTGGGTTCAT
GCCATTCTCCTGCCTCAGCCTCCAGAGTAGCTGGGACTACAGGCGCCCACTACCACACCTGGCTAATTTTTTTGTATTTTTTAGTAGAGACGG
AGTTTCACCATGTTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCACCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGTATGAGCC
ACCACGCCCGGCCAGTTCTTTTAGTTTTTAAAGCAGTCTCATTTCAGTTATTAATATTGACTTCTTCATTTTGAAACTTCAAATAATATTTGAT
TCAAAGCTTTCCTCCTCTTACCAGAGCAGGCTGGACCTGTGGCCCTGGTGACCTGGAATTGGAAATGGGGGTGTGGGATGTAGGGCATAGGTCT
TCTTGTCACATCCCATTCTGTCTTCCCAATTATTACTTGTGGTACTCAGAATTCCAAGAATGACTCCCAGTGACCTTGCCTATGGATGATCCCC
TCCCCTTTAAGCGTGGGAGGAACCTGTGAATATGAGGAGATATTACTCCCATCATTCTGTTACATTACATGGCAAAAGGGAGATGATCTGGGTT
GGCCTCATCAAATCACATGAGCCTTTGAAGTCAGAGTTTTTTTCTGGCTGATAGCAGGAGAGTAAGTCAGGTTCAAAGCACAAGGGTGATTCAA
CACCCTGTTGCTGGCTTGAAGATGGAGGGGAGTGTGTAGCAAGGAATGCAGGAAGCCTTCAGGAGCTGAGAGTGGTCCTCACTGCTAGCAAGAA
AAAGGGGACTACCGTCCTACAACCACAAGGAACTGAATTTGGCTGACAATTTGAATAAGCTAGAAAGCAGGTTCTTCCCTAGATCCTTAAGAGC
CCAAGCTGGCCCACACCTTGATTTAGGCTTTATGACACCTGGAGCAGAGGAACCAGGTGAGCCTACCTGGATTTCTGATATATGGACTGTGAGC
TAATAATTTGTGTTGCTTTAAGCTACTACATTTATGGTAATTTGTTACACAGCCATAGAAAACCACACATGACTCCTGCCATCCCGATACCAGT
TGGGGTGGCAAGGAGGAAGGAGAGGAAAATTACATTTCTTTACATAATTGCCCTTCAAAATTAGTTGCCCTTTTATTAGCAGGACATAACTGTG
GTTCATTGTATGAACAACCTCAACTAGATCATGGGAAACATTTCTGTCCCTTTCTGTTGGTTGTCCCAGTTTCTCTGATTATTACCAATTGACC
ACCAGTTCTCTTCATCTGGCAGGTGTCCAAATGATATTTCTCCAGAAAGACTCGTGGCATGGTCCTGGTAGGAAGTTGAGTAGGGGTATATGAA
TGAAGCTCAACTTCTTTCTCCCTAGTCCAGCACATTCTACCAATAGATATTCTATGTCTTTTGCTTCCAGGGTTCTATTACCCAGGTAGTGGCC
ATTTTAGGAGTTACCAGCAGAACTGCTTATACTCCTTCCATCTTCTCCAGGAACCACTTAATCTGGGGGAAACTCCAGCAACCTTTCCACCCCA
AAGAGTGGGGATGCTGTTCAACTTCACTACCTTTCTTCTGCCAGCTGAATGGCTCTGTAACTTTCAGACTAGATACGATCACAGATCTCAGATT
TAGGTCAGCTGGGAGATTATAAACTCTTCGTTCCACGAAAAGATGACCTCTATTATTCCTGGTCCTTCCTTAAAACTCTTAAACGTGGCCGGGT
GCAGTGGCGCACGCCTATAATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACCTGAGGTCAGGAGTTCACGACCAGCCTGACTAACATGA
TGAAACATGTCTCTACTAAATACAAAAAATTAGCTGGGTGTGGTGGCACATGCCTGTAATCTGAGCTACTTCGGAGGCTGAGACAGGAGAATCA
CTTGTATCTGGGAGGCGGAGGTTGCACTGAGCCGAGATCAAGCCATTGCACTCCAGCCTGGGCAATAAGAGCAAAACTCCGTCTCAAAAAGAAA
AAAAAAACTCTCAATGGTAAAAGTTATCAAACCAGTTCAGCCTGTATTGCCCTTGTGGGAACCAGAGTCTCAGGCCAAGAATTGGGCCTTATTT
GAACTTAGCTTTAGAGAATTGAGCGTTCTTAACAGGGCAATATTCCTACTAAAATCTCTGAAATATTTGTTATCTTCTAAGAGCAGGAACTCAA
TTATGCTCCCATATCATTGTGTAATATTTTTCCTCTTAAAAATTCAGTTCATAAATGTCCAAAAAAAGAGATCTATTGTAACTAAGTAGAATTT
TATCTGAGTAAAACAAGGAAGGTCAATATTGGAAATCTATCAATATAATCTCACCACATAGACAGATTAAAGGAGAAAAGCCACAGGGTCATTT
CTAGGTGCATAAAAAAGCAGTGTATAAAACTGAACACTGATTCATACTTTTTTATAAGCTCAAAAAACCAGGAATAGAAGGAAACTTTTATGTA
ATAAAGAGCATCTACCTAAAATTTACAGCAAACATCACATTTTAAAAGCATTTTTACTAATGTCATGAATAAGATGAGGATGCCCACTATCATT
GCTACTATTCCATTCCAATGGTTGTAAGAAAATGAAAAAGAGGTTTAAGGAAGAGACAAGTTAGTGATTTTTGCATATGATATTATTAACATAG
AAAATCCAAGAGCATCTACTGAAAAACTAATAGTACTGTATAACAAAACAAAATACAGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGGGT
GGATCACGAGGTCAGGAGTTCGAGACCAGCCTGGCCAAGATGGCGAAACCCCATCTCTAGTAAAAATATAAAAATTAGCCAGGTGTGGTGGCAC
GCACCTGTAGTGCCAGATACTCAGGAGGCTAAGGCAGAAGAATCCTTTGAACCAGGGAGGCAGACACTGCAGTGAGCCGAGATTGTGCCACTGC
ACTCCCGTCTGGGTGACAGAGTGAGACTCCGTCTCAAAAAAAACCCAAAAAACAAAAAACAGAAAGAACAAAAAGCAGTATTGCTGG
CTGGCTATAAGATCAAAACACAAAAATGAGTAATTGTTTCATATGTTAGCAATAACCAAATAGAAAATAAAATGTTACGGCTGGGCATGGTGGC
TCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCGGATCACGAGGTCAGAAGATCGAGACCATCCTGGCTAACACGGTGAAACCTTG
TCTCTACTAAAAATACAAAAAAAAAATAGCCGGGCGTGGTGGCAGGCGCCTGTAGTCCCAGCTACTCCGGAGGCTGAGGCAGGAGAATGGCATG

AACCCGGGAGGCGGAGCTTACAGTGAGCCAAGATCGCACCACTGCACTCCAGCCTGGGTGACAGAGCGAAACTCCACCTCAAAAAAAAAGAAAA
GAAAATTTTAAAAGGTGTAATTTAAAAACAGCAATAAAACTTATAAAGCACTTCAGAAAAAAGCCAGCCAAACATACAACAGCTTTAAGGAGGA
AACAATAAAGCATTATTAAAGGATGTTAAGAGAGACCTAAAAATGGAGTGATATATCATGTTCTTATCTGGGAAGAATTCATACTGAAAATAAG
TCAAATTAGTCTAACAATCCAATGCAATGAAAAGCAAAATCCCAAGAGGATTCTTTTTGTGAATTAGACAAACTGGTTCTAAAAGTTAACATCC
AGGAAGAGCCAAAACAATACTGAAAAAGATAAAGAGAGCTTTTCCTGTTACATATTGAAACTTACTCTAAGGTTTACTATTCTGTTGCCCAGCA
AGTCCTCTTATAGGTATGCAGCCTACTGTCCGTGTTGTTTATGGATTCATAAATTTACAGTGAATGTATAAAACACAGACTTAGTGGACAGGCA
TCAAATTGATCATTATCAAGAGAAGGGAGGGGAATGGGATAAAGAATAACAGTGAAATTTTAATTTTTTAAGCAATGTTTCATTAAAAAAATTT
ATTTAGGCCAGGCTCAGTGGCTCACACCTGTAATCCTAGCATTTTGGGAGGCCAAGGCAGGTGGATTGCTTGAGGTCGGGAGTTTGAGACCAGC
CTGGCCAACATGGTAAAACCCCATCTCTACTAAAAATACTAAAGATTAGCCAGGCATAGTGGTACAATCTTGGCTCACTGCACTCAGTGTGGGC
GACAGAGCAAGACTCTGTTTCAAAAATAAATAAATAAATAATAAAAAAAATATGTTTGATGCAGGAATGACAAATGTGAATTCTGGGTAGTGGT
TTCTTTTTTTTCTTTTTTTGTTCTTCAGAGCAGAAGAACTTGAGGCGGTGGTTTCTTTTGTTGAATATTAATTGTTCTGTGAATGTTTCTGTATG
TTTCAGTCAAACAAAAAGTTGATTAATTTTCAAAGTAAAAACAAAAAGTCTTTGTATTCACTACTTGCTGGGATTTTGCTTTTTATTTTTTACT
TTATTTATTTATTTATTTTTTGAGATGGAGTCTCACTCTCACTCTGTCTCCCAGGCTGGAGCGCAGTGGCATGATCTCTGCCTCCCAGGTTTAA
GCAATTCTCCTGCCTCAGCCTCTGGAGTAGCTGGGATTACAGGCGTGCACCACCATACCCGGCTAATTTTTTGTATTTTAGTAGAGACAGGGTT
TCACCATGCTGGCCCAGGCTGGTCTCGAACTCCTGGCCTCAGGTGATCCACTCGCCTCACCCTGCCAAAGTGGTGGGATTACAGGCATGAGCCA
CCATGCCCGGCCTATTTTTTACTTTTTTATTTTCCAGGACAGAGTCTTGCTCTGCCGCCCAGGCTCGAGTGCAGTGGCGCGATCTCGGCTCACT
GCAACATCTGCCTCCCAGGTTCAAGAGATTCTGCTGCCTCAGCCTCCCGAGCAGCTGAGATTACAGGCTTGCACCACCATGCCCGCCTAATTTT
TGTATTTTTAGCAGGGACGGGGTTTTACATGCTGGTCTCAAACTCCTGACCTTCAGTGATCTGCCTGTCTTGGCCTCCCAAAGTACTGGGATTA
CAGGCGTGAGCCACTGCGTCCGGCCCGGATTTTGCCTTTTAAATAACACTATTCAGTTCCAGATGTTTGGAAAGACATAAGGAATTTGAACTAC
TTCTGTAATTTTAGATGGTCTCATAAATATTGTGAAACTCAGCATTCTAAACACGGTTTCTGAGCTAAATCTTGTTTAGTTTTCACCATGCTTT
AAAGATTAGTTGTGGCCAGGCACAGTGGCTCACGCCTGTAATCCCAGCATTTTGGGAGGGTGAGACGGGTGGATCACCTGAGGCCAGGAGTTCG
AGACCAGCCTGGCCAACATAGTGAAATCCCGTCTCTACTAAAAATACAAAAATTAGCCGGGTATGGTGGCACAAGCTTGTAATCCCAGCTACTC
GGGAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGGTGGAGGCTGCAATGAGCTGAGATCGTGCCACTGCACTCCAACCTGGGTGACAGAGT
GAGACTCCGTCTCAAAAAAAAAAAAAAAAGAAAGACAAAAGATTAGTTATGACTAATAAATACAAGTACGAAGTGGCCCTTGGGTCAAGATAAG
TCTGTTGTAGACTTTTTTTTTTCCCCTTGAGACATGGTCTCACTCTGTCACATAGGCTGGAGTGCAGTGGCAGGATCACACCACAACCTATCCG
GGCTCAAGCCATCCTCCCAGCTCTGGCTCCCAAGTAGCTAGGACTATAGGTGAGTGCCACCACGCCTGGCTAATTTTTTTTTGCAATTTATAGA
GACAGGGTTTCGCCATGTTGCTCAGGCTGGTCTCAAACTCTTGGCCTCAATAGATCCTCCAGCCTTGGCCTCCCACAGTGCTGGGATTACAGGT
GTGAGCCTTGTTTGCAGAGTTTAGGTCCCAGAGAATATAAAGACACTCAAAGTATCTCAACCTCTTGGAACACCTCTTGGGCATCAAGAACAAC
GCTACTAGAAATAAGCAGTTTGCCTCTAGAGAAACTTCAAGTAAGCACAACAAAGGGCAAAGTGACACAAGATAACTGTGGAATGCAAGCAAAC
AGCAGCAGCTGGTCTGTATTTTTTTAAATGGCAAAGTCACAAACAACAGCAACTGCTTTTAGAGTGAGCAGGTAGTTTGCTTTCTTTTTTTTCA
AATGGAACTCACTTTTTAAGTGATGACATGCACTTGGGGGTGGGTAGGTGTGAGTTCATTTGTGTTTTGAAATCCCAAATTAATGAGCATGATA
AACCGCTATTGCTGGCCCTGTCTGACTCTCTACTCTGAGTAATTGGTGGGTTCCCCCCAACCTTCTCCTAACCCTCACCCTTTTTCCCTTTCCA
TTGACTTGGGACAGTCCTTGTCAAAGTGCCAATCACAGTGGGAAGGAGGAGAAGGGGGGAGGTCACAGTGCATGGGATTCAAGGTCACAGTGGG
CGGAGCAACGGGGATCACCAGGCAAGTAAGTCAAGTTCCCGCTGCTCAAGTCCAGCTGTCTGCCACGGTAGTGCAACCCTTGGCGGACGACCCA
GGACGCGTTGACGCGGCAGTCGCGCCATCTCTTCTTGCCTGCATTTATCTGCGCTGTTTGAAGCCGTGTGACCCATCAGGACCCAGAGGCTGTC
TGATCACATTATTGGGCTGTCTGCTGTCTTCGGGTTAGGAGATCCTGGTTGGCCTGAAGGGAAGAAGATCAGAGGAAGACCTATCGAGGATGGG
TTTCTCCTGCTTCTCCTCGGGTTGGCGCTGCCCAGGATCCGCTTCCTGGCCTCGGTGTACTCGGCTTCCCACTGTGCCAGGGACTTGACTGGAA
GGGCGGGCCTGCTAGCGGACTTGGGGCTGCTGACCACACCGTTGCTGGTGGGCCTCTTGAGGATGCGGACCTGTGGAGGGGGTCCCGGGGGAAA
ATTATCATCCTGAATCACAATGGGCACTTTGGGAGATTTGAATTTCCTGCTTTCTGTGTGATCTTCAGTTTTTTTTCCAGACGTCTATTTCCCC
GCTGTCTGCCGTCTCCTCCCAGCTCTCAGCAACCTCCTCATATTCCATCTTACTCGCCACTTTCCAGATCGCTTGCTTTCTTATTTCCACATTT
TCTCTGACTTTTGCAGTATTCAATATTATTACCTGATTCTGATTTTTCAGACATCACTATATGGTCCTTGGCTTTTTGGTCGTTCCTCTCATTC
CTTTGCTGTTTCAAGCTCTGTTCCCAGCCTAAGCTTTTTACCACCGAATTCTGTTCTGTGACCCATAACTTAAAACTAACCCAACTTTTCATTC
CCTCCAGACTTTTTTTGGTAAGCAGTATCATCATGCTTTAGGTGGACACTGAGTCATACTGCTGTGGTAGTGCTGGTACACGTAGTTTTGAATA
CCAGGTTCTTGAGTGAATCCTTTTTACTTCTCTCTCTCCCCCACCCCCGCTTCTCCCTTCTGCCTTCATTTCTGACCCTTCTTTTCTGGTTC
CATTAGAAAAGGACTAATCTTATCAGTTCTGCCTTTTTTTTTCTGCTCTAATAATTTTGTCAAGATAATTTTTTCAAAGCACAAGGCCAATGAG
AAGGGGGAAAGTCGGTCCAGAAGGCAGCCGGCCCGACTATTCTGAGTTTGAATCTACTCTTGGTGGTCCTGTTAAAATACAGTTTGAAGCAAAT
CACTTGTTTTTATGCTTCTAATGTCTACTCTGTCGAAAGCCCAAATTTCCTTGCTTGGCATTTAAGGAGACTCCAAGTTCTTAAAACTTCTTCT
TGACTTTCATGCAAGTCAAACGGATTTATTTATTGTATCTCAAACAGTCCTCTTATATTTTCCTTTCTGTATTTTTTGATAATTTTCTTGTGCC
TGGAATATTCTCTGCTTTTATTTAAGTCTCACCATCTTTCAAGACACAAAATATGTGTGATCTCTGAGGCCTTTGTGAACTGCCTCCAGCATTT
ACTAAGCAATTAATTCTGTCTCTGAACTTTTATAGCACAAACCCATTCGTTCACTTGATATTTAACAAATATCAACCTCTATCACTTATCTCTT
TTTTTTTTTTTTTTCTTCTGAGATGGAGTCTTGCTCTGTCACCCAGGCTGGACTGCAGTGGCGCGATCTCCGCTCACTGCAACCTCTGCCTCCC
GAGATCAAGCGATTCTTCTGCCTCAGCCTCCCAAGTGGCTAGGATTACAGGCGCCCGCCACGGGGCCCGGCTAATTTTTGTATTTTTAGTAGAG
ACAAGGTTTCACCATCTTGGCCAGGCTGGTCTCGAACTCCTAACCTCGTGATCCACCCACCTCAGCCTCCCAAAGTGCTGGGATTACAAGCGTG
AGCCACCGTGCGCAGCCTATCACTTATCTTTTCATGCTTACATTTTCTCACTGCTTGAGATTTTCTTTCATCCAGGGTCAAGCACTGAGTCTAT
TAGAAACCCCACTGTATATGATCTGATGAAGATGAGATTATCTTTTTAAAAGCCACATATTAAATCTCTTAAGTTAATAATATTGGCAATCAAC
TTAAATCAACTGAGTGACCACTATGTTTAAGGAAGTTTCCTTTCTGGTAGGCTGGGAAGCGGGAGAAGGGAAGGATATAACTTTATAAAAAAAA
AAAAGCTGCAGAAGGGAAGGATATAACTTTATAAAAAAAGGTCCTTGTTCACAAGGAGCTAATCACTTACTGGCCAGAGAAGAAACGTGTTCCT
TCTTTGCAATGGCTGTGTTTTTGGGTTTAGCTAACTCAATTCTTTATGTCCTCAATTTATGAGACCGCATCAAAAACGTTTTTGCCACATCTCT
GTGGGAAAGTAGGTGAGTCAGAATGAGTGCATAATATATAAGTATATATTTTAATGATAATGAATGTGTAGATTAACAAACCCAAACTTTGTTT
TTGTTTTTTTTGAGAGTCTTGCCCTGTCGCCCAGGCTGGAGTGCAATGGCATGATCTTGGCTCACTGCAGCCTCTGCCTCCCGGGTTCACAGGAT
TGTCCTGCCTCAGCCTCCGGAGTAGAGTAGCTGGGATTACAGGTGACCGCCACCACGCCCGACTAATTTTTGTAGTTTTTAGTAGAGACGGCGT
TTCCCATGTTGGCCAGGTTGGTCTTGAACTCCTGACCTCAAGTGATCCACCCGCCTCGGCCTACCCAAAGTGATGGGATTACAAGCGTGAGCCA
CCGCGCCCAGCCAAACCCAAACATTCTAAAAGCGCAGAGTAACCGCTCCCCTCCCCGCCAACGGTAACCAGCATCTTCGTTCTCCAACCAGAAC
AGCTGTATGCACCGGTGTATAAGCCTGCCTTAAGTGCTATTTTTAATCTTTTTTAAAAACAGGCCTTAAAATAACTCATTTGGGTACAACTCCA
GCGGCTGGTGGAGTGGGCTTAATATATTAAACAGCTGTTAATTTTGGTTTCTTTTTGGTAACAGCGACACGGAGATCCGCATTTGTCGCAGTTT
CCACCGCGGGCGGGAAGTGTAAACACAAGAAATACAAACATAGCGCAACGGCTAAAGGAGTGTCACAGCGCCAAACCTTGCTGGCTCCGCGCCA
GGCCGAGCCCCACCCTCTCAGCTCGCGGCCAACACCCCCACCCCGCCTCACAGCCCGCCGCGCCCGCGGGGCGACACCCCCCACTCCATCATCC
CGGAGGTGGTGCGGCCGAGCCCCGGACCCAATTGGCGGAAGCGGGGCCGGTTGTGTGCGCGCGCACAAATGCCCGGATGCGCCGCGACGACCCG
CGCGCTCCCCTCGGGCGGTAGGGGGCGCGCACCGAGGCACCGCGGCGAGCTTGGCTGCTTCTGGGGCCTGTGTGGCCCTGTGTGTCGGAAAGAT
GGAGCAAGAAGCCGAGCCCGAGGGGCGGCCGCGACCCCTCTGACCGAGATCCTGCTGCTTTCGCAGCCAGGAGCACCGTCCCTCCCCGGATTAG
TGCGTACGAGCGCCCAGTGCCCTGGCCCGGAGAGTGGAATGATCCCCGAGGCCCAGGGCGTCGTGCTTCCGCGCGCCCCGTGAAGGAAACTGGG
GAGTCTTGAGGGACCCCCGACTCCAAGCGCGAAAACCCCGGATGGTGAGGAGCAGGTACTGGCCCGGCAGCGAGCGGTCACTTTTGGGTCTGGG
CTCTGACGGTGTCCCCTCTATCGCTGGTTCCCAGCCTCTGCCCGTTCGCAGCCTTTGTGCGGTTCGTGGCTGGGGGCTCGGGGCGCGGGGCGCG

SAGRES DISCOVERY 02-29

GGGCATGGGGCACGTGGCTTTGCGGAGGTTTTGTTGGACTGGGGCTAGGCAGTCGCCGCCAGGGAGGAGGGCGGGATTTCGGACGGCTCTCGCG
GCGGTGGGGGTGGGGGTGGTTCGGAGGTCTCCGCGGGAGTTCAGGGTAAAGGTCACGGGGGCCGGGGGCTGCGGGGCCGCTTCGGCGCGGGAGG
TCCGGATGATCGCAGGTGCCTGTCGGGTCACTAGTGTGAACGCTGCGCGTAGTCTGGGCGGGATTGGGCCGGTTCAGTGGGCAGGTTGACTCAG
CTTTTCCTCTTGAGCTGGTCAAGTTCAGACACGTTCCGAAACTGCAGTAAAAGGAGTTAAGTCCTGACTTGTCCTCCAGCTGGGGCTATTTAAAC
CATGCATTTTCCCAGCTGTGTTCAGTGGCGATTGGAGGGTAGACCTGTGGGCACGGACGCACGCCACTTTTTCTCTGCTGATCCAGGTAAGCAC
CGACTTGCTTGTAGCTTTAGTTTTAACTGTTGTTTATGTTCTTTATATATGATGTATTTTCCACAGATGTTTCATGATTTCCAGTTTTCATCGT
GTCTTTTTTTTTCCTTGTAGGCAAATGTGCAATACCAACATGTCTGTACCTACTGATGGTGCTGTAACCACCTCACAGATTCCAGCTTCGGAACA
AGAGACCCTGGTTAGTATTTTTGTCTCGTGTAACTTTTAAGAATAATTTATTTTATGAAGTGATAAACTAAATTTCGTATACCTCAATTGTAGC
ATGGCTCTGTAAATAAAATTGTATGTGCATAGCTTAAAGTGTGCTACCTCTGGCGTAACTGCGTGGAGTTAAAAACTGTTAAGAACTGGTCAGT
ATTTTTTTAGCCATTTGCCACATTTGCTTTAAAAATTAGTTCCATTACATTGTTAAGCGTGGTTGAAGTTACGTTTGTTACGTGACTGATTTTT
TTTTCCTTTTTGACCTCCCAGTATTTAATTTTTAAAAATGGTTTCTAAAAGTCAAAAAAATTATTCGTGCTTGTTTTAAAGATTTTTGTCATTA
GAGAAATTTTAAAGTAAAACCTGAAAATTCCAGGCTTTTTGCTCCATGTTTCCTTTTAGATTTTTTGTGTGCGTACCCACATATATTTACATTT
GAATTTAAATCTATGTTATTGTCCTGTTTGTTGTACTAACAAGATGAAACTGTAGTTGTTCTGTGACTTGCATCCTTGTCAATAAATAAAGTCT
ACAGAATTCTTTTTAATGGCTGCATAGTATTCCACAGCATGAGTATACCATTTTAAAAATTATTTATGCCTTTACTGATAGGTTTTTAAAAATT
GCCTCCTGTTTTTGAGTATTACAGATAGTGCCGCTTTGTACATGCATCCCGTGTGACTATTTCTGTAAGAAAGATTTTATAGAATTATAGGCTG
GCCTCGGTGGCTCACCCCTGTAATCCCATCACTTTGGGAGGCCAAGGCGGACCGATCACCTGAGATGAGGAGTTCAAGACTAGCCTGGCCAACA
TGGTGAAAACCTGTCTCTACTAAAAATACAAAAATTAGTCGGGCATGGTGGCGCGCGCCTATAATCCCCTGCTGAGGAGGCTGGGGCAGGAGAA
TCGCTTGAACCCAGGAGGCAGAGGTTGCGGTGAGCCAAGATTGCGCCATTTCACTCCAGCCTGGGCGATAAGAGCGAAACTCCGTCTAAAAAAA
AAAAAAAGAAAAGAAAAAGATTTTAGAGAATTAGAACTCCTGAGTTCTCAATTTTACTATTTGATTGCTACTGGTAACTTGCTCACCAAAAGGC
TCTAACAGTTTCACTCCTGCCAATACTGAATATCACCAATCTTTAATTATTATTATTATTTTTTTTTTTGAGGCGGAGTCTTGCTCTGTCTCCC
AGGCTGGAGTGCAGTGGCACAATCTCGGCTCACTGCAATCTCCGTTCCCCGGGTTCACGCCATTCCCCTGCCTCAGCCTCCCGAGTAGCTGGGA
CTACAGGCGCCCACCACCACGCCCGGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCATGTTAGCCAGGATGATCTTGATCCCCTGA
CCTGGTGATCCGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGTCACTGCGCCTGGCCTCTTTTATTATTATTACTATTTTTTT
GATAAAAGGTACTGTACCATTGTTTAAATTCATTTTTCTCTAGTTTCTTGGTGAGGCTGGGCACCTTTCCTTTTTGTTTTTGTTTTTGTTTTTT
TTGAGACAGAGTTTCACTCCTGTTGCCCAGGCTGGAGTGCAATGGCGAGATCTTGTCTCATTGCAACCTCTGCCTCACGGGTTCAAGCGATTCT
CTTGCCTCAGCCTCTGGAGTAGCTGGGATTACAGGCATGCGCCACCACGCTCAGCTAATTTTGTATTTTTAGTAGAGATGGGGTTTTTCCATGT
TGGTCAGGCTGGTCTTGAACTCCCAACTTCAGGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAATCACTGCACCAGG
CCTCCATTTTGTTAAGTCATTTATTTCTTCTGGGACTTGCCTAGTCTTATCTGTCCATTTTCCTTTTAGTTTTTTAAAATTTTTCTTAGTAATT
GGAGTAGCTCTATGTGTTTCAAGTATATTTAACTTTTGTTGTTTACTAATGTAGCATTTAATTTTATGTTGTCTTTTCCCCATTGAGAACAATT
CTGTGAAGTAAAATTTGTTGGCTTTTGAATTTCATATCATGCTTTGGAAGAACTCTCCTGTCCCAAGATCTTGCAAATATATTCCTATATTTTC
TTCTAGATTTAAATTTTTTAAATATTTAGATCTTCACCTGTAATTTACCTTCTTGTTCTTCAATGTAAGATTACAAATGCTATTATCTTTTATA
GCTGTTTTTCTCATTAATACATGTCTTTTAAGTCACTAATATACTGATGGCTTTCCATTACAGATTTTTTTTTTTTTTTTTTTTTTGAGACTGAGT
CTTGGTCTGTTGCCCAGGCTGGAGTGCAGTGGCATGATCTCGGCTCACTGCAACCTCTGCTTCCTGGGTTCAAGCAATTCTGCCGCAGCCTCCC
GAGTAGCTGGGATTACAGGCACCCACCTCCACACCCGGATAATTTTTGTACTTTTAGTAGAGATAGGGTTTCACCATGTTGTCCAGGCTGGTCT
TGAACTTCTGACCTCCTGATCTGCCTGTCTTGGCCTCCCAAAGTGCTGGGATTAAAGGCATGAGCCACTGCGCCTGGCCCACACCTGGGTAATT
TTTGTATATTTAATAGAGACGGAGTTTCACTGTGTTGGCCAGGCTGGTCTCACACTCCTGACCTCAGGTGATCTGCCTGCCTCGGCCTCCCAAA
GTGCTGGGATTACAGACCTGAGCCACTGCACCTGGCTTCCATTACAGATTTTTACTTTGAATTATTTTATCTAATTTGAAGCTAATATAGCATA
TAATAAAAATTCAGGAGAAAAAAGGTTATTTTTAAATCTTTTTTGAGAGAGTCCATTCTTTAGCCTGAAAGTAAAGTGCATATGTAAGCACAGT
TAAAAAAAAAAAAAGTGATCAGAAAAATTAATAATTCAATTCTATATGTATTTTAAATTTTTCAATTGTTAAATAATATTTGTTTTATTGATTAG
CTGGAAATAGGCAATTTTTAAAAATCTGTTTTTAAGGCATCCCCAATGGGGGTGCTGTCAGATTTTAAAGTTAGACAGAGGACCGGGGCATATT
AAAGAGAGGTGCAGAGGTACCAGTTTGTGTGGTAGTGGCAAGCTGTAAAGATACTTGAGTTTTGCAGATTTTGATAAACCAAAAGGAAGGGAGA
AAGTGCATAGTATATTACATTCCCCTCCCCCATGACAATTATTTTTCTCAAGACCATTTGTAAAACCTCTAGATAAGGGGCAGGCAAATGTTAG
CCTGTCAGCCAACTTTGGCCTGTTACCTGTTTTTGTTTTAGTTTTAAATTTTTTTGTAGAGGTGGAGTCTCTCAGTGTGGCCCAGGCTGGTC
TTGAACACCTAGCCTCAAGCAAACCTCTAGCACTGTCTCCCAAAGTGCTGGGGTTATAGGCAAGAGCCACCTCTCCCAGCCAGCTGCCTTTCTT
TCTGTAAGGAAAATTTACTGGAATGCAACCATGCCCGTTGGTTTACATAGTAGCCATGCTTTTTACTTGGATAGAACCATTTGTATGAAAAGC
TTAAAATACTTACAGTCTGGCTCTTTACAGAAAAAAATTGACCCCTAATCTAGTTGGCAGGCTCCTTGCATACAGGTCATATGTCTTATTTGTA
ATTTCTTTTGCAGTACCTACCACTGTCCAGTGCATAGTAGAAGCTCAATAAATGTTTGTCAAGTAGATATTTGAAATGTAGACTAACTAAGAGG
CAGCATGATATAGTAGGAAGAAAATGCTGAGTTGTAGTTGAGGGACCTGGGTTGTTATCTCTGATCTGTTCTTAATTACCCTTGTCAGCTTGGG
TTAGTTAGTTAGGTTCTCTAGCCTTCAGGAACCTAATCTTTAGAAAGAGAAGATTGATAACAGGACCCACTCTAAAGATTTATTCATTTCTCTT
TGATTCTCTAAGTTAGCTTGCAATAAGCTCGTTGGATCAGTACGGTAAGCTCATTGGATCTCAGTAATTTATGGTTGTTTGTAAGGCAGTAAGC
AGGTAATATAAATAGCTGAAGGAAAAAGTAATCTTTGCTCTTTTGGATTGGATACTATCTGTGATCACAACTGATACTTGATGATTCCATGATA
CTTGCATAATGATTAGATCCTCCCCAGCATTTTTTCCAAATCCCCTTTATTGAACTTGATGGATATGTTTGCTGCAGGGCCTATAGTTCTGGGA
TAATTTTGGAAGTATAATAGCAGTTCTTTTCTCTTTATAGGTTAGACCAAAGCCATTGCTTTTGAAGTTATTAAAGTCTGTTGGTGCACAAAAA
GACACTTATACTATGAAAGAGGTAAGCTGAATCAAGAGATAAGTAGTATCTCACTAGTTACATGTAGCCATACTTAAAGTTTTCAAGACCATGT
GGAGAAATTGGCCATATAGAAGGATTTTTCATTAAGCAGCAACATTTAATTTTGTGGTCGTTTGGACTATATTTTAAAGCTGAAAATTCTAATT
ATACTCGAGTTTCATTTCTCAGCTAGGAACTCAGATAAATGGAAGCCCCGTAAGGGTGCTTGACCATTTTATGCTGTCAACCCTTTGGTAGACT
CCTTCCCAGAATCATGTTTTTAAATGTATGAAATAAAATGTATAGAATTACAAAGGAAACATACTAAAATACGGTTACCAAAATAGTAAACTAG
TTTGTGATATGTGTGCTTTTGTTATTAACATAATAAATACTAAGATTTAGAAGAAGATATAATAAATATAATGTTTTTTTTGTTTTTTGAGACGA
AGTCTCGCTCTGTCACCCAAGCTGGAGTGCAGTGGCACGATCTCAGCTCACTGCAACCTCCGCCTCCTAGATTCAAGCCCTTCTTCTGCCTTAC
CCTTCCAAGTAGCTGGGATTATAGGCACCTGCCACCACGCCTGGCTAATTTTTTGTCTTTTTAGTAGAGATGGGGTTTCTCCATGTTGGCCAGG
CTGGTCTTGAACTCCTAGTCTCAGGTGATCCACTTGCCTTGGCCTCCCAAAATGCTGGGATTATAGGCATGAGCCACCATGCCTGGCCAATAAA
TATTATCTTGATATAGTGAGGAATATAAGTCATATTTTGAAATGTTTGCCATAAGTACAGTATGATAGGAAAACACCTCTGATTTTTGTTGGTG
ATGAAATCACAGGTATTAATACTGTTGTGATTTGTTGCCTACATTTATAATCGAAGGAAAAGCTAAATTCTAGTTAGAAGTTTGTGAAAATAAG
AATAGAATTTTTTTTTTTCCCATCCAAATTAATGGACCCCCTGAATTCTATCCAAGGACTTCTTGGGCATCCCTGGATCCCAGGTTAAGAACTTC
TGCACTAGAGATACATGAGTACAGTATACTGATCTTTCTGGGATAGAGGTGAGCTGATTCATGACCATATATTCTATCTAATGGTTCCAGCATT
TTAATGCATTCCCCACCTTTAAATTTGTGCACAGAAGCATGATTTTCAGTGACAGATTGAGCCACCTTAGGCAGAATTTCAGTGTGATTGAAAT
ATGCCTGTTCTCTGTCTCTCCCACTTAGTTTATGGGACTCAGATTACTTAAAACATTTAAGTTTCTTTCTTACAACGGTATAGTGGGGCAGGAA
GAGCTTCCATTTTTCTTTTTCCTCTCCAGCTATACTTTTAGAAACTTCCTTAAAGGATGTTTGGTAGAATAAATCTAAGTTCTCTTCCTTTTTC
CTTTCCCACTGCTGGACAGCAATCTGTCCAATCCACAGTCACATAAGAATATTCCTTTAAGGCCGATGCCTGCTTAGCCAGTTAAATCCAAAGA
CAGTGTTTGTAGGAAAGGGCCAGGTTAAATGGTATTTTTAAGGCTAATTTGGGATTGACCTTATTATCATTGGATAATCAGTTAAGGAAACAAA
AAAGTATGGATTTAGCAGTAGATAGAAATGAGAAAATTGGCCAAGGCCATCATAAAGACTTAGAATGCTTATGCTAAACTATGTAACAGTAGTG
TATGTATTGTCTGATATAGTTCTCAGTTATAGGATCTTTGTTCTGGGGCACACAGGAAGGTAGTGAAAGCTAGTATGGGTAGTAAAAAGAGCGT
TGGATTAAGAGTCAGAAGAGCTGGGGCCAGTTTCTTCTTCTTTTTTTTTTTTTTTTTTTTTTATGTGACAGTTTCTCACTCTCTTGCCCAGG

CTGGAGTGCAGTGGCATGATCACTGCTCGCTGCAGCCTGGACCTCGTGGGCTCAGGTGATCCTCCCACCTCAGTGTCTGCAGTAGCTAGGACTA
CAGGCTTGTACCACTATGCCTGGCTAATTTTTGTATTTTTTTGTAGAGATGGAGTTTCACTATGTTGCCCAGGCTGGTCTGGAACTCCTGGGCT
CAAGGGATCTGCTTACCTCGGCCTCCTAAAGTGCTAGATTTACAGGTGTGAGCCACTGTGCCCAACGCAATTTCTTCATTTCTAATACAGTGAT
AATAATCTTATGAAATATCAGAATGAGATAATACTTATAAAAGTACATTGTAAACTGTAAAATGCCATATGTATTTAGGTAGTTGTTAATAGGT
TTATATCTGGATATCTTAAAAATGTATTGCCAACTTCTTGTCTTAATGCAGCACAGGGAATATAATTTAACTTTTATTAATGGTTCAAAGTCAT
TATTTTGATTATTTATCATAATATGGAGTAAATTGATACCTTAGAGGGTTTATTTCATTCTCAGAATTCTCTCAAACTGTTTTGTAGCTGTCAT
TGATTGATTGTTTTTCTGTCTTCCTCCTCTGGTGACCTCAGAGGCTATTGAGGTTTATAGTATTTATGACTATTTACTAAGTGGCTCCAGACCA
CTGCCATATTTTAGTTGATTTTTGTTTCTGCAACTTTTTTGGCTATCAGTTTTTTATTTTGCTGCCTTTTCCCTTCCTAATATGTTAGTATCTA
AGTATCTGGGCAGAGTTAAAGTCTACAAGGAAAAAAACCTCACATTTTAAGGTTTGCTTAAGTAAATAGAGAAGCAGTTATTTCTGCTTCTGTC
AAATTAAATGGAAAAGGCTTAAAAGTAGCTTTTTTTTTTTTTTTTTTTTTTTTTTGAGATGAAGTCTCACTCTGTTGCTTAAGCCGGAGTGCA
GTGGCGCAATCTCGGCTCACTGCAGCCTCCACCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCTAATAGCTGGGATTACAGGTGTCTG
CCACCATGCCTGGCTAACTTTTGTATTTTTAGTAGAGATGGGACCAGGATGGTCTTTATCTCCTGACCTCGTGATCCATCCGCTTCGGCCTCCC
GAAGTACTGGGATTACAGGTGTGAGCCACTGCGCCCAGCCAAAAGTAGCTTCTAAGTACAAAATGGTTGTTCTACATAGTTGTGGATATGGTTC
CTGGTTGTTTACCCCTATTCAGATAAATAGGATATTATTAAATGTATTTACAACTAACATTTAGTTTTCTTTAATGCTCAGAAATCATATTTGT
ATTTCAGGTTCTTTTTTTATCTTGGCCAGTATATTATGACTAAACGATTATATGATGAGAAGCAACAACATATTGTATATTGTTCAAATGATCTT
CTAGGAGATTTGTTTGGCGTGCCAAGCTTCTCTGTGAAAGAGCACAGGTAATTCTTCAGTTTAGTCCATTGTAAAAAGCCATCTGGGCTAACAT
TTCAGTTCACCTCTACCCTCATTCACTTTTGTCAGAGAAAAACTGTTGAAACATATTAAAGACATGCTGAAACTTAATTTTTTAGCTCTGCGGC
ATATTATTTGAGAACCTGAGCTCTGGCATCTTATAAACCAGTGTTTGAAACCTAGCCCAATCATTTACTAGTTTTGTGACTAGATAAATTAACC
TTTTTAAACCTGCTTCCCCATTTATAAAATAGGGATAATTAAATACTTCATGTGGAGGTTAAAGCTCTTGAAGAGAGACGTTGTATAAAAAAGC
ATAGTTTTGGGCACATACAAAGCATTCAAGTATTAGCTGTAGCTATTATAACTTTTTATTCCAGAAACAGTATACCACCACGTGGTAAAGGCTT
ACATTTGAGCCTTAGTTATTTTGGAGATCATTTTCATTGTCACCTATCATTATGGCACTTAACCAGCAGAATTTAACCCAGGTAATATTTCTAG
AAATAGGCCTGGTGCGGTGGCTCACACCTGTAATCCCAGCACTTTGAGAGGCCAAGGCGGGTGGATCACCTGAGGTTGGGAGTTGGAGACCAGC
CTGACCAACATGGAGAAACCCTGTCTCTACTAAAAATACAAAATTAGCTGGGTGTGGTGGTGCATGCCTGTAATTCCAGCTACTCGGGAGGCTG
AGGCAGTAGAATCACTTGAACCAGGCAGGTGGAGGTTGTGGTTGAGGTGAGCCGAGATTGCGCCACTGCACTCCAGCCTGGGCAACGAGCAAAA
CTGCATCTGAAAAAAAAATTTTTTTAATATATATTTTTCTAAAATTATTCTTTTTTTTGTTTGTTTGTTTTGAGAGGGAGTCTTGCTCTATGGC
CCAGGCTGGAGTGCAGTGGCATGATCTTGGCTCACTGCAACCTCCGTCTCCTGGGTTCAAGTGATTCTCCTGCCTCGGCTTCCCGAGTAGCTGG
GATTACAGGTGCCTGCTGCCATGCCTAATTTTTGTATTTTTAGTAGAGACAGGGTTTCACGATGTTGACCAGGCTGGTCTTGAGCTCCTAACCT
TCGGTAATCCACCTGCCATGGCCTCCCAAAGTGCTGGGATTACAGATGTGAGCAACCACACCCGGCCTACATTTGGAATTCTTTGTCACATTTG
GTTTAGCACAGGCAATCCGTGTTGAGCCTTAGCATTCATTACATTAATAAATGGAATGAATACGTTCACCTGAGACAATTAACTAGCTTCTGCT
AGTATTTAATGCTCAGTAGTATAGCTGAAAAGATGATAATTAAATGGGATTTTATTTTATTAAAAAACATAACTTCCTCAGCTGAGCAAGGGAT
TTTATAACTTTAAAACAACCTTATTATTGTAAACATAGTATATATTATTATTGAACATTAGGAGATGACAGAAAACTAAGAAAAGTAAAGGAAA
AAAAAGGACTGTAGTTTGTTAACAAAAGGTATTTTTACCAGTCATTTGTGTATTATGTGCAACTGTGTGTTTTAACCTAGTTATGAATATAGTA
CTATATTTAAATTTCATCTAGCTTCTTAATTTGTATTATAATTTGTATATTATATATTATAATATACATATAATATAATTATATATATTACAAA
TATATGTATAATTATTATTTTTTATTGATGAGTCACTTCTGTTTAATATCCATATATGTTGTCATTTTATACGTGGCCTTGGTATATATGGTTT
AATTTTATAAATTTTAAAAATAACTATATTGGTATATTGGTGATTTCTTTACCTATTGAATATTGAATCTTCTATTTTTTTCTTTTTTTTTTG
AGATGAAGTCTTGCTCTGTTGCCCAGGCTGCAACCTCTGCCTCCTGGGTTCAAGCGATTCTCTTGCCTCAGCCTCCTGAGTAGCTGGGATTACA
GGTGCACACTACTATGAGCAGCTAATTTTTTGTATTTTTAGTAGAGATGGGGTTTGCCATGTTGGCCAGGCTGGTCTCGAACTCCTGACTTCA
AGTGATCTGCCTGTCTTGGCCTCCCAAAGTGCTGGGATTACAGACGTGAGCCACTGTGCCTGGTCTGAATATTGAATCTTCGGATAATGTTTGG
AAGTATGATTTCCTTGGACTTGAATTCTAAATGTTGAGAGATAAGAAATAGGAGAAATTACTGACTTGAAAAGGATATGAATTAAAAATATTGT
GGGTTTAGGTTGCTGTATCCTTATTCCCAAGGATGAAAAAAGATAGTTGGGATTCATATTTCCTCTTAATATTGAGTGAGAAACAATATTTTGT
GACAAACACTCTCTTAAATCCTTAGTTTAAAAACAAAAGGAAAAATCCATTGTGACATCAACGAATACTGGGGTAAATGAATTATCCTCCTGTT
AGGATATAAACTTCATGAGGGCATATACATTTCTGTTTCATTCTTTGTTTTCCCCCGTGTCTGGTACATAGTACCAGTGACTGGTACGTGGTAG
GTTTTCAGTCTGTATTTATTGAATGAATGAGTACTGCTTTATCTGTTAATAAGTTTCTTTTTTTTTCTTCCCTGAGTCGGAGTTTTGCTCTTGTT
GCCCAGGCTGGAGTGCAATGGCGTGATCTTGGCTCACCGCAACCTCTGCCTCCCGGGTTTAAGTGATTATCCCGCCTCAGTCTCCTGAGTAGCT
GGGATTACAGGCATGCGCCACCATGCCCAGCTAATTTTATATTTTTAGTAGAGATGGGGTTTCTCCATGTTGGTCAGGCTGGTCTTGAGCTCCA
GGCCTCGGGTGATCTGCCGGACTCGGCCTTCCGAAGTGCTGGGATTACAGGTGTCTGTGAGCCACTGCGCCCGGCCTCTGTTAATACGTTTTAA
GATCAAGAAAGGAAGTTGAAGCTTGATGAAAGTCAAGATTATAATCAAATTCCTATTTAATGGATTTTGCGTAACTCAATAGTTTTTTTGGCAG
TTTGTATTTAATGGATTTTGCATAACTCAATGCTTTTTTTTTGGCAGTTTGCTACTAAGCACAGAGCTAAAAACATTCCTGTTTGAAAATAAGTA
TGTTCAACCTCTTCCTGCTTGCATACTCATTTTTTGGGGGGTCTTCTGGTAAAGTCCAAACAAAGCACATTTCAGGAATTGGTAGTGTGAAATCT
TTCAGCTAGAGAGACTTTAGTAATTATTAAAAGTAGCTGTACATAATCATTGTGCTACTAATTATTGTGCTTTTAAGTGCCTACAAGCTTGCCA
ATGATAAATTTGGTTTTGAATGTGTGCAGTAGTTCATACTAAGTATGTATGTAGAAGTCTGGTTAGATCCAGCTTAATACAAATTTTTATTCTA
AAATGTACATCTCTTGTTATTTTTTTTTTTTCTGTCTACAAGGAAAATATATACCATGATCTACAGGAACTTGGTAGTAGTCAATCAGCAGGGT
AAGTTAATTTTGAGCATCATGGATAAATACCATAAAAACGTTTTAAAGACATTTTTGTTTATGTGCATATGTTTTATAATTGTGATTCTCTTTA
AAAGTTGCTTTAATTAAATATTGTAATAAAAGTATGATAAATTTATTAGAAGTACATATGAACTAAAACCACATACTGAGGTTCTAATGTAAAG
TTAAATATCCTGTTAGATCAATTTAGACTTGGGATATCAGAGTTAGGATTTATTTTGAAAGGTCTGTAATTTCAAAAGCTCCTGTTTAGGAGTG
ATCTACCTTGAAAATGTATTGAAAGGCTTTGGGAAATAATATTGTTACCTAGGTAGGACCATGTGTAAGGATGAAGGATGAGTCTTTTTCTTTG
GTTATAGACAAAATTTTGTTTACCAATTTGTGGAAGTGGAATTTTATGTTCCTACTTCCGTTTCTTAACTGGTTATTTTTGGGTCACATCTCTC
TTTAATAAGCTGATAAAAGCATTGGGTTCTTGTTCCAGAAAGATGCACATGTATATATACATGGGTAAGTCAATAAGTGTTTTACAACCTACTT
TCCATGAGAAAAGCCCTGATTTATGTGCTTGCTGACTTCCATAGTATAATACTCTCATTTGAAGGCTAAAAACATGGAGTTGGGAAGAGATGTA
CACAGTTTGCTTTTTTTTTTTTTTTTTTTTTTGAGAAGGAATCTTGCTCTGTCACTCAGGCTGGAGTGTAGTGGCATGATCTCGACTCACTGCAA
CCTCCGCCTCCCAGGTTCAAGCAATTCTTCTGCCTCAGCCTCCCGAGTAGATGGGACTACAGGCGTATGCCACCACGCCCGGCTAATTTTTGTA
TTTTTAGTAGAGACGGGGTTTCAGCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTTGTGATCTGCCTGCCTCGGCCTTCCAAAGTCCTGGG
ATTACAGGTATGAGCCACTGCACCCGGCTCTCACAGTTTGCTTTTGAGTGCTGCTTAGAGCTGTCTCTAATACACTACACTGCTCCTAAAGCCCA
TCCTCGAACTACAGTTAAGAAATGCTCTTAGGCCAGGTGTGATGGCTCATGCCTATAATTCCAGCACTTTAGGAGGCTAAGGCAGGAGGATCAC
TTGAGCCGAGGAGTTCAAGACCAGCCTGGGCAGCATGGCAAAATCCTAACTCTGCAAAAACTACAAAAATCAGCTTGGTATAGTGGTGCATGCC
TGTAGTCCTAGCTACTCAGGAGGCTGAGGCAGGAGGATTTTTTGAGGCTGGGAGGTCAGGACTGTAGTGAACTGTGATCATGCCATCCAGTCCA
GGTGACAGAGCAAGACCTCATCTCTTAAAAAAGACAAAAACAAAACAAAACAAAAAAACACCTCTCAGGAGCTTGTTTAGTTCCTAGAATGAAT
TGACCACTCCCTTGTACTTCCTCTATTCCATATTCAGATTTTATTGTAAAATTGCTTTGTTTTACTTGTGGGTTTTTTTGTTTGTTTTTGAGAT
GGGCTCTCACTCTGTCACCCTGCTTGAAGTGCAGTGGTAATCTTGGCTCACTGCATCCTCCACCTCCAGGGCTCAAATGATCCTCCCCCTCAGC
CTCCCAAGTTGCTGGGACTACAGATGTGCTCCACCACGCCTGGCTAATTTTTCTGTATGTTTGGTAGAGACGGTGTTGCTATGTTGCCCAGGCT
AGTCTTGACCTGAGCTCAAGAGATATTCTCACCTCGGCCTCCCAAAGTTTAGGGGTTACAGGCATGAGCCACTGCGTCTGGCTGTTGCACTTGT
TTATATTTTTGTTACCTGTGTCCTATTCAGGTTTGCATTGTGCATCACACACTATAGTGTTTTATTAATATGGTATTTAATAAATGTGTTGAAT
TGAATACTTATTCTTCCAAAGTTAGGATTTAAAGCCCAGAAAAGTATCTCCATTTTATCCCAAAATAAAAGTAGTTATTAGGCTGATGATTTGG

SAGRES DISCOVERY 02-29

CATTTTATTGTTTTAAAGCTCTTTTTTTTTTTTGAGCTTTAGATTGTATCCTTTTTATTTCCTTTTTTTTTTAATTATTATACTTTAAGTTTTAGG
GTACATGTGTACAATGTGCAGGTTGGTTACATATGTATACCTGTTGTTTTAAAGCTCTTTAAGAAATTGTGTGATAGCTAAATATACAATTGTA
GTATTTGTAGTAGTAGTTTGAGTTTTCTGAAGTATGTAACCCTGATGTATTCATTCCTTCATTTGTTTAAATAAACTTTGGCACATTACTAGAA
AAATTGTATTATTGAGATGGAAACTTACAAATTACTTATTTGCAGTCTGAGTTTGGTTTAGATATCAGTAGAATTAACTTCAGAACTCCTATTC
CATGTTCTCAACTTTGTCACTTTTTTTTTTTTGAGATGGAGTCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGTGCGATCTCGGATCACTGCA
ACCTCTGCTTCCCGGGTTTAAGTGATTCTCCTTCCTCAGCCTCCCGAGTAGGTGGGATTACAGGTGCCTGCCACCACGTCCGGTTAATTTTGT
ATTTTTAGTAGAGAAAGGGTTTCACCATGTTGACCAGGCTGGTCTCAAACTCCTGACCTCAGGTGATCCTCCCACCTTGGCCTCCCAAAGTGCT
GGGATTACAAGTGTGAGCCACTGCACCCACCCAGCCTAGGGCTTCCTTTTTATTACATCTTTTTTGTAGCATCTGTTTATACTAATCCAAAATT
CCTGGACAATATAACCTATTATGTACAACTTAAGAAAATTAGTGTAATGCCTTACCCATAGTATAAAGAGAAAATTAATCTATGATAATGCATA
ATTTCAAAATGTTAATGTCCAGGCATGAGTTCACTGTTAAGATGAAAATGTTTCCAAGGGGGGTAGTAAAGGGTATTTGATGATAATTGTCTGT
ATATCCCAACTCTGAAACTTTGACTTTTGAGCTCAAAGTCTGTATATCCAACTACAAATGAAACCTATGTGCCTGAATAACTCAGTTTGTTATC
TTCCCATCCAATCTGTTTATCTTTCTAAAGTTTCTCTTTTAGTGAATGGTACCACTCATTTATTCACCCAAGTTGGAATCTTGGAATCATCTTA
ACTCCTTTCTTCCTTGCCTTCTATATCAAATACCAGGTCTTGTTGGTTTTTACCTATTTAATTTCTCTGGAATTTGTTTTCCATGCCTTAGTTT
AGGCTTTAATAGTTTTTAGTTTGTATTATTGCAATTGTCTAATACTGGTTTTCCTGCCTCTGCCCTCTTTTTCTTATGTTTTGCTAGAGTGATT
TGTCACTCTTCTGCTTAAAATTACCATTTAGGGGTTCATTATTGCTCTCTGGATGTAATATTTTCTGTGAGCTAGAAATCAGTTTCATTTCTTG
GACAAAAATCCTTTTTAATGGTGAGTGGCTGCAACATCGCATTAAGGAAGATTCTGAAGTATCTGCGGGGAAGAATGCAGTGATAAGGGAATGA
CAGCATGAGTCCTGCTTTGGCTAGACCACAGGATCCTTTACAGTCTGAACCTGCCTACATTCCAGTAATAATGAACTGCTTGTGGTGTCCTGCA
ACAGGAACTGTTGTTAGTTTGCTTTTGGATACTTTTTCACATGGCGTTTTCTTGGTCTGGAATGGCCTTTCCTAGCCCTATTTTCATATTGTCC
TACAAAATATTTCCTGATTCTTTGTTTCTCAGACACTCCCTGTCCCTACCAAAATAATGACTCTCCTGTCTCTCTGCTAATTTATCTAACAGTC
TTTTAATGTCTTGATTATACTTTACTCTTCTACATTAAAGTTGAATTATTTTATTTACATCTGCAACATTTAGTATGAGGATGCCACCTGGAAA
ATACATGTTTAATGTTTATTGAAAGGTTAAATTGCATAAGGGTTTGTGTTAGACTGATAGCATATCTACTGAGTAGCGCCCCGCCGCCCCCCGC
CCACCACCAAGTTTCTGATCCTTTTTCTTTTCTCTCAGAATCATCGGACTCAGGTACATCTGTGAGTGAGAACAGGTGTCACCTTGAAGGTGGG
AGTGATCAAAAGGTAATCTAAGTAAATTTCTCATTCTAATGTAATATTATTTGCAAATTGGAAAGGTTATTTACAACAAGTTAGCTTACTGGTT
ATGTTAAGTTTGTTGTATTTTATTTTTTTCCTAAATGCTTAGGACCTTGTACAAGAGCTTCAGGAAGAGAAACCTTCATCTTCACATTTGGTTT
CTAGACCATCTACCTCATCTAGAAGGAGAGCAATTAGTGAGACAGGTATATATGAATATTTATTTGACGCATTCACACAGCTTTTTGATATTCT
TTCTCTAATGAAATTAGTGCTTTTAGACTTAATTAAATTGTTCCCTTTTTTTGGTTGAGATGAATTAACCTCTGAGTTTTTTTCATTCGTGATT
TTATTTGATTTACAAATTGCTTATTTAGCAATATTTTTCTGGCTGACTACAGCAGGCACAGTTTACTGTGCCCCACTGGAGTTTATAGTTAGCC
AACTCTCTGTTAAGATAGTAGGAGGTGGCTGGGGTGTGGTGGCTCACGCCTGGCTCACGCCTGTAATCCCGGCACTTTGGGAGGCCGAGGCTGG
CGGATCACGAGGTCAGGAGTTCGAGACCAGCCTGACCAACGTGGTGAAACCCCATCTCTACTAAAAAAAATACAAAAAGTAGCTGGGCCTGGTG
GCGCACACTTGTAATCCAGCTACTCAGGAGGTTGAGGAAGGAGAATCACTTCAACCCGGGAGGTAGAAGTTACAGTGAGCCGAAATTGCGCCAC
TGCACTCCAGCCTGGGTAACCGTGTGAGACTTCGTCTAAAAAGAAAGATAATAGGAGACAGGCATATAAACTCTATTTTCACCATTATTCTTAG
TCACCTTAACAGTTAAATTTTTAAATTGTTATTTTTAATAAATGGTAGTACATACCTATGAGTTTTAAAACAGAAAGTAAATAGCATTTTAGAA
ATGAAGAGATAAGGGCCGGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCATGAGGTCAGGAGATCGAG
ACCATCCTGTCTAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAAATTAGCTGGATGTGGTGGCGGGTGCCTGTAGTCCCAGCTACTCG
GGAGGCTGAGGCAGGAGAATGGCATGAACTGGGGAGGCAGAGCTTACAGTGAGCCGAGATCACGCCACTGCACTCCGCCTGGGCGACACAGTGA
GACTGTCTAAAAAAAAGAGAGAGAGAGAAAATAGTTGACAGAGAGAAAATAGTTGAGAACAGTTAGTAGACGTAGTAGACGAGAAGGCTGTTGC
CTGAGGAAGTCGCAGTAACTAAGACCGTATGATTCAGATGAAAGAGAATGTCAGATCAGTGAAACAGAATAAATGAACCCAGACCAGAATCTCG
TACATGCGGGCAGAAGACAGGAAGGGCAGAGGTGTCTAGGGCAGAGGTGGAACTAGAACAAATGGTAGTTACTTGGGGAAAAGGTGAAGTTAGA
TCTGTACCTTATGCCAAAATGAATTTCAAATGAGTTTAAAAGTTAAATGAAAAATAGAATACAACATATTTGAAAGATAGTCACTTTAAATTTG
ACTGTTAATATCTGTATTACATAAAAAGTCTTCCCAAATCAATAAGGAAAACATTAAAACTTCAAATAGCAAAAAGGGCAGACAGTTCACAAAA
ATTTCTCACAGTAAATACGAATGACTAATAAATATGGGGAGAGGGTGAATTTTGGTGATTTTTAGCTTTACAGATAGTAAAAAATGCCAAAAGG
GTGTCCTTTTGATCTATCAAATTAGTAAAAATAAAATTTTTACTCATCCTTACTCATCAGTGCTAATAACTTGTGTATTAGCACTGATAAACTG
TTGGTCTGTAAATTGGTAAAAGTGGGTAAAAATTGATTAAATTTTTCGGATTATAAAAAAGCTTAGATGGCCTGGTGCGGTGGCTCACACCTGT
AATCCCAGCACTTTGGAAGGCCGAAGCGGGTGGATCTCTTGAGGTTAAGAGTTCGAGACCAACCTGGCCAACATGGTGAAACCCCATCTCTATT
AAAAATACAAAAATTAGCCAGGTGTGGTGGCAGGCGCCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGATGT
GGAGGTTGCAGTGAACCAAGGTCGCACCACTGCACTCCAGCCTGGGGTACAGAGTGAGACTCCATCTCAAAAAAAAAAAAAAAAGAAAAGAAAA
AAAAGTCTTAGAGTTCTTAACATTATCCTAGTAACTCCATTTCTAGTAATCTATCCTAAGGATGTAATAAAAAATTCAAAGATTTATATGTAGA
GATACTAATTACAGCATTATTTATAATTGCAGCCCGGCCAAGATCACCTTTTTAAAAATAGGGAACACAAACATGATTAAGAACTCACGTGCAG
AACTTGTGATCTCGATAAAACGTAAAAATCCCGGCCAGGTCCAGTGGCTCACGCCTGTAATCCCAGCACCTTGGGAGGCCGAGGAGGGAGGATC
ACGAGGTCAGGAGATTGAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAAAATTAGCCGGGCACAGTGGTGGGC
ACCTGTAGTCCCAGCTATTCAGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGTGGAGGTTGCAGTGTGCCGAGATTGTGCCATTATAC
TCCAGCCTGGGGGACAAGAGTGAGACTTTGTCTCAAGAAAATGATAAAAAAAGTCCTTTCAGAAATCTGTGATACTATCTCATTTTAATTTTTG
TCATTCTCATGGGTGAAAAATGATATCATTTCACTTTGCATTTCTTTGATCCCTAGGAGGTAAGAGTTTTTTTTTCTATTACTCAAGTACATGA
CTCAAGATTTTTCATATGTTTATTAGTCATTTGTATTTCTTCTGTGACTTGCTTTTTCCTGTTTCCTTAAAAGAAAATACAGTCTATCTTGATT
TGGTAGGACTTTGTATAATATGTATACTATGGGTAATTTTTACTATATATGTTGCAGATATTATCTTCGAATTTGACCTTTGCCTTTTAACTTT
TGTTTGGTATTTTATTTTGTCATGTAAACCTTGACATGGTCTAATCTTGATAGTCTTTTTATTGAGGACTTTGCAGTATTATGAAATACTTCTC
CACCCCAGCATTATAAGAATATTTTGTTATAGGTACTTGAATGGTTTTGTTCTTTATATTTAGATCTTTAATCCACCTGGAATTCATTTTTATG
TCTAGTATAAGGTAGTATTCTCATTTATGTCTAACGGATTTGTCTAACATTCTGACCCATTCAGAGATAATTTATTATTTAAAATGAAATGGAA
ACTTTTTACTGGTTTTGATTTCTGTTTAAAATATAGGGTACTGAAGAGCCGGGCTTAGTGGCTTAGGCCTGTAATCCCAGCACTTTGGGAGGCT
GAGGCAGGAGGATCACTTAAGGCCAGGAGTTTGAGACCAGTGTGGCCAACATGGTGAAACCCTGTCTCTACCAAAAATACAAAAATTATCCAGG
CATGGTGGTGTGCACCTTTAATCCCAGCTACTTGGAAGCTGAAGTCACAAGAATCACTTGAACCTGGGAGGCAGAGGTTGCAATGAGCTGAGAA
TGTACCACTGCACTCCAGCCTGGGTGGTCGAGTGTGACTCTGTCTCAAAAGAAAAAGTGTAGGGTACTGAAGAAATTGAAACATTAAGAATACC
ATATGAGTAAATTAAACACTTTGGCTCTTTTCGGAAAAAAACAGATGAGCTCTTATATTTTAAAGTTTGGTTTTGACAGAAAAAAATTCCTAGA
TTTTTTGGTTAATAAAAACTTTATTAGATAGATTAAATTGTGATGTATGGAGATAAAGTTCTGAAAGAAGAATAGAAAGCTTTTTAAAAATAGT
ATTCTCAGCCTAGGCAACATGGTGAAACCCTGTCTATGCAAAAAATACAAAATGGTGCATTCCTATGGTACCGTTCCTATGGTACCAGCTACTC
GGGAGGCTGAGGTTGAGGTGGGAGGATCACTTGAGCCCATGAGGCAGAGGTTGCAGTGAGCCGAGATTGTGCCTCTGTACTCCAGCCTGGGTGA
CAGAGCAAGACCCTTTCTCAGACAATAAATAAATAAACAAATAAATAAATACACACAGATAGTGTTCTGCTGTAACAGTTGGACAGATTCAATA
AAACAGTGTTAACTTTTGAACTAATTTTATTGAAACTAAGTTTCTGTACAAATAGGTACTCAAAACAGCTCAATTTTCTAAATCACAGTACAGC
AATTTATTTTTTTTCCTTACATATCCAGAAGAAAATTCAGATGAATTATCTGGTGAACGACAAAGAAAACGCCACAAATCTGATAGTATTTCCC
TTTCCTTTGATGAAAGCCTGGCTCTGTGTGTAATAAGGGAGATATGTTGTGAAAGAAGCAGTAGCAGTGAATCTACAGGGACGCCATCGAATCC
GGTAATGTTCTCATTTTAAGTAAGGCAAGACTCTTACTGTTCAAAGTCTAGTCCTGGCAGTCCTAATAAGGATACGGATAGAATGTACATGTGT
CTTACGAGATTGATAGAAAACACAGTGCTAAATTTTACTTTAAAATAAAACTACTATATTGATCTCCACCTTCAACCCAAGGTATTGTGAGAAA
TGTGGAAAATAGTGGAGTAACACCGGTATTGGTAAAATTAGTAGTAGTATTAGTAATTATCAATGTCACTGTATGTATTAGAGAATATTTGTGG

ACCACTGCACCAATAGTACAGTCAAATAAATTGGAGTATAGAGTTGTTTGAGAATTTGAGAGTTACACTTTTTAAAAAAGGAACAAAACCAAAA
ATTTGGTTCAGTTAAATATTTTAGCATTTTAAGGCAAATTTGACTATTTAGAGTAAAAATATATTTTATTACAGCCATCAGCAAAAAAGTCAGC
ATAGTCTGAACTTAACATTTGCCAAATAGGTCTAGACATCAGGTAAGTTCTATTTACTTATGCTGTAAAATACAGGTTTATACTGGGCTGGGTG
CGGTGGCTCATGCCTGTAATCAGTACTTTCGGAGGCTGAGGCGGGTGGATCACCTGAGGTCAGGAGTTCAAGACCAGCATGGCCAACAAGATGA
AACCATGTCTTTACTGAAAATACAAAAATTAGCCAGGCGTGGTGGCGCATGCTTGCAGTCCCAGCTACTTGGGGGCCTGAGGCAGGAGAATCGC
TCGAACCCAGGAGTTGGAGGTTGCAGTGAGCTGAGATTGTGCCACTGCACTCTAGCCTGGGTGACAGAGCGAGACTCCATCTCAAAAAAAAAAA
AAAAAAATGCAGGTTTATTATTGCATGGATGACGGGAGAGTATCAGTACTTTCTCATTACTAATACAGACTTCCAAAATATTAGTGAGCAGCAT
TTCTTAAGAGATGTCACTGAAAGAAGTTTGGTAAAAAATTTTTTTGTTAACAAGAATGCTTGACAAATGGAATATTTTGTTTTGTATGTCTTTA
ATCAAGCTTGTCCAACCCATGCCCTGTGGGCCATATGCCAGGATGGCTTTGAATGTGGCCCAACACAAATTCATAAACTTTCTTAAAATATTAT
GATTTTTTTTTTTACAATTTTTTTTCTGCTCATCAGCTATTGTTAGTGTATTTTATGTGTGGCCCAAGACAATTCTTCCAATGTCGCCCACGGA
AACCAAAGGATTGGATACATTTTTTGGTAATATGGCAGTGTCTCATGGCCATTATTCTGGGTATTAGTAATCATTGTATAGTACTCTAGAAGAT
GTAGGAAGTGGAACCAATTGTGATAGTAATCCTAGTCTTTTACCTATTCTTGTTACTTCCTGTATTATCTTTTTTTCTCTTCCAAAGCAGTGAT
TGTATGAACGCATACCTGCCCTCTAGAGTTACTGTACCTAACGGAGCTGTTACTTATGTAGACCGCTAGATGGCATGATGAGCTCCTGCTCAGT
CTGAGAGCAGGTTCTTCATTTGTAGATATTTAAGTTTATACCAAATTCCATACAGTTGAGATGGCACTGCAGATACAGTGGTAGTCAAGGTAGA
TATGGTTCTTGCCTTCATTGGGAGATAGATCATTAATGACAAAAATGAAAACATTTAATAAATCCAGTGGAAAAAATAGGCTCTTGAGCGGAAA
TATATGTGATAAAATTGAATCCAATTAAAACTTGATGAGTATCCAACCTACAAGTTTGGTTAAAAAGAGAATTATTATACCCTATTTATTTATT
TATTGAGATTGAGTCTCTCTGTCTCCCAGGCTGGAGTGCAGTGGTGCAATCTTGGCTCACTGCAACCTCCACCTCCCCGGTTCAGGCGATTCTC
ATGTCTCAGCCTCCTGAGTAGCTGGGATTACAGGCTCCCATCACCACACCTGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACTATGT
TGGCCAGGCTGGTCTTGAGCTCCTGACCTCAAGTGATCTGCCTGCCTTGGCCTCCCAAAGTGTTGGGATTACAGATGTGAGCCACCTGCCCGGA
CCCCTATTTAATGTATAGTTTTTGTTAAAGTTATATCAGAATTCTAGCTGAATGATATTTAGAGTCCTTGTTCCTGCTTTGTACCTGGGACACT
GCCTTGTTACTGATATGGCTTTGAGGAGTAGAGGAACACCAGGTTTTTTGTTTTGAGTTGAATTAGATAAAACGACACGGACACACGTGGAGTG
GTTTTAAGGAGCAGAGCGTTTAATAGGCAAGAAGGGAGAAGGCAGAAGGAAGAAGCTCCCCCTTACACAGACAGAGGGAGGGGGGCTCTAAAGC
TGAAAGAGGAGACCTTACATTCTGACAATACTAGCCAGTTTTATGTGACGGCTGGAGGGGGTGGTGTCTTATTTGCATAGGGCTCAGAGGATTG
GTTTGACCAGGCATGTCATTTAGCCCTCAAGAAAACTGGCCCTCCCACCCCAGTCCTTTAATACACAAATGCAGGATGCCATGACATTTTACAC
ACGGGGTTATGTGGGGGCGGCCATGCTGTTAGGTACCTGATGGAGCAAGGGCAAGAGGACAACGGTGGGAATCGCCATGTTGGGTGGACCCTCT
TGCATTTGCATCTTAAAGGTTGCCAGCCTTTAAGAGCCAGGGCTTTTATGCTAGACAAGAAATTTTTCTGGAGCTACGAAAAACCTTCCAAGGA
CCACTTTTCCTCTCCATTTGCCTAAAATAATTTCTTAATAACTCGTGTGGAGTAGAGGGGTATTTCTTTTTTTCTTTTTGTTAGTCCTGTCCTG
CATTCTCTTAAAAAATCCTATCTATAAAAAATCTCAGCCGGGCGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGAAGGCCCAGGCGGGCGG
ATCACCTGAGGTCAGGAGTTCAGGACCAGCCTCGCCAACATGTTGTGAAAACCCATCTCTACTAAAAATACCAAAAATTAGCTGGGCATAGTGG
CGGGCACCTGTAATCTAGCTACTCAGGAGGCTGAGACAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCTGAGATCACGCCATT
GCACTGCAGCCTGGGCAACGAGAACGAAATTCCATCTCAAACAACAACAACAAAATCTCGTTTTTCAGGTTAAGTCCCTAGTTGTGAAAGCTTT
TGGTAGGGCCAGTTTTTTTTTTCTTCTTCGTTTTAATTTCCCTCATTTGAGAATGTTGTAGTCATCATTGGGTGTCATCATTCACCAGTTTGTGA
AGGGAGTTAAAGGAAAGTGCATTCCTCTCCCATCTTTTCTTTCTTTGGGGTTTAATAAATTGTGGGAAACTAAGACTGTGTTCTAGACTGTACA
CCATGCAGTTTATATTATGATCTTCTGTCATCTTTGCAGCCTCAGATTCCATTTTTAGCTAAGACTGGGGTTTTAAATAACTTGTTTAAGGTTC
CTACAACTAATTGTCACAATTGGAATTCAAACAATTCTAGGTATTTTTGACTACAAAGATCTAAGATCTTTGCAGAGCAAGCCTATCTGATGCT
TAAAAAAATATATATTTTTTAAATTTTTGAGACAGTCTCTCACTCCGTTGCCCAGGCGGGAGTGCAGCGCATGATCATGGCTTACTGCAACCTC
AACCTCCTGGGTTCAAGCAATCCTTCCTCCTCAGCCTTGAGAGTTAGCTGGGACTACAGGTGTGCACCACCACACCTGGCTAATTTTTTTTACT
TTTTTTTTTTCAGAGATGAGATCTTGGCCTGTTGCCCAGGCTGGTCTCAAACCGCTGGGCTTATGTGATTCTCCTGCTTTGGCTCCCAGAGTAT
TGGGATTACAGGCATGAGCCACCACCTCCAGCCTGATGCTTTTTAAATATATAGTATTTAGGTCTGGTGCAGTGGCTCATGCTTGTAATCCCAG
CACTTTGGGAGGCTGAGGCGGGCGGATCACAAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGCGAAACCCCGTCTCTACTAAAAATACAA
AAAATTAGCCGGGCGTGGTGGCGGGCACCTATAGTCCCAGCCACTGGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCAGGAGGTGGAGCTTGC
AGTGAGCCGAGATGGTGCCACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCTGTCTCCAAAAAAAAAAAAAAAAAAAAAAAATATATATATA
TATATATTTATATTTAAATAATGTATAAATATATAATATATAATTATAAATCTATTATATATTAATGTATATTATATATTACATTGTTATATAT
ATTTATATAATTATATATTTATATAAATATAAATATATATATTTATATAAATATAAAAATATAATTATATAAATATAAAAATATATATTTATGT
AAATATAAATGGGCAGGCACCTGTATATATTATATATATTACTATTTATATAAATATAAATATATATTTAAATATTTATTTTATATATTTTAA
AAATATATATATAGAGAGATAATTTAATAGTTTCTGGGGCATTCTTTTGCGAACATTAGCCAAAACTTTAAAAACCACTCCCAATATTGCATTT
TTTCATGGTATTTTTTATAGTATTTTTATAGTATCCTAGGACAGGAGTTGGCAAACTTTCTGTAAAGAGCCACATAGTTAATTATTTGGGCTCT
GCCGGGCCATGGTTTCTGTCACAGCTACTCAGCCCCGCTCTTGTAATGCAGGAGCAACTGTAGACAACAAGTCAACAAATAGGCATGGCTGTGT
TCAATAAAACTTTATTTATAAAAGTCGATGGGTGATGGGCCACAGTTTGCAGACCCCTACCGTAGAGTATGTTTTCTGAGATTTAATGTTTCTT
GTGATTTACCCCCTTATTCTAAAATTAGTGCACTAAAGACTTTAGTTAGTTGAAGTATTTGGTTTGTTGGGTTACTTTGTTAGTGTTAATTGTA
TCCTAACTTGACTTGTGATTCTAATCTGATTGGTAGTAGAGCCCTTGTTAGGAATTTGAGCTGCAACTTGATGAATGTTGCTTTTACTCTCCTT
CCTAACATTACTCTAAAAAAGTCTTTTGATGTCAGAGGCTGTAAAATAATATACTTTGTTTCTGTTTTTAAAACTGATACAGATATGGAAATCA
TTTAATCTAAGCTCCTTTTCTAGATGAAGTAGCTACAGCCTTTAGAAGTTAAATGATATGGGCTGGGCGAGGTGGCTCACAGGTGTAATCCCAG
CATTTTGGGAGGCCGAGGTGGCGGATCACTAGAGGTCAGGATTTCGAGACCAGCCCAGCCAACATGACGAAACCCCGTCTCCACTAAAAACATA
AAAATTAGCCGGGTGTGGTAGTGGACACCTGTAATCTCAGCTACTTGGGAGGCTGAGGCAGGAGAATAGCTTGAACCCCGGAGGCGGAGGTTGC
AGTGAGCTGAGATCATGCCACTGCATTTCATCTTGGGTGACAGAGCAAGACTCTTGTCTCAAAAAAAAAAAGGGCCGGGCATGGTGGCTCACAC
CTGTAATCCTAACACTTTGGGAGGCCAAGGCGGTTGAATTGCTTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAGCCCTGCCTC
TACTAAAAATACAAAAATTAGCCAGGCATGGTGGCATGCGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAACTTGGG
AGGTGTAGGTTGCAGTGAGCTGAGATCAGGCCACTGCACTCCAGCCTGGGTGATGGAGCAAGATTCCATCTCAAAATAAATAAAATAAGTTAAA
TGATGTTGTTTAAGGTTAAATTAGCTACTTAGTGGCAAGTGTAGAATAAGCCATATCCCGACTTCTAGACTTTTTCCAATTGTAGCCTTCTGCT
TATATATGCTCCTACCCTTAGCCACTGACAGCAAATATTATTGCCCTGAAGGTCTTACTAGGTTCTTATACAATTTATTGAAGTCCTGAAACGA
AGAATCAGATGAGCAGCTACAGAATTTTTTTTAATTGTCTAAAGGCTCTTTAAAAGAAAATCTCAAAGTTTATTAAAAAACATAAGTATCTATG
ACTCGAGACATTTTTCTAAGAAAAAAAACCCATAAGTATTACAAGTGTTGTGTCTTGTTACGTGTATTCTACCAATTTGGACATAGAAAGATGA
GTGACAGGTTTTAGCTCAAAGTATATATAATTCAGATGAGAAACATGCCTGCAAAATTATGTTTTGCATAATTTATGTGTGAGACTATATAATT
CATTATTATACAAGTAGTAAGGATAATTAAAGGTGGAAGAGCCTTTTCAGTTATGGTATTGACAAAGGCTTAGTCAAAGAAGGATGAATAGGAT
TTTGAAACTGAAATTATTCTAGTTAGAGGGGGAAAGTGTGGAAGTTGAAATGCCAAGATTAGTTGAGGAAGCAATCTAGATCTGGCGGGATTAT
CCATATTTAGTAAGGGAGGAGGGGTGTCTAGTTGAAGACAGACGAAGATGTTAATACAGTCACACTGTAGGTACTTTCGATGCCAAGAGGCTTT
GGTGTTTTTCCTTTATGCAGTGGGGTTTTGAACAGGGAAAATAATGTAGTAATAACCTTGAAACCTTAATCTAGTTTCAGTATGCAGGATGGAT
CTGAGGAGGAAATGTGCGTGGCAACCGGCTCCGGGATGGCTGGCTGGGGGGCCTAGTCTTCTGCCCGCCGATCTCCCTCGGGAAGTCCCGGATC
AGAGCAGCAGGCCCATCCCCCAACTGTTACACCCTGCTGGCAGCAGAGGCACAGGGATGAGTTAGGAAACAGATACAGAGGTCAAGAGGTG
ATGTTTATTAAGTTATATATTTTTTTCTTGTTTTAGGATCTTGATGCTGGTGTAAGTGAACATTCAGGTGATTGGTTGGATCAGGATTCAGTTT
CAGATCAGTTTAGTGTAGAATTTGAAGTTGAATCTCTCGACTCAGAAGATTATAGCCTTAGTGAAGAAGGACAAGAACTCTCAGATGAAGATGA
TGAGGTAGTATTTTTTTTCCCCTCTAATTATATTGGAAAATTATTAAATATTTTCTATGTTCATTGACTTTGAGATTGAAATAATATTATTCAG

ATTTCACTTGAAATCTTTACCTCTTGATTTGTTTAAACTAACACATTGGTTTGTGGACTTGAGGATTTCATAGTTCTTTATCATCTGATTTATA
TTATTATATTACTACTAATTGCCAAGAAGTCAATAGACCTCAATGAACATGCTTATTATAATGGTCTGTTCACTTTTAAAAACATATAATTCAA
CTACTGTTTTAATATTAACTTACTTTCTATAAAAGTAAAACATGCATACAGTTAAAGTCAAGTAGTACCCTTAGAGATCTGTTTCCCAGAAGTG
ACTGCCTTTAACATTTCTAGCTATTTCCCTATTATTTAATATCTCCATATTATTTATTTATGAAGTAAAACCACCTAGCTGAATGTTTTGTTTT
ATTCATCCTAAACATCCTTTGTATTGACTTTTACCATTGTGGGTAAGGATTTCTCTCTCCTCCATTTTTTCCCCCTTTACACTCACTTACTCTA
TTTGATATTGTCTAAGGCTTTCTCATATATTGTAGTACATGATATTTGTTTAGGACTTATTACTAGGAAGCCTTCTGATTGAAGGAAATAGGGC
GATGAATTGATGCTAATGAATGTGTTTTTATTAGGTATATCAAGTTACTGTGTATCAGGCAGGGGAGAGTGATACAGATTCATTTGAAGAAGATC
CTGAAATTTCCTTAGCTGTAAGTATACATCTACTTTTTTAAGAAATAAAAATTTCATTAAGGTCAAGATTAGGAGACTATATCTAGCTTCTTTC
TGAAATGAACTGATTTTTATAAAGTTAAAATGTTTTTGTAAAGTCTGAATAATTTAAAGCATTTTTCTTTTATTTGTTGTGATGAGACCTGTAG
CTATAATTTTTATTTTTAGGTGCTGGAATTTGAACTTTTTTTTTTTTTTTTTTAAACAGGGTCTTACCCTTCTCCCAAGCTGGAGTGCAGTGGT
GCAATCTCAGTGCACTGCAGCCTCCACCTCCCAGGTTCAAGTGATTCTCGTGCCTCAGTCTCCTGAGTAGCTGGAATTACAGGCATGCACCACT
ATACCCCACTAATTTTTTTATTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCATGAACTCCTGACCTCAAGTGATCTGCCCAC
CTTGGTCTCTCAAAGTGCTGGGATTACAAGCATGAGTCACTGCCCAGCTGAATTTGTACATTTTGATGTTATTTTGGAAAATTTCAGTGTATCT
CCAGTATACTCATCACCCAGCTTTAACTATTACCAACATTTTGCCAACCTTGTCAAACGTAAACTTTTTTTTTTTTTCAATTGAGATAGGGTCCT
GCCCTGTCTTCCAGGCTGGAGTGCAGTGATGTGATCATGGCTCACTGCAGCCCCCACCTCCCAGGCTCAAGTGATCCTCCCACCTCAGCCTCCT
GAGTAGCTGGAATAACAGGTGCATGCCATCACACCCCAGCTAATTTTTGTATTTTTTGTAGAAATGTCACCATGTTGCCCAGGATGGTCTTGAA
CTCCTGGGCTCAAGTGATCCACCTGCCTCAGTCTCCCAAAGTGCAAGGATTACAGGTGTGAGCCATCACACCCAGCCAAATGTAAACATTTTTA
TTACTGATTTGTATTATAGAATGTGGTAGGATTTGCCATTAAAGAAATTAACACTTAAATGTTTACATCTCATGCATACTTCACTGAGTTCCTG
AGGTATTATAGGTTTTTTTAAAACTATTGTGCTTTAGTTTTTGTTCTTAATATTGCCTTTATTATATTTGAATAGGAAATAAATTCCATTTTTT
CTGAGTTATAGACAGTTACTAATTATTCAAGTGCAAAAAAGGATGAAAATTCAAGAGTTTCCAAAATTTTTACTGTATTAGAAAATAAATAACT
AATTGAATCATTTGATGTCAAGTTGAGTAAAATATTTTAGATACTTTTAATTTTTTAAATCTATTTTAAGCTCAAATTATTTTAGATATTCAT
CTTGGAATTTATTGGACTTTTTGATGCACTTTTACTCCCATATTGCAAGACCTTTTTCTTTGGTTTTATGAGCTGTGAAAAACCCCCTTCTATA
ACTTGAAAAAAGAAGAATGAATAGTCTATCTTTATTGCTCCTGTCTTAACATCATTTGTGAGGCAATCTCAAAATGGTTACGGAAATACCTCTT
ACTTAAGAGTTTTCACTTGTTAAATGTCCTCAGGCAAGAACCATGCTTCAGCTAAGGCAAGAAGATAGGTTATGTAAAAAGGCTGGGGATGTGG
GAGAGTTTGTTATCCAAATTGCATGGTGGAAAGGTTTGTGGGATAAAACGTTGGGAAAAGGAAGAAGCATTGAGCAGTTACAAAGATGAGAACA
CAGGAAAGGATAGACAGGTAAAGGAAAGGATATTACGGTTAGTGACCAAGGATGATAGGTTTTAGCAGCAATACTTGCTGTGAAAAATGTTTTA
GCATTTCTCTTGTGGATGGAGTTAGGGAATACTCAGTTAAGCCATGGTTTTAGAGTACTTCTAAGGTAGTTCTAGTCACTGGTGGATTAGGAAG
TCTTTCTCGAGGAGGCAGGTTTCATCTAGATTGATGGGATGGACTCTTGGAATAGCGCCTAGGGTTGAGCCTTTAAGGGAGTGGATATAGGCTG
CATGACAGAGTAAAAGATCCCATAGACTTGCTTCAACTAAAGGAAGCAACTGCATTTGTATCCTGAAACAGATAACTTTATAGGTACATGATTA
ATATCACATCACAGTTAATATATTTTTAGTTTAGAATTTTTCAGGATGGTAAGGGTGAAAAAAATGGGTGTACTTACTCTACTTTAGGAGAGAC
TGTTACATATTGACCTTTAAAAATCTGTTTTTGTGTATAATTGAGACATATAACGTGATGTTTTGACACACATGTAAATAGTGAAATGATCACTA
CAGTCAAGCAAATTAATGTAATCCATTATCTTGAATAGTTAACCTTTCTTGTGTGTATGGTTAAAATACCTAAAATCTATTCTTTTAGTAAATT
TCCAGTATACCAATATATAACTAACTATAGTCCTCATGCTGTTTACAGTGACTATTTTATATAAAACATGAAACACTGAATATTGAGCCCTATG
ATATACTTTACCTTAGACATAGCAAAGTTGCTAGCATTCCTGTGACTGAGCAGTTAAAGGGTTACAGAAACTGACTGTGTGTCTTATTTCATTG
AAGGACTATTGGAAATGCACTTCATGCAATGAAATGAATCCCCCCTTCCATCACATTGCAACAGATGTTGGGCCCTTCGTGAGAATTGGCTTC
CTGAAGATAAAGGGAAAGATAAAGGGGAAATCTCTGAGAAAGCCAAACTGGAAAACTCAACACAAGCTGAAGAGGGCTTTGATGTTCCTGATTG
TAAAAAAACTATAGTGAATGATTCCAGAGAGTCATGTGTTGAGGAAAATGATGATAAAATTACACAAGCTTCACAATCACAAGAAAGTGAAGAC
TATTCTCAGCCATCAACTTCTAGTAGCATTATTTATAGCAGCCAAGAAGATGTGAAAGAGTTTGAAAGGGAAGAAACCCAAGACAAAGAAGAGA
GTGTGGAATCTAGTTTGCCCCTTAATGCCATTGAACCTTGTGTGATTTGTCAAGGTCGACCTAAAAATGGTTGCATTGTCCATGGCAAAACAGG
ACATCTTATGGCCTGCTTTACATGTGCAAAGAAGCTAAAGAAAAGGAATAAGCCCTGCCCAGTATGTAGACAACCAATTCAAATGATTGTGCTA
ACTTATTTCCCCTAGTTGACCTGTCTATAAGAGAATTATATATTTCTAACTATATAACCCTAGGAATTTAGACAACCTGAAATTTATTCACATA
TATCAAAGTGAGAAAATGCCTCAATTCACATAGATTTCTTCTCTTTAGTATAATTGACCTACTTTGGTAGTGGAATAGTGAATACTTACTATAA
TTTGACTTGAATATGTAGCTCATCCTTTACACCAACTCCTAATTTTAAATAATTTCTACTCTGTCTTAAATGAGAAGTACTTGGTTTTTTTTTT
TCTTAAATATGTATATGACATTTAAATGTAACTTATTATTTTTTTTGAGACCGAGTCTTGCTCTGTTACCCAGGCTGGAGTGCAGTGGCGTGAT
CTTGGCTCACTGCAAGCTCTGCCTCCCGGGTTCGCACCATTCTCCTGCCTCAGCCTCCCAATTAGCTTGGCCTACAGTCATCTGCCACCACACC
TGGCTAATTTTTTGTACTTTTAGTAGAGACAGGGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCCACCTCGGC
CTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCGTCCGGCCTAAATGTCACTTAGTACCTTTGATATAAAGAGAAAATGTGTGAAAGATT
TAGTTTTTTGTTTTTTTGTTTGTTTGTTTGTTTGTTTTGAGATGAGTCTCTCTGTCGCCCAGGCTGGAGTGCAGTGTCATGATCTAGCAG
TCTCCGCTTCCCGGGTTCAAGCCATTCTCCTGGCTCAGCCTCTGGAGCAGCTGGGATTACAGGCATGCACCACCATGCCCAGCTAATTTTTGTA
TTTTTAGTAGAGATAGGGTTTCACCATGTTGGCCAGGCTGGTCACGAACTCCTGACCTCAAGTGAGGTCACCCGCCTCGGCCTCCCGAAGTGCT
GGGATTGCAGATGTGAGCCACCATGTCCAGCCAAGAATTAGTATTTAAATTTTAGATACTCTTTTTTTTTTTTTTTTTTTTTTTTTGAGACAG
AGTCTTGCTCCATCACCCATGCTAGAGTGCAGTGGAGTGATCTCGGCTCACTGCAACTTCCGCCTTCTGGGTTCAAGCTATTCTCCTGCCTCAG
CCTTCCAAGTAACTGGGATTACAGGCATGTACCACCATACCAGCTGATTTTTTTGTATTTTTAGTAAAGACAGGGTTTCACCATGTTAGCCAGG
CTGATCTTGAACTCCTAAACTCAAGTGATCTACTCACCTCAGCCTCCCAAAATGCTGGGATTACAGATGTGAGGCACCTGGCCTCAGATTTTTG
ATACTCTTAAACCTTCTGATCCTTAGTTTCTCTCTCCAAAATACTCTTTCTAGGTTAAAAAAAAAAAGGCTCTTATATTTGGTGCTATGTAAAT
GAAAATGTTTTTTAGGTTTTCTTGATTTAACAATAGAGACAGGGTCTCCCTGTGTTGCCCAGGCTGGTCTCGAACTCCTGGGCTCAAGAGATCC
TCCTGTCTTGGCCTCGCAAAGTGCTAAGTAGGATTACAGGCGTTAGCCACCACACCCGGCTGTAAAAATGTACTTATTCTCCAGCCTCTTTTGT
ATAAACCATAGTAAGGGATGGGAGTAATGATGTTATCTGTGAAAATAGCCACCATTTACCCGTAAGACAAAACTTGTTAAAGCCTCCTGAGTCT
AACCTAGATTACATCAGGCCCTTTTTCACACACAAAAAAATCCTTTATGGGATTTAATGGAATCTGTTGTTTCCCCCTAAGTTGAAAAACAACT
CTAAGACACTTTAAAGTACCTTCTTGGCCTGGGTTACATGGTTCCCAGCCTAGGTTTCAGACTTTTGCTTAAGGCCAGTTTTAGAAACCCGTGA
ATTCAGAAAAGTTAATTCAGAAATTTGATAAACAGAATTGTTATTTAAAAACTAACTGGAAAGATTGTTAAGTTCTTTCTGAATTATTCAGAAA
TTATGCATCATTTTCCTTCAAGAATGACAGGGTCAGCATGTGGAATTCCAAGATACCTCTTGACTTCCTCTCAAGCTCCGTGTTTGGTCAGTGG
AGGCCCATCCGAGCTCAGCACTGAGAAGTGTTAGTTTCTTTGGGACCCATCTACCCTGACCACATCATGATGTTCATCTGCAGCTGTTGCAAGG
TGTTCAGATTGTATAAACATAAATGTCACAAAAACTTTAAAAGAAGTGCAATTCTCAAAAGGTTAGGTGGACTAAAGCATTCTGTAAAGCAACT
GCTAATAATGAGCTTACAGTGGATTTGAATTTGAAAAATATAGTAACAAGCCTGTCAAATATCTGCAAGAACTATGGAATAAAACTACTGATGC
AGTGAAGACAGTTGAAAAGATCAAACAAATGCCAAGCTATATTTATAATGAACAAATTCAAGAAAAAGGACTACGGAAAGTTCAGGACATCAAA
GAAGTCAGGCAAAACTCATCTTGACCCCTGTTGCAGGCAAAGGAACGCAGCTGGAAGAAAAGATGATATAACAGTTAACAGGATGCAGACATGG
CAGAGGTTTCCTAAAAATCTCATTATCTATAACCATTTCTATATTTACATTTGAAAATCTCCTTTGGAGACTTAGAACCTCTAAATTATTGACT
TATTTTTTATATAAGGTCACTCCGATGAAAGGTGATTACAAAATCATCTACATTGCTGTCTACAAAACAGATAATATGGATGTTTGATCGCATC
TCATTGTTAACTCTTTACTGATATGTTTGTAAATACAGAAGTGAAATGTGGACATAAAATAGTTACGCTATTTGGTTAATGGTACTAGACAACA
TGTAATTAATGACATTCAAAAATTTATGGCTAGTGATATATATAAAGTAAAATTTTCTTTGCAGTAAAATATGCCCTTTATTATAGAAGGGAGG
ATATAAGGAACCAACAGTTTGTATGAAAATAGCTCAAATAATATCTTTTATTTTGATTTTAATATTTCTTATTTTGGTTTATTAGTGTCTTAGA
ACAAAATGGCCTTATATAATGAAGCCTAGTTATGCTGGACTGTTTTGATCTCTTTTAATTGTTCTGACAGATAGTTGGGGATGAGAGCCGAATA

AGGTTTGCCTGAAATAACTGACACTATATAATTTCTGCTTTGGCAAATACTAAGTTCTAACTTGTCATTCCTGGTAGAACAAGCTTTATTTTTC
GAGCCTAGCAATGATCTAGAAGCAGATGTTATCTCAGTGCCTTTTGCAATTTGTTGTGTGGGTTTTTTTTTTTTTAAAGCCACACAATAATTTT
GGAAAACAATGTATGGGTAGAACATGTGTCTGTTAATTGCACACAAAACCACTTTTAATGGGTACAGAGTTAAATTTGAAGGAATAAGTTCTAG
CTGAAGTATTATGAACTCCAAATAATGCTTTGAGGACCTCCAAAGGTAAAAGTACTAATCCCTTTGGCCATTTATTGAGAGAGAGAGAGAGAGA
GAGTAGGGTGACTATAGTTAATGTATTGAATGTTCTTGCTACAAATAAATGATATTTGAGCTGATGGGTGTGCTAATTACACTGATTTGATCAA
TACCCATTGTATGTGAAACAGTACATACACCATATTTACAATTATGTATTTAACATTTAAAATTTCTAATATAAGTATCTCTCAAACTGTGGAT
TAACTTCTTGATTTATATTTAAATATGAATCTTAAGCAAAACAGTGAAAATAACCATCTTGATTTAGTGTTTTTCTCCCATATGTGAATTGTAT
ATACTTAGGTGAAGACAATAAAATCAACTGAACTGTAAGCTTAGAATAGGACTGAGGTAATTCTGCACAGCAACTTTACTAATGGTACATTGTT
GCTTCAAAACTCTCTCTCTCTCTCTCTGTCTGTCTCAATAAATGGCCAAAGGGATTAGTAGTTTACCTGTGGAGGTCCTCCAAGCATTATTTGG
AGTTGATAATACTTCAGCTACAACCAAGCAGAATCTCTTTTTTTTTGGAGGTCCTCGAAGCATTATTTGGAGTTGATAATACTTCAGCTTCAATT
TGGAGTTGATAATATTTCAGCTAGAACCTAGTAGAATCTGTTTTTTTTCCTTTGGAGGTCCTCAAAGCATTATTGGAGTTCATAATACTGAAGCT
AGAACCAAGCAGAATCTGTTTTTTTTCTGAGGAGTATCGGTAGCATAAATGTGATTATAAACATAGTACACTTGATATATGGAGGCAGTGACAGC
TATTTTTACAAAATTTAAATCTGCAAATGGATTCAACATGTTTATGGGTTATTAAAATGGCCTGATTTCTTAGGTTCTTTATAGTACACGTGTT
GAAAATATATGATTAAGAATTGTTTCAAGAATGCAATTATTTGATCTTAAATTTTTATGAGTTGTTAAAATAGAAATTATTTGAATATCATATA
TTTGGGTAACAAAAGGCACAAGTCTGAATGTGTTTCTTTTTCTGGAATGGCCATGCCTGCCCACTCTAGAAATACAAATATCACTTGGGCAGCT
TGAAGCAGTGGAGCCTCAATGAGACCACCTGAAGAATGTGGTCCCAGTTAGTAGAGTAAGAAAGGCTGGTTCTCCCTTTTTTTTTTGGGTCCCT
GGCCAGCCTGGCCTAAGTGTTCGTGATTGGTCTATAAGGGAGGTACCTGGCACAGGGAGGGGAGTTTGGGTTAGCCACCGTACCACTTGTCAGC
GTGAAAAGTAAGATTGTACTGGCCTGTTTAGTTTTCGGCCTCTTCTTTGAAAGTTCCACCAAGCTGGGAACCTCTTGATTGTGAGGCACAAATG
TAAGTACATCAGAAAAAAACAAAAAAACTGGCTTTAAAGCAGGAGCTTGTGGGCCCCTAAGCCAGACGGGGACTAGCTTTTGGCATTATATAAT
TAAGATTTTTTAAATCCTTAATAAGGGTTTTATTTTATTTTTATTTATTTTTTGAGACGGAGTCTTGCTCTGTGGCTCAGGCTGGAGTACAGTG
GTGCAATCTTGGCTCACTGCAACCTCTGCCTCCTGGCTGTGTTCAAGTGGTTCTGCTTCAGCCTCCCAAGTAGCTGGGGTTAGAGCACCCTGTC
ACCACGCCCCGCTAATTTTTGTATTTCTAGCAGAGATGAAGTTTCACTATGTTGGCCAGGCTGGGCTCAAACTCCTGACCTCAAGTGATCTGCC
CGCCTTGGCCCCCCAAAGTGCTGTGATTACAGGCGTGAGCCGCCACGCCCAGCCTAATAAGGGTTTTAAAGATAATTAGTGTGTAGGTCTGTAG
GCTTATGATGGTAACCACAAGTTGTTAATGGCATTGTGAAAAGTTTTTAGTTGCGCTTTATGGGTGGATGCTGAATTACATTTTGATTTGATAC
TTATAAAAAGAAAAAGTATTTCTTCAGCTTAAAAAATTGTTTAAAAGTTTGTGATCATATTGTCTACCATGTAGCCAGCTTTCAATTATATGTA
AGAGGGACTTTTTGACATTTACAAATAATACTTTGAGGTAGATATCTGAAAGCACCAGCACTTGGAAGGTGTTCAGAAGTAACAAATTATAAAA
TGAGCTAACAAACGAAAGGCAAAATAAAACCGTAAAGCAAGCAGATGGGAGGCGTGTTCAGTAACTTATTCATAATGCATCTGAAATGATTGCT
GTACTCAAATATTTAACGTTAGAGTAATAGTATTTTGAATGAAAACCATAGTTGATTGTCTTTAGAGAGAGGAGGAGTGGTACTGAAACATACTTGA
ATTCGTATTGCTTTCCTTTAAAGCTCTCCTTTAAAGACTTTAAAAAAAATTCGATAGGCATTTTCATGTTTCAGTCCTACAATCCCACATCTCT
GCTGCCTTCAGAATGCTACAACTTAGATGTCCAGCCAACAGCTTAAAGCCAATTTATAAAAATAGCATCTTTCCTAATTCCAAAATTTCACCTT
TTGTTTGTTTTGTTTTGAGATGCGGTCTTGCTCTGTCGCCCAGGCTGGAATGCAGTGCTGCAAACATGACTCACTACAGCCTCAACCTCCTGGG
CTCAAGCAATCCTCCCACCTCAGCCTCCCAAGTAGCTGGGGACCACAGGTGCAAGCCACCAGGTCCAGCTAACCTTCCCCCCACCTCCCCCGAC
CCCGCTGCCACCCGCCCTGAGACAGAGTCTTGCTCTTTCACCCAGACTGGAGTGCAGTGGTGCAATCTCGGCTCATTGCAACCTCCACCTCCCA
GGTTCAAGCAATTCTGCCTCAGCCTCCTGAGTAGCTGGAATTATAGGTGCTCGCCAACCACACCTGGCTAATTTTTTTTGTATTTTTAGTAGAG
ATGGGGTTTCAGCATGTTGTCCAGGCTGGTCTCGAACTCCTGACCTCATGATCCGCCCACCTCGGCCTCCCAAAGTACTGGGATTACAGGCGTG
AGCCACCGTGCCCGGCCTAATTTTTGTATTTTTTGTAGAGACAGTTTCACCATGTTGCCCAGGCTGGTCTCAAACTCCTGGGGTCAAGTGATCT
GCCCGTCTTGGCTTCCCAAAGTGCTGAGATTACAGGTGTAAGCCACCACGCCAAGCCCAAAATTTCACCTTTTAAATTTATTCCATTTATTTTG
TAGGTGAATTTCATTTATTTCTCAGGGTTAAATTTTAGCGCTTTTGCCTGTGTCTATTTTTGGTTCACACCTCCCCAGCCCACTGTCCTGTATT
AAGTAGGCCTTCCTTCAAGATCACAGTAATATCTCCCTAAATGGATTTCACTACGTTTGGTCCTATTTTTGGTTCAGTTATAGTTTACAGATAC
CATCATGTTGCTTCCCTGATTTAAATATTGGGGGAAAAACTTGCTTTTTGGATTTTATCTCTGATGTTCTACTGGATTATTTTAGACTTTTAGA
ACACTATGAAATGGGTGCTTGCTTTTCACTTTTCAAACCTTTTTTGCTTAAACAAAGTTCATAAGCTTATTGTAGTGGGAAGTTCAAAGTCACA
GATCTGGTACTTACTCGCCTAGTGACCTTAGAGACAATAAATCTATAGAGCCTAGTATGGGGTCTGGCAGGTAGTAAGCACTTTTAATGAATGG
AAGTTTAATATTCTGTTTGCATCCACTCGACCATAATCACCCCAAATCCAGCTTAGGTAGCCTTGAATTAACCCCTACTCCACCTTGAAGTTTT
TTATTTGTTTTTTGCTGAGACAGGGTCTCATTCTGTCACCCAGGCTGGAGTATAGTGGCGCAAACATGACTCACTGCAGCCTCCTGAGTAGCTG
GGAACACAGGCCTGTTGCCACCATGCCTGGCTAATATATATATTATATATAATATACATATATTACATATATATATATAATACATATGTGTTTA
TGTATGTATGTGTGTGTACATTATATATATATATATACTTTTTTTAGAGGCAGAGTCCTGCTATGTTGCCCAGGCTGGCCTTGAACTCCTGGGC
TCAAGCAATCCTCGTGTCTTGACCTTGACCTCTCAAAATGCTGGGATTACAGGTGCGAGCCACTGCATCTGGTGAATTAAGCCTTTTTTATACA
CTCAACTCTGAGGTATTCTGTTCATACCAATATGTTCCTTTGTATCTTCTTGCCATAGCAGGTTGTAACATCCTTTTGTATCTCCTTTCTTTTT
TTTTTTTTTTTTTTGAGACGGAGTCCCGCTGTTTAGCCCAGGCCGGATTGCAGTGGCGCAATCTCGGCTCACTGCAAGCTCCGCCTCCCAGGTT
CACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGCCCGCCACCGCGCCTGGCTAATTTTTTGTATTTTTAGTAGAGACGG
GGTTTCACCGTGTTAGCCAAGATGGTCTCGATCTCCTGACCTTGTGATCCGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCC
ACCGCGCCCAGCCGTATCTCCTTTCAAATGTCAAATAAATACATTGTGTATACAGTAGTAAAGGATGTTGATTGGCATTGAAAGCAACTATCAA
GTTCTTGTTGATTTAGAAGACAAAAAGACAATTTTAAAATAACATCCTGGGCCAGGCTCTGTGACTCACGCCTGTAATCTCAACACTTTGGGAG
GCCAAGGAAGGAGGATCACTTGAGGCCAGGAGTTTGAGATCAGCCTGGGCAACATAATGACACCCTGTATCCAAAAAATTGTGGTGGCATGCAT
GGGAGACTGAGGTGGGAGGATCACTTGAGCCCAGGAGTCCAATGTTACAATGAGCTATGATTGCGCCACTACACTCTGCTTAGGAGACAGATGG
AGACTTGTCTCTTAAAAAAATAAAAAATAACAGTATGTTCATTAAACATTAATCTCACTGATTGTGATTTTTTGTTTGTTTTTTTGAGATGGCG
TCTCGCTCTGTTGCCCAGGGTGGAGTGCAATGGCGTGATCTTGGCTCACTGCAGCCTCCACCTCCTGGGTTCAAGTGATTCTCCTGCTTTAGCC
TCCCAAGTAGCTGTGTTATTTCAGCTAATTTTTTCATTTTTAGTGGAGATGGGGTTTTGCCATGTTGGCCAGGCTGGTCTCGAATTCCTGACCT
CATGTGGTCCACCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATTGAGCCACTGTGCCTGGCCTGATTATGATTTTTAAAGTCCCCCC
CCAAATTATTGTTTGTGCAATAAATGGCAAAAAAGAAGCATTCTAAGAAAAAAGTAGTCTTAAAAGTTGATATGGTGTCAGAATTGTAAGAGAG
AGGGTCTTGGCTGAAAAGCCTTTTTAGAAAAAATTGCTCCCTACAAAAAAGGCCTTTTCTACCTTTTCTCACATTTGTTTCTTTTTATAGGAGG
CATCTGAGAAGACCAAATCTCTTCAAAGTTAAGCTTTTTGTTTTTTTTTGGGGGGGACGAAGTCTCGTTCTGTCACCCAGGCTGGAGTGTAGTGGC
ATGATCTCGGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGAAATTCAGGCGCCTGCCACC
ATGCCCAGCTAATTTTTGTATTTTTAATAGAGGCAGGGTTTCACTATATTGGCCAGGCTGGTCTCGAACTCCTGACCTCATGATCCGCCTGCCT
CTGCCTCCCAAAGTGTTGGGATTACAGGCATGAGCCACCGCACCCAGCCCAAAGTTAAGCATTTTTTAACCACAAGGTGGGAGGTGGAAGTATC
TCGTTGGAAGACTAAAGGTGTCCACTAACGGTAGACCCTTTTTTTTTTTTTTTGAGATGGAGTCTTACTCTGTTGCCCAGGCTGGAGTGCAAT
GGCGCGATCTCAGCTCACTGCAAGCTCCGCCTCCCAGGTTCAAGTGATTCTTCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGTGCATGCC
ACCATGCCTGGCTATTTTTCATATTTTTAGTAGAGATATGGTTTTGCCATGTTGGCCAGGCTGGTCTTGAACTCCTGATTTCAGGTGATCTATG
TGTCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCATTGCACCCGGCCTCAAAATTATTTCTAATGTGTGCAAAGATATCTGATAAAA
ACTACATGACTNNNNNNNNNNNNNNNNNNNNGCTGGAGTGTAGTGGCATGATCTCGGCTCACTGCAACCTTTGCCTCCTGGGTTCAAGCAATTC
TCCTGCCTCAGCCTCCCGAGTAGCTGGAAATTCAGGCGCCTGCCACCATGCCCAGCTAATTTTTGTATTTTTAATAGAGGCAGGGTTTCACTAT
ATTGGCCAGGCTGGTCTCGAACTCCTGACCTCATGATCCGCCTGCCTCTGCCTCCCAAAGTGTTGGGATTACAGGCATGAGCCACCGCACCCAG
CCCAAAGTTAAGCATTTTTTAACCACAAGGTGGGAGGTGGAAGTATCTCGTTGGAAGACTAAAGGTGTCCACTAACGGTAGACCCTTTTTTTTTT

TTTTTTTGAGATGGAGTTTCACTGTCGCCCAGACTAGACTGAAGTGGCGCGATCTCGGCTCACTGCAACCTCTGCCCCCCAGGTTCAAGTGATT
CTCCTGCCTCAGCCTCTAGAGTAGCTAGGATTACAGGGGTCCACCACCACACCTGGCTAGTTTTTGTATTTTCAGTAGAGACGGGGTTTCACCA
TGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGACCCACCTGCTTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGCGCC
TGGCCGTTTTTTTTTTTGTTGTTGTTGTTGTTTGTTCGTTTGTTTGTTTTGAGACAGTCTCTCACTCCAGGTTGGAGTGCAGTGGCACTATCTC
AGCTCACTGCAAACTCTGCCTCCCAAGGTCAAATGATTCTCCTGCCTCAGCCTCCCAGTAGTTGGAATTACAGGCGCATGCCACCATGCATGGC
TAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCATGCTAGCCTTGAACTCCTGACCTTGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCT
GGGATTACAGACATGAGCCACCATGCTAGCCTTGAACTCCTGACCTCGTGATCTGCCTGCCTCGGCCTCCCA

HUMAN SEQUENCE - mRNA
GCACCGCGCGAGCTTGGCTGCTTCTGGGGCCTGTGTGGCCCTGTGTGTCGGAAAGATGGAGCAAGAAGCCGAGCCCGAGGGGCGGCCGCGACCC
CTCTGACCGAGATCCTGCTGCTTTCGCAGCCAGGAGCACCGTCCCTCCCCGGATTAGTGCGTACGAGCGCCCAGTGCCCTGGCCCGGAGAGTGG
AATGATCCCCGAGGCCCAGGGCGTCGTGCTTCCGCAGTAGTCAGTCCCCGTGAAGGAAACTGGGGAGTCTTGAGGGACCCCCGACTCCAAGCGC
GAAAACCCCGGATGGTGAGGAGCAGGCAAATGTGCAATACCAACATGTCTGTACCTACTGATGGTGCTGTAACCACCTCACAGATTCCAGCTTC
GGAACAAGAGACCCTGGTTAGACCAAAGCCATTGCTTTTGAAGTTATTAAAGTCTGTTGGTGCACAAAAAGACACTTATACTATGAAAGAGGTT
CTTTTTTATCTTGGCCAGTATATTATGACTAAACGATTATATGATGAGAAGCAACAACATATTGTATATTGTTCAAATGATCTTCTAGGAGATT
TGTTTGGCGTGCCAAGCTTCTCTGTGAAAGAGCACAGGAAAATATATACCATGATCTACAGGAACTTGGTAGTAGTCAATCAGCAGGAATCATC
GGACTCAGGTACATCTGTGAGTGAGAACAGGTGTCACCTTGAAGGTGGGAGTGATCAAAAGGACCTTGTACAAGAGCTTCAGGAAGAGAAACCT
TCATCTTCACATTTGGTTTCTAGACCATCTACCTCATCTAGAAGGAGAGCAATTAGTGAGACAGAAGAAAATTCAGATGAATTATCTGGTGAAC
GACAAAGAAAACGCCACAAATCTGATAGTATTTCCCTTTCCTTTGATGAAAGCCTGGCTCTGTGTGTAATAAGGGAGATATGTTGTGAAAGAAG
CAGTAGCAGTGAATCTACAGGGACGCCATCGAATCCGGATCTTGATGCTGGTGTAAGTGAACATTCAGGTGATTGGTTGGATCAGGATTCAGTT
TCAGATCAGTTTAGTGTAGAATTTGAAGTTGAATCTCTCGACTCAGAAGATTATAGCCTTAGTGAAGAAGGACAAGAACTCTCAGATGAAGATG
ATGAGGTATATCAAGTTACTGTGTATCAGGCAGGGGAGAGTGATACAGATTCATTTGAAGAAGATCCTGAAATTTCCTTAGCTGACTATTGGAA
ATGCACTTCATGCAATGAAATGAATCCCCCCCTTCCATCACATTGCAACAGATGTTGGGCCCTTCGTGAGAATTGGCTTCCTGAAGATAAAGGG
AAAGATAAAGGGGAAATCTCTGAGAAAGCCAAACTGGAAAACTCAACACAAGCTGAAGAGGGCTTTGATGTTCCTGATTGTAAAAAAACTATAG
TGAATGATTCCAGAGAGTCATGTGTTGAGGAAAATGATGATAAAATTACACAAGCTTCACAATCACAAGAAAGTGAAGACTATTCTCAGCCATC
AACTTCTAGTAGCATTATTTATAGCAGCCAAGAAGATGTGAAAGAGTTTGAAAGGGAAGAAACCCAAGACAAAGAAGAGAGTGTGGAATCTAGT
TTGCCCCTTAATGCCATTGAACCTTGTGTGATTTGTCAAGGTCGACCTAAAAATGGTTGCATTGTCCATGGCAAAACAGGACATCTTATGGCCT
GCTTTACATGTGCAAAGAAGCTAAAGAAAAGGAATAAGCCCTGCCCAGTATGTAGACAACCAATTCAAATGATTGTGCTAACTTATTTCCCCTA
GTTGACCTGTCTATAAGAGAATTATATATTTCTAACTATATAACCCTAGGAATTTAGACAACCTGAAATTTATTCACATATATCAAAGTGAGAA
AATGCCTCAATTCACATAGATTTCTTCTCTTTAGTATAATTGACCTACTTTGGTAGTGGAATAGTGAATACTTACTATAATTTGACTTGAATAT
GTAGCTCATCCTTTACACCAACTCCTAATTTTAAATAATTTCTACTCTGTCTTAAATGAGAAGTACTTGGTTTTTTTTTTTCTTAAATATGTATA
TGACATTTAAATGTAACTTATTATTTTTTTTGAGACCGAGTCTTGCTCTGTTACCCAGGCTGGAGTGCAGTGGGTGATCTTGGCTCACTGCAAG
CTCTGCCCTCCCCGGGTTCGCACCATTCTCCTGCCTCAGCCTCCCAATTAGCTTGGCCTACAGTCATCTGCCACCACACCTGGCTAATTTTTTG
TACTTTTAGTAGAGACAGGGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCCACCTCGGCCTCCCAAAGTGCTG
GGATTACAGGCATGAGCCACCG

HUMAN SEQUENCE - CODING
ATGTGCAATACCAACATGTCTGTACCTACTGATGGTGCTGTAACCACCTCACAGATTCCAGCTTCGGAACAAGAGACCCTGGTTAGACCAAAGC
CATTGCTTTTGAAGTTATTAAAGTCTGTTGGTGCACAAAAAGACACTTATACTATGAAAGAGGTTCTTTTTTATCTTGGCCAGTATATTATGAC
TAAACGATTATATGATGAGAAGCAACAACATATTGTATATTGTTCAAATGATCTTCTAGGAGATTTGTTTGGCGTGCCAAGCTTCTCTGTGAAA
GAGCACAGGAAAATATATACCATGATCTACAGGAACTTGGTAGTAGTCAATCAGCAGGAATCATCGGACTCAGGTACATCTGTGAGTGAGAACA
GGTGTCACCTTGAAGGTGGGAGTGATCAAAAGGACCTTGTACAAGAGCTTCAGGAAGAGAAACCTTCATCTTCACATTTGGTTTCTAGACCATC
TACCTCATCTAGAAGGAGAGCAATTAGTGAGACAGAAGAAAATTCAGATGAATTATCTGGTGAACGACAAAGAAAACGCCACAAATCTGATAGT
ATTTCCCTTTCCTTTGATGAAAGCCTGGCTCTGTGTGTAATAAGGGAGATATGTTGTGAAAGAAGCAGTAGCAGTGAATCTACAGGGACGCCAT
CGAATCCGGATCTTGATGCTGGTGTAAGTGAACATTCAGGTGATTGGTTGGATCAGGATTCAGTTTCAGATCAGTTTAGTGTAGAATTTGAAGT
TGAATCTCTCGACTCAGAAGATTATAGCCTTAGTGAAGAAGGACAAGAACTCTCAGATGAAGATGATGAGGTATATCAAGTTACTGTGTATCAG
GCAGGGGAGAGTGATACAGATTCATTTGAAGAAGATCCTGAAATTTCCTTAGCTGACTATTGGAAATGCACTTCATGCAATGAAATGAATCCCC
CCCTTCCATCACATTGCAACAGATGTTGGGCCCTTCGTGAGAATTGGCTTCCTGAAGATAAAGGGAAAGATAAAGGGGAAATCTCTGAGAAAGC
CAAACTGGAAAACTCAACACAAGCTGAAGAGGGCTTTGATGTTCCTGATTGTAAAAAAACTATAGTGAATGATTCCAGAGAGTCATGTGTTGAG
GAAAATGATGATAAAATTACACAAGCTTCACAATCACAAGAAAGTGAAGACTATTCTCAGCCATCAACTTCTAGTAGCATTATTTATAGCAGCC
AAGAAGATGTGAAAGAGTTTGAAAGGGAAGAAACCCAAGACAAAGAAGAGAGTGTGGAATCTAGTTTGCCCCTTAATGCCATTGAACCTTGTGT
GATTTGTCAAGGTCGACCTAAAAATGGTTGCATTGTCCATGGCAAAACAGGACATCTTATGGCCTGCTTTACATGTGCAAAGAAGCTAAAGAAA
AGGAATAAGCCCTGCCCAGTATGTAGACAACCAATTCAAATGATTGTGCTAACTTATTTCCCCTAG

TABLE 30

MOUSE NOMENCLATURE
ICSGNM Prlr
Celera mCG18319

HUMAN NOMENCLATURE
HGNC PRLR
Celera hCG37101

MOUSE SEQUENCE - GENOMIC

TCAGAATTTGACTGTCCTAAAGAACCTTCTTCCGCTGTGCGAGTCTGGGCAGGCAGAACATTCAGGAGAAACCACAGGGAAACAGGTCTGTTTT
TAAAATTTCCTTTTCATGCTCTGTTTCCCTTTTACCTCCTCTCCTGTTCTTTCCATATCTACTGTCATTTTGCTACCCAGAAAACCTAGTGATT
CCTCCCAGCTGACAGGGCTGAGCTTGTGTTTCCACGGAGTCCAGGTTCATGGCAGGCCTGTTGAATATGGCCCTGGAATGACGTGCTTTCCTGC
TCTTTATTTATCAGAGCCTATGACTCATAGGGCCTAGTGGACTACGCTTCCAAAAAGCATTAGTTTTTGTTATTTTCCAGTTAGCATACAAACT
GTTTCAGAATGACAGTCTCAGACAGACAGCCAAACAGACAGACAGAGAGATAATTTTACTTTGTTTAATTTTACCCTTGTCCCTCTTCACCCTT
CCTGCTAATCTTCCTTCACACAAACAATTCCTCTTCTGTTTCCATGTCATATAGATATGTACACTCCCCCCACACACACATACCCCACACACAC
TCACACAGACCCCTTTTACTTTCATATCAACCATTCTTTTCTATTGGGGAAGGTAGGGTAGGTATGCCCCACGGTGAGCACATAGAAGTCAGGA
GATCACTCTCCAGAGTTCTCTCCTGCCACCCTGTGGGATCCAGGGTTCAAACCTAGGTCATCAGGCCTGGACCAAAGGGCCTCTTACCACTGAC
CCATCTCACCAGCCTTATTCAGGTTTTTTCCCCTTCAATCTGCATATGATAGAAAACTTGTAGTATTTCTTGTTCAAAATCTGGCTTCTTTGAT
TTATTTGCCTCTCTAGTTCCATCTAGCATACAAACTATTTCAGAATGACACTCTTAGGTAGATAGATAGATAGATAGATAGATAGATAGATAGA
TAGATAGATGCATACATACATACATACATACATACATACATACATACATACATAGATACAGATAGACAGAGACATTTCATTTTCTACACTTAAATACATCTC
TGCTATGTCTATGCACCACATTTGCTCTATTCAGTCATCTGCTAATAGACACCCATGCTGGTTCCATATCCCTACTACTATAAATAGTGCTACA
TGAACATGAATGTACAAGTCATCTGTCTAAAATGCTGCCTCAGATTGCTTCAGGTATATACTTAGGAATGGTACAGTTTGGTCATATAGTCATT
CTTTTTTGTTTCTGATGAACCTCCATGCTAACTTCTATATGGCTACTCTGGTTACATACTCTACAGTAGCGTATGAACATCTGTTCCCCTACAT
ATCTGCTCCAGAACTTATTGGATTTTTTTTTGAGGTTGTTTTCAGCCATTGTGTATACAGTGGGATGGAATCTCAGTTCTGTTTGTTGGTTGGT
CTGTTGTTTAGAGACAGGGTCTTCCATAGCTTAGTGTACAGTATGTAGACTGTGGACCAGGCTAGTCTCAAACTCTCCCTGATGTTCCTGCTTA
TTTTTCCTAATTGTTATGATCACACATGTATGCCAACAAACCTGGCTTCATTGCAGCTTTCTGAAGTTTTATTTTTAGATTTATTTGTTTTATT
TTTATATGTTTGCCTATATGTGTGTACATGTACATGTGTGGGCCACATATGTGTGTGGTCCTTGCAGAGGTCAGAAGAGGGTGTCAGATCTCCT
GGAACTGGAGTTACAGATGGTTGTGAACCATATCTGAAAACTATACCCGAATCTTCCACAAGAGTATGTATGCTCATAACTGCTAAGACACCTC
CACAACCTCAATGTAGCTTCAATTTACATTTTCCTATGGCTAATGTTCCTATGAACAATTTTATATTTTATATGTATTTATTGGCTAATTCACT
TCTTTTGAGAACTGCCTTTTTTAATTTATCTGTCCATTCATTGATTGACTTTGTCTTTTGTAATTTTGAGTCAGGGTTAAAGTTTTTGAATTCT
TTCTATATTCTAGATATATAAAGATTAATAGTTGGCAGGAATTTTTCTCCCAAAGATCCTGAACGTTAATGCTTTCCCTCAAGGTTCACTTTAG
CTGTCTTGCTTAAAGCTTGATAAAAAAACTAAAGTCCTTTCCAATCAGACACGTGTGAGCAAGTTTTCCCTGAGCCACAAGCTGCAGTGCAGGA
AACTATCTGGATCAAAAACGTGTTCTCGTGATTTCCATTAAGGGATTGTCTCTTGTTCCCTGTCCCCTAAGCGAGTGCTGATAACAGTCCTCCA
TACCTTAGCACGTAAGTCAATCATTAACAATGGGCTGTACTTTTCACTGGGTTGTAAAGAATAAGAAGTCAGAGCTACAGAAATCTCCTTTCTT
GAGGTAGGCAGTGGAAGGAAGAGTGTCACTTGCCTGTAAACCTCATAACCAATATGTAGCAGGCTGCAGCCCAACACGCAGGGGACGTGTCCGA
ACAGAGGAGAGTCACAGGTAAGGAATACGGGTCCATTTCTGTTTCTCTATCCATTCTGATTCTCTCTTCTCACCTTTCCAATCTGTGGACTAAA
AATGAACAGGGTCAAGGTGTGATTACAGTATCAGTGGTAGAAAGAGGTTTCTATGGACTGACCTGTGTTTTAACAAGAGATGGGCATTAGATGT
TAGTTAATTCACAATCTCCGTCTGACTCCTTCAAGACTGATTTCTTACAAACATCTGACTTCTTCAAGACTCGGAGTTCCAGAGAGAAAATGTA
TGTCAGTTACAGGAGCAAAGATCAGCGCAACAGCAGTGGTCACATGACAGGCCAGTCCTTGGGGAGGATAAAGATGAATTAGTGTGGACTTGGG
AACATCTCCAGATCCTACTCAAAGGCAAAAGGAGGTTAGATGGTAAATTTGAAAGAATTGCTACAAACTGCGCCAAAGGAAAGGAATTATGCTT
ATTTCTCTTTTTTTGACAGACTTTGGGGGTTTTTTGGTGTTTTGTTTGGTTTGGTTTGGTTTGGTTTGGTTTGGTTTGGTTTGGTTGGT
TGTTTTTTTTGCAATGATTTGTTTTAAAATAAATTTGTCTTCTTTAGAAAGCTTCCAGATACTCACTTTCCTTTCTCAACGACTTTCTTCTGCTA
TTACATGTGGCATTCTTGTGACACATTTATGACGACGAACCAACGTTAGCATGCTATCTACTTAAGCTCTTACACTATCTACATTAACATTGAG
TATTTGTCTCAGATATTTTTATGGGTTTTAAGAAATGCATAATGACACATCACTGACTTGTACAAAATAGTCCCATGATCCTAAAAGTCCCATG
TTCTACCTAGTTCTCTTTCCCCACTCCCCTACCAAGCCCCTCAAAACCACTCACCATTTTTCCTGACTCCATGGCTTTACCCGGTCTAAAGGGT
CGCCTGGTTGCAATGAAGTAGAACGTGGTCTTTTCGGATTGGTTTGAATTAGTAGTGTGCTTTTGAGTTTTTTCTGCATCTTTCTGTGGCTCAG
TAGCACATCCCTCTTTGTCGCTGAGTAACATATGACTATGTGACTAAACTACAGCAAATGTATCCAGTTGGGCAAATGTTTTAGCATGGTAGAA
AGTGGAAACGATAAAGGTGGGGGGAGTTTAGAAAGTGGCAGTACTATAAACGTGATAGAAGCAAGAAGAACACGAAGTAGAAAAACTAGCTAGA
AAGCTAAACACAGATGCCTCAGTTGAAATAAAAATTTTTTTAAAAGCTCTGGTTCTAGGGTGGCGCCAGCTCTTTTCTAAGCATATAGATTATG
CTGGGAGACACATTACCTTCAACCCAAGAGCCTACACATGGTAGGCACCCCATAACATTTTTGAAGCCCCCAAACTCCAAGACTTTTTCCAAAA
AGAGGCTTCCCCAAGACACCAGCTTATTGGCTCAGAAGCCATATCAGGGAAGCTGTAGCTGCTTGGTCAGATGAGCCTTTGCATGCCATAGGAT
AAGAAAATATTCCCTTGATAACCTTTGTTTGACCGTGGCTTATGGAAGCTATGAGTATAAGCAAAGAACTCATGTTTCAACCTAATCACAGAAG
TAGCCCAAACAATTTCCATGTAACAACAACAAAGGCTATGAGAAGATGAGCCAGCTATGCCTTCAAATGTTCACCACATTCTAGAGCAGAGAAC
AGTCATGTACCATTATCAGTAGCCCATGCAATGATGTAGGAGCCCAGTCCAAGGTGATGCAGCTTACAGTATGGCTGTGTAGTTGTCCAGGGAA
ACTGATGGGCCAGCTGGGGCTTGCAGAACCTAAAGAGACCTGCAAGTAGCAATTTGCTAACTCAGTGGGGCTACCATGCAAAAAAAGCTGATCA
CCCAGGCTAGTCAATGTATTGGTTCAAAATCATCAACTGCTTAAAACCAGGTTCTCTGCCAGAGCATAGCATTGCTATTCCTTAATGCCCAGAT
TCCTTTCTTACTGTGTGATGAAATGGGGAATTAGCCAGACATGAAGATAGGACCTTGTGATTCAGAGCTTTTCATGTCCTCTACTAAGTTAACT
TACACACTCAGCACAGGCTAAAAAATACCTGAGGATTTTCTACACAAGACAAATCTGGGAACTGCTTTGCCCAAAGGCTATTCTGTAGAGTGGA
GCTCATCCAAAGACTTACAACTTACTGCTTGTCTCGGTTTATGCTTACACAACAAGAGGGCTTGACCATCATTGTAGACAGTTTAGAATGGATG
GTGGATTTGGAGGCATCGGAATAAGCAATGTGTAGCTCTCTATCCCACTCAAAGCTCCTGGATGGGAATACTTGAAGAAGGAGATGTCTATGTG
AAGACTGATTCTGTGAGCACATCTGCCGACCTAGAGATCTTCAAGCCACAGGGCAATAGAAACATCTCAAGCAACTTCCGTGTAATGAGAAATG
AGCAGAGGAGAATCAGACTCTGATTCCAACACAGCATCAGCTGGGGAAGCAGCTGCCTCTATGCATCAGCTTCTAGCCACTTCTGCTTGTCTGG
CTTGTCTCTAGAGCATATCCTGAACATAAAGTGCCTGAGACAGGAACAAGCAGTACCTAGGCTAAAGCCACAATGACACAGAACTTACCTTGCT
TGTGCAAAGCACCAGACTCACTTTCAGAACCTGGGGCAAGTCTAGATCCCCAATTTTGAAAAGCATTTTGATGATTTCATATATCTATAGGATG
GATTTTTTTGTCATTTTCATGTGAGCACATGTGTCTCCCCCTTCTCCTGCTGGAATTTTTCTCAACTGGTGTCCCATGTTCTCTTTTTCTGTGT
GTATGGTGCCAGATAATTGACTCCAAATTTTCTGGGAGAAATGTGCATCTATATCTCAAGACTTTGTTTTCAAGGAACTAACCAAATAGGATG
TCCATCTTACTTCCTTGTTTATTTGTATTTTCTTTTATGTCTAGAAGAAATTAGTCATGAAAAATCTAAGACCAAGTCCAACATTTGGTAGTAG
GGGAGAGGAAGAGAAGGCAAGGTACTGTGTCCTGGGAATGTGACTGATTTTCCAGACAAACCTTCTCGTCTTCTTGTCCACATTTTCTCGTGAT
TTGTTTCAGAACCCTTCCTGACCTCACTCTTTTGACCTTATTTCATGCTCTTCTCTCCACCTGCCTGATAGTACTCAGCTGCAGACACAGGACA
CATTTATGCATCTCTCATCAGTATAGGGCTCAGGATTATCCCCCAAGGGATATGGCGTGGGTGCAAAGATGAGAGCACAAGGCAGAGAATGTCA

CGAGATGGACACAATCTCTTCCATAGAAGCCCTCATTTTTAGGGATATTAAAGGACAGACACTATGGCAGAAAATTGTACAATGTCCTTGGCAT
TATAAAGTTAAACTCTGGGCCCTTTGACCATCCATATGTTCTCTCCATGTAGGTTAATCAACCACAAATTATATAACAGGATAGGGGTTGGAAA
TACAAAGGTGGATGAAGTAGCCCTTGTTCCCAAAGAGCTAATGGGTGAGACTGGCTCATGGGTCCATGATGGTGGCAAAAAGTACGGTGACCTG
GGACCACATCACAGAAACTTGTAATGAGGTCAGCTCAAGAGGCCCTGGGATCACATTGTGATATACGATAGAGCTCCTAAGTACCAAACTGAAA
GATGAAGCTGAGAGGAAGATGTCTGCGGAGAGCATTACACTGGAAAGAGAAGCCCCAGAGAGCAGAGAACAGAAGCACAGAAGTAATACAGTGG
TAGCTGGAAGACTGCAGGTCAAATAAAGGAAATTGTGATGTTTGTCCTGGGGAGAAGTGATACCTGAAACAGAAACAGGGCTAGCCCCTCTGGA
TGGACTTAAGCCATGCAAGAAGATAGAGACTAAGGAAAACCATCAGAGCATTGCAGATAGATGAGGCATGAAGGGAGATTTGCATTTGAGGAAG
GAAAAGTCTGGATGGAATGTGAAGAATAGTTTAAAGGAGACAAAACAGAAGACTTGGAAAACACGTGGGAGGCTGTTGACATGAGGTGGCTTAG
AAACAGTGTTCCTAGGAAGTCTCGTTCTACACCTGTCACCTCAGGGTTCCTGATGACCCGTGAGCAAGACTTTCTAGAAAGAGCCGGTTCATTA
ATCACGTCACTTCTGTGGTATTAATAAAGCAACTATCATGGCTTTATTTTGTATCGACAACACTATCATGTAAATATTCCTTACTGATAAGGGC
CAGTCTCCCTCAGCATTTGTCAGCCACTAGGCTCAGGGAGCCAGCTACCTTGCATTTCTTCACTGCCTCTGTAAAGAGAAGTTTTCTCTTTGAT
TATGAGTAGATACACAACTGCCTTGATGCTTGTTCTAGCACAGCGGAAGAGGATAACTACCAGGGAAACTCGCCAATCACAAGGAAATCCGAGT
GTTTCTCTCGTACCCCAGTGTTGTCAGTTAGGTTTCATTTCAAAGTCAAGATTGTTCAAGCCAAAGTACAATTGGTTTTAAATGCTGTCTTTAA
AGAAGGAATATGTTAGAGAAAATTGCTTGACACTCATTAGTGTGAAGCATGAGGGCAGCACTTCATGGCTGTGACTCAGTCTAAAAATTTCATC
ATCTCTACTAGTTTGCCAGGGTGGCCATAGCGAAGCCTAGCCAACTGGGGGATCTCAAATGACAGAAAGATATTGCAGTTGGGAGGCCAGGAAA
CAGAAATCAAGGTGATCAAGGTAGCAAAAGTGGCTGTCTTCTGAAGTCAGTGAGGAAGAATCTGTTCCTTGTCTTTCTCTTCACTACTAATGGG
AATCGGTTGCACTCCTTGGCTCATAGAACACCCTTGCCTCTTTTTTAATGCTGACATGGTTCTCTCTCTCTACTCTCTCTCTCTCTCTCTCT
CTCTCTCTCTCTCTCTGTGTGTGAGGGGAGATTTATCTTTGTCAGTATGAACCCATATGTCTAGACCGAGCCATCCCATTTTAATAAGTTAGAC
TGAAGCAAAGCCCATCATAATGGGCTCCTCTCAGCTGCGTCCCTCTGCGATGACCTTTTTTCCAAATAAGATCCAATTCTGAGATGTCAAGTGT
TCTTATGTTTCAACATAAGAATTTGTTGTACATTGACAGATACAATTCAGTCCAAATACCACCTAATATGATTTCAAAATTAAATAAGTTATCT
TCTATTTAAAAAAAATAAAACCTTGAAGATCCTCCAGTTTCTGAGTTCTTCTTCTGTTTCTTTCTTGAGAGACTTGAAGTTCTTCTCATACAGA
TTTTTCACTTCTTTGGATAGAGTTACCCTAAGATATTTTATATTATTTGTGAATATTATGAAGGGTGTTGTTTCCCTAATTTCTTTCTCAGCCT
GTTTATCCTTTGCGTAGATGAAAGCTACTGGTTGGTTTGAGTTAATTTTATATCCAGCCACTTTGCTGAAGTTGTTTATCAGCTGGAGAAGCTC
TCAGGTTGAATTTCTGGAGTCGTTTATGTATACTATCATATCATCTCCAAATAGTGATACCTTGACTTCTTTGCCAATTTGTATCCACTTGATC
TCCTTTTGTTGTCTTATAGTTCTAGCTAGAACTTTGAGTACTATATTGAATAGATAGGGAGAGAGTGGGCAGCCTTGTCTTGTCCCTAGTTTTA
GTGGGATTGCTTCAAGTATCTCTCCATTTAACTTGATATTGGCTATTGGTTTGCTGTGTATTGCTTTTATTATATTTAAGTATGAACCTTGAAT
ACCTGATACTTCCACCACTTTTAACATGAAAGGGTGTTGTATTTTGTCAAATGCCTTTTCAGCATCCAATAAGATGTCGATGTGATTTTTTTTC
TTTCAGTTTATTTATATAGTGGATTGTATTAATGGATTTTCATAGTGAAACAACCTTCCATGCCTGGGATGAAGCCTACTTGATCATGGTGAAT
GTGGTTGATCGCTTTGATCTGTTCTTGGATTTGTTTTTGTAAGAATTTTATTGAGTATTTTTGCCTCAATGTTCATAGGGAAATTATTCTGAAGT
TCTCTTTTTTTTGGTTGGGTCTTTGTATAGTTTAGGTATTAGAGTAATTTTGGCTTCATAAAATGAATTAGGCAGTATTCTTAATGTTTCTATTT
TATGGAATAGTTTGAGGAGTGCTGGTATTAGCTCTTCTTCTGCACTAAAGCCATCTGGCCCTGGGCTCTTTTATTGGGGTGGGGGGATTTTTAA
TTACTTCTATTTACTTAGGGGATATGGGTCTCTTTAGATAATTTACCTGCTCTTGATTTAACTTTGGTTCATGATTCTAGTTTTGTTGATTCTT
TTATCTCTTTGTTTCTATTTGGTTGACTCAGCCCTGAGTTTGACTATTTCCTGTCATCAACTCCTTTGGGGTGTGTTTGCTTCTTTGTTGTTGT
TGTTGTTCTAGGACTTTCAGGTGTACTGTTATGTTGCTAGAGGAGAATCTGTCCAATTTCTTTACCAGGGCACTTAGTTTTTTTCAGCACTGCT
TTCATTGTGTCCCATAAGTTTAGGTATGCTGTGTCATCATTTTCATAGAATTCCAGGAAGTCTTTAATATCTTTCTTTATTTCTTCCCTGACCA
AGTTACCATTGAGTAGAGAGTTGTTCAGTTTCCAGGTGTATGTGGGTTTTCTGTTGTTTTTGTTGTTACTAAAGTCTATCCTTAGTCTGTGGTG
ATCTGATGGGATGCATGGGACTATTTCAATCTTCTTATAAAGGTTGAGGTTTGTTTTGTGACTAATTATATGGCCAATTTTGAAGAGGGTTCCA
TGAGGTGCTGAGAAGAAATTGTATTCTTTTGTTTTCGAGTGAAATGTTCTGTATATATCTGTTAAATCCATTTGGTTCATAACCTCTATTAATT
TCATTGTGTCTCTGTTTAGTTTCTGTTTCAGTGACCTGTCCATTAGTGAGAGTGGAGTGTTGAAGTCTCCCACTATTATTGTGAGGGGTTCAAT
GTATGTTTTGAGCTTTAGTAAAGTTTCTTTTATGAATGTGGGTGCCAGGATAGGAGAGTATGATGAGATACAACTGATTTTCAGTTGTCACTGA
GAGTTTGTAGTTTGGGTGAGCTAGGGCAAAATCTATGAAGTGAAGGCATTATGTCCTCCTGAAGAACCCAGAGAATGAGTTTTTCAACATTTGA
GCCTTGTTCCTATGGGCCTGGATAGGACCACCATAGTGAGTCTTAGAATGTCATTTCAACGTGCCCTGGATGGGATGAACACATGCTGCCTAGG
GGAGTAGCTGACGTGCATCAAAGTGTTTACTCGACCCAGATCACATCAGAATCAACCCTTGTAAAAATAAATAAGGTATGTTGATTTTTTGTGC
AGATGGTTAAACAAATCTGATGGGGCAAAATGAGTTCTAGGAATAAGGGATATCAGAGGGCAAAGCTGCTGAAGATAGCAAGAGCTGCACCTGG
ACAATTTTGGGGCATAGTCCCTGGCAGCTGTGAGTGGCTGTTCTAGGGGACTGCAGTGCCAAGAGAAGAATACTTGCCTGCCAAAGAGAGAAGC
TGACTCAAGGGGGCAAAGTCAAGCTGAGCTGAATTCTAGGGAAACGTAGAAGAGCAATCATCCAGAGAGGGGCTCTGATAGAGCTCCCTGGCCA
CTGTCTGCTCTTTTCAGAAGTCTGGACTCCCTGACCTCCAAGGCCTCCTCAAGGTATGGAGTTCTCTCCCTCTTGGATGTTTCTATCTCCTTTC
ACTGATGCTCAGGGAGACTTGTGACTTGAGCTGGAAAATACTGCTCTGGGAGGGAAGAACGGTCTGTTGTCCTAAAGCAGTGTGACCTTGGAAA
TGTAGCTAAACTTTTCTGGACTCGATGTCTTTCTTTGTTTTCTGAGATTCTTGGAGTTCTGGAAATCATGGGCTCTTCTGGGTGAAATGGATCT
TAGAAACCTAGCCCAGTTTTGTGGCTGAAGAAACTAATGCTGAATTGAGAGATTTCATTATTGTCAGGAAACTAATCTATTAAAGGCAGGGTAC
ATAAAACTTGAAGATCTTCCTTCTCACCAAGAACCAATTCCACAAAGGCCCTTGGTGTCAGAAGCCTACATTTGTTCCTCCTGAGAATCCTCTG
AAGTACAGTCTTCTACCTGCCTCAGACTTGTGCAAACTGGTTTCCCCAATGGCTTCCTGCTGCTGAATAAAAAGTCAGAACCTTACATGTCAGA
CACATTTCCTGCCACCTCCATTTACCCTCCTGCAGTTCCCTCTTTCTAACTGGCTTCAAGCTGAGTAGAAGCAAGGATCTGATTGTTGTGAGTG
GGCAGGTTCATCAGAGGGTACAGATAGACCAACAAAAAGACTTATTCCAAGCAATATCCAGTTTCCCAAAGGAAACTCCTATCCAATGGATGAA
AGATATTATTATGTAAGGATTGTTTTATGATTTGATATGAATTTAAATGATCCGTTGTGAAATAGAATGCAGGGATATGGCAGCACAGGTTGGA
TGGGAGCTAACTGGATGTTCTGCAGTGATTGGATTCTCCTGGATCAATATCCTCCTCCTCCCGCCCTCCCTGTCTTATCTTTGGCTTAGAGAGC
CAGGTGCATCCAAGTACAGGATTCCTGATCAGCATCAGCACCTCTCAAAATCTAAGAGAAAAGTTGGCTCCTCTGGGTAAACTGAAGCCTTAGC
AAGGTACTGATGCCTCCTCTGGGTGACTATGTTACACCTTCCAAAGTGATTTGGCTTTTATGTCCCAGTTAGATGGTTTGGTGTCAGCAGCATA
TTGTAGCTTACATTGAGGATAAGTTAAGTTATTGGTCCCACCCCCACTTTTTTTTTTTTTTTTTTTTGAAACAAGGTCTCTCACTGAACC
TGGACCAATTTGCCAAGAGTACCAAATCAAGCCATAAGCAGTCTCCTGTTTCCGCATCCCCAGCCCTAGGATCAAAGGCATGTGCTACTAACAC
CTGGGCTTATAGATGGATGCTGCAGATGTAGAACTCAGGTCCTTTTGCTTAGTGCAGCAGACACATTACAGACAAATCTGTCTCCCCAGCCCTC
ATTTTGTTCATTCAAATATCATCCAAATTTATCTGTGATAGTATAAATGAGTGAGTTGCCATTCCCCTTCTCACACTAAGCCTTTGAAATTCAG
GATGAATTTCATACTAACAGTGTGCCCTTCAATAATACAGATATATTTCCGATGGAGTCTGCTGCCATCCAGGATAACACATTTGTGCAGGAAT
ATGTGCTTTGAGCCCTGTGGTGTCTAAGGTGTATCTTTCAACCCAGATCTTTGACGTGTTAGAGAGCAGTGACATGGTTGGAGTCACGCATTCT
GTTTCAGGGATTCTGAGCAGAAACGAGCCAGGAAATAGTGACCGTTCCCTGGCTAACCATTCCTCCCCAGAAGCATCAATGTTCCAGTCCCAGG
CAGCTTTCCAGACTGCCCTAATCCCTTGACATGCCTCCAATGCTAGTTCCCAGCAGTAAGCATGTAAGACACCTGCCTTCCCTTGGTAGAGTTC
CAGTGTTAATTATTAACAAACAAATCCACGGTGCACCACAGCAAGATGTCACTGTAAGGCTACCAAGTTTCCTAGAACATGTCCAAAAGGACTT
TGTTCCCACTGGGTTCCTAGTCTGAGTCCAGACCAGTGTATACACAAACAATGGGGGTGGTATTTTTATTAGAAGAACTTCAAGCTACCAATCC
TGGAGAACACACTTGGAAGCTTTCTCTAGGAAAATGTCTGTTCCTATTTGACCCTCAACCAGACAGGTGTCTGGGAAGAAGAAAATCACACTAC
CTAAGAGGGAACTGCAGTAACCATCCATCACCTCTGGCATATTTATAGATAAATTCACCTATTGTATGCAGCAACTGTAATGGAGGATAAGCTT
TCAGGAGATTTGATTTACTAATGACATAGACACAAAGGAGTGGCATTCACACACCCTGGATATTAGAGTGGAGGGGATGTGGGAACTTTGTCCC
ATTCTAGAATATGCATGAGGCCTCTGAAGTACAGACAAGGATGGAGCCCAGAGTGCAAAACTAACAAGAAGAGGGGCAGATTGCTTCCTACCCA
AGGAGAGCTGGATATCCAAAGCTCACTTCTGTAAAGCCTTTCTAGGAGTTCCTTCAAATTTTGTTTATGTGAAACAAAGCTTTTCCTAATGATG

TAATGTGGCTTTGGCCTAAGTCACATCAAAGTACTGTCATCTTAAACTAGGGGTTAATTGTCGGGTAGTTACTATCTGTATGGCCCTGGCACAC
TCGACAGCTACTCCATTTCCGCAAGTGCAGAGCCCTGTGACTCACTGGGGACGGGCATGAGCGTTCTTGCCTTACTAGGAAGATTGAATAAGCA
CAGTCAAGGTGCTTAGCCATCTATTACAGCAGCACCATAAGTCCTGCCTTTGTTCAGGTAGCATCATGGCCTGAAGACAGGTCCAGGTAGGGTC
ATTCTCCCAGGCAGAGACAATATCCAGGTGTCTATGTAATGATACGGGTACCAGGATCTTGCCAAATCTGACCATCCTAGTCCACCCAGACTGT
TGGTATGGTTTTATCTTCTAACTTAAAACAAATGCTCTTTTGGAGGAAAAACTTTTAATTAGCTGATAATCTGATGATTATCAGGACTTCAATG
TCATCACCAGCACTAAAAGACCAAAGTCTTATGAGCAAGGGCATACAAACATACATGTCTTAGGACTCAGTCCATATAGTCAGATGGCCAGTTG
TTATCTAGATTTTAACACTCTTGGCTTACTTGTCTATTACAAATACTATGGAATTCAGGTCATTTGGAGACTGCCATCTTTCAGTTCAGAAAAA
TTATTTTGAAAATCCTTCAGTTCAGAAGAAATTGAGGTTCTTCAAAACCCATGTTTCTTGCTGTTTGCAGCCACTAATTATTCCATAACCCTGA
GGTTGCAACACTGTTCAGTAATGGGCTGTGAACCTAAAACAAAGTTATCATATGCTAATATGAATGTCTATGGCCAATCCCAGGCCAAGTAATC
CACTTATTCCCTGTGGCTTTTCCTCCAATATCAATGCAAGAGGAGTAGGGAACACACCTGCATCCTGAAGACCCTGTTTGCTATGGCCTGGAGC
TCCTTGGACCTGGTGAAATTAAATGAAAACAATATGATGATCCTCTAGAGGGAGACCTGGGTCTGAAATCAGGATGCTCTCTGGTCATAGGA
GGCATGGTGTGGGCTTGTAAGCTTGAGTAGAGGACATGAAGCTTAAGACCAGGGCCTTTTATTACAAGCCTTTTATTGGTGATGTACCTCTAAC
AAGGTACATTTGGCAACTAAAAGTGTGTCCAGGGAAAAGCTGCTAAGAATCAGACTGAGGAGCCTAGAAACTCTGAGGAGAAGTTAGGGTGCTT
CCCCCAGAGAAACTGGATGCCAATCTATTGTTTGAAAGCCAGTCCTATAGAACAGGTCTTCTTTGTTCCAAATAATAAAAACAGGAGCTAGGTC
AAGGAAACTGTTGCAAGTTATTCTCTTACTTCTACACGCATCATGCATGCTGTCACACACACACACACACACACACACACACACACATATATAT
ATATATATATATATATATATATATATATATATATATATATATATATATGCACACACATGCATACACATACAAATGTGTATGTGCATGCACATGTAC
AAACAAATGAATAAATAGGCAAATAATTGTAAAGAAAATAGTTGAAGTCAGAGCAGTGAATTGAATGAAGATTCCAAGACAGAGACCCTGGGTC
CTTTAAGCTGCCTGCTCTCTAAGGTGATGCTTTTCTTGGCATATGATGGAGAACAGGGGTACCAGCCATGGAATTGATGGGGCACTAAAGAGCC
TGTTAGAGAGATGCTAAGAGGCTCATTTGTGGATTTTAAGTGATGAACAAACAAAGTGGGTTTATGGTTTTGGTGTTCTGCAAACTGTGATTTT
CGACTTAGGCCATCCCACATATTAAAAATAAAACTAAAAATAAAATCAGGCTCCATGGGCTTTACCCATCCCATCTTAGCATGTCTGTTATTGT
TGTCCTTGCTCCATTCACGTTTAGCCAGGCATGTTGGTGAGCCTTTAAGTACAACTTCTGAAATTACTAGCAAGCACAATCTCACAGCAAACTC
CCTGATCCTCTGCCTCTGACAATCTTTCTGCCTCTCTTCCACAATGATCCCTGAGCCTTGGGTATAGGAGTGGTCTTGTAGATTGGGACTGGGA
TCCTCCATCCATTTGGATTGGTTGTGGTTTGCTGGGAGGGTTTCACTGTCTGTTGCATAGAAAGGTTTCTTCAATGAGGGGAAAACTCAGGGGT
GAGCACGACACTTCTCTGTGAGTGTAAGGACTCTAGTTAGGAACTATGCCAGCTTAGCAAAGTGCTGCTTGCAGTTTCTCCATGACGTCACTGG
CCCTTCCTAGTTGGCTGGGTTCCCAATACCAGGTGTGATTTTCCTCTTGTCAAGTGGGTCTTAGGTCCAATTAGAGAACTGTTGGTTACTACTA
AGGTATGTGTGCCAGTACTACTGAACCCTTTGTATTACCATGACATATTGGTTATAATGATAACCATATGTGTTATATGTGTGTAATATACATG
CAATATATATGCTATTTATGTGTAGTATATATATATATTTATGTGTATTATATATATATTTATGTGTTTCACATATATGTATGTGTGAGTGTAT
GTGTGTGTGTATGTGTGTGTGTTCCAGTTCATGGCTGTCATAGACCTACTGGCTGCTTCTCTCCTTTGGAAGCTTGCATGGTGCATTCTCTA
ACCATGAAATCTAATCCTCAAGGAACAGGCTTTCAGGTCAATTCCCGTTTGGGAGCCTCTGTCACTGCGTCTGAACTACTTGGTGTCTTCAGCA
TTAAGAACAGAATGCTAGGAAGGTGTGTTGTAAGTAGTTTGTGGTATTTTGTTTTGTTTTGTTTTGTTTTGTTGCTAAGCCAATGGGTCACAAT
AAGCAGAATGGTGATGTGGCTAAGAACATGGGCTGTGGAGGCTAAGGCCATAAGGTTCAAATGCCAAGTCTTCTCTTATTGGAGTCTGAGAATG
TGGGGCAGTTACATAATTTACTTATGACTGTGCTTTGGTGTGGAGATAGAAATGATAATGTTTGCCCCTGCTGTTATCACTAGGTTTTAATCAC
AACTATCTTTGACTCACAATGAACACTCAGTACATGCTGGAAATGATTCTCATAGAAGGAATATTACCTTTTATTTCTTAAGCCAATGTGAGAA
CTTAAAAGGCACCAGCTTGCAAACACAGAGACTATGTCTCTTTTGCATTGTGTTCTAATGAAAGGAAAATTAAATGCACATACATTTTTATTAT
AATTAGGACACAGTTCAAAAGTGATAAGCCCTGTTGGTCTAGGGAATGACTACTCCTATGACATAAAGGAAAATGAAATCAAGTCCAGTATAGA
TTTTTGGCCATGAAGCTCAGAGAGTAAGTAAGATTTCTGGAATTCCTATCATTCTATGTGGCTCTATGGCTTATTCCCCAAGAGAGGCAAACAA
TTAAGGCCCTGTGCAGAGGTGCTTCCACCCTGGTGTACACAGTGAAGTAGTAACAGCTGATGGACGACCTCATTAGCCCTCCCCTAAGCCTTTC
TGTCTCATCATGAGTCTCAGCTATGTGACCACGGGAAACAGGAGAGAAAAAGATACAATGGGGACCACGTGTCTCTCCTTAAGTACTGCTTATG
ATATTGAGGTTGGGGGTCTCTGAGCCATTTATTCCTCCTCTGGTTCTTTGGACCACTTGGGCATTGGACTCTACACCCCTGGCAGATCAAGGCA
CATTCTGTGGCTCTTGGGAGCCTTCCTGATCCTATATGGAATGACTTAGATCAATGGGAGGACAGCAGACTCCTGCAGTCAGTCAAAGTGG
TTTCCACTCCTAGGAGGAACACACCAGTTTGTTTCTGTGTGAAATACAGAAATATGACAGCTTTGTCGCAACGCTAAGCAAACCATTGTGTGGC
AGAACAAGCTTCTTTTTCACGTCAGAGGTTGACACACTGGCCCCACAGACAACACCAACTGTTCCCTTTGGAAACAGAATGGTGGCAAGAATGA
GCAGTTATGTGGACATCATCATTCTGGATCATCTCTAAGATCAACATTATTTTAGAATGCTGACAATGATATGTTTTGTGGGCATGCTCCAGGG
GAGGATTCAGTACATGGAAAATACATGCTAATCATCCACACATAACTGAGGGAATCATAAAGAGTGGATGATGCCCTGAGGGAATGTGTATTAT
TTACAGAGATATCTCCATGTCAAGACCCAATGCATCAGATCCATGGGAAATCGGCAAAGCCTTCTCTGGTCTGAGTATGACTGTTGACAGTGTG
TGCAAGCACGGGTGTTCACTAACAATTTACCAGTTTGTGCAAAAGCTAGCAACTGCAGCTTCCTCCCTGCAGGTGTGTACTGCCTGAGATAGCT
CAACCTTCTTTGGAGACTAGCTAACCAACCCCCTGTCTCGTAGATAACAAAACCCCTTACGTTTCAGACTGCCTCAGTAACTGATCTCCTCCAT
GCAAAGAAGCATAGCCCATCCAAACGCAGCTACACGTGTCTGTGTCTGTCCTTTCTTCATTCCCTCACTGCTCAGTCAGGTCACCTCCAAGCTG
CACATGGAACACAGAACATCCCCATCACCTTGGGCCCAAGCGTCTGGCATATGCTTCCAATCTTCAAGTTTTGAGTGGAGAGAAAATGTGGGCT
GGAATCTACAAATGTGAGCTGGAAGCCATTCCTCATGATAACCCTCGCTCTTTCTTGCCTTTTTCTTTTCTGTGTTTTTTTTCTTCATTTATTG
CTTATGACACTAGCAACGCAACCTATTGGAATAAAAATGTGTGCTTCCCAGAACATTGTCTAACTTACTTCTCAAAGAAAGGGACCATTTCTGT
TGATAGTAAGACTTGGCTTGAAAGGGCCAGTTAACCCTGGCCCCAGTTTGTCTTGATCAACATCTCTAAGGCGTCCTATATTTGATCTAGCACC
TACAGAAAGAGTAGCTACGCTCAGAAGAAAAAAATATCTCTACAAAAGATTCACTTGTATGAAATATTTTATACACTAATCTAGCTGAATCGGT
CTCTTTCTGGTAGAAAATACAGTATCCAAATATATAGGGAGTAATTATGATAGGTAAGCCTGATAAAGAAGACCTCAGATCATGTGTGACCAGA
TAAGCCTAGCAATTGTCTGAAGACTTCAAACTACCCCTTAGGACTACTGAAAGGATGCCTGAAGAAAAACATCTAGAAACAAGTTTTGTGTGGA
CCAAACAAGGAGCAACAGAGAATTTTTGCACACAGGGAGTCTATGTAACTGCCCCAGTCATTTCTCCTAAATCTTTTTCTGCTAGAAAGACCTT
TGGTCTGGTCCCACTCATCATTTTAAAAAGACTTACAGGATTGAAATGATTTTAGCCTCTTCTTTCTTCCTTCTTTACAGAAATGAGTTCTGAG
ACGAGAAGACTTGGGTGGTTAAGTCTGATGCTGTTAAATATATCAGGGGTTGAAAAGGGCTTAGAAGTGTAACATTCAGCTGGGCATGGTGGCA
CACGCCTTTAATCCCAGCACTCCGGGGGGCAGAAGCAGGCAGATTTCTGAGTTCGAGGCCAGCCTGGTCTACAAAGTGAGTTCTAGGACAGCCA
GGGCTATACAGAGAAACCCTGTCTCGAAAAACCAAAAAGAACCCAAACAAACAAACAAACAAAAATGTAACATTCTGATTGATGGCATGT
CCCTTGAAATGTTTCTGAGCTTTACTATGCATTAAATAACTTGAAATGAATGCAAGCATGCACAGTGCTTCTTTCTGTCTTACTGAATTTAAGG
ATGCCAAACAATTCTCTCATTTTTCCTTTGCTGGAAGGTGTGGCTCACCATTCTATTAGACAAAATTGTAGCTGACCTCTAATACCTAATTAGT
GCAAAACAATGCTACAATTATTGGGCATGACTTTGACACGTTTTGGCTGCTAATGCAACCACTCCTAGTTAAATAGATTGGCAATGAAGTTTCA
ATGCAAACTTTGTCAATGAGGCCAGCCTACTACTAGATATCCAACCATATAGACAGGTAATGGCTGAACAGATCTTCATTCCTACAAAACCTCA
AGAATTATCCATTTTGCAACTTAAGTATATGCTGTTCATTACTTTTGTACAAGCTTGCTCTCTCTCTCTCCCTCCACCCCCCCCCTCTCTCTCT
CTCTCTCTCTCTCGTGTGTGTGTGTGTGTGTGTGTGTTTTAATGGCTTACGAATCCACATAGGATTCTTGTACATATTCATTTTGGTTATTT
ATTCCCCCTTAATTAATCCCCCTTCATCTCCCTGCCCTGCTGGACCTAACCCTCTTCTTTGCTATATTCTCTTACCCACTGTCC
TTCTTTTACATCTTTATTTCAATCATGTGGACCCGTTTCTCATTACCTAGGCTTTATCCATACTCACTTCTACTTAGAGACACATGTTTAACAG
TGAAAGGATAAGATTGCCATCTGAAAAAGGGTGTGGGGATATGGCGTGTTTATTTTTCTGAGTCTAATTTCTTGAGTTCTTTGTATATATTGGA
CATTAGCCCTCTATCAGATGTAGGATTGGTAACAATCTTTTCCCAATCTGTTGGTTGTCATTTTGTCCTATGACAGTGTCCTTTGCCTTACAGA
AGCTTTGCAATTTTATGAAGTCCTGTTTTGTCAATTATTGATCTTAGAGCATAAGGCATTTATGTGCATGTGTTTGTGTGTATGTGTTTGGAAGC
AATGCTTCTCCCATTTCTTGGAGACTTTTTTTTTTTTTTGGAGAGCAGTTGCCTAGATGTTCATCAGCAGGTGAATAGAAAATGTGGTGCATAC
CTACAGTAGGATTTATTCAACAATAAAGATAAGCAAAATTACAAATTTTATAGGAAAATTGATGGAACATCTCTCTCTGTCTCTGTCTCTCTCT

CTCTCTCCCTGGTGGTGGGCATATAAAATGCAGTAGCCACTTCAGAAAACGGTCTGACAGACATCACTCAAGAGCCTCAGACAAAAGGTTGTCA
TGTGAGCAAGGGAGTCCACTATTGCCTATATATTTCTCTACGTTGGTAACAGATATAGTATGTAAAAGTGTTTGTAGCAGTACTATAACACTAT
GCATAGGTAAAAAACAGCTCAATGTCTATCAACAAATAAGGAAAAAAAATGTGCTAAGTAATATGATGGAATAGTACTCAACTGCAGAAAAGAA
TGAAGTAGATGACATAGTGATGCAGTGTAGAACACAGATAAGGATCAACAGTATTATGCTAGGCTAAAAGTCACTTATTTGTTGTCTATAGGAT
AGAACCTGAATAGGTAAATCCAAAGAGAGAAATGCTAGAGTAGTGTTTCCAGGGGCTGAGAGAAGACTAAACTGAGTGTAGATGGATTATATGT
CTTCTGCTGCTGCTCCTTCCATGTCTGGCTGACGACAGATGTTTTGACAATGGATGAGAAGCTGATGAATAATTTTTTTAAAAAAAATACTGAAC
TTTACGTTTTAAAAGGGTAACTGTTATATGAGTACTCTCAATTTTAAAGGAAAAAAAGCAATGTTTAAAAGTGGGCCAATGTTGGAAGTCAACT
GTGAGAAGTTAAGAGCAGATTCACAAATAAGCACTGGAATTGGGCCTTGATTTGGGGGAATATTAAGAATATAACTAGAAGACGTTGTAAGAAA
AGTTTGGATGAGTCAGAAAATAGGGAGACCGGCTAGAGAGATGTCTCAGTGTTTAAGAGCACTGATTGTTCTTCCAAAGGTCCTGAGTTCAAGG
TCCCAGCAACCACATGGTGCCTCACGACCATCTGTAATGAGAACCAATGCCCTCTTCTGGTGTTTCTGAAAAGAGTGACAGTGTACTTGCATAA
AATAAATAAATAAATAAATCTATTTAAGAAAATAGGGGGACAATTGTGTGTTAGCAAAATACAGTAGAGACTAGACTAAGGTTCATTAAAACAC
AGGCCAATAAAGATGAGGCCACATGTATGTGTTCAGGACACATATACTGTAATACGTAAAATACATTAAAAAGTTCAGACTTCTTCAGGCTCGT
GAAAAACACACTGTGAATGCTTTAACCCTCATTGTCTGATCGTAACCCATTCCTAGTCATCTCCCTTTCCTTTCCAGCTAGTTTGCATCTTACG
TCCGCGTGTGTACATGTGCAGCTTCTATATAGGCCGCCACAGCTGATTCCTGTTTGTCCTTTTCCCAATTTTTTATTTGGTATTTTCTTCATTT
ACATTTCAAATACTATCCCGAAAGTCCCCTGTACCCTTCCCTCCCCCTCCTCTACCCATCTACTCCCACTTCTTGGCCCTGGTGTTCACCTGTA
CTGGGGCATATAAAGTTTGCAAGACCAAGGGGCCTCTCTTCCCAATGATGGCCAACTAGGCCATCTTCTGCTGCATATGCAGCTAGTACTTGGA
TGGAAGGCCACAACTGACTCTTAAAGACTGTATGTAACACCAAATATTAGAGCAATTGTCTTCACTTAGTAGCATTTCTGAGGGTTTAAGTCCC
TTTCATTTGGATTCTCAGTTTCCATGTGCAATGAATTTTTTTACAGGTGAGCAAGAAAAGTATGGAAGGAAGCCTAAGAAAGGCCGCAATGAGA
CTTTAAAAAATGATGCCAATTTTAGAACGCATCTTCTCTTTCAGACTTGGAAAATTAACTTTTATTACTGCCCTATGCAAACTAAATTTAAAAT
AAGCTTTGGATTATACCCCGTGCGTATGAGCGGACGTTATGACATTGATTGACAACGTCAGATCTACCCTCAACCCTCTGAGAGTATGATTCAC
ACATACCTGGGATCAGAAAAGAAGTGTTTTCCAGACTAGGCAAGTCACTAGAGCTCTGGTGGTACTCAGGGTAGATTTCTTCCCCATAATTCCT
AGCTAAAGATGAAAGATACAGACAAATGACCCATCCTAGGAGAATTTACAAGGGTAGTGGTAAGCAGGTAGGTTTCAGAACAGCTCATGAAACA
ATTCTGCAGCAGGAGTCAAGGAGTCCCAAAGAAGTGGCCTATATGGGACAGCAAGGAGAGACTCAAAAAAAAAAAAAAAAGGAGGAAAAAAAAC
CCTATGTGGGGCTCAGCAGTGAAGAGCACTGAGTGCTCTTTCAGAGATCCTGAGTTCAATTCCCAGCAACCACATGGTGGCTCACAACCATCTG
TAATGAGATCTGATGCCCTCTTCTGGTGTGTCTGAAGACAGCTACAGTATACTCATATACATAAATCTTTTAAAAAAAAAGTCCTATGTAAAAG
GCATAATGGTAGATGTTGCAAGAAAGCAGTGTGTGTATTGGTATCTGGCAGGAGGCTCAGGAATGTTCACATCACAGTCGTTAGGAAAGGAAAG
CAAGGGACCCCTTATTGTAGGATATATGGACAATTTAATCATGGGGTTTTTTTCCCCCAATAATAAAATTTTCAGCAGGAAAAAAAATAACAG
TAAACAGTAAGCTACGTGTAACATAAGGATGAAAGATTTCAAAACCCGTCTTTTACAAAATGCACAGCAACAGCTTCTTTTGTGACAGCATCAT
CAGTCCCCGTGGTTTGCAGCCGGATGTAACAAGCCCTTTTGAAGAGCTAAGAGGGCAGAAAGTTTCTGTTGCCAAATATATAAGAGAAGCAGGA
AGCACTTAGCCTCGGACCAGGAAGGGCATCCTTGCAGGAGACCCTGCAGGTCTGTGCAGTTCATTGCCCAATGCTTCCCTTAAATAAAGAGCCA
CAGACTTCAGGAGTGTGTTCCCCCCTGAGTGATTCTGCAAGAGTTGTTTGCCCTCCAGCACTGGGCTGTGCTGAAAGAGTTTAGTTTCCCAGGG
AACAAGATCTGGGTCTAAGGCAAGGCAAGCAGCATCCTATGCCCAAACCAGTAACTCCGTTTTCTCAGCCTGCCAATCACATTGGAGCTTCCAG
ACCATCANNNNNNNNNNNNNNNNNNNNGCCTCAAGTCTCCAGTCCCCATCATGATAGTGAGACCCAGAGGAAAGGGAACACCTGTTGCCACCAT
TTTGAAGGGACAGTGGTGACCCATAAAGAGGGTGCTCTAAAGGAGACAGGACAATTCAAGGACTTGGACTGAAAGATTCAAACTGACAGTGGTGAG
CAACTGTCAGGTTCTAGGACCAGTTTAATCCTGACTGGGCAGAGGATAGGGGCCATCCACACAACCCCTGGAGGGAGCGTTCTATAGAACCGGC
TGCCTTGGTCAGCTTAGGGCAACCAGCATTAAGGCAGCAGGAGGAGGGATATAACCCAGGCTCACCTCTCCCAACCCCTACACAGGGTTCCTTC
CTGCCAAGGCTCTCTACACCTTTAGTTTACAGTGGAAATCAGAAGGCAGTAGGACTCAGGTGCAGACCATATAATTCAGAACAGGAAACAGGAA
ATGTGGAAGAAGGAGGGCTAAGGGAGAGCACAAACATTGGCCAGCTGCAGCCCGGCCCCAATTGGGACTGCAGACTTGGGTAGATGGATGGTT
GCCACATCCTGCTCTGAGCCTTTTGAGTGACTCTGAGATAGAGCGCCTCTGTGGAGTTCCACAGAGCAGGCACACAGGCTGAAATCATGAGGTT
TGTATTTTACCTCCTTGCCGGTTTGCAAGTCTTGAAAGCTCACTCCTCTAAGCTGATGGCAGCCCTCATGCAAAGCAATCTGATTGCTGTGTCT
GGGGTTCAATACACACACACACACACACACACACACACACACTCAGGTGCACGTGCATACACACAAAGACAGAACAGTTTGCTTGCAA
CATTGTCATAGCTTAGTGAACAGTATAGCATTGTTCTGGCTCAAGAAGCCCTGGTTCTTCAAAGCTCCTACTTAGATGAAATTATTTGCATCAC
AAACAAAAATTGTTTTGCATTTTTTAGATAATGAAGGATCGTTTAAATATATAAATTAAGGGCTATTTAGAAAAAATAGGTGTCTTTGTGAGAC
TGGCTTAATTCACTTACCATGATCATATTCAGTTATGGTCATTTTAAATACAAATCATGTGTGTTCCAATGACGTGAGATTACAGTGAACTATC
TAGGGAAACTAACAGGAGTGGAGTAGGGACAGGAGAGGAAGAGAAACGATGGGTGATGGGCACATATGCTCAAAACCATAATGTACTGGGGCTG
GAGAGATAGCTCAGCGGTTAAGAGCACTGACTGCTCTTCCAGAGGTTCTGAGTTCAATTCCCAGCAAACACATGGTGGCCCACAACCATCTGTA
ATGGGATCGGATGCCCGCTTCTGGTGTGTCTGAAGACAGTGACAGTGTACTCACATACATAAAATAAATGCATCTTTTTTTAAAAAATCATTAT
ATACTTGCATGGAAATGACCCTATGTAACCGAGTTTCATTTAGTTGTTTTTCAATTGTTAGAGAAAGACTAAATTTTCTCTAAGATAGCCATAT
GAAGACAGTTGATCACTCTATGTCCCAGAAGCCCATCTGGAACTTAGCATTTTGAGCAAACCATAAATTTGATGAAATACCTCCTATTCAAGGC
GGCAAGCATTCATTTGCCTCACATTTCTAAGTCTGCCCCTGTGACTGCCTTAGCTCCTTCTTCCCAAATTCTCCAGTTACCTGGCCCTTAGGGG
TGGTAGCGAAATCTCCTTCCTGACAGCTTCCTTGGCCAGGTGCTTCTGTGTGGAGTCAGTGCCCAGGCCGCCAGCTGTTCAAGTGTTTGGGCAT
ATGCACACACAGGAACGACTTGGGCAACACCCTTTGCCTTGTTTCGGGATGTTCTTCTTGCAGACCCTTGCCCAGACATAGGGAGTGCCTGTGA
AGTGCTCCAGAATAAATCGGAATGTCCCACTGAAGCCAGACACCGTGGTCTTCATGTTAATGTGTAAGTAGAGTAGTGATCATTTATTTATTCT
TTGATTCCCTTTTGCAGAGTTTTTATTGCCCTGTCTGAGATATTGGAGTTTTCTGCTACAGTAAATTTAGCAGGATTTCTCCAAGGTGACTTTA
GCGCCAGTGAAGGACTTATTGTGCCTCTTCAAGTGGTTCTATCACTCTGCTTGTGCTAGGGGTAAAATGAGGTGCCAGGTGGATTCAGGACAAG
CAGACACAAGCAAGCTAGGAAACCTGGCACTCGATCCCCTCTGCGGTGCTTAGGCAAGCCTTCTCGGCTACTGAATTTTGAACTTTCACAAGAA
CAGATCGGCTGTTTGTTCAATGGTTTATTACTCCTGCCACAACAACGCATGGCATGAGGTTGGCGCGGCCTGTTTATTTCTTTGTGTATATGGA
TATGTGTTTGTGGGTGTACATGAATGGGTGGTATGTGTACACACGTGTGCATGGGGAGACATGCCCAGGGCTATTTAAATCTTCTGCCCTTTTC
CTTCACTTCCCTCCTGTTCCTTCTTAAGAACAAGCATTGCTTCACCTTTTCACTTAAATTTCTCCTCTAGAAAAAACTGTTATCATTCAACTCA
ACATGTTTTCCACTGAAACTTCTTCCATATTAATTTTTAGGTTTTCATGTTCTCGTTTTATTCGTACTTATTGGCCGCTATTTTCAAATTAATA
GAGTCCAATGTCATATTTCTGTATATTGCATCCCTGTTGCCCATCTATGCTTCTCCTCCAGACTATTTCTTCCTGTGCTTATTCGCTTAGTGAA
AGTACATTGCCAGGCTAGAAAGGTGGTTTGTTGGCTAACAGTGTTCTCTGCACAAGCCTGGGAACCCGAGCTTGGTTCCTCATATCCAAGAAAG
GAGAAAAGCAACTCTGAAAGTTGTCCTCTAACTTTTTCATGTGCACCGTAGCCCATGTGCACCCACACCCACAAATACACACCACACACACATA
CACAAAATAATAATAATAATAATTTTAAATATATCAACTGACTTACAAACATTTGTTTTTTTTTCCCGATGACATTTGTGATGTTAACGCATAA
TTTGATTCTAATTTAGTTGTAAGCATATTCTATTTTGACTCTTTGAAGTTTTTTGAAATTCAGTATCTAGCTGTGGTGGTGAGCTTTCCACATC
AACTTATCATAACCAAGAATCACTGGGAAAGAATATTTCAGTTGGAAAAATTATTTGGATCAGAGTGATCTGTGGTCAGGTCCACGAGAAAATG
TCTTGGTTGCTAATTGGTGTTGGGGGACTCACTGTGAGTAGCACCATTCACTCATCAGGGGACAGTGAGCTGTCCAAGGCAAGAGAAAACGAGA
AGACCTCAAGCAAGCAGGCCGCATGGCTATTTGTTCATGCCTGCTTGTGACTGTAGACATTATGTGATGAGCTGCCTTGAGAGTCTGCTTCAGT
TTCTCCTCAGTGACAGACGGTAACCTGGAATTGTAAGACAATAAACTCTTTCCTCCCATAAGCTGCTGCTTCTTGGATGCTTTCTTGCTACAAC
AGAAATTAAACCAAGGCATCAGCTTATATTCTGCCTGAGTGCGTATCCCAGGTGCCCAGAAGTGTTGGCTGTTGTACTCTGCACATTTCAATGG
AGTATCAGTCAGGTTATGATGTCCTTCCTAATTTTTTAGCAAATGTGGTTTATTTTATTTTTTTCAATTTTTATTATTAACTTTTATTAATTAT
TCCATTCATTTACCTCTCAAATGATATCCCCCTTCTTGGTTACCCCTCCCCAGCCCCATCCACCTTCTGTTTATTTTAATTAATTAATTA
ATTAATTAACCAGTACAGAAAAAGTCCACTGAAAAATCCATGTCCTGGGCCCCAAAATACAAATAAAATCAAAAGGAGTAGAGTCCTGCTGCTC

ACATTTCTTCGTGAGTAGTTATAACTTCCCTGAGATTTTTTTATACCAGGGTTTGTTTCCTCCTGGTTTCTCCTCAGTGACGTCATCCTGAGGT
TAGTGGTTACTGTCACTGTCTCTATCCTCATCTTGACTCCATAATATTCTTCCTCTTTCGATCCAGACCCTCAGGGTTTAAGAGTAGCTTCAAG
CTGAGAAAAGGTCAATTTTCTCCAAAAAAGCTTCCATCTCCCACTGAAAATGGCCATCTCAGAGTGAAGTACACTCATTCTGAAATGTCAGGGC
CAATTGGATGGTCATCAGAAAGCTTGGCCTGGTTGATATCTTTATCAGCACAAACCTGAAAATGCACAGTCCTCCAAAGGGCGGCCTCTTTGTG
CTCATCCGAAAGTGATGGAAGGAAGGCAATACAAAAGGGGCTGAACTCTGGTCACCAGAAGTCAGAAACCATGCAAACAACCAGTAATGAATAG
TGAATTCTAGAATTCAAATTAGCAGATGTTTTAAAGAGACAAGCTTTCAATTTTCATTTTAAACATGAGCAAAACCTGTGTTCTGAAAGAAAAG
ATTTAGAGAAGAGAAAAAGCAAAAAGAATATCTAACATATTGCATGACCCACCACTCCCACAATGTGCTCCTGGTAAACTTGAATCACATCTTT
TCTCCATCCCGATAATTCTCTAACTCTCAAGGAGAGGCCTGAGTTAACTCTCTGAAATTCCATATCTTAGGCACTGGATCTTCGTGATTATCAG
GATGTGCTGTCTTTATCACTTTGAAGTGAAGACAACTGCTGTCCTGATCAATGACTTTGAATTTAACTTATTCTTTTTCCGTCTTGCTCCCTAA
AGCCTTTGGTGGACAGTTTTGTTCCTTGGTTCTTGGGCTTCCCCTTCCTAAGAGTTTTGTTTGCATGTCTATTCAGATGCTAAAATATTGTGTT
AACATCCATGGTGATTATTTTAATGTTTGTTCTTTCAGTTTGGGCAGTTTGGCATTTGGGAATTATACGTACTTTGACACTATTAAATTAGATG
AATATAGAATTGTATCCTTATGATGAATAAACCTTTTATAATTACTAAACTCATGGTTTATAAATAACAAAACTCCCTGCATCTTTTGTCTTTA
TCTGATATTAGGTGTAGCTGCATCAGCTTTCTTTTGGCTAATGTTTTGATGGTGATATCTTTTTGTATTGCTTTATTTTCAGTCTCCTACTTTC
TTTTGGATTATTTAATCCATTTACAGTTAATGTACTTACTGGATTTTAAATTTTACATCTCCCTCTCACAATTTCTTTTACTTCTATAACTTAT
ATTCTTTTATATTCTTCTTGACTTTTTAAAAATGTTAATCAATGCCAATGTTTTACTATTCTCTTTGTTCTATTTACTGTCCCGTTAATACTGT
CTACTGTGATTCTCCAAGTCATTACCCAAGGATTATATGTTCTTTCTTTGACCTGTTACAGTTTACTTTAAGTTAGTCTTTCTTTTATTTTGTA
TCCACCCTGGGAATTCCTCCTGGGGAATGATGTTATGCTAGGGTACAAGCTACCATTGAGTCACCACCCTACCCTGTTAATTATAATGAATAAT
GTAACTAACTAGCTTGCAACAGCTTAATGTCATTGCAAATATTTCTCAGCTTTCCATTATTATTATTATATACTTTCATATATATATATATATA
TATATGTTACAAGATTGTTAAAGTTACAAGATATTGTTGTATTAAATGATCAATGAATGTTAAAATTTACCAAATATTTACTCTGGTTTTTTTT
TCTTATTTTATTTATTATGTGAGTAAATTGTAGCTGTGTTCAGACACACCTAAAGAGGATAGCAGATTTTATTACAGATGGCTGTGAGCCACCATGT
GATTACTGGGAATTGAACTGAGGACTTCTGGCACAGCAGTCAGTGCTCTTAACCACTGAGCCATCTCTCCAGCCCTACTCTGATTATTTTTATT
CCTTCTGGTGTTAGTATCATCCTTCTGTGATCATGCTTTTTACTTTTTTATTTTTCATTTAGAATCATGTTTTCTGAGTTTTGGTAATGGCACT
CCACTGTGGGAATGTGAAATTTGGGTCATTGCCATCTAAAACTCAGTCACTTTGGCAGCATGGCTCAGTTGAATGGCCTCAAATCCCAGGACAC
TTATTTCATTATGTATCTGTCTCTGCTCCAACAATTGTCCAGAGATACTGACCAGTAACAAATCTCCCAAGACAAAAAAGAAGAAAAAACCAC
CCAGGCCATTATCAAAATCACCTCACTTCATTGTTTTTTTCCTCCAGGATCTTAACTGCTCAGATCAAATGGACCATTTAAAGAGCTAGAAATG
ATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATGATAATAGGTAGATAGATGATAGGTATAGATAGATAAAAG
ATTAATATTTGATAGATAAATAGATAAAAGATAGGTAGGTAGGTAGAGAGGTAGATAGATGATAGGTAGGTAGGTAGGTAGGTAGATAGATAGA
TAGATAGATAGATAGATAGATGATAGGTAGGTAGAGAGATAGATAGATAGGTAGGTAGATAGATAGGTAGATAGATAGA
TAGATAGATAGATAGATAGATAGATAGAAGTAGTTGGTGGTAGCAGTGATGATAAGAAGATAAAAAAGCAACTTTATGTTGCCTTAGAAGTAGAATTT
GTCTTCCCATATAAAACTATATACAACACTGAATCTATTATAAAACATCCTTGAACATTATGTCATGTGGACAGACAATACTCTGTATACACAA
AAGGCAATACATTCTTTATCATCTATTTAATGGTCAGTATTAGTAACCAAGTTTAATCACAACCTTCTAGATAATACTACTGAGATGCCAATGA
CTGCTTTCAATATATAAGCCTGAATTATGAACGCTCTATAATGCAGCCATTACTTTTTGAAATTTTTAATATTTTTATTGGATATTTTCTTTAT
TTATATTTCAAATGTTTTCCCCTTTCCAGGTCTCCCCTTTGGAAACTCCCTATCCTACCCTCCCTCCCCCTGCCTCTATGAGGGTGCTCCTCCA
CCCACCTACCCACATACCGACTCCAACCTTCCCATCCTGGTATTCCCTTACACTGGGGCATGGAAGACTCTCAGGCCCAAGAAGGGCCTCTGCC
ACATATGCGACTGGAGCAATGGGTCACTCCATGTGTACTCTTTGGTTGGTGGTCCAGTCCCAGGGAGCTCCAGGGGTTCTGGCCAGTTGACCCT
GCTGCCCCCCCCCACTCCACGGGGTTGCAAACCCCCCCCCCCCCTCAGCTCCTTCAGTCCCTTCTCCAACTCCTCCATCTGGGACACTGCACTCA
GTCCAATTATTGACTGTGAGCATCCGCCTCTATATTTGTCAGGGTCTGGCAGAGCCTCTCAGGAGACATATCAGGCTCCTATCAGCAAGCACTT
CTTGGCTTCGGCAATAGTGACTGGGTTTGGTGGCTGCATATGGGATGGAGCCCCAGGTGGGGCAGTCTCTGGATGGCCTTTCCTTCAATCTCTG
CTCCACCCTTTGTCTCCAAATTTCCTCCGGTAATTTGTTCTCCCTTCTAAGAAGCACTGAAGCATCCACACTTTGATTTTCCTTCTTGGGCTTC
ATATGGTCTGTTCATTTTACCTTGGGTATTCCAAACTTTTGGGCTAATATCCACTTATCAATGAGTACACACTATGTGTGTTCTTTTGTGGCTG
AGTTACCTTACTCAGGATGATATTTTCAAATTCCATCAATTTGCCTGGGAATTTCATGAAGTCATTGTTTTTAATAGCTAGATAATATTCTATT
GTGTAAATGTACCATATTTTCTGTATCCATTACTTTTATGTATCACAACTTGGATTTTTTTACAGGTTTAATTTAAGGATCTTTAAAAATAAGA
TGGGGTTAAGATTGCAAGCCTATAATCACATGTATCTGGGAAGCTGAAGCTAGACAGTTGGAAGTTCAAGAATTCCTGGGATACATAATTAGCT
CAAGGTCAGCCAGAGCAACTGACTGATACCTTATCTCATATAAAAAGTTAAAAAGAGGTGTGGACATGTATATCTGTGATTGAATGTTTCATAT
CCTAGGTGCACTTTCCAGTACTAAGAAAGAGAAAGAAAGAGAGAAAGAAAGAAAGAGAGAGAGAGGGAGGGAAGGATGGAGGGAGGAAGGAA
GGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAGAGAGAAGAAGAAGAAGAAGAAGAAGAAGAAGGAGGAGGAGGAGGAGGAGGAGGAG
GAGGAGGAGGAGGATGATGAGGATGATGAGGATAACAACAACAACAACAAGAACAAGAAGGAGGAGGAGAAGGAGGGGGGAAGAGGAGGNNNNN
NNNNNNNNNNNNNNNCTTATGTCTGTACATACGAAATACTAAAGCTTTATCTAATATTTTTCTTCAAGATTACAACAAGAACATTGAACACTAA
TACAGAGAACATCTGCAGTGATGTGATTTGAGGAAAATGAACCCAAAGGCTCACTTATCCAGGCACTTTGAATCACTTTCTTAACTCTGGCCAC
TTAATGAATGTGGGGAAAAGGAAAGAAGTTGAGAAAATTTGAGATAAGACTGTTGGAAAGCAATATGTTCTATAGTTATTGTCATGAATTATTT
TCCCCAAGAGTTTCTTTTATGGATATTGTCCTCATATAACCCAGGCTCATCACACAGGGCAGTTTATCCAAAGCAGAGCTAACTGTGGTTGGAA
ATTTTGCAAATATTGTAAAGTCTTGAGAAGCCTAAAACACATACAGAACAATGTGGAATTAACTTCTGTGAGGCAGGACCATAAAGCCTTGAAC
AACAATTCATATTTATTTAGAGAAACTAGGCTAAAGCAAAGCAAACAAACAAAAGAATTGACTGAGGGAAGTCCAAAGCGTATTTTGTTCCACC
TCCTACCTCAGCCTTGGTAAACAGAGCTCTAAATTTCTATTTACAATGATTACATAAATATTATATGGTGACATTTCTGACTGTGAACCACCAT
ACACTCAAGTATGTAAAGAAAGTGTACACACAGGAATCAATGTGTTCCAAGAAGATGCTTGAATAATTGTCTAACAAAATTTATCCCAGGAGAC
AGACTATGCCAAGTTATAGTACGAAAGTTATAGTATCTGCATTGTACAATAGCACAGGAGAGAGCAATGTTACTACACCCCAAGTTTTTCTTTT
ATGGTAATAATAATTTGTTCTTTAACATTTAAATCATTTATGAGTTGTAGATTCAAAGCATACATTGTGATTTCTCTTCTGTGTTCATTACAGG
ACAACACTGTCCTATTTTTGTCTCCTCTGTTGTTATTATGTTTACATAAAAATCTTTCAAGACAAAATAGTTATGTTCTACATACTCTCTTGCC
CTTAGCTTCCGTAACTTTTGCCATAAGAATTAGTCTTTTCTGCCCACACTGTAGTTATACCAACATGTGACTTTGAGTACCATAACTGAACTTG
AGGCATACTATATTTTCAAAGGGCATTATACATTTTTCAGCACAGGGTATTAGCCCATTGGGATACAGTGAAAAAAAAGTCTTTAAAAACTTGC
TACAGGTTTGAGTTGCAATGTATGCTTTGAATCTACAACTCATAAAGAATCTAAATGCTAAAGAACAAATTATTATTACCATAAAAGAAAAACT
TTTGGGGTGAAGTAATGTTGCTCTCTCCTGTGCTATTGTATAATGCAGAGAACTTGTAAGAAAGTGAGCCACTTGGTAGTTCAAGAAGGATGTT
AGAGAGAATCTTAATTATATAGCTATGTGAGTCCAGAAGTGTGTAATTAGTATATTATTCCATATGTGCTCTTGAGCTTTAATTTCAAGAACT
GTATGTTGGAATGATTTTGCCAGAGGCAAGTTAATGACTGAAGGAAGGAAGGAAGGAAGGAAGGAGGGAAGGAAGGAAGGAAGGAAGGAA
GGAAGGAAGGGGAAGAAAGGAAGATGTGACTTACTAGAAGTTGATAGTAGAATTCTCACTGGACTCTAAGAGTTTAAATTTATTACAGGTTCTT
CCTCCTAGCCTCATGCTCTTAGAAATAAGACTCAGATTCAAAATATATTTTCATATACTTTGGCCATGTGGCTAGGCTCTTCTCTGACTAAAAT
CATAACTTAAAACCAACCCATTGATTTTCATCTACATACTGCCACATACCACATGTTACTTGTGCTATGTGCCTGTCTCCTCACATCTTCCTGG
GTGGAACTCTTGTCTGGCTCTATCCCAGAATTCTTTCTCCTCCCAGATGTCCCACCTCCCATTTCCTGCCTAAGCCATAGGCCATAAGCCTTTT
AATTGACAGGTGATGCACCCATACAGTACACAAGATAGTCTCTCTACAGCTAAGTTTTGACATTGTTTCCTAATGTAGAAATTATTAGGAGCTA
ATTTCTGAAAAGTTTTAAAAAGTTATGTAGACTGTCCATTAACTAACGTTTCAGAAAATTGTACACAGAGAACTCTTATTTCCTTTTGCCTAGT
AAATTACCTCTCTACATAAGAGCGTTAAACCAGATATGTATGTCATTGATAATCACTATATTTTTTCCGCTCTTTACATCCATTCCATTAGAAA
ACTTTATGGCTTTTTGGCTCCATTTTCACCAGTCTTACTGCCTCTAATCCTAATACCTTTTTGAATGGAGAACTGTTAGATCTTACAGGCAGTT
CAAATATCCAGAAATGAGACCAAAGTGGACTATAGGATGATTTCCAGAAGTTAGATAGAAACCAGGATTCCTTAGAAATTTGTAAAGCCAGTTC

CTATTTACCAAAAGGATTCACTTCTCTTGTCCCTGGCACAACGGACATAGAGCTCCACCGACATGTGCCTGTGGTTGCATTTCAAAGCCCATGC
CATCCTCCAGGCTCCTTCAGCCCCTACTGAAATATACTTGTTACACATTTCAAAGGCTATGCCAACCTCCCCAGACATCCATCCTCCTTATACC
TATTTGTTCTCTTTTCAACATGAATGATTTTCCCCTTACCCTGGCTATTTTCCCTATACTTTCCCTCTATCTCCTGCTCTCCCTCTTTACTCTCT
CACTCTATGGGCTATTCTACATTCTCTCATAGATGCACTGGCCATGTCCAGTCTGCTTTGATTCTCTCTACTCTCTCTGATTCACAATAAAAAC
CTTCTCCTCACCTGTACCATGGAGAGGACATTTCAATTGTTTCCTTACTGTTTCCCTTGCAAAAGGAAGATCACCCCAAAATTTGGTGCCAATT
CTTCTACTAGTAAGCAATCCATAAATATTCAATTAGTGCGTATATAGACAAATGGACTTCTCCTCCAAATTAATAAAACTTAAAATATAACAAG
TTAAGAAGGCATGTAACATGAGGAGCTGTAAAGAATTCAGATAGCCTTCTTTGGTATTTTAATGGAAATCTGTGACTCAATTTACATGTGGAAG
TTCTAGTACACACATGCTTCATTTAGTTAAATACGTATACAGGTGGAAGTTACTATATCTCTTGCCCTTTGCCTTGCAAATTCCACTCAATCAA
TGCCAAGAACTGAACTAAGAAGACATGTTCACCTCTCTTTCCCTTCACGTTCAATGTGACTCAGTTGTGACCCTGAAAGGACAGTACATTCCAT
CTGTCTCACACCTGCCTGGTGTCTGGGATCCATCTCTGGGATTGACAGCATCTGTGTCCTCTGATTTCTACTCTTTAGAAAAAAAAAATCAATG
CCCACATCATATTGGTAACCTTTCAAAAAGCTCAAGAAGAGTGACAAGAAAGCAAAATTGCTCCCAGGGAGCTTCAATTGCTGGTGAAAGGCTG
ATCCAATAAGACCTCCTGGCAGAAAGCACAGACATTCCAGGTCATTCCAAATGCCTGTGACAATATGTCAGTACACTGTCTGACTGCGTGTGTA
GTAGTGACTCTTAACATGGTTATTTACTAACCACGTGTTGCCATGGAAACAAGGTAAAGCAACATGCTCTTGAGACACAGAGACTTAGCATGTT
AGAGAGGTGGTGCCTAAATCCCATTCTACAGCCAGTAGGCTGTTCACACAGGCAGACCACACCCCTCTAGGCCTCCTATTCTTCCTTGGGACAT
GAGAACCCTGTAGCCACTCATCCTCAAGACATGGTATCCGCTCTCCTCTTGTATTTGAGAAGCATAACATTCTGAGGCTAAAGGGCGGAGCCAG
CCATCTTCTTGACCGGTTGGGCTTACAATTATGTACTTGACAATCTCCAACATGTTTGAATCAGAGAGGAATACAGTAAAATTCATTCATATGA
TGCTCTGGTACTCCTGCTTATTGAAATAGAAAAAACAGACATACATACTTAGACTCTCAACGTTTGCAGGAAAAGAAGTTGAAAATATGTTCAA
GAGTTCAGATGGCTTCTTTGATTCGTGGTAAGTTTGAGTTCTATGGATTTGGGTTACTCGAACTCTGATTGGTCTCTGGAGTACATGTAGACGT
TAAGATGCTATATGCTCTGAGAGAACAGTGAGCTGAGAGGGAAGCCTATAAAGTAGTGACACTCAGATATAGAAACATTTTCATATGATAGTAG
TAATGGTGCCAGCACTTCTTCCACCAATGTCACTGACAAGCTTCTTGTTACTGGAAGGAGAAAAAGTCATCAGACCTTATGAAAAAAAGGTGCT
AGGAATACATGCGCAGGGATTTTCTTATGTGCAAGATTCACTGAGCTCTTTCTTATGACCATATAACCCATCTACATAAAAATATTATTAGGTG
CTAAATCCACAGCAACTCAAGCTTTGGAGCCTTGGAAAATTGGCTTTAGGAAAAGAGATCACCTGGCAAGCTCCATGTCTCCCTTTCTCACAGG
ATTTTTGGAATAGGATTAGGGTCAACAGTGATTTTTAAGTCTCACAAAGAAAACAAAAATCGATTTCTTGCAAAACTATCGCTGTGCAAGTTTG
GTTTTCCAGCATAGATCCGGGCTGCCAAGAATGCTGGCTCCAGCTAGGTCTTCATTAGCCAAGTCAGGGGATAGTCAGGGCATTCATCCAGGTG
ACCTGAGCCAACCCCACCCACTCAGAAAACCAAGACAAGTTTGCCTGGTAGAGCAAGGGGCCTCACTGGCTGCAGGCTGTGACTCCATGTGTCG
TGACTGACACCACAACCAGGTATGTCATGAGAAAAACTTTGACAAGCTGGATGGCAGCTCGTCGTTCCTTGGATTTCTTCCTTAACTTTGCTTT
CTGTGGCTAACAACTGCCATTGAATATAAGGTTATGTAGGAAGAATTTTAAGTATGCCTTAAGAAGTTAGGATTGTGTCCTTTTGTAAAAATGA
TAACCCTACAGAGGTCCCTTTCATAGCATTAACCTGTGGTCGTGTAAATGGGTACTCAGCCTTAGAGCCCATCTCTTTAGAAAGCAAATCATTA
TGCAATCAGACAACTTTAAAGTTGGAATGAAGTTACCACTATCTCAATTAGGAGTAAGGGGAGAGTATAGTCTGTAGGAGTTATGCGACTTTTG
AGGGTAACACAGGTAGCTGGGCATGCAACCAAGCATACAATACTGGCTGCGCTCTCATTCAACGTATCAAGAGTCTTCTCTGATATGTGACACA
AGCAAATAGAAAACTCATAGCCTCCAAAGAAAGATCTTAGATTCATCAGGTATGTTTGTATGCATATGTGTGCATGTGTGTGTGTGTGGAGA
GAGAGAGAGAGAGAGAGACAGAGAGACAGAGAGACAGAGAGACAAAGACATTGAGGCAGAAAGAGAGAGATAGATGAAGC
AGAAAGAGAGATAGAGATATAGAGACACAGAAACAGAGAGAGACAGAGAGACAAAGACAAAGGAAATAGTAATACCTTGGGTTTCTGGCTATAT
AGTCTCTCTCTCTCAATTTCTTGTCATTGTAGCCTGAAAACATCTAAAAATCACAGGAACAGGGATGACTGTGCCTCAGCAAAACTGTTAATAA
ATATAAAAATGTGAATTTACAGCAGTTTCATGTGCTATGAAAATTTATTATGTTTTGAGGGGTTCTTTTCTACAACATAAAACCCATTCTTGGC
TCTTAGTGGACCGGATTTTGCCTAGGACAATAGTTTATCTGGCATAGGGTAATAGAACCAGCCCAGGAGAGAATGAGCTGTGGACTCTGTCCTC
CACTCGGGCTCTCTGACCTTGTAGCTGACTCCACAAGCCCCCTTTTCCTTTTCAAGGGTTCTGTCACCCTACACTGTGAAATTAGTCACTGTGT
GTCTCTTCCCAAAACATTCCTTATTTCTTAAAGTCAGTATAATTACAAGGCTTGTTTAGAGCACGGTCATAAACGTCATAGTGAGGACTGGAGC
AAATGTTGCTTTGAACATAACTCTGTGACTTCAACTAGGTGGCTATGGTAAAAAAGGAAGTACTTCCGTTGCCCATAAACAACTGTCTTAAGG
AATTTGCTACATTCCTTGAGTCAGCTGGATCTCTGGACAGGCCTGGTTGTTTAGCTTACTAACAGCCAATCTTTCTTTCCGACTGGCCCTGAGT
ATGTGTGTCAGTAGGACAGAAGGCCCTCTGGGTGAGAGCAAGCAAATGAAGACCACTGTTTTAACTCAGATACAGGCGGTGGGGGTAAGTCTCA
GCCAAGACAGAAACGCTTTTCCCTCAGCTGTGGTGTGAGTGTTTCCTTTGCAAACTTTGTTGAAATGTTATTGATGTTGTGATAGTGTTGGTAG
ATTTAGTGTCTAACTGGTGGTGAACTGGGTCATGAGGTCTCTTGCCTTATGATTGTCTGCAGTGTGGAGAATGGGTAAGTTAGCATGGGAGGAG
TTCGCCAAGAAAGGGAAGGCTCTCTCTACATCCTTTCTCTGGCCCCTACCCTCTCTGTGTCACATAGGTTTACCTTCCTTTCTACACCAGATGA
CACAAAGTTTGAAAAACTTCAGAACCATTAGACAAGTAAAACTTTCCCAGTCTCCCCCAGGTTTCTATAATAGTTGATAAAATTGGCTATGAC
TTGTTTTGTTTATGTTGGTGTTGTGTTTGGCATATGTTTTGGTTCCTTGACCCTCAGACCCAAAGAGAGGTGGTTTTCTCAAGGCCAGGATA
AAGGCACAAAGACTTTGGCTCAGAGCCACCACAGAAGAACTGTGAGAGAGTCCCAGGAGCCATAATCCAGGCGTCTTCCATATATGAAGTCTCC
AAAATCAACTAATATTGCTTACACTAATATTGATACCATTCAACATGACAACTTCTTAAAATCACTGACAGTGATGCAGTGTGGGGCCTATTAA
ATATAGTTATCAAAACTTTGAGTTGCAAGTGGCAGAAACCAAATGCAAGATGAGACATATAAGGAAACGGCCACATCAGCTTTAACTTTGGAAC
CAGCCATAAGCATGCCACTGCTTACGCATCTCTTCCCTCTCTGCTTTTCTTTGCGTTGACATCATGCATCATGTGGAGAGACACACAAGCTCTA
GCCTTCTGAGGCGCTTAGAATCCTGATAGCTCACAGTCTCAAAAAGGAAGAGATTTTATCTCCACATCTATCTCAGTAGACAAGATTTTCTGTC
CTTGTTTCAGACATTGCTCACTGTCAGACCCACCAATGGAATGGAAAAGACCCTTTTTGGGGTGGATTTTTAGATTCCCAGTGATCAGCATGGA
GCAAACAATGGGAAGTTGTGTGTGAAGGAAGGGGGGGGGTAGATGCAAGGCTAAAAGCAGTGCCTGCACCAACTGATTCCTGTATCTAATAAAA
ATGTGGCTTTTAAAAACAGTAAGCATCGTAGAACCCACCCCATGAGTGTTGAGGTGATTCTGGATAATTCTTTCCTCTCTCATTCCTGAGCCGT
CAGTCTTCCCTGGTGAAGACCTGAAATAGTACAAAAGACGATGAATGGGTTGATACTATTGTGAGAGTTTGGTATAAAACTCAGCTCTCTTTTT
GCTCGCTACACTCTTTGATTTCTACCTTTTGTTTCTACCAAGAATGATATACCAAGGAGACATTTACTAGCTGTGAATTCCTGGACTGTGGAGT
TCACAGCACCCAAAGCTGTAGGAAAAAAAAATGTATTCTTTAGAAACTACCTAGTCCTAAGTATTCTGTAAAGAGAGCACTAAGCAGGCTGCAG
TGGCTGTGGCTCCTGCAGAGTCTTACTTCCACACAGTGACAGGGGTATGTGCATTCATCGTCCCCTGCTCTTAGAAGTTGGAATGCAAATCCCT
TGAAGCCAGGGCCAGAGTCACTGTTCCACAGGGGACTGCCTTCCCTCACAATACAGGACCATCACTTTTAGCACAACCCACAGGTCTTCTGAAT
ACTCAAAAGCATGAAGCTAACAGACAGAGCCTTATATGGTGCTAAGGACAGAGTCAAGTACAGTGTTAGTTAGACACCTATAATCCCAACACAG
ACACCTGAGGCTTTTCCTTTAGAAGAGATGGGAAGCCAGGGGTGTGGAAAATTAAGGTTTTGTTCCTGCTCCCTTCTCCACTCCTCCTCCTCCC
TCTTCTTTTGGTGTTTTTGCTGGATACTGTGTTCCATGATGCAGTTTAAACTACCCCTAAATTCAAAATCCTCTTGCTTCAGCCTTCAAAGTAC
TAGGGCTATTGTCATATACTGCCATTCGCCAGCCTGTCAGTTCAGCTGTTTGACTTTAACTGGCACATACCATTATATGTATTCATTGAGTAC
ACATGTTATTTGGAAAGGTATAGACTATAGAATAACTGGCTCTACAGTGTATTGCCTCAGTTCTGTGGTAAGAATGTCTTATATTAATTGCCAC
TGTGGTTATACCATGAACATATTCCCCTCTTACAACTGAAATCTTGTTCCCTGTAATCAACATTTTCCTACCAACCCCATAGCCTGGCCTGCAC
ACTCTTAGTCCTCTTGCTCTATACGAGTAGTAGTTTTAGGTTCTACATAGAAATGAGGTCATGTATTTGTCTTCCAGTGTCTGGCTTATTTCAC
ATAACACTCTGGAGTCATTCTTGTTATCCAAGTCTTTCTGTAACTGAAAAGTATCTCACTGGGCCTGTGTACCACATTTTTATTAGCCATGCAG
CCATGATGAATAATCAAGCTACATTTTTGATACAGCAAATATTATTGCAACCAACATGGGATATCTCTTTGCCATATTGACTTTATTTATTTTT
TTATACACAACTAGTAGTGAGATAGCTGGGTGATGTGATGTGTCTACTTTTAGGTGTCTGAGGAAACTCCATAGTGTTTTTCCTAGTGGTTGTA
CTAATTTACATTTCTACCAGCAATGTGCAAGAGTCCCTTTTCTCTTGTATCCTTGGCAACACTTATAAATTTTATCTTTTCAGAGTAGTGGTTC
TAGCAATGAGGTTGTATCTCATTGGCATTTTGACTTCCAGTTTCTCAATAAACATGATGTTAACATTTTTAAATGCACATAATAGGCACGATTG
TTTTTTTCTTTTGAGAAATGGGCATTCTATTATTTATCCATTTTGAGCCATACCCTTGTTATTAGATTGCTTTGTTCTGTATGTATTTTGAGCA
TTAAGCCCTCCTCTGATGTATAATTAGTAATTAGAATTCCTTCTATCCTTTCATTGTTCACTGGCACATTTTGAAGAGATGTGCTGTGACCTAG

TGCTGGCTTTGAAAGCATCACCCTGCCTGTTCTATTGGAGACATACAGTCTTCAGAGGCACACAGAGAGACAGGAGAGCAATGAGGAGCTTGGT
GTGATCTCCAGGGTAAAGACCTCCATTTAGGCCAGGTTGGTGCTCTAGATAAAGGTAAGAGGAAGCTGCATTCGCTCATCTCATTTAAAGACAG
AGGAAGCAGGTTTCGCCAGTTTGAACTGCCAAGTTGTATGGAAAGAGATGAGAAAAGTCAAGGATACCATCAAGGCTTTTTGTTCTGAGAAACT
GGAGTAAAAATAAACATTTGTAGTTTACTTTGTTCTTGACTCACATGAAAGGGAAGTATATTTCTGTGACAGTTAAAATAAGTACATGGGTACT
TTGAAGTATGGTTTTAAAACTGTCTTAAACTAAAGCCATGAACTTTTATTGTTCTGCCTATGCAAGCAATGTAAAAAAAATGCATGCATATGTA
TTTTTCAGAATACTAAGATATATAATAATATAATACACACACACACACACACATATATATATAGACTGTTTGCAAAACAATGAATTCTTTTC
TGTATCATTTTATAAATGATTATGTGTCCAGGAATCAGAGTAAAGCTTTTTGGAGATGCATGTAGCAAGGGTTCCTTATTAATTTCATAATTTA
ACACATTGAGCTAATTGGTTTGCTCACAAGGGCCATAGCTGTTAGTCACTGTACCTTTATTCAAGAGGAGAGCAGCTAAAGCTGGATGGTGCAG
TAAGATGAACCTTGGTCCTGCAGTCTGTGCATGGAACTGACCCCTCTCAGCATCAGACTCTCCAGCCATTCCTTTCATTACTTTGGACCTCGGT
CCCACATCTTATAAGTGAAGGTAACAGAAGCCAGTGTCACAGATGCAAAAACAGCGTCTGCACTCCAGGTGTCCCCGATTACTAATGACCTCCA
CTGGGAGCAGTTTAGTTAAACAAATATTTGGTTCCAGCTGTATTCTAATTTATGTACTTGTTCATGTTCTTCTTTGCTATAAATGATTGCTGAC
CTTATTAACTATGGCCCTTGTGAGTGAAGATTGAAACCAATGAGCTTAATGTGTTAAAACTGTGAAATTAATAAGGAACTTTTGTTACATGTGT
CTCCAAAAAGCTTTATTCTGTTTCCTGGGCACACAACGATCTGAGCATCAGAAATGAGCAGAATAAAGCTAGACACTGTAAATCTATCATTGCT
CCTGAGAAAACTTAATTAAAAATATACTCCAATGTCTTTTTCATATTTGAAAGGTACAACCTCAGATTATTAATTTATTATGGTATTTTACTTT
GAGACAGGATCTTATGTAGCCCAGGTTGGCCTGGAACTCATTATGTAGCCAAGAGTGATCCTGATTCACCTACCACCAACTCACACTTGCTAGG
ATTATAGGCATATGTCTCCATGATCCATAGCAGATCCTTTAAAATAATGGCAATGAATAAATAAGTATATAAGCAGTGAAGAAACAGGATGACA
GTGTGAGACTAGATAACCAGATAACCCTAAACTCTAGACACTGGTATGTCTGTGTACCCTAAATTATTTAGGCTTGTGGTGCAAGACGTCAGAA
TCCTTCTTTCCTCAGATGAGAACATTGATGTCTTCATGTCTAACGTGTCTGTTTGCATTCAATGAGATTATGAATATCTCCCTGGGAACTGTTG
GCTCTATTAGTAGGGAATATATATTCACATGTTTTATTTTAAACATTGCTGTTCAGTTTTGGAAGACTGTAGCTATTTGAAGCTATCCATGCAC
TCTATTAGAAGTGGGAATTTATTTTTAATTATCAATTAAGAAGTCATCCATTGTATGTGACTGGCTTTGAACAAAAAATAATAATAATTAAAGC
ACACACACACTGTGTAGACAGACATTGTTACAATGCCAGTAAAGGGAACAACCACAGCACATATGGCATGAATGTTGCTTGAGACCTGAGTATA
ATCCTTAGGTCTTGAGCAGAATGAGACAGCTGACTTCCTGTAGCCGGAAGAAGAATGAGTGCTTGCTGTGTACAATGCTCAGGAAGGGCTGACA
GAGACACAGGCGAGCAGCGGAGGTGGGGAAGACAATTACAAAGGAAGCAACGAAATCTGAACAAATCAGAGACTCTCTAGAAGATAACCCAGGT
CTCTGTACGAATAATCAGTCTGTCAACCACTTCCTCTACCTGCTCTCTCTATATATTTTTTATTAGATATTTTCTTTATTTATATTTCAAATGCT
ACCCCAAAAAATTCCCTATACCCTCCCCCCCCCCTGCCCTGCTCCCCTACCCACCCACTCCCACTTCTTGGCCCTGGCATTCCCCTGTACTGAG
GCATATAAAGTTTGCAAGACCAAGGGGCCTCTCTTCCGAGTGATGGCCGACTAGGCCATCTTCTGCTACATATGCAGCTAGAGACAGGAGCTCT
TGAATTGGAGGACTCTCTGCTAATTGTCTTGTCTATACCTGATAGCCACCCTTCACTAAGCACTCTCTGAAAGTCAGACTTTATATACACAATC
TTCTCCTCTCACCTTTAGTACTATGTCGTTATCTCCATATTCAAATGAAGGAAACTAAAGCCAAACATTTTTCCTAAAAGACAAACAGCAAGTT
TATGGAAGACGTGTAACCTAAGGCTGGGATTTTCCAGGAGCAGCTCCCATGCCTTCTTCAAGACCCTGGCTTGCCTCCATTAGCAAATGTACAC
ATCACGTGAGCATGTAGACCCCAACTGGCTTCTCCACTGTGTGCCCCGTCACCTTAGGAGTGAGAAAGTAATGATACTTGCAAACAAAGCATCC
ACGTGTTACATTATCTCCCACACACACTACAAACCACACACACTACAAATACTTAAAACCAGCCCTCAGGCTTAATTAACAAGAAGTAAACTAT
ACAATTTTCCAAATGATATCTGGACTCATGTACAGTGAGCTCATATATTCATTTATTCCCAGAGCTGTATAACTTCAAAATTAAACTAATTAAT
TCCTTGTATTGTCAAGCAAAACATTGACAATTTTTTCCTGTGACCGCCTGTTCCTAGCATGCTTGTTCTTAAATGTGTAATGATATAAAGTCTT
AGGTGATTGTTTTTGAGTTGCGTTGACTTTCATGCTAATTATCTGAGTGATGGACAATGTGTTCCATCTCCTAACTCACATGGCCTAATAGACG
TGTCAATCTAACACAGTCATGGCATGAGTGCCAGCTGTTTTTGAAACATCGATCTGTCATCTCACAAGATGAGCCTCCCAATTTTCCTTAGTGT
ACTTAGTCATGTGTAACTAGGTCTTAAAGTACCCTAAGTTTCCTTGAGGCACAGACACATGCAATTATTTTCATCGTAAGTCTTGCCTGGATGA
AATAATTGAACATGAAAAGTTGCTGCACCCCAGTGAATCCAGTTTATAAAAGCGTGTGTGATGAATGAGATAGGGCAGATTCGAGTGATCGTTA
TGGAGAAAAGGCCATTCAGATTAAGCAAACTGACTCCTTCAGTGTGTGGGTGCCACAGAAGGCATTCATACCAGAAAGCTGGAAATAGTAATTT
TTCCACCTTCCCTTGATGTTTATGATTTGTGCATTTCTCCAAAACATCTTCCTATTAGGATGAACTCAGTCACAGGATGATAGCAAACTGCGTG
CACCAATGTGTCCATGTCTCTGGCTACTTTATAACAAACCACCCTGGACTTCATGGTGCAAAGCAATGATCATTTTATTATACTCATGAATTAT
GTAGGTCAGGAAATCAGACACAGCCCAGCAGTGACTCCTCTGTCTGTTGTGTAATGTCTAGGGTCTCAGCTGTGAACAGTCAAAGACTTGGGAA
CTCGAATCACTCTTAGTGTCTGTCGAGGATGATGTCAAGAAGCTGGGCTTCTTGGCAAAGGCTTTTTTGAACGTATGCTTTCTGCAGGGCTCGC
CTCTGAGGCCTCTGAACTCTGAAGAGGACCATGCAAGATCACGTGAGATCTTAGAGCAGATGCACCTGAAGCATCGTGCACGTGCACATAAGCG
GGCCTTCTCTAGTCTAATTTTGGCATCCTTGCAGCAATGGTTCACCTGGATCAGGGAAGCACTTGACTTACTTCTTAATGGGTGAAGAACAAGA
ACATGTTACTAGAAGTTTATTCAAATTGACTGGCCGTGATTACTGGTCAGCAACAGCTGCTGTGGAACTGTTGCAGGGGCAAAGGCAGTGTTTA
GGGTCACATAGTAATTTAAATATCACCTCTCAGGTAGGACCTACATCACTTCTGCCTGCATTTTAAGGCTTGTGGAGCCACGCCTAGATTCATC
ACGCAAGGGTGGTGTCAACTGTGTACTCAGAAGGAAAAGAGAACTACCAATATTGATGAATGGTGATGGTTATGACCACTTAAAAATACTGCCT
CCATGATGAAATGTGGATGTTTCTTTCAAAGCTAGTTTTTGTAATTATTTGAATCAGTTCATACGTGTCTTCTGCCATCCACCAAATATGCTTG
ATGGGCAATGCACGTAACATAAGATGCTGGATCCGGGTGTGTATACAGCCCCCATGAAAGGCAGGAAATCACTTGAAATTTCGGTGTATGGCCT
TTTCAATTATTTCTGTCTTTATCTCCCGCAGTCATTTACTATAGTTTGCACACCCTACTGTTAGTCAAAACCCTGATGTCATAGTCATCACATC
GGTACCCTTTTGTAATCTGTGATATTGTATAGAGTGTGTAGCTATAATTAATATGGAATTGCAGGTAGATACTATTAATTGAAGTGTCCCGATT
AATTTAATTATTTCTTAAATCATTTCAAACAAGAGTTATCTTACATCAAACTCTGATAGATAGAATGGTTCGTTCTTACTTTCATTTAAAATGT
ATATAGATATTAAAAGTACAAGTAGTGGATAAATCCAGGTATAAAGCAGCTTATTTTTCGAAAGCAGAGCCTGTGGCTATACTTCAACAATAAA
AAGAGCTAAAACCAGTGTGAGACCTGCTGGGGACCAGTTTATATTTTTGTCTATAATGAGAAAATCATAGTAACAAATTGTCAAACAATCCTGA
TGCCCTATGAGAAACAATGGAGAAAAGGCAAGCTCTGGGACAGGCTCAGAGGTGACAGGGTGGATTTAATTTACTTGTAGTTTGACATCAGGGA
TGCATCTGTGCATCTGTACATGTAACAACTTTAAATGCCCACCCTTCCTTTCCACCTTGCTACATCTGGTACTGTAGAACACTGCATACTAGCT
GGCCTGGGGACTCTGAGGATTCCCCTGTCTCTGTATCCCATCTTGCTGTAGTAATGCTAGGATTACAGACTAGGAATGTAATCGTGTGTGTTTT
TATGTTTGGCTTCTCATGGGTCCTAGGATCCATTCTTCAGAGTTGTAAAGCAAGGGCTTTGAACATTGAGCCATCTCCCAGCCTTGGGGAAATG
TCTTCACAGGTAGCTCTGGCTATGTAGAAAATTGCTGGCAAGCTTAGTTAATACAGGCACTAAATTGTGCTGCAGAATGCTCCAGTGAAACTCT
CTATGGATAACTTGGTAAAAGATCAAGGCACTTCAGTTAAACAATTTACCTAATTACCTATTTAAAGGCATCTAAAAAGAGATAGAACCAAATG
AACCCATTGGAAGCATAGACTAGAAATGCAGTAATATCATGAACATGTGTTTAAATAAATGTGTACATGGCAAAAGCCATACAGCAGCATGGCT
AAGCTTCTTCATCAACATGTATTCAAAATTATGAGAAAACCTATCTCAAAAGTTACATGAGACAACTACTTGTCCAGTTTTCTGTCCTGGCACA
TCTATGTTGAATAAAACCTGTCAGTATAGGCTTATGATCAGAGTCGTAAATTTGCTAAAACAGGTACCTCTTCCCTAGGTCTGTCAAACATGGT
CAATCAGTTACAGCTTAGGGCTTAAATCTCATCTAAGGCTGAGTCAGAAGAAGTTAACATAGGTTCTATCAAAACCACACACAATGCTGGAGAT
AAACATTGTAACAATGACTTTGCCTACTATGATAATGAAATGTCAGGTCTTTTGAGGTCTCAGTCAGATGTAAAACAGACTAGATACTGATTGT
GCTAACAGAAATTTACTGAGGAACTCAGCATTTGTCTCTCAGGAATCTTAGCTACATTGTGGCAGACAATGATTATCAGGTTCATTTACTTAGT
GCTTTGCGGTCCAAAGCACACACCTCTCATAGCCCAATGCTATATTTCTTGTACCCTCCCAGAACTTTGAAGGCTGTCATGGTCACTGTTCTAT
AGTAGTGAAGAGACAATGTGACCAAGGCAACTATTATATGAAAGAAATCATTTAATTGGGAGCTTGCATACAGCTTTATAAGTTTAATCCATGA
TTATCATGGTGGGAAGCATGGCAGCAGGCATAGCAGGCATGGTACTGAAGAAGAAGTTAAGAATAAGTGGGCCTAGCATGGACTTTTGAAACCT
CAAAGCCTCCCTCAAGTGACATACTTCCTTCAACAAGGCCATATCTTCTAATCCTTGAAGTCTTTTCAAAGAGTTCCACTCTGTGTTGACTAAG
CATTCAAGTATACGAGCCAATGGAAGCCATTCCTATTCAAACCACCACAAAGGCTAATCCTCTCTCAAAAACAAAAAAGATTATGTATATGTGT
ACATTTTCATAAATATGTCTTACATATTTAAAACTCTGCATGTAGATATAATTCTAAGACTTCCTAAACATGCAGAGGGTCTATAATACACTTT
GGCTAGCTTGTGTTCAAATGACATTTTGTTGTTGTTGTTTAAAGCTAGGAATTGCCTTCTTGGAAATATCAAATCCCTACAGAACTATTAATGA

AAAATAACTATCTCTTTTAAAGTAATTTTTTTAAAAAAAAAAGCTTCTCTTAGAAAAGAAAGGGAACTTTTTCTGGGGTGCATCTGTAAAATTT
TCTTCAGTCCTCAAAACAGTCCTTTACCAATGAAAACTCCAGACAGCAAAAGATAAGGTTGAGCTCACAGGACTGGTCAACCATAGGGATTCTA
TCACAACTCTGTGCTGCCTGCATCAAAGCCCCAAGACCCTCCAGCCTCTCCCCTCAGCCTCAGTTCTTGCGCGCGCCCGACTGGCCAGCAGTAA
CGACGCTGTAACAGGATCCTTCTGCACACGTTTATTGGGAGAGCTTGATTGCAGAGGCGAAGAGACCCTGAGCCCAGAACTGGTGCTGCTTTTA
TAGGCCTAGGAGAGGCGTGTCTCATACCCGGATTGGTTATGCACTACGCCTCATTTGCATGTTCCTCATCTGATTGGCTACTCTCTCTCTCTCT
CTCTCTCTCTCTCTCTCTCTCTGTACCTCACAGAGCCTCATTATCATACCTCATTTGCATGTCTCACATCTGATTGGTTATACTCTCAAAGCCT
CATTATTATGCCCAGGCCAGGCAGTGTCTTTTGCAAAAAACTTTACTGCATATGTACACATTGGTTGTTTGTCCAAACTTATGCGTGGTGGCCAG
CAGTAGTCAGTGCCACTCTGCAACGGCACATGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
GCGTGCAGCTTCTACCTCATTTAAAACTTGCTAAGACCACATGTATCTGATCTACATATATTCCCTGTTATATCACAGATGCTAGGTGTGATAT
AGCACACAGTTGATACCATCCCTTCTCAATAGTTACTGCTAGCCAATTCCCATTGAATGCCTATGGCAATTGACTATTTTGTTAATAGAGTTGG
ACTCTGTCAATCAGTTGAAAAAGTCACTTCGTAACTTTTCCACTATGCTAAAGGTCATGGCAAAGTTGTACCAGGACTTATGAAGGTTCTTTGT
TAGTCTGTTCACAGTAGCAGCACTAGAGAAAATCTTATGCAGTTGTTATGAACAGTTGTACTTAAAAATCAAAGAAAAACTAGATTAATTTGAG
GAAGTCTCTCTTCACCAACAGAGTTTAAATGCCCTCCACATTAAGTGGATGTTTTTAAGTTTTCCATGCAAGAATTCAAGTTTCTAACTCTCAC
TGGACAAGCTGTCTTATTCCCAACTCTTCCTTAGGATCTTCTTTTTGATTATATTACCATAAATGTTTATTCAACATGTGTGATACTCATGACT
ACTTACCATTGAGAGAGTAAGTGGCAGCCTAGCCAGTCCAGGGCAGCCATGTTTCCTTACACTGATGAGCGATGCCCTTAATCACCTAAATTCC
AAAACTATTACACTTCCCATGCAGCATTGAGCATCAAACCATTCCTTATAATAATACCTCAGAGGTCTGGGCCCTTTAGCTCCCTCAGTGACAA
AGCAATGACACTAAGCACTGTACAGGACCGATCTGGCTTTCAAACTAAAAACAACTATAGACAGTAGAAACAATGGCCATCATCACTTTTCTTT
CCTCTTAGGTGAAGGAACCAGAGGCTGATAAAACTTAAACCCCTACAATAGAAATTAAATAAAACAAATTTAGTGAGTCACTATGGCCCAGGAA
AGGCAATAAGTGGTTAAAAGGTAAACTGCTGTCACGATGCTTTCATTACACAGAGATTTTAGGGACATGACATGAATTTTGGCACAGAAAATCG
TGTGTAAATATCACGTGGGCTATGGTGAAAGGCTTAACTATTTATTTTCCTACCTCAGTATTAATTACCTGAGTCACATATATAAGAATGGGTG
AATAAATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATGAGTTCTTTTTTGTATAGTTTATAAAGAAGTTCCTAACT
AAAAACAAGTTCCAAAGTACTGTGCTCTTTTATGGACTTTCAATCAGTCTGTAAAGCTTTTGTAGGGCCTATCATGAGCCAGGCTCGGGGCAGT
TAGGAAAATGCAAATTTAATAAAGGCTTTGGCCATTAGGAGCGTGTGTGTCTTTCTAAGTTACGTCTATGCAACAACAATGCTGTCTGTACAGT
AGAGTAGAGGGCTCAGAGAAAGCAATGGAAATTCACAGAAAGAGGTGAAAGCCCTTGTAATTCATATACCCCAGAGAGGAACTTAAAGAGTGTG
TTTAGTAGGAATAGGCACCTGCCAAAGAATCTATGAACCCCAAGATATCCAAACTTCTTATAGTCCTGGAAGGAGTTTCTTCTGAGTTGGCTCA
GTTGTGCACTGACCGCTGTTTCCTGCTACATCTTCTCAGAGCAAATAGGAAAGGAAAAATGCTTCTGCTCTGTATTGTATGCTCCTTTCATTAA
ATCACCCTCGGGACAACTGAGTGTTCCAGAAATAGGTGTTGGTTAAAAAAAAAAAAAAAAAAAAAAAAACCAAAAAAACAGGTATTTCTGTGCA
ATCAGAAAGTGCCTCTGCTTTGTTACCAGCATAAAGCATTCATGAAATCAATTTTCAGCACCCACTGGATAGGGCTGATGTGCGAACTAGCTTT
GCGTAGCCCATCGTCTTCTTTCCGAGATGATTTGACAGGACTGGCATTTTATCATGAATACAAAGAGGATGAGCATATTCTCCTAATATATTCA
TTACTTCCCTCTCCGAACTGGTAAATAATATACATATGGTAATTTGAGAGACATAGTGTTCCCCATTGCTCCTTTTTATTCCTGGAACTCTGGC
TGTCTTTGTAAATGCTGCAAAAATCAAAGGCAAAATTACCTCAAAATTTGATTTTGGAGTCCTTCTAGTCTCACTTTCTGGTGCCCACACAAGA
GCTATTGCTTATTTTCTGTTCTGACCTGTATTATTCAATAGCATCACCCCTTCTGCTTGCAATCTTATTGTAGAACCTTCTAGAGTGACTCAAA
GAAGCCATCTATTTATTCATTAACAAGCACCTATTAAGTACCTACTCTGTCCCAGACACTGTGCTAAATGTTCAAAAGAATAAGGACCATGGAA
GCCTATGGCCCAGGCCCATTCTTGTTTTCTCGAGTTTTGTAATCATTTCTCACACAATTATAAAAATCCATGGCATCGTAGAAAGATAGGAAAG
ACTGTGGAGTGGATGCCGTAAACAGAACTAAATGAATAATGAATGACAAGCTGAGAAAATGTGAGTGTTTGCCAGAGCATGTGAGTCTAATTAG
CAGGCATAAACTGATATGCTAAACCAAAACGTGATGAGATTTTAGATCCAAAAGAGCCATTTTTATAGACTGGACCTGAAAGAATTGGATTTTT
AGATGGGAGTATGAAGGCAGATCTGAAGGGCAGTTTTCTTAGAACTAAGTGAAAACGAGATGTTTTACTCTGCACGGACTTGATTGACTTGCCA
TGGCTTGAACGATCAGAATACAAGTCAATTGTGATCAGTAATTTCTTCACTTGTATACTTAAAAGTGTTCATTGACCTACTGCGTTAGATGAAT
TGGTCTTTGCTGAAAGCAAAGGAAATTAAAGGTCTGCTCTTCTTGAATTTGTGTTCAGATGAATGGACAATGGGAGTAAATCAGTGTATGGAAG
CCCCAGCTAGATAGGCACCGAGACGTAGGCTGCAAAGAAGACAAATGGGTGGAAGATGTCTCTATAAATATACATGGTTGTTAGGGCAAACTGA
CCATGCACATTGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTCCCATTCCACATCAAATGTGTTCCATGGCTGCAATCAAGTCCATGCTCAAC
AGTACATGAAGATATGACAGTCTGGTTTCCATTTATATAATTGTTTTGTTGCCTTCTTTATTCTTACTGGATGAGGTCTTATTGTGCTGTCCTG
ATTGACCTGAACTCTGGGTTTCAACAGTCCTGATACCCTCAGCCTTCAGAGCAAGGTGCCTCCCAGTTCTGCCTTATTTTACTCTCTCTCTCTC
TCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTTTACTAACTATGAATTCACACCAACAGTTTCTAGAATCTCTTTTAAAGCATACCT
GATAATGATGCTGATATTGGTTAAAATAATGTAACAAATGCTTCTTTTATTACTTTATATGAATTACCTGTCATTTAATGCTCTGAGATGGTGT
GGGGATATAGGGCGCTGTTATCGTTCCATTTTATAGATGAGAAAACTGAGTACACAGAGATAAAGTAACTCACTTATTTCCATAAAGCAAGTAA
GTGGTGCCACTAGAGTATAAAATCAAACAACATAGTTAGAAACACTATCCTTATCTGTCTTTAGTGTTTATTTCTTCACAGCTCCATCATCTTC
ATAGACACACACACCCTACTTAAAACCTGCATGTCCATAATTTCCACAAGCAAGCACCTTGAGCTGAAACATTCGGGGCTGTTTTAAAGTAA
ATTTTGCTATTATTCCTTTGGCAGAATTTAAATTGTGAAGGAGATTTTCAAGTGATTTCCTCTCAGGCTTCATTTAGAGGCATTGAATAAAGTA
ATAGCACCTTTGAGAATGCACCTTGACATCTTAGTGTTGGGCACCTGTAATGATAGCAACGTGGGAGTCTGAAGCAGGAGGATTTCGAGTGGCC
AGGCAGGGGAAAGAGAGAGGGGGGAGAGAGGAAGAGAGAAGAAAGATTCCTACTCTGGCAGACTAACTGTTTCTTTAACTATCACTATTAAA
TACACTAAATTATTCTTCAGCTCCTCCTTCACTGTGGATCCATGCCTTTAAAACAAGCACCGTTGTCCCCTTTGCCTGTGCATCCTGAGTCTCT
ATACACCTTTAGCATTCTGACCCAGGATTCTCAATTGATTGCCACTAAAACCCCAGATATGGGTACAAATCTGAGCAAATTGATCTCAATATGC
ATTAGCATAATTAGAATTATCTAGGGATGTCAGATCATCTTAAGCACCTACAAAGTCCTATTTTGAACACTTAAGTATAATTAGCATTTGTGAA
AGGTCTCTGGTTTTCAAGTGTCTTGCAAGACTCTTGTTTTTTTTTTTTTTTTTTAGTAAGCTTCTAAAAGCTGCTTGTCTTTAGGTGTTCAGT
GAACGGGAAAGATAAACATTTGAGGCTTGCCCTTTTCCTCTTTCTGACTAAATGCGGGTCATAAAGTAGAGCCACGGATACAGCAAGCCCCATC
ACACAGATGAACACAGATAGCCCTTGCCCTCATGGAAGGGATCATGTAGAGTCCTCTCTATTCCAAAAGAACTTCACAATCTCCATAACTACGT
TTGGCATTTCACATCTGTCTTGTGCTTTTGTGACATGTGGATTAGCAGACAGTGCCTCGGGCTCTCATGATGAATGTAGGGTAATACAGCAGCC
CAGAGCCATGGCACCTAAGTATGACTTGGATGTGATCCCACTTGGATATGATCCCTAAGGGACAGGATAAGGACACTAGATCAAATTTGGATCA
AAGAAGAATTGGAAATCAAAGAGTTGAGAATAACACCCAGCCCTGCATCTGCATCTGTTTAATTAGTCTTTTCTCCATCCATTTTAAATGTGTC
AAAAATGTGTAAAGATCCATTCAAATAGAAAAATAGTAATTTTTCATGGAGTGAGGGCAGGAAATAAATGTCAGATTCCCAGTAGTAAATAAAT
ATAATTTTTAGACATATAATTAGCTTTCCTCAATCTCAGTGTCTTCATCCTAAAAGGGCTTACTTTTGGTAAAGGGGAAATAAACCTGAATTGT
TCAGTTGGAGTCCAGTGAAAGAGCAGCAGGCAAAAGAACATCACAGCTGCTACAGATCCCACTTTCTCAGGAATGAACAGCTCCTTTGAATGGT
GTCTACGTTATCCAAAATGCCACAAAACAATTGATGATAAAACTGGTGGATGGACATATAGTCTGAATGTTTCTCAAAGCTCTTAGTACTCAAA
GAACTTAAGAAAAGGGGAATAAGGAGGTTTGCCTAGAGTAGAGTGTTTCGGGCAGAATAAAGAACCCCTTTATCTTCATTTATTAAGTTGAACA

GAACAAATAAGAAGCTATCCATCTCTATAAAAAATCAAATACAGTTAGTTCCTTAATGAGTTGCGTCTTTTGCTCCTAACTGTAATACATACAA
TAGTGTATTATTTCCTTTTACCCAGATAGATTTCCTGAAACCATAATATTCAGAGGCAGAGAACTAAAGGTTAATTTAAAAAAAAAAAACCCTC
AGGGGTAAATTATTACTATTAGAGGAGAAAGTTATATTTTTAAAGCTTATAGTATTATTTTTCCAAATTAATTTTTAAAATAGTATTTTCATGT
ATTCTTGAAATGTAAGTATATTCTAGATTACGTAAATAATTGATAATGGACTACCAAGAAAAAAGTATACATGTAATATTCAATATACAAATTA
GCTTCAGTAAATCTCTCTTTTGAGTCATTATTTCCACTAAAATGTCTCTTACATTGAAATTATTCTATGAAATATGAAATTTAGAATATAATGG
ACACCTTCTTTTGTTACTTAATCATGACGTAACGCTTTGTCTCCTTTTCATATTTGAAGTGCAGAAACGCCTTTAACATCCTAGGAAAGCCATG
TGGATGTCATGATCTGGCTTTCTTTGTTCGGATAATATACTAGATTATTTTCTTTCTTCTGAACATCTTAAACTCCTAGATGAGTTTTTCCTTC
AATTTTAAATGCTTTTGAAGCAGGACTCATTTTGTTTCGAGCATTTCTTGGAATTACATAGAGTTGAGTAAATATGAATATGCCAGCATCCTTC
TAAATGGACTACCTTTAAACTGTTTCAAAAGTAAACCATGCATCAAAAGTCAACTCGGAAGACCTGTGTTCTCTCATACCCCTACACCTACCCT
GCCCCCTGTGGGTTTTTTTTTTCTTGGTAATAACAATAAGTGTCTTAGTTAGGATTTCTATTGCTATAAACAAGAACACTATGACCAAAAGCAAC
TTGGGAATGAAAGGGTAGCAATAAGATTACAGGTCTACATATCACAATATATCACTGTAGGAAGTCAGGGCAGGAACTCAAACAGTGCAGGAAC
CTAGAAGAATACGCTGATGCAGGAGCCATAGAGAAGTGCTGCTCAGTGGCATGCTCCCCATGGCTTGTTCTACCTGCCTTCTTAGAACACCTAG
GACCATCAGCCCAGCCATCACACCATCCACATGGGCTAGGCCCTCCCACATCAATCACTAATCAAGAAAATGCACTACACAAACTTGCTCATGA
GCCTAGCTCCTGTAGACATTTTCTCAATTGAGAATTCATCTTCCCAAATGAAAATGACTCTAGCTTGTGTCAGGCTGTTATAAAACTCACCAGC
ACATACAGCGACCCAAAACTTCATAGGTACTTTGAAATAAGTGAATCTCCAATCATGCTGCTATCCTTTTAAGAATTTGTAACTATCCCTGCAA
ACTGTTGTGGGCTATGTCATGGTCTCTAAATGCCACCCTCTTACATCCTAAGCAGAATGAAGCATGAAATAGGAACTAAGGTGTGGCACAATGC
AGACAACTTTCCTCTGGGCTCTCCTTACAGGACACTTCTCAGCCATGAATCTTACTGGCCTCTACCTTTCACATAACCAGGGAAACCAAAACAT
ACATCCATTTTTTAATCTTGTCCTCTTCCCCACACATTCTCAATCTTTTCTCACTGTTCCTCCCTCACAAAAGAGCAAGCATAGGAACAAATGA
GAAAGTTTCTGACTGCCATTGACTCTGGGAAAATATTAGTCTTGTGCTGATTGTTGCAGTGATGTACATATAACATGAAATTTACTATCTTAAT
CATTTCAAGTGCATGGTTAAGTACAATCACACCATTATGACAATCCCCAGTATATTTAAATTTTTATCACACAGAACTGAAACACCTTATCTCT
ATGCTACACTAACCAGTCCTTTCAAAAAATTCCAAGTCGTAAGTCTAAGATTAGGCAAGACATAGCCTTTGTGCTCTTAAACACTTTTCCAAAA
TATATTCATTTTAAATTTGTATGTATAAAAATGAATAGCTATTTTAGCATACAGAATTAAATCAGTCATTTTAATGATTCTACTGATTGGCTTC
CAGGAGCATCTGTGTGTCTTCTCATTAAAGTAACCAATGCATTACAACTGTCATTGCTCTGTGACTCTTCTTCTCTTGCTTTGCTATTTAATGT
TTCTTTGAAGTCAAAGAGTAGCTCTTCATGATATGCATCCAAGTGTGCACTTAAATCATAGAACTTATTCTTAGCAAGGAAGTATGTAGTGAAG
CACCTGGTCAAATGGGAAGACAGCCTTGAGAAAGACAATGTTTTTCCTGCTGAATTTCTAGGAATAGCCAACAAAGTGGGAGTCCTGATAGGTG
AGACCAGCAGTGTGCTCTTTCATAACCTCTTTCAATTACTCTCAACTCTTCTTTATTTTTGGATCCTATGTAAAATTTTCTATAAAGAAAAGAG
GTTATACTATGTTTTGAAACAAAACATCTTGGATCTCGAGGAACGTTTTGTCTCATTATTGAGATTCATTGGAAGCCTGTCATTGAATGAAAAG
ATATCATTGAAAACATGTGGCCTTTAAACCAACCACCGACTCTCTCCAAGCCTCTTTTCTTTATGACTAGAATGAGAATAACGGTGTATATCTG
CATCTTCTAACACCTGAGAAGATTTAAAAGCAGTGAGCAGTGTGCTGCCAGCCTCCTCACCCTGCTGCCTAACAAGGTCCCTCCCACATGAGCA
GAGCAATCCAGGAAGCAGGTGACAGAGGATGAGGTAGTCCAGAGCAGAGACAGGAATATAACAGAAACTGGATCTATCTGGCTCTGGATACTAG
ATCTAGGTTGGACGTAATGACATTGGGAGCTGTGACTGATGGGTTCTCAACCAGATGCCACCTTTCTCAGTGTCTAGAGGAGTGGTATCTAACA
ATGACTAAGATGGTTTCCCAAGAGAATTTGATACTGAAATCTCACTCCCTCTCCCTCTCCTTCTCCCTTTTCCATCCCTTTTCTTCTCCCTCTC
CCCATCATCCTCCTCCCTCTTCCTCCACCTTCCTTTCCATTCCTAGTGATCAAATTCAGAGCCATCCACATGTTCGAATATTAGTTAGGCGCGC
TTTCTAGCACTGCGGTACATCATCAGCCCTGGAAAGACTTATTGCCATGAATGAATCGTTACTGGCATGTACGTGATCAAGGCAGAGCCACCAT
GGTCCATGGGTTCTGTTAAATACCTCACTCTGAACATGACAAAACCTCGATATAACAACATTAACAGCTTAACACGTCACTCGTGCTGACCTTG
AGAAACTCTACTTTTAGAGACTTTCTGACATAGGTGCCTCTCCCCATCATTGATTTCCTCTTCGTCTGGTAACCTGGAAATTCTTCAGGTTACT
TTTGTTCTGGTTCTCTTCTTTGTTCCTTTGTCCCTCTCTTCATCCCTTCTTCATAACTTTTTCCTTTCACTGACTTCACTAAGACAAGATTCTT
TTGTTTTCTTCACTAACTAGTAAATTGCTTCTTTCCCAACTCTTACTCTTAAAGGCAACAGAATAGAGCTCTCTAAGGGAAAATAACATAAAGC
TTGAAACCACATAAAACTGCATTTGTATTTGTGTAGACATGCATGGATTGTTCTTTAGGCCAGTAGATTCAGAGACAAAAACAAACAAAAACCA
TCCCCCAGTGTTACAGATAGTTAGGGGGACTGGACTGTGTAACATCAATCCCAAGAAATACCTTAAGTAAGTACTCCCAGGTTCTTTAGAATGA
AAAATCTAGGAGGTGTCTTAGTTCTATTGCTGAGAAGAGACACTATAACCAAGGCAAGTCTTATTTAAAAAAAAAAGCATTTAATTGGGGCTG
GCTCACAGTTTCAGAGGTTTAGTCCATCCATTATCATCATGACAGAAAGCACTCAGGCAGACACGATACTGGAGAAGTAACTCAGAGTTCTACA
TCTAGATCCTGCATGCAGCAGGGAGAGAGACACAGGACCTGGCTTGGGCTTTTAAAACGCCAAACCACACCCTCAGTGATTAATTTTCTCCAAC
CAGGCTATACCTACTCCAACCAGGCCACACCTACTCCAACAAGGCCACACCTACTCCAACAAAGCCACATGTCCTAATGCTACTCCCTAAGCAT
TCAAGCATATGATCCTATGGGAGATGTTCTTATCCAAACCATCAGAGATGGTATCAGATGCCCTATAAAGGAGTAGGGCTTTCAGGCCAAACTT
ACTTTGAAAGGTTCTCAAATGATTATGAGACACAACGGGTTTGGGCAACATAAACAGGTTGTTTTTATAAATTTCAACCACTGGCTTGCTATCT
TATCACTCAACCTTTTACCAATGAGCAGATTTCAACCAAAACAACATTTTTTTTTGATTAGTTGAGTGAAATCTCAATTCATTGCATCTCAATT
TATTGTCAGACTTTAAATCAAGTGGGCAATTATTTATTCCCATCAAGGCAGCCTTTTGCTATCCTGTAGCCAAAATAATAAATACTGGTTGTTA
GTTTTATATTCAACCTTGTTCCTCAGTGTTTTAAATTATTCTGATACAGCTTTGGATGGAGAGTGAATAAAAAGAGGCATGGTCTCTGGAGCCC
CAGATCTTCTCATAAAGACCCAAGAATAAAGTGGTCTAAACAACCCTTACACACTTGCTCACTCACTCAACAACTCTTTGGAAAACTCACCCAA
TCCCAGCTCCGTCTCTTGATTTACTCTTTATTCTCATGACTGAAGAACTCAGCTGTTTATGTTTTAATAAAAAATGGTTTAAAAGACCAAGCAG
AATCCAATGGGGACTGTTTCTGAGATATCCAGCTTACTGGCATATTCTAATGTCTACTTGGCAATAACTGAAAAGTGTGGCCTTTGTATTCCAAG
TAACTCTGTCTTTGAGTAGTTTGCAGATTTATCACTTGTTGGTCTACAGCCTTTAAGTTAGGGATCATATCCAAAGCTGCCTGGTTTTATAGGA
AAAGCCTAGTTGTTTCCAAAAGCAAGGCCAATTAATAGAGCATTCGAGATATTTGAGATCTATTTCCATGGAGGAAATGATCTTAAAGTGAAGT
TAATTAGGAGTGCAGAGAGCCAGAGATGATAAATTCAGAATTGCATAATAGATTTGTATACTAAAGGGGCCTGTGTCATCTCCAGTCCTAAAGA
GACCGGCTGCTGAAGAATGAGACTCAGAAAAATGGGTGGGTTATATCGCCTCCAGCTTTCCATGTCACATGCACATGTCACATGGCCTTTCATG
ACCTATATTAAAGTTCTCCAGAGAAAGAGAACCAGTGGGTTATTCTGTAAATATGTGTGTAGGTTTATATATGCATGTATATATAAATGAAGGG
AGATTTTTTTATGGCAAGGGATTGAAGTGATGATATTAAGTTTAAATTCAATCTGGAGACCTAGGAATGACAATGATGTAACTCATTCTACATC
TCAACTGAGAGATTCCTGGTGGTATAACTTTACTTAGAGGCCAAAACCTAAGGTACAGAGTAGAGACTGGGGGAGTCTAGTGACCTGAAAACC
AAGAGCTCTCATGTCCAGAGTCAGGACAAAATGAATCTCACATCCACCAGACTTTTAGTTTTTCTGTTCTGACTCTTAAAGGATTGGATAGTAC
TCACCTAAAACAACAACAAAAAAGAAAAAAGAAGAGAAAAGAAAACAGGAAAAACCATTCTCCTTTTGAGTCAAACTCTATTCTCTTCCAGTAA
TACTGTCAGAGATACATCAGAAATAGTATCTTACCAGCTATCAAAGTACCTTTTACCCTAGTCAAGCAGACTAGGCTACACAAAATTGAAGCCT
TTATGTCCCTGTCCATAGAAGACAGGCTTAGCTGGATAATACCCAAGTCCTCTATTATAGCATCTTGCCAGCTATCAAAGTGCCTCTTAGCCTA
TCAAGCAGTCTGGGCCATGCAAAAATCACGAAGCCTCAGTATCCCCATCTGCAGGAGACAGGCTTAGCTGAATAACACCTAAGTTCTCAATTAT
ATACCAGTGCTCTATGAATGCAAAAATAAGGCTTGGAACACTCTGCCTTGACCAGTTTAAGCATCAACAGAAGCTGATCGCTGGACATGCCTTC
AATCACAACTTACACATTAACTTATTAAATTTACTAGCTAATTCCAATTTGTTTTCTATTTTGAATGGCAAAAATTTTCAACTGGGTCTCTACT
TGATTTTATCAAGAAATTGATGGTTCTGTTTGGTATAAAAGTATTTTGGTTCTTTTTCCAGAATATGGTCATCATTACTAGAGATATAAATTGA
GCTAAATAGGAGTAAAGTATCATGTCTGTGATTTCATTTAAAAATAAAGATAAAATAAAATGTGGCTAGATCACATAAGATGCTGTTTGGGCTG
GCAACATTTCTCATTAAAAACTATATTCTGAAAAAAGGTATCAGGGACCTAGGGGAGACAGATATGGGTAACATTGACTGTTCTGGGCGTGGAG
GTTCAATTTATTTATTTGCCTTTTCACCCTCTGTAGTGTGTGTGAGTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG
TGTGTGTTAGTGAAGTGGAATCAATTTCCTGAAGCCTTGAGAGATTTAAATCTCTTCACTGAGAGTGTCTCTTCAACTGCATGCAAGCATGAAT
GAATATTAAGGGTAAGGTACTATGACTGCCCTCTTGGTTCATCTTTCCATTGCTACTGCACAAGTCCCAGAATTTTGAATATCGTTGGGTCACC
ATTTGTCCTATAGGCTTCTGTAACCTCCTTAATCATTTGTATATAATCTAGTGTGTGTTCATTACACAGATTCAAAGCTTATGTTGGAGTGTAT

CTGTAGATAGATTGGGCTTTCTCATATTCTTCCCTCTACCCTCCTTGTTTTATATCCTCACAACATCTTTTCTTTTCCTTTTTTTGTTTGTTTC
TTGTTTGTACATATGAATTTAAAACTGTGAATTTATCTGTCTTTCTATATCTGGCTTGTTTTGCTTGACACCATGACCTGTGTTTCCATCCATT
TTCCTGAAAATGATAATACTTAAATTTTTATGGCTGAATTAAACTCCATTGTGGATTTATTCTATGCTTTTATCAATTTACCTATTGAAAAGTA
CTTATACTGCTTTTATAACTCGGCTATTCCTTAATCATTTTTCTAATTCTTTCTAATAGACATCCTATTAAATAAAACTGAACAAGGTATTGTA
CCAATGAACTCAGAACACATTTACTGGCTTTACATAGAACATTACAACTTTTCCTTTGGAAGGAAAATAGATGCTGCCCTCGAGTAGGGTGCAC
ACTATGTTCATATCAATTAACATTGGTGAAAACATTACAATTCAATTGGTCCATCAGTAAGTCAGAGTTGTCTATAGAACACATGTTTTATAACC
CTATATCCCGCTCTGATAGAAATAACCGGTTAGCTTCTTAAGGTTGATATAGTAAAGTTGCCACAATTAGGTGGCTTAAAAAAACAGAAACTTA
TTTTCTCCAGGTTCCAGAGTCGAACAACTTAGAATCTAGGTTTATTTGGTACTGTGCTCCAATTGAAACCCTAGATAGAACCCATTCTTGTTTC
TCCTGAACTTTTCATGAGAACCAACTGCCTTGTCATTTCTCAGCTGAAAGCTGCATCCTCCAATCTTCATCTTCATATGTGATCTCTCCTGTGT
CTATGACTTATAAGCACACCATGAGATTAAGGGCACACCCTATTTCAGGATGACTTCATCTCTACTCATTACACTTTTTCCAAACAAGGCTGTG
TTCTGAACATAGAAGGGCTTCACCATCTCTTTTTTGGAAGAAGCAACTCAAACCACGAGGCCATCCAAACAAATGACACTGTGAGATGGATTCCA
TTTGAATCTTTTATCATAGCTATAGTTCCTAATTTTACAAAAATGAAGGGCTAAAGTTTACTTCCTGCCATGCCTGGGAAATAATATTCAGACA
ACATGTTCCAGGACAATGTCTAGGATCTTTAGAAACACATACTCTGTGCTATATGGCTGTTCTACAGAAGCCACCTGAGAGTCACAATAGAGAC
ATCGGATGTAAGCTTCTTCTGAAAAGAATTAATGATGCTTCTATAGCTTGCCCTTGTTATACCACGCCCACTCCTACCTAAAGTCCTTCCACTC
CATCTGAATCACTGAAAGCTTTAAATCTAACTGTGTTGATGCTGCAGCAGGAAAGCCACAAACCAAATCAGGACAAACCAACAACCCAATCAGA
AGTATTTTATACAATTATTATGTTGGAGGTTGTGGTCTTTTCTTACTTGAGTTTTTCTGCAATGAGGGAGAAATAGTGAGGACCTTTTGTATCT
CTAGGTAAATATTAAATCTGCCAGAAGAGCCAGTTACCCAACAGGTAGTCAGCTCACAGGTCAGTGCTCATTGGAAGATGTTCAGAGCCAGAAA
CCAATCCCAGCAGGGATCCTATGCAAATCTAGCAAGACCTTGGCTTTCATCTTCTATTTCCTGAAACAAGCACCCAAGTGTTAACTGGCTTGTG
AAATACCTTGGGTAAGTCTCTTGTGTGTTTAAGATTCTGGCTGATTTACATCTGCCAAAAAGGGGTATTTGTTATTTCTTGATGAGGCCCAGGC
CCTCTGCACTAACATGTATGTTTTCGATTTTCATTCCCAACCTGATGCTTGACACTCTACATGCTTTCTAGGGTGAATGAAAGAAACTGAGAAT
CAGGTTTCTCTGTCATTAGCACAGAATCAGCTAAGAAAGAACTAGGATAAAGATGGAAGAAGGGGAAATGAATATCATAAGACTAAGGAAAAAC
CTTTAATATGAATTACAATGATTAAGGATTAGCATTAGAAAGTATGTGGGTTTGACAAAGCTACTGGAATCTTTTTAGACTTTAGAGCTCTCAC
CTTTCTTGAAGTCACTTGAGTTTGCCATCTTGAGATCTTGACTATTATGTAAAACCTCTAACTGTGTTAGGTCAAACAAGAGTGTAAGAGGTGT
GAGAAGGTTGCATGATTGCTTGTGACTCTTTTGTTGCCAGCTAATGTATGAGTGTGGAACCAGAGCAGAGAATAGAATGAATGGAACAATCACC
ATATTTGCTGAATAAATGTCTTTGTCCATTTTTTGTTGCCATTCCTGTACTTTATGAAGCAAATTAGTTCACTTCCTACAAGTCTGGACATGGG
AAGTCCAAAGCTGAAAGGCAGCATATGGTGAGAACTATCCCACTAGTAAAGATGCCCTGAGAACCCCCAAGCCCCAAGTCAGCACAGGACAGCA
TATGTCAGAACAACCACGCTGACTTGTGTGTCTCTTCCTCAGATTACGAATCCACTACTCATTATGCAGACATCCCTCTCATACCTCATCGACT
CTTAATTATTCCCAAAGGTCCAAGCTCCAATCAACACTAACAGGTGGTTTGTGGGTTATGAGAGGACAAACACGGGAAGAACCTAGTGAGGCAT
TTCAACCCCAAGGATGAAGTTGGCCATCACCCTGGTTTCTTCAATAAACTGAGCAAATGAGTAACAGTAAGAAAGGAATAGTACCCTGATGCCT
AAAGTCTCAACACCAGCATCTAGAAAGGAGTGCACACGACCCCACCCCTTATCTTCCTTGCCAGTTTCTGCTTTTTATTCAGTAACCATTGACC
CTGCCACCATTCATCACCAGAAGTCACAGAGTTGCAAGGTTATGTCCTCAGTCAACTCAGCTTTGATTTGTCCCCTTGGGTCCTCACTTAGTAA
AGAAAAGAGAACAAGGCAATACTGGTAATAACCAAAACTGAGGCAGATATGGTTTGGCTTGAGAGGTGGACTTGATAAGAGGAGAACCATTTAT
CACTTGGATGCCAACTTCTCATTTGTCAAATGTTTGATGGGTTTAGTCATGAAGTCTCCAGGCCAGGAGGACTACATGTTAAATAGCTTCTTAC
TTATTGTCATCTATTCAAAACAGGTCGGCTAAGCATGGACAATGGGTGTTACGATATCTTCAAGTAAGCTGTAGACTGACAGGCTAGTTCATTT
TTTACTATCTATTGTTATAAATTCATGGATTTTTGGGGGGACATTCTCATTGTGCCCATCAAATGCCTTGATCCCACTCATGCTCATGCTACTC
TGCTACCCACCGCAGCCTCTTTTCTTGGTCTGTATTGTCTTCCCTAATGCAGCCTTTTAGAAAATACCTTCATTGTGATAAAGTGTACATGCTT
AAAGCTCATGTTTAAAATGTATACTTCAGTGGGTTTTATGTAGATACAGAGTTATAAAACTGTCATAACAATCTAATTTTAGCACATATCACCA
AGTTAAAATGTGTATGTTAGCAGGCATAGCTCATCCCCCTACTCTCTCCACTCCCGTTAGCATACAATACTCAGTCTGTGGCAATCTCTAAGTC
ACTTTGCTTTGCTATTGCAATTTTTTCATAAGTTCCTACCACTGCCTAGATCATAAAATATTTCCCCTATATTTTTCTACAGTAAATTGAACAT
TGAAGTTACATATTAAAGTCTTGATCCATTTTGAATTGATTTTTTTTTTTTTTCGAGACAGGGTTTCTCTCTGTAGCCCTGGCTGTCCTGGAAC
TCACTCTGTAGACCAGGCTGGCCTTGAAATCCGCCTGCCTCTGCCTCCCAAGTGCTGGGATTAAAGGCATGCGCCACCACTGCCCTGTTTTGAA
TTGATTTTTTGCAAAATGGGAGATACAGATTTAATTTCATTCTTCACAATGTAAATACCAGTTTTGCCAGCACAATTTATTAGGAAGGCTGTCT
TTTTATTGCCAGCTTTGTCAAAGATTAGATGACTGGAGCTGTGTGGGTTGATCTCAGGTCCTTAATTTCACTGGTCTATAGGCTTGTTCAGTAC
TTTGCTATGATATCAATAGCAAAAGTAAATTCTATTAGTGTTTATGAAGAGTGAGTGTTTATGAAGAGTGAGTGTTTGCAATATTCCTTAATGG
TAACAGCATGAATAAGATTCCGATGTCTATATCTGTGGTTTTCAACTATCTTAATCGACGGCACTTAAATGATCCTTTGCTTCCCATTGTAATA
AAACATATCTAAAATGTACAGATGAGTTTGGTTTTGTTTATGTGGGATCCAACTCCTGACTTTGTGTGCTCAGCTGACGTGTCTGTAACGGAAT
GTTCTGCCAGTCTCCAGTGCTGTCTACCAGGACCAGCTAGCCACCTAATGCTGTCTGTAATTTTAACTTCATCTTCTCACAGGCTGAGTATAAA
TGAGGAGACACAGTAGGAGATATACGGAGCAAAGAGGCTTTTAAAGGTCTTAGGATTCTTCCAGAATCACTATTCAGGATGGTCTTCCTTAAGA
ATGGCAAAACCCTGCATGTTTATCATTTGTATGTGGACAGTTCAAAGTTCAGGAGGCCTCTTGTGGATGTTTCTTGTCTTCGGAGTATTAAATA
ATACTTAACTGTCTTCTGTTCTCATCATCGAATGAATATGACTTTGTTCTTATTTCCTAGGACTATGCTGTCAGTGATTATGAATAAGATCATT
AATGTGTATTCGTTACTTCAGTTTCTTGTGTATTGTGTACCAAAAAGAAAGAACAACAACCCAAAAAGTTGGTTAGAATTAGAGACTACTGCCT
TGTCATAAAGATGTACATGCTATATTTATACAACTTTCAGATGGAGCCCCTCTGTTGGCCCATGCTGACTACATATAACACATCAGGTTCGTCA
GCATCTTATTCCTGGGATACAACTACAACAACATGCTCAAAGAAAAAGAAACCTTGGTTTTTTTGTTTTTTTGGGTTTCTTTCTTTTTTTCATAA
AAGTGATTGAGTGAGTTGTATCATTAAGCAATGATGTCACTAGAACTCATAAGGGGAAATCAGAAAGGCGAACCTGGAAACGTCTCGAAGTAAA
AACCAGGAACCCCCAGCACAGTGAGTGCACGGACTCATTGCTGTCAGCTGAGGAATTGCTCTTGTGTCCCTGCTACTGGAGCTCTGACTTGGTG
ATGTAAGATGGCCATCCCCCTCACCACTCATCCATCAGCAGCACTTTTAAATTTACCTTGGAAACAAAAGAGCAAACTGAAGTACAGTGCGTGT
CATATGATGAGTTCAACTACCTCTTCGAAAGGCAACATCAGAGAGTGAGATCAACAACTAGACTAAGAAGGAGAAGTCACTGTTGTTGACACAA
GCTATTAATTTACTGCTCTGAAATGATCGTTAACTGTTTTGCTCCAAGAGAGAGAAATCTGTTCAAGGGACAGAGAGAAATATTGTTTAGATGG
TCCCTAATGAGACAGAAGTAGTAGGGAAATAGAAATGGATTTCCCCACTAGCACTGCTCCCTAAACAGGCTCCCTTATTAACCAGCATAAAGGA
TGGAAACATTTTGGCTACATAACCCTACATAATCCTAACCCTTGGATACTAAGACGAGAAAGTATTTACTCTCTGATACTTCCAGGTAAAGAGG
GGATGTTCTCAGTTCAGATCACCAGAACCATAACGGTTCTCTTAGTTAATTAGAAGAGTATGTTCTCTCCTGGTGTACGGCATTTAGTGACTTC
CAACTTTTAAAAATGTAACTTTTTATAAACCTCCTCGCGAGGATTTAAAGAACAGGACACAGGTGACATTTAAGAATGATTTTAATACTGCAAT
CAATGAGGAATTAATTTTCTTCGAGGTGAGAGTTTCCTGCGTCTGGAAACGGAATCTAGTCCTTCACACCCACTGAAGCTTGCACTGGAGCACAG
ACCTGTAGTCTCAGCCTCACATATTTAAAAAAAAAAAAAAACAATTCCGGATTTTATGTGGAGGTCCTTGATCCACTTGGACTTAAGCTTTGTA
CAAAGAAATAAGAATGGATTGATTTGCATTCTTCTACATGCTAACCACCAGTTGAAAATGCTATCTTTTTTTCCACTGGATAGTTTTAGCTTCT
TTGTCAAAGATCACGTGACCAAAGTGTGTGGGTTCATTTTGGGGTCTTCAATTCTATTCCATTGATCTACCTGCCTATCTCTGCACCAGTACCA
TGCAGTTTTTATCACTATTGCTCTGTAATACAGCTTAAGGTCAGGGATGGTGATTCCCCAGAAGTTTTTTATTGTTGAGAATAGTTTTGCTA
TCCTGGGTTTTTTGTTATTCCAATTAATTTGCAAATTGCTCTGTCTAACTCTATGAAGAATTGAGTTAGAATTTTAATGTGTGAGTCTCAGCCT
CACAAATTTTTTAAAAAACAATTCCTAGAGTTTTCTAGAATATATATATATATTTATCACTTAGATGCTAGGTTTTTTTCTTTTTTTTTTCTT
TTTTTTATTAGATTTATTTCATTTACATTTCCAATGCTATCCCAAAAGTCCCCCACCCGCTCCCCCACCCACTTCCACTTCTTGGCCC
TGGCAAGTCTGTTTTGTTCTTTCTGGTTTTTCTGCTCTCTTCATATTAGTAGCATGGCCCTGGTTTGCGAATGCTCCACACTTGACCTGAGAAG
TGGACTTACACTGGTCTCTTAGCTAAAATAAACAGAAAGCCATTCCGTTCGGGTCCACTGCTGGTGGTCACCTCATTACCATGCCCAAACCATG
GCCACTCCAGTTAAGATGATCACTGGCCAACTTCCAAAGAACCACATTTGTGCTGCAGTTATTCATTGGACTGGAACAACCTCCTCCCCGCCCC

SAGRES DISCOVERY 02-30

ACCCCCACCCCCACCTCTCTCTCTCTCTCTCTCTCTCTACCTCTCTCTCTCTCTCTCTGATTTTAAATTGTTTGTATAGCTACTTTCTTGCTTA
CAAAATCCAACTCTGAATTGTAATATTCCATGTTGGTCAATCAAGGCTCCCTGTTTTGTTTGTTTGTTTGTTTGTTTTATATCATCAGTAGTAC
TCTCTATTTATTTTATATCATTCTCAAAAATATTTAAAGTAACTCGCTTCCAATATGTCTGTAATAACCAATACCAGAACTGTAAATAGGTTAT
GACAATAAGAAAACATATAACCCTTTTGGTATTTCCCTGTTACAGAGCACATACATCCCTCCATTAGAGTCACTACCCTTTGAGAATACCAACC
TTTCTAGATGCTCCTGGTAAAGCTAGCATGTGGGAAACATTGCTCAAAAATGCCAGGGTACCTCTGATAAAACACAGGCTGGTAAGACTTTCTT
GAGTAGCAGTGTGATAGTCTACCTGTGTTCTCAACTTTGGTTTCCAAAGAAATTCCCATCATAATCTAGTGAAACTCCTAGCAGTGGAGGGTAT
GGAGCCTGAAGTTGCCTCTTCCTCTAGCCAGGTAGAACTCCCAGTGAAGGGATTAGGATAACCCACCCACAAAACCTTGGGCCCAAAATTTATC
CTGCCTATAAGAAGTGCAGGGACAAAGATGGAGCAGAGACTGAGGGAATTCTCAACCAACGACTGGCTGGCTTGAAATCCATTCCGTGGGCAAA
AACCAATCCCTGATACTACTAATGGTCAGAACCTGTTATGCTTGCAGACAGGAACCTAGCATGGCTGTCCTCTGAAAGGCTCCACCTAGTGCTG
ACTGAAACGGATGCAGAGACCCAGAGCCAAAAGTTAGAACTGAGGAATCTTATGGAAGAGTTGGGGGAGAAACTAAGGGCCTCGAAGGGAATAG
GAACTCCACAGGAAGACAACAGAGTCAACTAACCTGGACCCTCAGGGGCTCCCAGAGAATTAATCACCAACCAATGAGCAAGCTTGGGTTGCAC
CTAGGTCCCCTGAACATCCTTAGCAGGTGTGCAGCTTGGTCTTCATGAGAGTCTTCCATCAACTAAAACAGGGGCTGTCTTTGTCTCTGTTGCC
TATCTGTTGATCCTGTTTCCCTAGCTGGCTGCCTTGTATGGCCTCATTGGAGGAGAGAATGTGCCTTGTCCTGAAATGGTTTGATGTGTCAGGT
GGGCCTCACTGTTCTCAGAGGAGAAGGGGACAGAGGAAGGAGGGGAGGAGCTGTGTGAGGAAGGTCAGGGAGAAAGGGCTGGGATCAGAATGTA
AAGGGAATAAATAAATAAATTAGTGGAAAAATGTTTATCAAGAATAGTGTACACAGCCACAATTAAAAAAAAAAAGAGCCATGAATTTAAAAAA
GCAATGGGGTTATGTGATAGGGATTGAAGGAAGGAAAAGGGAGGAAGAAATGTAATCATAGTATAATTATAAAATGCTCTAAAATTTATTTAAA
TGTAAAAAAAACAGTAGGGGAAATCAAAAGTGTCAAAAGCAGAAGGAGAGATGGGCATGTTGTCATGAATCCATACAAAGAATAGGAGACATAT
GAATTCAAGAATTTAGGTTGGATGTGAGTAGTTGGAAAGAACCATGAAATTTCCCCAGCAGATTATTGCAAAAATATCCAAACATTGGAGCAAA
AGTTCTAAGTGCAGATTAAATTGTAAGTTTCTCCAATATTCTAGAACCAGAGTATTCCAAATACTGCCTTCTTATGAGTTCTGTTTATCCAACC
CAAGTAAGATCCGTGCATCTTTGCAAAGTTCTTGTCACATCTATAGTGACAATGAGCATACTTTTATCAGAATGGCCCTTATCTTCCTGGGTTG
CCATAATGATTAGAAAGTTATTCTGCTCAGTTAAAAATTTATTCTAGTTCTGGCCAGTAACAGAAAAGTAGAAAGTCCAGCAAGATGTTTCATT
AAAGTTTACTCAACCCAAGTTGGCTGCCACATAATTTCCACTGGTTTGAGAAGACAGTAATTTGGGTGGATCCTTGAAAGCTCAAATTTTGGAT
AATTAATTCTCAGGGTGTCTGTGTTGGAAAGCAAAGGGTAGAGTCTAACAAGAAGCAACTAGGTCATCACTCATGAAAGCTTTCTTAGAAAAGC
AAGTTCTGCCTGCATTATTGTCCACTCTCTGGTGTGAGCCCTCTCCTCTTTCTTGTTTTCTCTGATATGCAGTAAGTTGAACTTCCTCTTTCTA
CCTTTGGGTGATAAAGCCATAGGGCTCTCACCAGCTGTGAGAAAGAGTATTTTATCCTTGGACTTCCCAGTCTCTAGAACTATAAAATATAAGG
CAGGGGGTCCACTCTGTTCTCTCAGGCCTTTGAATATATTTTCTTGGTGGCCATGGCCATTTTGAATGAACTCAGGACAACACATAGAGTTCTT
GAGAAGAACATGTTGTCTTCCTACCTTTGGCTCCCCCTTGTCTTCTATGTTTTCTTCATCTTTTCCTTTTCCTCTGACAAGTTGCATCTAGCTC
TCATAATTCTTTAATATAACATTTTAATTTTAAAAACTGTTTGGAAGAACTCATACATTAGTCCTGTATTTACATCTCCTTTCTCTCCCTCAAT
CCTTCCTCCATCTGAGGTCCATTACCTCTTCTTCTATAATTATAGTTACACAAAATTGTGTTTGTATACAACCTCCTGAGTTCGTTTAGTGTTT
CTTTTATGTACATATGTTTAGGTCTTGGTAGTTGGGATTGGATAACCTATTACAGAACACCTTGCTGGGGAAGTCTGACTTTCCCTACACAGCC
ATTGACTGTGTATAGTTCTTCATCTAGAGATGGAGCCTTGTGAAATTTTTCCTACCCACATTGGCATGTAGACTGACCTTGTCATTATCTAGAC
CTTATTTAGATAGCCACACTGTTGATGTTTCATGAGAGCAGCATCCCTGGCATGTCTAGAAGATACTATCTAGCAGCAGGTATTTTGGTCTTCT
GGCTCATACAATCATTCCATCTCATCTGCAATAATCAAACCTCAGGTCTAAAGATTGTATTGTAGATGTGCCAGTTGGGGCTGAACACCTCACA
GTCACTCATCACTGAATTTTGACCAACTGTGGATCCCTGTAATAGCCTCTTGGATGGCATCTTTGATGAGGGTTGAGAGCTAGCTACACTTGTC
TGTGAGTATAAAACAACACAAACCATTGTCATGACCCTTGGTTGCCTTGATTGCCTCCAAGAACTTGAAGGTAAGACCCTACTTCTTAAGTCCA
AACATACTTCAGATGAGGATATGGTGGCATCAAGCTGGGACTGACCTGAATGCCCCATTTCTGAGGACAAACTCTCATAGTACTAGAAGTAATA
TGCAAATTGCTAAGGAAGAAAAGAAATAAATATTCCTTCCCAGCTAGAAGGCCTATAAACCACAGCAATGACCAGCCTGCCAAGGGACCTACAG
TGGGGTAATAGTGAAACTATTATCTTGGAGTCATCAACAGCCATCTAATTAGACTTAAAGTCCACTTACTAGAAGGAAACTCATACCTGATACT
GGAAGCCTAATGAACACATGGCTAGACCTCATAAGAGAACCTACTATGATTTTTTTCTAAATCAATAAATTATATAATTATTTTCTAAGTGAA
TAATTACTTTATTAGTTCTTTAAGAATATCAAACATGCACACCATATATCATGTCATTCCTCCCTCTTCCCCTTAACACTGTGGTTCTCAACCT
GAGGGTCAAATGACTCTTTCAAAGGGGTCACCTAAGACCACTGGAAAATGTGACTATTTACTGTATGAACCATAACAGAAGCAAAATTACAATT
GTTAAGTAACAACAGAAATAACTTTATGATTGGGGGTCACAACAACAGGAGGAATTGTTTTAAGGTTCACAGCATTAGGAAGGTTGAGACCCAC
TGTCTTAACCCTCACAGTTCTACTCATCCACTCCCCATCCACTTTCAACTTCAAGTTCACCTTTTACTTTTATAACCCAACTAATGCAATTTCT
GCCGCCCATGTACTCAAGGGGAGAGACCATACACTGAAGCATGCTCCACCTATCAAAGGCCACACCTTTAATAAAAACCGGCTGTCCTTGACCC
CGCAGCCAGAAACTATGAATAGCTCTTCAGGCTGTGATGGGAGTTCATGAACCCTGCTCTTTGCTGGAATGCTGACCAGCTGGATCTTAAAGCA
CATCTCTGAGCTGCTGGGAGCTCAGGAGTGGGGTGGTCATGTCTTCTCCAGAAGGCACTGTTTTTCTCTGGTCTTCCTTGACCTCTGGCCCTTA
CAATCCTTCTTTGCTGGTTCCTGGAACTGGGAGAAGCATATAGCTGCTGCTTTTAAAACTCTAAAAGGCAAGAAAATTCAGTTAAAAACAATGG
AGAACTTTGGTTGAAGCCAGGATAGGTTTATTTCTGCCTCTACAGAATCATAAAACATCATACACCTGACAGGAGTGGGAATGTGTAATTGAAG
ACGGCGAGTAACTATTTATCATAAGCTAAAATTTAATATAAAGCTACTCAATGCTTTAATATCCCATCCTAAAGGGCTAAGCACTATGTAGTGC
TAGATCCTTGAGTAGAGAACAATAAACAGAGAAGACAGTTGACGTACATGAGAATCCTCAGATATTACCCAAATACGTTTCAGATAATCAATAA
CTGTTGGCTGAGTGAATATGTACATGAACAAATGAGCAACCTACTAGAGCTCATTTTCCATGATGACTTTTTACAGTTTTTCTCCAATATGTTA
CGTACATTTTAATCATTTTTTAAAATTAACTCTCTATTAAGAAGCTTGGTACTTATGAAGATTAGACAAAATCGTGTGTTCAAGTGCTCATGCT
CAGAAATAGCGTCTGGCAGTCAACAAATGTTAACTAGTGATTTTCTTCTTTTTTCTAGTTATTCTTTAAAAATAGGATTTATGCTGATGCCCTCA
GGCTCACTAATCTCAAAGTCATTTCCCTAATCCACTAATGAAAAGAGATCTGGAGTTGCAATCAGTTCCTACTCTGTGCCTTTAACTAGGCCAC
CCACACCAACCCCTTGGTGCTGGCACCAATAAAATATATGCAAAATCCTAAATATTTTTTCACTTCTTCCTCTGTACTGTTTAGTTAGCCCCAA
ACTTTGGGCCAAATCTACCATGTCCAGTCAGCACTTGTCTACTCCCTGTTGGACCTGATGTCTGAACTGAATTTACCTCATTTGATTCTGTTCT
TTCTCCTTCTCTCTTAATCAGCCCAGTGAAGGTTTTGTAATTTCCTTTTGGTTCCAACAAGGCTCACTCCATTAACCCAAGTTTTGGGATTTGC
CTCTGCCACATATGGATCAAAATTTCCAAACTGCAGTTGGCATGAGTGTTGAAACTTATCCCTCAAAACTAGGAGATAGGTCTGATGTTCTTTG
TGTTTCTGTATTTCAGGAACAGAAGGGGGGAAAAAGAATTTCACCAAGCTCAGATTTCCTTCTTTTATTTCTCTGTTAGTGCTCTATGTGACTG
GCTGCCCCACTGAATCTGTTGGCTCTGCCTCAGTCTGTGGTTCTCAGACCCAGCTACTCACCAAGATTATGCCACAAATGATTTCTTGGATGCA
TGTATGTGTTCTTCCTTCAAGGGCTTGTGTTTTCAGGTTGCTATGAGTGACTAGACCTGTTGCCAGAATGCATGAATCCTCTCTGATTTTCTGA
GTATATCCGAAAATTTATTGAGCTAATATCAATAGATAAGGCACAGCTTTGGTAAATTCATCAGTTACAATGACACCAGCAGCTCTGGATAGAC
AAGAAATACTTGCTGTCTTTTTCACCTCTGACTAGTGGGAGCTTGCCATGCAGAATCTCGTCTGTTAGTTACATAAAGACCAAAACTGTGAGCT
CTGTGCTCCTGAAAAGATAAAATTCTGGACTTGCTTGCTTCATGACACACTATGCAGACCGTGTCTCCTTTTATATTGAGAGGCAAAATATTGA
ACATAGGACTCCATGTGGAACCTAATAAAGGCACTAACAAAATTACACTTTCCACTCTGTGTTTTATGCCATACTCCTAACATTGTGGCCAAAC
TGGTCTTCAACGCTTTTACTCAATTTACTCAAGTGTGTGGGTGGGGGTGGGGGGGGTCATTGTTTCCTGAATGGTTGAATTTTAAAAACAAATT
TACTCAATGTATTTTATCATATTTCTCCCTCCCCATTCCTCCCAATAACCCTCTTTCCTAACCAACCTACTTCACTTTTTCTTGCTTAAAAAA
AAAAAAAAAAAGGTACATTTTGTGTGGTCCACCTCTTCCTGAGCATGGGGCCTTCCCTGGACTGTGGTCGATATGCCCAGTGTCATTGCATTCA
TCGAAAAGAAGTGATGTTTCCTTTCCCTCAATGACTGTCATTTGCAAATATTGTTTTCGTGTGGGTGGTACACTGTACCCATTTTTCTTTCCCC
ATACACTGATTTTGTCCTGTTCGAACTTGAGGTCTTGTGCGTGCTAGCACCATCTCTGTGAAGCCATGAGCATCAGTCCTGTTATGTCTGAG
AAACGCTGTTTCCTTGAAGTCGCCCACCACCTCTGGCTTTTAAATTCTGCCTCTACATCAATTCCTGAGCCTTGAGGAGAGAGGTGTTATGCAG
AGATTCCATTTAGGACTGAGTGCTTTAATATTTCTCACTTTCTGCAGGTTGTCCACTTGCGGGTCTCTGAGTTAATTGCCATCTACTGAAAGAA
GTTCTCTGATGAGAGTTCTGTAATACAGTGAGCTGTGGATATAACAGTCATTTATTTTGTTAGAGGAGTTATTCTGTTGCTATGTTCATTTAGG

CTTTCCCCTAGGCCCATCATCTAGTCACAGCTTTTGAACCTCATTAACAGTGCTGACATGTGTTCCATCTCATAGAGTAACCCAGAAACCTTAC
CAAACGAGTAGTTGGTTACGCCAATAGCACCTATGCTACTATTGCATCACTGAGTGTATCTTGAAGACAGATTGCTACTACAGCTCTCAGGGAA
CATAGCTGGATGAGACTTAAAACTGCTTTTCTTCTCCAGTAGCTTGTATTATATCATCACCCAGCACGATGAATGCTAGTCGTAATAGGTCAAA
CTTCTAGTTGAGTACCAGGTTGGTTTCTCCATGTTCAATACCATAAGTGTGTGGTGTCTTCAGTAATAATCTCTTAGCATCATATTGTGGTAGG
TACTCAATATCATTGGCAATACTTTGTAATATTTAAGGGTGGTCTGTGGAACTGTTTTTGCCAATGACTCAAAAAGATATAACCACTCCCAGGT
ATAGGTTTTATGGTAACATATGATGTCCAGTTGAGACATTGTCTCCCCCATCCTATGATAACTCCATTTAAATTCCATTTATATACGCATATAT
TTTAGGAAGCATCTACAGGAATAGGCTTCTGTATGGCTTTTCAAAAGACCTTTAGGGTAAGTTGTCCCTTCCCATGGTCCCTTCTCTACTCTGT
CCACCTATCACCCTCTCCATTTAATCCTCCTATTCTAATTTCCCTTTTATTGTGTGGTAACAATATAGTTATTTCCCATTCATGGTCCCTAGAA
GATCACCTCCTCCTTCATCCTAGCTCTCTACTTTCTGTTTAACCTTGGTTATTCTGATATTGAAACACATATATCTAAAAGCTAACACTGGCAT
ATGAGGGAAAACATTCAATATTTGTCTTTCTGAGTCTCAGTTCCATCACTCTGGGTGATTGTTTCTAGGGCCATCCATTTGCCTGCAGATTTAA
TAATTTCATTTTTCTTGAAAGCCAGATAAAATTTTATTGTATAAATGTACCTCATTTACATTATCCAATTTACCAGACGGTAGACTTCAAGGCC
TTTTCCAATTTCTGGCCATTATGAATAGAACAGCTATGAGCAGGGGGCCCTTTTGTATATGAACAAGAGTTTTATAGATGGATCTTGAGATAGA
TCAATTTTTGGCTTTTGAAGGAACTTCCGTACTGACTTCCATGGTGGCTATATAAATTTGCACTCCTTCCACAATGAATAAGTGTTCTTCTTTC
TCCACATCCTTGCCAGCATCTGCTGCCGTTTGTTTTATTTATCTTGCCCATCTTGACTGGAATAAGATGAATTCTCAAAGTAGTTTTTATCTGC
ATTTCTCTAGTGATTAAATATATTGGAAAATCTTGTTTCTCACTCAGTTGTGTATTATCTTTTGAGAACTCTACTTCTGTATCCCATGTTTAA
TTGGGATATTTGCTTTATTAATGTTGAGGGTTTTTTTTTTTTTACTTCTTTGTATATTGTAGATACTTATCCTCTGTAAGATAGATAATTAGTA
AAGATTTTTTCCTATTCTGTAGCTGATGCTTTACTCAAATAATGTTGTCTAGCATGTAGAAACTTTTTAACTTCATGAGGTTCCACCTATTAAC
TGTTGGTTTTAAACCTTGTGCTATCCAGATCCAGGGCCAGAAAGTCTTTTCCTGTGTCAATGAGTTCAAGCCTATTCCTTAAGTTCTCTTCTGT
CATTTTCACTGTATTTTGTCTTATGTTGACGCCTTTGGTCCATTTGGAGCTGAGTTTTGTGCAGAGCAATAGATATAGATATAGGTCTGTTTTT
TTTTCTTCAGCATGTAGTTTGTATGCAGTTTGACTAGATGCTGTCTTTTTCCAGTGTGTGTTTTTAGGCTTCTTTGTAAAAAAAAAAAAATAAG
AAGAAAGAGGGAAAAGAAAAAGAAAAGCTTTTCATGGTGTGTATATTTATTCGTGCATTTTCAATGTCTCTGATTTTATGCCAATGCTATGCTA
TTTTTATTGCTGTAGTTCTGTAATTAATATGAAATCTAGAGAACCTACAAAAAATGAACATATATGTGCATGACATACCAAACTTAAATCAAGA
TTAATAAAACAACTTAAACAGACTCATAACCCTTAGTGAAATGCAAGAGTAATTAAAAATCTCCCACGTAAATGAACTCCAATGCCAAATGGAT
TCAGTGTAGAATTCTACCAGACCTTCAATGAAGAACTAACACCAATACTCCTCAAATTATTCCATGAAACAGAAACTGAGGGAAATTTCTCAAT
GCTGTTTCTATCAGGATCATACAGTCACAGATAAGCTTGTCTTTTAAGAGAGAGCAATGAATGAGACTATGCAGTGTTATTGTGGGCAGGGCTG
AGAAATAAGAAATCTGTCACAACTCATCAACGTGAAAAAGAAATGAACAAGAATGAATTTCTCTGGGGCTCAGTGAAAGGCTGAACCATGGAGG
AATAATATGGCTGGAGAGACAGACCACCACTAAAACTAAGTCACAGGAAAGGTAGTTGTGGAAGGAAAGAGGGCCCTTGCATGCCCATTTCCCA
TTCTCTACCTCATGCCCCATGCCTCTACCTCTGCCTCCATCTCCAGAAGGTTGATTCTTCCAGAAGTCACTCTTCTGAAAGGCAAGAGAGCCTA
GCAGTCAGAACCATCAAACCCAGAACAGAAAAAGAATAAGCATGGAATCAAGGATTGACCGGGATTAAGTGGCATGCCAGTCATCTGATACATA
TTGAATGAATAATAGAGGTGCAAATGATGAGAGCCCAAGACCCAGCATGCAGTAAAGGCTTTAGCGGCTGCTGAAACTACAATTCCCTTGCTGT
CTCTGTGCTCCGAGTCTCTCGTCAGTACTGTGTGGTATTTCAGACTGTCCACTTCAGTGCAGCCTCTGACCTGTGTCTTGTTGCCTCTGTGACT
TTCTCCACCCTCAGCTAATACCTCTTCATTTCCAACAAGAATAGAGAGTGTTGATGGGAACAGGGAGGAGCATGGGTTGTTCCGAACAGAGTTA
GGACATTATCAAAGAGAGCTCAAATAATTTCCAGAACCTAAAACACATTCTAGAATATTTAAGAGATTCTTTTTCTTTATCTTTTTTCTTTTTT
AAAGAAAATTTGGTGCCACTGCACCCTATGGAGAAAATTTGGTGACTTACTTCTAGGAAGCTTGCCCCAGACATCTGTGTCATAAGCTGTGAGT
TCACCAGACGCCTCGTTACCAAACGTCTTGTGGATGAACATCTTTTCTATTCAAATAGCTTTCATCCTATTATGGGCTTTGATTGAAGACACAA
TCCAGCTATCTAGTCAGAGCAGCAATGTTGACACTGCAGTGACTGTGCATGAGTGTTTCAGAGTTATGAGGACACTGGTGGCCACCATGGGCCT
CCTGCTGGTCACCTTCTCCTCCTTAGCTGCATTAGCAAGAACATCCAGCACTAGCTTCCTCAAGGGATCATTCCTAGTACTCTGGAATCTGAAT
GCTAAGAAATTATTTGAAAGCCTTTTTGGCTGGTTCCACTAGCCAGTTGGCTCTCAGATGGAATTGTGAAACTAAATTGGACAATAGCTATGAA
TTTATGTTCATAAATAAAAGACATTTTAGGGGAGGGGATGTCTTTGCTTCCTTTTTTGCGTGTGTATGTCATCCATGTGCATATATGTGTATATG
GCCCTTGTTTATGCATGTAGAGGCTAAAGATTNNNNNNNNNNNNNNNNNNTTTAAGTAAATCCTCCTAATCTAGCTATATTTGGCTGGCCTA
GGTGGCCAGCTTGCTACAGGGGTCCTGTCTCTACAGCCCATGTTTGCTGGGATCTGGGATCATAGGTAGGCCACCATGGTTCCCCAGGATGTAC
ATGAGTGCTGGAGATCTGAAATCCAGTCTCACAGTCACATGGCAGGTGCTTTATCCACTAAACAGTCATCCTAGCCCTAAAAACCAGGTTTATA
AGGCAGTTTATGCCATATAGACACCTGGTTTGCATTCAAATGTTGAAAGAGTTCCTTTCTATCTAAGATCAGCATCTCCAACTCTTATCTACTT
TGCATCTCTTAAACCCTAACCAATGGGAAACAAGAGTCTGGAATTTCATCCAAAAGCCTAGAGTCAGAAATGCTAGATGGGATAAGATTGAGGC
TGTGACACCTGGTGTAAGTACATCCCAGAAGACAAAAGCCCTCATCCGACATTTTACTGAGTCTTCCACTTCTCACTCTAAAAAGCCTTCTCCT
GCCAAAGGATGTTTGAACCACTGATGAAGGATCTAACTTGAGCTTCACATAAAAGTGAGTCTCACTCAGACAAGTTCATATCTGTATTCCTCAG
TAAATCCCACCTAGGGCCTCCAATATATTCCTTATACTTTAATTCCAGTTGGGACAGCTGGTGAAAGTGATCTATGCACTATAGATTAGATACT
GAATTAATATTAATTTCATGACACACACACATATATACATATATATATTACATATATATGTCAATGGTTTTGTATACACACACAAACACACA
CACACACACACACACATATATATGATGAATGCCCCATTCTTAGGAGAATAAACTCAAATAATTAGGGACAAAAAAGAGGCATCGTAACTATGAC
TTACTCTCTGATGACCTGGGGAAAATGTAATTTTTGTTACATAAAAGATATAGGATGGTGAATAACATATTAATAATTCGTGTGTTTGTGTGCA
ATACGTGGGATTTATTTTTACAACTTTTTTTTTCCAAGATTGACATGACTTCATAATGAAGTTGCAAAAACAAGTAAGTCCAGCTTTTCTAATGC
TCATCTATGCTCTGCAACACAGGAAGCTAGAAATGCTCTCTCCTGATTTGTCCTGTTTGAGTTAAAATGAGTCATCTTCTCTTTCAGCTAAAGA
ACGCTTCTCTGTGGAGGTGAGCATCGCAGATGTTTTGCACATGAACCCTGAAGGTAAGGAGGGTTTTACCGAGTGCCCACATAATTGCCTCCCA
TTGTCCCTCTCATACAGACAAGGGCAGGGACGTGGCTATCTTGATTCTCAAAGAGCATCATCTCAAACCATCAATACTCACACAGAGCAGTCCA
CTATCCTCAAAAGGGGGGGGGGGATCTTCAATCTCTGTTTCAGAAAACCTGATGCTCGTCTCCTTTTCTTGTTTTTCTCAAAAGCTTTTCATGG
TTGAAATCCCCTAGCTGTGCAATTAGATTTTTATTTCCTCTTTATACTTGTCTGTACTTGGGAGGATTTTTTTGACAATGTCTGGGTTACTTTT
ATAATCAGAAAGAGAAAGATTGCATCTTCTTTTATTTTTTCAACCAGCTCAATACCAATTCTGCTATCACTTCCTGAGACATCTCTCGGCCTCT
TTAATATTGTCACTACTTGGGCCTGATCCGTGCCAGCCTATATGACAATACTTATATGTGGTGGGCTCTCAGTTTTCCTCACCTACTAATACCA
AGGGAGCCCTGGGAGCCAGAACCTGCCAGCAAATAGGTCATGGAGAAATCACCCACACAAAGATTGCCTCTGCATATACCACAGTCAAAGATCT
AGGCTACTTAAGAAGATAGCAGATTGCTTTTGGTCTTTGAAGACCTTTCCTTCCTGCTCTTCAAGAGAAAGTGAAAAACTCATTAAGATAGAAAA
CTGACTATTATTATTAGCTGAAGAAAAATCTAAGTGAAACGTTCCTAAGATTTCTTTGAGCCACCTTGTGATGGATGAATAGTGATTCTCCTTT
AAGGGCCATCTTTCACTCCAGTGAAGGCTGGCCTGTCCCATGGATCAAAGATGCTCAAAGATTGTCAAGACCTTCTGAGTCAAAGATCTTTTTG
TCACAAAGACTGCTCTCTGGTAGTATATTCAGCAACATTGGAATAGAATACCACTCCAAACCCAGCTTCAACAACCAACAGTGTCTAGATGTTG
CTTAAGGTCCTGGGAAGGACAAAACCACCCACCCTGGGTAGTGACAGTAATGTGTTCAGACACTGCCTGATGTCTCCTAAGTGAAACAAAAATC
CCTTCTATCAAAAAAGCACTTCTCTAAGTTACCTAAGCCCTGCCAAGACCTTCTGTTTTTTTCATTTAAGTGGATTGAAATTCATAGTGTACAG
AGTGGAAACAGGAAATGTCTACAAAAAGAATGCCATAAACACTTTGGGTATAAGAAATCTCTGTGGCATTAATGTCATTTTCTAGACAATCCAT
TAACATAAGGACTGGTGCGTCAATCCAGCAAGAGTTCTATGCATTTCTTCCTACTTTCTTGGCTTCTAACCCTTGAGTTCACATGGTACTTGAA
GGATAGAGACAGATTGAGAGTCAAAACATTATGCTAAGTTCTTTAGTAATCTTTTGCCATGTGGATTAGGAAGCATAGACAACTGGAGTCTGAA
CTATGTTGCAAACACAAGAGAAATTTGCCTGCAAATTACTTTTTTTTTTACTTTTATGTGTACTTATTTATTAACCACATGTTTGTGTAAAAAC
GTTACCTCTGACTGACTTTTCAAATCTTTTAAACATCGAGGCATAGATCCTTAACTAAAATTCATCTTTTCCACTCCAAACAGTACACAGCAGG
TGAAGTTTTGGTAACAGAGAGATGTTCCAGTGGTTGGAACAGGAGATTGAGGCTCCAATATCACATCCCAGTACACACACATAGATATCTACTG
TGCTTGCTCATCTCTAAGTACCCTTGGGGCCTTTCATCCCTCTGGTTGACCTTCTTCCCTAGCATCTACCCTAGTCTCATGTCCTCCACCCTTT
ACCCAACCTGGGATGTGGTATGCAAAGATTATACTCATGCCAGTGGATATCTGTGAAAACACAGGCAGAAACTTGAAGGCAGTTAAGACAAGTC

AAGACACACAGCAACACAGCTCTTCTTCAACATGAGAAGAACATCTAGAAACAAATGTTNNN

GAACCTATCTTTGCTGCTTCTAAAAATACTCATATTTTCTAGTAGCCAGAGTTCTGGATGGAAAGAGAGACATCATTTTGGGCAAAGACTTATT
TTAACAGTCTATATGGTAGGATTAATAAGATCCCAATGTTAAGTATCATCTACCATTGCTCTAGAAATCAATAGAGCTTTGTGGTGAATTAAAT
ACAAAAGGAGGGGCTGACTATACAACTGTTTGGAACCATAGTAGGACGCAGAGATTTTAGGGAAGTGTGAGGGAAAATAAGGAGGGGGGGGGC
GCAAATATTGCCACTGTTGGAAGAACAAGACAAGGAATTTTGCCAAGTATCTAACGTGTGGTGGCCAGAGAACCCTTCAGCTTTGTCAAACTAC
AAAATCCTTGCTCTTTTTAATGCTTGGAGTGACAAGGGTCTGAGTGTAGTTTCCAGATGGGTGCCTGGTGAGAACGAAGGCCACCTACTGGAAG
CTGTGACACTTCAATACTCACCCTTCATTCTGTTCATGTGTAAGCTCTACCATGGACTCAGAACAGTGGTGCTGAAGCTGGAAACCCTTCCCTT
GAACTGTGCAGGGTATAAACTGCCCATGACCTGCTTCTCTTCTCATTTTAATCTGATGGATACCCAGGTTCCCATGTGCTTGGCACATGAGCCT
ACAGTTTTAAAGAACAAGTGGGGAGTGTAATGCCATCTTTTAGACCATAAAGGGCATGCAGAGGGTTTTTTCCCAAACACCCAGGTATGTGTGAG
CCCTGCCACTTAAGGACACCTAAGAAAAGCATCTCAGGCTATTATAGTTTCAAATAAATTGACCATTGATAGAACTAAGAGTATCATCAAAGCG
ACCAATTTTTCTCCCAAATCACATTGGTTTGATAATATTAAATCAATTTCTGTTTCTAAAACTCAGCTGACAGCCTTTGGACTACACTGGTGCC
TGCCAGGCTATGGACTGAAATCCTTATGGGTGATTCCCAAGTAGAGTCTTTGTGGAAAACAGGAAAATTGAACTAACCTTTGAGTATTGACATC
CCAAACTATTATCCCTTTCATAGTTTCAGAGAGTAGTCGTTATAAGGCATGGTGCTGATTAGATGTTATGGAAACAGGCAGTCATTTTATTCTT
ATAAAGCAAAGAGTAACAATGATTTGCTGGGGATTGCCTGGTCATTGTTATGGTAGAAAAGTGTGTAGATGTTTACCTAGGCCTGTTCTACTTC
ATTGACCTGGGAAAACTACTAGTCAAATGGAAAGTGGGGCCCCGATTTGCTTGATAAATAGCAGTGTAATGGAGGACCTAAGAAATACAGAGAT
ACAGAGAAGTATTCCTTCCATAACTTAGAGCCACACTTGAGTTTTACGACATTAAGCATGCTCTGTTTTTTTTTCTAATTGATAGTTTCTTTTGA
CATGTTTTTATTTACTCTTTGAATTTTTCATATAATATATTTTGATCACATTCCCTCTCCCATATCCTCCCAACCAATCTATCTATCTATATAT
CTATCTATCTATCTACCTATCTACCTATCTACCTATCTATCCATCTATCCATCTATCTCTATCTCTATCTCTATCTCTATCTCTCTCAAAATAA
AAAATAAAAAAACAAAAATCAAATCCAGTTTTCCTTGGCCAACAACTCTTTGACAGGGGACCTGTTTTGTTGCTTTTACCTTACACCACTACTT
AAAGCTCAGCTAAGCAGCTCAACTCTCTGGAACACAAATGAGATCCAGAAAGCAAACCAAATAGACATTTTGATGAAGTACATGTAATGAAAGC
CATTTATCTATAAGACAGGTGGAAAATTCCTTTGGTCCTCCCTCACAACTTATTGTCATCATTTAAATGACTTCAACTTTCTAAATTTTTATTT
TCATGTTAGCTTTCCAACTTTGCAGATCAAAAGCAGCGATGGAATGAAATGGATCTGTTTAGGCCTACTAGAAGAGAGTTAGTAGCAAAAACAG
CTATTAACTATTAAATTAAAATTTTTAGGGAGCAAAAACAATGAAGGATAGAAAGGTCGGGAGAAGAAAAAAAGACAGCTAACAAGAAAATAGC
TAGGCACTGAGGATCCTTGTGTCCTAGGTATCTGATTTAAGGGTCTTTGGTCTGTATTTACTCTCGGTATAGCATCCTGTGACCATGCCACTCA
CTATAACTGATATGTTCACAAATGATATCAGTGTTCTGATTAAGAAGTCATAGAAGTAAATAATATTTACATTTGTATCCAATTCATTAAAATA
TTTTTTATCTGAGAACATGCTTTACATAGCTAGATACATAGCTACCCTGTGATGTGTTTTCATTGAAAATACACACATTTTTTAAAAATCATTTT
ATTTCATTTGAAGATTGTACACTCGAAGTTTTGTTTGCTGCTGAAATTCCACACATTCCTTCAATTTTCAATAATTATATTTCTTATGTAATTT
GGCTATTAGCCAGATGCCCTGGAGCCAAATCTCATTGTATGTTTTAGTACATCTGTTGGCGCCAAATCTCATTGTATGTTTTAGTACATTTGTT
GCTGAGTTCAGTTTAATGCACATGAAATGGTATTGGAGGAATGCACAAGACCTTAGTCACTTGAAGTGCATCTTAATAGGAAGAAAGAATTCCC
TGATTCAAGGGTACATGTTATTGCTCCTCTCCTTACCCCCGTGGATCTGAGACTGTGAGAAGGGGTGAAAATATTATGTTCTTTATGGTTTTCT
ATAAGTGAGTCAGTCCGAGTTTGTAACTTAGTGGTAGATTGCTCACTTCAAAATCCTGACGCTCTAGGTTCAAACCCTGGCACTACAAAGAAGG
GAGAAAATGGTAAAGCAACCAGTCATTCAGCAAGTGTTACTGCACCGGTGAATGTGTGCAAAGTGACAACGCGAATGGTATAGAAGCTGAACAA
AATGACTTTGATAATAGTGTTCACAGTGACACTGAATCAGCACACCAGACATCAAAGGTTTACTTACTCATAGGTACTACTTGATTGAATACTG
TAGTTATCACCCAAAGTAAGCAGTAATAGCCAGCCATTTCCAGATTATTCATAGATTAGTCAGGCTAAGTAAAACCAAGCATTTCCGATACTCA
GTCTCTAGCTACAAAGCTTACTAACTGGATTGTTACTTCTCAGCCCTATAAAGTTCAGTAGGTTCTGAGTGGAATTCTAGAGCTTCCCTTCTGT
TCCATGATCTCTTGGGTCCACAAACTACTACAGGCCAGGAGAGAGAAAGGAATGTGCAGACAAGGATGTGGAGGGGCAGAGTGTATTTATGGAA
AGAGCTTTAAAGGTCAAGACTAGACCAAAAAAAAAAAAAAAAAAATGTAGCCTTTCTCCCCATTCTCCAATGCCACAGCTCAATCATCTGACCCA
TGTAACCATAAAAGGAACAGTTAGAAGAACTTTAGCTGTAGAGAGAAAGGAAGAATAGACCCAAACTGTGGCAGGTTCTGGATCCTTTTCCTTC
TCTTGTGAGGGACTCTCAATATCCTCACTGAAGTGGTAAAGAAAAGTACAACTTAGAAAGAAGAGATAATTTTGACATATTCTTGGGGTGAATT
TCTTGTTGGACTTACTAGTTTTCTCAGATGTAGGTACAGCTCATCCTCAGTGCTCTAAAGATATTCCCATCAGACACCTGGCTATTTTCCCATT
GATGCTCAAAGGAGGCCATGGGTTACTCAAGGCCACACAGTCACTGTGAAAAGGGAAGAACTGGACCTCCCTCACACTCCTCAGGCTTAGAGAT
GAACCTGGACCAGATTTTCTCAAGTCTTTGGTTTCCTTTCAGTGCATTTTGGAGTTTTTGGATTCAAAAACTCCAAAAATCTCAAACAGGCAGC
CAGGGAGTCAGTAAACCGATAATTAATCTTTTTTATTTTCGTTTTCAATTTTCCATTTACTTCCAAGCTTGTTTCAAGAAATTAAGAAACACAC
AAAAATAGATAAGCTTGTTACCAACAGTAATTTGTGTGTGCTCATGTTTTAAAAGGAATCTAAGGTTCTTTTCTGTTTAATTAAACCGCATGCA
CACATACACATACAGCTCTGTAAAACAGAATTTTCTTCTAACAATCTGGCAAAACATATGTCTCCTCCTACTACAGTGGCCTCTTGGTAGTGAC
AGCTTGCCATAGAAACAAACTACAGTGAGATTTCTGTGACTTGAAACAACATTCATTTTTTTAAAAAAACTCTTTTTATAAGAGGCAGCAGGCT
GACTCTGGTGCTGCTGAGATTATCTGGGCTCCTCTGGGCTCTGGAGAACTTTTTGCCTTCTTGTTTTGCCACCCAATTGAGGATTTATTATCTT
ATACTAAATAGCTCCATAACTTAGAAAAGAAAACCTCAGCCACGTCCTGTGACTGTTTCTGGATGGATGGATGCAGCCAAAGTATCACCCAGTC
ACCACCACCTTTCAAATGGATGAGTCTAAAGTAACTGGATTGCAGTGTGTTCCCTTTCCAACATAATGACTCAGTATGCCTTATAATTATACAT
GCTTCCCCATGACTCGGAATAAGAAAATATTTGGGGACAATAATCCACTTAGCCTGTCCCACCACCACCTGACCTTCATTCATCGAAGTCTCAA
ATGTGGCATTTCTCAGAGAAAGCAGCCTCTCTTTCTCTTTTTCTCTGTTTACCTCTAAATGGAGCTCTCTAAATTCAGCTCCAATGTCAGTCAC
AGAATTACATTTTTCAAATGTCCCTTCCTGGGCCCTACATCCAGAGACATATGACATTAGGAGATAGTGTATACAGAAAGTCTCTAAAGACAA
GGCCCAGGGAATGTCTACTACTATAAAAGAAGAACTACTATTGGCCTCACACAGTACCCAGCATTAGAGCCACCTTTGGGAAGTTGGTTTGAGC
ATAGAGACCCTTATCAAAACAAGGGAAAACAGCCTTGGAGAAGTCACAGTCTGTGGTAGCAAGGTCACCTTACCTGTTCCCTGCTCTCATACCA
GGTACATTTTGTATGTCTAAGATGGGGCTCCTTAAAGGTAGGATCAGTGGTCCTCTGTAGATATATAAAGTAGAAAGCATGCGATAAATATACA
AATTCTGGTGTTCAACTCCTAAGATCTTCTTCACCCACTAGCTATGTGATCTTGGGCAGTTCATAGAACATGTCTGAGCTGCAGCACCCTTATC
TGTGAGATGAGAATAATAAGGGAGATAGGGTCCTAGTGGCCTTTAATTAATAAAGATACTGAGGAAGCCATATAAAGCACAAAGATTACAAGTT
CAAAGCTTGCCTTGGACACAGGGTAAGTTGGAGATCAACATAGTCAACTTGGCAGGACTATCTCAAATATAGTTGGAAAGTGGAGTGGAGTTAT
ACCTAGTAATAAAGGGCTTTCTTAGCATGTGAAGCCCTAGGTTAAAACCTTACTACCAGGGGGAGGAGGAAGAGAAAAAGAAGAAGGGGAAGGT
AGGGGAAGAGGTATAGGGAGAGAGAGGAGGAGCAGAAAAAAGAAGAGGAAGAGACAGAAAAGGAGGAAGGTAGGGTTGGGTTCAGACTCAACCC
CACTCTTGTATATTATGTATACATAACACATCTTCCTGTACACTTTAAATCATTCCAAGATTATTTATGATGCCTAATATAAGCTAAA
TGATACATTCAGTTATCATACTACCCTATTTAGAGAATGACAAAGAGTCATATTTGGTTACAATGCAAATGCTTTCCAAATGCATTCAGTCTGG
AGTTGATGAAACTACAGATGCAGAAGCTGTGGATGTGGAGCGCCCAACCATCTTCCGAAGCTCAGGGGACACAGTATAGGAATGGAAACTCTCC
CACACTGGGAGTGTGAATCGTGGTTTGAAAGCCACTGCAGCCTGTGGAGCTAGCTGTGAAACATTCTATCCAAAACATGTTGCCTTTGCACTGT
TATTTATTGATGGATGATCTCATGAGTAACTGGTTCCTCTGGACCTCAGGCCAACATGGATTTTCTAACATCTGTCCAAACTCTGCCCTGGACA
GGGAGAATTAACATTTACCCAATTCCTATTCTTTCCTTTAAGCCAAAAAAAAAAAGCTGATTAAAAACAAAGCTCTGCAGTAAAAAGAGGCAGC
AGGGACTCTAAGTTGAGTGAGTTAGTGTAATAGGAGATGGGTGTGATGCCTCCACCTTTGGGTAAGCATCTACATGTTAAAATCACCCTAGTGC
AGAAGTGAATACAGCACTGAACTGTAATTTGCTACATCTAGCTTTGAAGATAGAACTCCCTGGGACACTACTCTGATGTTGGACCAACCTGTGC
CAGCTCCCATTTGGACCGCACTGTCTCTGCTAGTTAACTCTACATCTTACAGAATGCAGCTGTCTGCATACACAGCACATGGCCGTACACAGCA
CAGCTTCCTCTCAGGAACCTCTTCAGTTTTTGAAACAGGAAGAGAATGGGGTATGCAAACTCAGAAGTGAATGTTTTAAAGTGTCTCCATAGCT
ATTGCTAGTAGCTTTCACACAACCATGATGATCTAGCTAAACCACTGAGCAGTTATCCAAATGGCAGCCAACTTAGGATGGTGCACAGGGAGGA
CAGATCTTCTGGAAATTTTAATTGAGGATAAATTACCACCCTGTGGTGTAAGCATCTTTGCGCTAGATTCATTTTAATAAAAGAAATGCAGATC
CCTTATTCCTAGCTGGAGTTATTGCTCTGAAAGCCAACGTACAACAATCTTAATCTTCAGCATGGTGTGAAACAGCTAATCCCTTCTGTTCTTC
TCTTCCCCCTGGGAAGATTATGTCTTTTGTTTTCAAAATTAAATGCTAGCATTCTGTATTGGAAAGAAAAGTCAGACTCCTGAGAATCAAGGGG

CACATGTGAGGTTCTTACCCAGTTATTTCACCCTCTGGCCATTTAGTACTGGGGGCAATTGAGGTGATCCAGTGAGCAGAGGAGCCCAAAGGAT
GTACCTAGCAGTGCATAACACTTAATAGATAAATTTATTTAATATTAGTTTACAAATTATGGAGGCTTTTTTACATTTGGGAGACAGAAATGTT
AGAAATGGATTTAGGTTAGTGGAAGAATGTATGGCTGGCAGTACACTCAGTGCTTATAGTAAAGAACCATTGTTGGTGAGCTTTATGTGTGCAG
GGCTTTCTTATGAGGGTCTTGAGTGCTACCAGAGGGAGAGTCTGGTTTTTACCCTGATAAGTTCTCTGTTCTCTGCCACATTGCCCTACAACGT
TAAATGTACAGGTAGCAAGCGCTAAGTGGATTCAGTGAGTTTGGTTTGGTTTGGTTTGGTTTGGTTTGGTTTGGTTTGGTTTGGTTTGG
TTTGGTTTGGTTTGGTTTGGTTTTTAAAAAAGCACATGAATTGAAAGGAATAGTGTTAGGGAGGGTTGGTGATAAATTGGTGGGGAGGAAAAGG
GGGCATCTTTGATCAAAATGTATTGTATATGTATATGAAATTCTCAAACAGCTTTTAAAGTTGTCCAAAAACCAAAAACAACCCTAACAGTAGA
ATTAATGTAGAAATTACAGTATCACATTCAGCAAAATATAAATGAAATAAAACAAAAATAAATTATGTGAAACTACATACAACAACCAGAATGT
ATCATACAACAAGGTAGAATGACAGAAACTGGATACGCACATTCATTAAATGCTTATGATGCGATTCTATTACAGGAAGTTGGGAAGTACTGTT
GGGCATGGGGTAGAGATCAGGAGGAGGCACTGGTTGGATTTCTGGGCTACTCTTTGTGATCTTTTGCAACTTAGGTGGAAGCATAGAGCTATTC
ACTTGATGATAACTTATTGCAAAATACCTAAGATTTATTCTTCTTCAAGTAAGTCTTAAATTGTCTTTGTCCATCAAAGACAAGGTTTATAAGA
GCTAAAAAGATCCTTAGACATTCTGCCGAGCTTACTGGGAACAATTCTAGGGTTAAGGAGACTGAGTCAAATAGAGAGACCACAGTGACAAAAG
AAAAAAAAAAGCAGCATGGAGAAGAAAACTGGAAGTATCTCCTAGCACCAAAGGATGGAAACAAATCCCACATCATGGGAGAGTTAAGCCTTCC
TTCAGACTTTTATAATTGATAATCTCAGTGGTGGGTGGGCCAAAGCATGCAGAGAAGTATAAGCAGAAAGGACTACATCAGAAAAGCTAACATC
AGGCAGTGATCTGGTGAGAGTTCAGATCTGTCCTATTTACCTCTTGAAGGTAATACTGTCTCCTATTATTTGGGATGCTTTCCACAATGTGGAT
GGGAGGGAATACTGTAGGCCATTGGACCCTGCCTAGTTTTCCATCTAGGAAGGAGTCATTCTAGGTTCCCAAAAGAATGAGCCGGACTATAGAT
TGCAAACTCAGCTGTTGACCTCAATGGAAGAGGGTTGGTTTAATGGAGGACAGCAATAAAGAGGGGCTTCTGGAAGGAGTGGGTCTAAGTAGGA
CCACTGTTGATGCACAAGGCATACCTAGGGGAAAATGGTTAGTTTTCTTGGCAT

MOUSE SEQUENCE - mRNA
ATGTCATCTGCACTTGCTTACATGCTGCTTGTCCTCAGCATCAGCCTCCTGAATGGACAGTCACCACCTGGAAAACCTGAAATCCACAAATGTC
GTTCCCCTGACAAGGAAACATTCACCTGCTGGTGGAATCCTGGGTCAGATGGAGGACTCCCCACCAATTATTCATTGACATACAGCAAAGAAGG
AGAGAAAAACACCTATGAATGTCCAGACTACAAAACCAGTGGCCCCAATTCCTGTTTCTTTAGCAAGCAGTACACTTCCATATGGAAAATATAC
ATCATCACAGTAAATGCCACGAACGAAATGGGAAGCAGTACCTCGGATCCACTTTATGTGGATGTGACTTACATTGTTGAACCAGAGCCTCCTC
GGAACCTGACTTTAGAAGTGAAACAACTAAAAGACAAAAAAACATATCTGTGGGTAAAATGGTTGCCACCTACCATAACTGATGTAAAAACTGG
TTGGTTTACAATGGAATATGAAATTCGATTAAAGTCTGAAGAAGCAGATGAGTGGGAGATCCACTTCACAGGTCATCAAACACAATTTAAGGTT
TTTGACTTATATCCAGGACAAAAGTATCTTGTCCAGACTCGCTGCAAGCCAGACCATGGATACTGGAGTAGATGGGGCCAGGAGAAATCTATTG
AAATACCAAATGACTTCACCTTGAAAGACACAACTGTGTGGATCATTGTGGCCGTTCTCTCTGCTGTCATCTGTTTGATTATGGTCTGGGCAGT
GGCTTTGAAGGGTTATAGCATGATGACCTGCATCTTTCCACCAGTTCCGGGGCCAAAAATAAAAGGATTTGATACTCATCTGCTAGAGAAGGGC
AAGTCTGAAGAACTGCTGAGTGCCTTGGGGTGCCAAGACTTTCCCCCCACTTCTGACTGTGAGGACTTGCTGGTGGAGTTCTTGGAAGTGGATG
ACAATGAGGACGAGCGGCTAATGCCATCCCATTCCAAAGAGTATCCGGGTCAAGGTGTTAAACCCACACACCTAGATCCTGACAGTGACTCTGG
TCATGGAAGCTATGACAGCCATTCTCTTTTGTCTGAAAAGTGTGAGGAGCCCCAGGCCTACCCCCCTGCGTTCCACATCCCTGAGATCACTGAG
AAGCCAGAGAATCCTGAGGCAAATATTCCTCCCACCCCAAATCCCCAAAATAACACCCCCAATTGTCATACAGATACATCCAAATCTACAACAT
GGCCTTTACCACCTGGCCAACACACGCGCAGATCTCCTTACCACAGCATTGCCGATGTGTGCAAGCTAGCTGGAAGTCCTGGAGATACACTGGA
CTCTTTCTTGGACAAAGCAGAGGAAAATGTTCTAAAGTTGTCTGAAGATGCTGGAGAGGAAGAAGTGGCTGTGCAAGAAGGGGCCAAAAGCTTC
CCTTCTGACAAACAAAACACATCTTGGCCACCACTCCAGGAGAAAGGCCCCATTGTCTATGCTAAACCCCCAGATTACGTGGAGATTCACAAAG
TCAACAAAGACGGAGTGCTATCATTACTCCCCAAGCAGAGAGAAAACCACCAGACAGAAAACCCTGGGGTTCCTGAAACCAGTAAGGAGTATGC
CAAGGTATCTGGGGTCACGGATAACAACATCCTGGTGTTAGTGCCAGACTCACGAGCCCAGAACACAGCGTTGTTCGAGGAATCAGCCAAGAAG
GTTCCACCATCGCTTGAACAGAACCAATCTGAGAAAGATCTGGCCAGCTTTACTGCAACCTCAAGCAACTGCAGACTCCAACTGGGCAGGCTGG
ATTACCTGGATCCTACGTGCTTCATGCACTCCTTTCACTGAGAGC

MOUSE SEQUENCE - CODING
ATGTCATCTGCACTTGCTTACATGCTGCTTGTCCTCAGCATCAGCCTCCTGAATGGACAGTCACCACCTGGAAAACCTGAAATCCACAAATGTC
GTTCCCCTGACAAGGAAACATTCACCTGCTGGTGGAATCCTGGGTCAGATGGAGGACTCCCCACCAATTATTCATTGACATACAGCAAAGAAGG
AGAGAAAAACACCTATGAATGTCCAGACTACAAAACCAGTGGCCCCAATTCCTGTTTCTTTAGCAAGCAGTACACTTCCATATGGAAAATATAC
ATCATCACAGTAAATGCCACGAACGAAATGGGAAGCAGTACCTCGGATCCACTTTATGTGGATGTGACTTACATTGTTGAACCAGAGCCTCCTC
GGAACCTGACTTTAGAAGTGAAACAACTAAAAGACAAAAAAACATATCTGTGGGTAAAATGGTTGCCACCTACCATAACTGATGTAAAAACTGG
TTGGTTTACAATGGAATATGAAATTCGATTAAAGTCTGAAGAAGCAGATGAGTGGGAGATCCACTTCACAGGTCATCAAACACAATTTAAGGTT
TTTGACTTATATCCAGGACAAAAGTATCTTGTCCAGACTCGCTGCAAGCCAGACCATGGATACTGGAGTAGATGGGGCCAGGAGAAATCTATTG
AAATACCAAATGACTTCACCTTGAAAGACACAACTGTGTGGATCATTGTGGCCGTTCTCTCTGCTGTCATCTGTTTGATTATGGTCTGGGCAGT
GGCTTTGAAGGGTTATAGCATGATGACCTGCATCTTTCCACCAGTTCCGGGGCCAAAAATAAAAGGATTTGATACTCATCTGCTAGAGAAGGGC
AAGTCTGAAGAACTGCTGAGTGCCTTGGGGTGCCAAGACTTTCCCCCCACTTCTGACTGTGAGGACTTGCTGGTGGAGTTCTTGGAAGTGGATG
ACAATGAGGACGAGCGGCTAATGCCATCCCATTCCAAAGAGTATCCGGGTCAAGGTGTTAAACCCACACACCTAGATCCTGACAGTGACTCTGG
TCATGGAAGCTATGACAGCCATTCTCTTTTGTCTGAAAAGTGTGAGGAGCCCCAGGCCTACCCCCCTGCGTTCCACATCCCTGAGATCACTGAG
AAGCCAGAGAATCCTGAGGCAAATATTCCTCCCACCCCAAATCCCCAAAATAACACCCCCAATTGTCATACAGATACATCCAAATCTACAACAT
GGCCTTTACCACCTGGCCAACACACGCGCAGATCTCCTTACCACAGCATTGCCGATGTGTGCAAGCTAGCTGGAAGTCCTGGAGATACACTGGA
CTCTTTCTTGGACAAAGCAGAGGAAAATGTTCTAAAGTTGTCTGAAGATGCTGGAGAGGAAGAAGTGGCTGTGCAAGAAGGGGCCAAAAGCTTC
CCTTCTGACAAACAAAACACATCTTGGCCACCACTCCAGGAGAAAGGCCCCATTGTCTATGCTAAACCCCCAGATTACGTGGAGATTCACAAAG
TCAACAAAGACGGAGTGCTATCATTACTCCCCAAGCAGAGAGAAAACCACCAGACAGAAAACCCTGGGGTTCCTGAAACCAGTAAGGAGTATGC
CAAGGTATCTGGGGTCACGGATAACAACATCCTGGTGTTAGTGCCAGACTCACGAGCCCAGAACACAGCGTTGTTCGAGGAATCAGCCAAGAAG
GTTCCACCATCGCTTGAACAGAACCAATCTGAGAAAGATCTGGCCAGCTTTACTGCAACCTCAAGCAACTGCAGACTCCAACTGGGCAGGCTGG
ATTACCTGGATCCTACGTGCTTCATGCACTCCTTTCACTGA

HUMAN SEQUENCE - GENOMIC
CTTCCCCAGGGACACATATTGAATAGGCCTGCAATGGGGCCTTGGAATTTGCATTTTAATGGCCACCTCATGTTATTCTGATGCACAGCTATGT
TTGAGAATTATGGCTCTAAAGCAAAGCTCTCCAAGAAAGAAGTACATACCTAGGTATACAAGATGATCCAGTGAGTTGAAGTATGAAAATAATA
TAGTAGTTATTTGGGGTATTTTTTCTAAGAAAGAAACTAATCTTTACTGGTATTTAGATTGACAATAGTGCCTTCACTGAGTTCTCAAATTAGC
TCAACACAAGTTCTGGAAACTACACAAGATAATCTCCAGAATCAAAAAGAGTTCAGCAAACACACGGGGGTTGCCATGGTACCTCCACTGCTTG
ATTGCCATTTATGTGCTACAGGTTTTCATCAATGCAGTTTATTTTATAAAAGCAAGACCTTTAGAATATGCAACTTGACAAAATAGGGAGTGAG
TATGAAAATGTCTGGTACCACACAGAAGTTTCTTGTTTAATTCATGACGAAGTAGTAAAAAAGTTGTTGGATTTAAAAATGAGTTGTCCATTTC
CTTTTACAAAACGATAATTGTTCCCAAAGTGTAAATCTCAAATGCATGATGCTGAGTGAAAGAATGCTACATACTGTACAATTCTACTTACATG
GCAGCCTGGAAAAGGGAAACTATAAGGATAGAGAACAGATTAATGGTTGCCAGGGGACAGGGTAGGGACAGGGTTTGGCTACGCAGAAGCATGA
GCGTATTTTGAGGGGCCGGGCTGCGGGGCGGTGGGGTGTGCGGGAGTAATGAAACCATTCTACATCTACATTGTGATGGTTATGTGACTTTTTG

CATTTGTCAAAGCTCCTAGAGATATACACTAATGAGTATGAATTTTATAGCAAGTTACACCCTAAAAACATTCACTTAAAAAAAAGTAAGTTTT
GCTGAACAAAAAGAAAATTTCTACCACCTTTCATGCAGTATATTTTTCAGCCATAATAGGTGTAAAACTAAAAACTGAAAATAAACTAAACTTA
GAACCAGATCTGCATATCACTGTGTCTCAAAGTGTTAAGCCAACATCTTTTTTTTTTAAAAAAAGCATACTTAATCACATTATTCTCATTAAAA
TTTTGATAATTAATAATTTCAGAACTAAATGGTTTATACCATTAAAAATAAAATTATTTATTTATTATTTTAAATAATTTTGACTTTTATTTTA
GATTCGGGAGTACGTGTGCAGGTTTGTTACATGGATGTATTGCATGACACTGAGGTTTGGGGTATGAATGATCACGTCATCCAATGAGCGCAGT
ACCGAATAGGTAGTTTTCAGTCCTTGCCCCGCTCCTTCCCTTCCCTTCTAGAATTCCTCATTGTCTATTGTTCCTATCTTTACGTCCATGCATA
CTCAAAGTTTAGCTCCCACTTATAATAGAGAACATGAGGTATTTGGTTTTCTGTTCCTGCATTAATTTGCTTAGGATAATGGCCTCCAGCTGCA
TCCATCTTACTGCCAAGTACATGATTTGGGGTTTTTATGGCTGTGTAGTATTCCATGGTCAAATTTTTGTTTCATCTTATTTCATTCTTTTAAA
ATTTCTACTTTCATTCATTTATAATACAGTAGTACATATATATAATTTATGACTAAAAATACATATGTATTTGGAAAGGCATGCTAAAAATGAT
TTTACTGCTAAGATGATAAACAGAAAACTTTGGAGGTCACTTCTCTAGAAAATAACTCTTCAAAATTTAATGTACGTAGGAACTACCTAGGGAT
CTTGTTAAAATATAAAGTCTGATGCAGCAGGAAGTCTCTCACCAGATCAAATGCTGGCACCTTGATCTTGGACTTCCCAGTCTCCAGGACTGTG
AGAAATAAATTTATGTTCTTTATAAATTAAAGAAAAAATACAAAGTCTGATTCACAAAGTAGGGATGGGGTCTGAGATCTTGCATTTCTAATAA
GATTATGATTAATCTAATAAGTTGAAATCATTTGTTTTGGTTTAAACTAATTACCAAGTCAATTCATTCTAATACCTTCCGGGTTCACTCATAG
ACTAGGCCTAGGGTTAAAATGATAATTAGTATGATGCCAGTGCACCTGGCCCTAAGACTATACTTTGAATAGCAGGACTCAGACCACAGTAGCC
CGAAGACATCTATGCAGCTATTATAGAGACTAACAACTGCTGCATTTGATTCAGCAGACTCAGTTTTCCCTCTTTGGGTTTGGGAGACATGAAT
TCTTATCAGTCAATAGGCCAGCTCTCTTAGCATCTTCCCATGGAGCAAATGATTCCCATTCCCATGCTCATAAAAGCTGATTTTACTTAGGTCA
CTGCTTATCCACCAGCGTGGGTTTCCTTAGAAGGAAGGACACATTGTCTAATAATAGCAGTGCCTTATATTTACACATGGTTTATAATTAACCA
AATGTCAACTCATATCAGCCTCACAATGACCTTTGGAGGTAGAACAAAGCAGATGTATTATAAACCCATTTGCAAGTGCTACATGACAGAAGCA
AGCACAGTGCTTTCTTTCAGAGTTGGAGTGATCAGGCAAAGCTTTAAGAAGAAAGTACCATGGAGTCTGAAGATCAAGAATGGGTAAGGTTTTT
AGATGAAGGGTGGGAAATAACATTCCAAGAAGAGAGGATGGATTCAAACACACTGTAGATATGTATTGAGCTACTACTACTCTAAAGCCCAATG
AAATCAGCAGGAGTAAAGATGTTCTAACTTTATTCTGTGGGAAGTAGATGCCATTAAAAATTTTTAATTCAGGGACTAATGTAATCAAGTTTAC
CATGAAAGCATTTGAGTTTGATGTAGGCAAGACTGGTGAAGATGAGTCCAGCCAGGGGGGCTATTGAAGAGGAAGAAGTAAAAAATGATGAAGG
CACAAATTGAGGCAATAACAGTGGAAGGGACAAAAATATTTAAGGACTTCATTCCTTTTTTTTTTTTTTTATTATACTTTAAGTTTTAGGGTACA
TGTGCACATTGTGCAGGTTAGTTACATATGTATACATGTGCCATGCTGGTGCGCTGCACCCACTAACTCGTCATCTAGCATTAAGTATATCTCC
CGATGCTATCCCTCCCCCCTCCCCCCCACCCCACAACAGTCCCCAGAGTGTGATATTCCCCTTCCTGTGTCCATGTGATCTCATTGTTCAGTTCC
CACCTATGAGTGAGAATATGCGGTGTTTGGTTTTTTGTTCTTGCGATAGTTTACTGAGAATGATGATTTCCAATTTCATCCATGTCCCTACAAA
GGACATGAACTCATCATTTTTTATGGCTGCATAGTATTCCATGGTGTATATGTGCCACATTTTCTTAATCCAGAAGGACTTCATTCCTAATTGG
ATGTAGAGTGTAACAGAGAGAACACTGACAGTTGAAGCCATAAAAAAAAAATAATAAGCTTTTATATCTCAAGGCCCATAAACAAGTGCATGCC
CTTTGACCTAGTTGGGCCTCACCTGGTGTTTTAGACAAAGGAAATTAATTCCCAAAGGCAACTTTTTTTTCTACACTTCCCATAAGTATGTTTA
TTACAGCATTATTTATAAGAGTAAAAATTTGGGAACAATCTAAATGTTCATAATATAGAATGATTACATAAATTATTGTGCAAAAAGATTATAA
TGATAAGATTACATTAAAAAATTGAAGGATACTTTTAAAAAGATATAAATAGATATATTTCCTGGATGGGAAGAATTAATGCCCTAACAATATC
AATTTTTCTCAAATTAATATATAAATGTAATGTAATGCCAAAAAAAGATTTTGAATTGAACAAATTGACCCTAAAATTTTATGAAAAAATAAAT
ATAGTGGACTTATCAAGACAATTTCAAAAGGAAAGTGACAGTGTGCTTTGCACTAACAGGTATTGTACTGTTTTTACAGTTACAGTAAACAAAA
GTCTATATTTTTGGCATATAAATAGGCATCTCAAAGAAACAGAGTAGTGTCCCGAATTCATATAAATATATATCAAAATGTAACACATGATATG
TGACACTAGAAATCAGTGGAGAAATTATGAATTTTTCTATAAGGGGTAAAATTAAAAATAAAATTCAGGAGAAAATTAACTGTCTACCTTATGT
AATAGTTAAAGATCTATTAAAAAAAAAACAATTTAACAGAGTTAATTGCAAAGAAGCAATACAAAAAACCCAAAAGCTGTAACAGAAAATAATT
GACAGATTTGAGTACATGAAAATTAAAAACTTTTGTGCAATGAAACAGTCCATAAACAATATCAAAGGAAGCCTGACAGGCACAAATGTTTGCT
ATACATTGAACAAAGTGTTAGTATGTTTAATAATAAAAGAGATGCCAAAAATTAATTTTAAAAAATATGGAGGCCAGGCACGGTGGCTCACGCC
TGTAATCCCAGCACTTTGGGAGGCTGAGGTTGGTGGATCATGAGGTCAGGAGATTGAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTAC
TAAAAATACAAAAAATTAGCCGGGTGTGGTGGCAGGCGCCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATAGCGTGAACCTGGGAG
GCAGAGCTTGCAGTGAGCCGAGATTGCACCACTGCACTCCAGCCTGGGCAACAGTGCAAGATTCCATCTGAGAAAAAAAATATATATATATACG
GGCCAGGTGTGGTGGCTCACAACTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCGAATCAGGAGGTCAGGAGTTCAAGACCAGCCAGGCCA
ACATGTGAAACCCTGTCTCTATTAAAAACAGAAAGAAATGCTGGTCGTGGTGGTGGGCACCTGTAATCCCAGCTGCTCAGGAGGCTGAGGCAGG
AAAATTGCTTGAACCTGGAAAGTGGAGATTGCAGTGAACCGAGATCATGCCACTGCACTCCAGCCCAGGTGACAGTGCAAGACTCCATCTCAAA
AGAAAAACAGGCATAAGATTGAACAGCCACAACATAAGAGAAAAAGTCAAAATATAATAAGCACATGAACTCAACCTTGAAGGCAATCAGAACA
CTGTGAATTAGAACAACAATGAGCTATCATATTTTGCTTATCAGACTAGCAAGATAAGATTGATAAAGTCCAGTGCTAGCAAAAATGTGAGTAA
ACATCCTTGGTAAGAGTGGACACTGAAACATTTGTGGATAAAAATTGGAGGTATATATGAAAATTTAAAATGTTCCTACCCTGTGGCTCAGTAA
TCTCATTTCTAGGGCTTTCTCCAACAACATATTTGGAGAGCAATTTGGTAGCTATCAAAATTTTAATGTTCATTCTCTTTGAGCCAACCAAGTC
ATTTATTTTTTATTTTATTTATTTATTTATTTATCTATTTATTTTTTTGAGACACAGTCTCAATCTGTTGCCCATGCTGGAGTGCCATGGCACT
ATCTCGGCTCCCTGCAACCTCTGCCTCCCAGGTTCAAGCGATCCTCTGGCCTCAGCCTCCCTAGCAGCTGGGACTACAGGCGTGCACCACCACT
CCTGGCTAATTTTTGTATTTTTAGTAGAGACGGGTTTCACCATGTTGGGCAAGCTGGTGTGGAACTCCTGACCTCAGGTGATCTGCCTGCCTT
GGCCTTCCAAAGTGTTGGGATTACAGGCAGACGCGAGCCAACCTGCCTGCCAATCAGGCCATTCTAAGTATCTATCCTAAAGTCCATGCAAAGA
CAATCCTAGCAGCACTTCTTAAAATAAAAAGCTGGAATTACTAAAGACCTAACAATGGAAGAATGGTAGAATATATTACAAACTATGTAACCAT
TAAAAAAAAATGGAGTAAATCTATACATAGTTACCTGGAATATGTGATTTCATTAAGTTTAAAAAAGAAAAGTCACAGAAATTATTGCATTTTG
AATTTTTAAAATATTTGCATGTGCATACAGAGACATGACTATATACACATGTAAAAAAGGAGGCAACCACCAATACGTCAATGGTGGTTACCTC
TGAGACAGGATTAGATGAAGGAAGGAGGATGTGTGATTTGGAAGTACTATATTTTACTGTATAGATAAAGATGGTAGATTTCTTTTTAACAGTGC
TAGGATTTGGGGTAGTTTTTTAATCTTTGGATATTTTTAGCAGTTTTCTATTTTTTTTCTAAAGAAAGAAACATAGTTCTCCCACATATGGACA
TGCCATTCTTCTGAGGATGCTTAAGTTGACCCCAGGAGGAGCCCTAGCTGCTGTTCCCCATTAGAGGCCCCTTTTCAGCAGGAAGTAGCCAGAA
AGAGTCCTTGCCCAAAACCCCCTAACAGCAGTTAGTGTGATATCGCCACAGGGAGGAATGTGGCATGAGTTATCAAGAAATTATTTTAGGCAGA
TAGAGAGTAAAAGGGGTCCTTGGGAAGTTTTCATTTTTTAAAGTATCTCCAGAAAAGTTTCTTGTAAAACCCCGGCTTTTAGAGCCAGGCGGGC
AACCTTTGATATGCAAACCTAGGCCATTAGAAACTGGGTTCACCCAAACATGCCGATTCCAGGGACCTTCTTGCCCTTGCCCCACATGTTCCTG
GCAACATGGCCGCCCCCACATATCCCTATTTGTGTAGAACATCATGGCGCCCCGCATTTGCATATTAAAAGGCTAGAGTGGGAGGGCCAGCTCT
TTCATGGGCTACGTGAATTACGTGCCTAGTCAAACCAATCCCCTGAGCCCTAGGCAAATCAAACACCGCCTCCTCCAGCCTCTGCTTATATACC
TGGCTGGTATCCGCAGCAAGTGGGGACTTACTCTTTTGGCTTTGGAGCGCCCCCCTCCCTCTGTCTCTGTACAGGGAAGCTTCTTCTTTCTTCC
TTCTCCCTTTCCTTCTTGACCCTTCTTGCCTATTAACCTCTCCACTCCTTAAAACCAAAAAAAAAAAAAAAAAAAAGAAATGTGGTTCTCAAAG
AAGACAAATGAAGTAGCAATGATAAAACTCCTTCCCTATTTGAGAAGGAGGAGAGAGAAAAGGAGCCACGGCAGAAACCAACAGAGGAATGCCA
CAGACAGAGGGGAGGCTCCCGCCAGAGGATGGCAGAGGCCTGGAAGCCAAGGCGTGAGAACTTCAAGAGGAGGAAGTGAACCGAAGCCCAGTGC
TGCAGAGAGGCCTGGAGGGCCCTCCCAGAGAGCAGCCAGTGAGTGGTAGTGATGAAAGCCAGGTGCAAAGAATTCAAGGGAGCCATTTTCCACC
CTGCCTGTGCATTTTTGTAAAAACAGAGAAGTCAGAGCCCCATTCTAAACCTCCTGCATTAGAAGCTCTGCAAGTGACACCCAGACACAGTACA
TTTTAAACACTCAGGTGATTCTTGTTCACAGCCAAGGTTGAGAACCAGTGAGTTAAGGCACTGAGAGGGAAGTAAGTAAGGAAAGCTGGTGTGC
GTAAGTCATTCTTTCACTAAGTTTGGCAGGTAAAGAAATGAGTGAATTAAACTGTAAAGCCATCAAAAGGGTCAAAGAAGATGTAGAAGTTGTA
GGTTGAGATAAAGAAGCCTATGGGGCAGAAAAGATTAAATATGCAAGAAAGGTAGAGGAAAGGGGAAGGAAAGAAAGGAACTTGATGTTTCTAG
ACTTTGTTAGATGGCACACATTTTACATATGCCATCACCATTATTATTCATTTGACTGGATTTTTGAGGCACATGCTACTGTGTCCAATTTACA

GTGAGAAACCAAGAATAGCAAGGACCTAACCCAGTGCCAGTGCTGGGCTCTTCCTCTGCATCAGGCTGAGAAGCAAGGTCTTGGAGGAAGTAAA
CGGATATGGAGTCCAGGACTCAGGTAGGGAGTCAGCTTGCAAAGGACGAACACGTCCGCTAAGACAGAGATGCAGAAATGAACTAGAGGAGGAC
ATCAGTAAAGAAGCTGTGAAGCTGGAGCACATCAGTGCATAGAGAGAAGGAGATAGTCAAAGAACCACTGTGGGGCAGAAAAGGAAAATATAGT
GGCTCACTGCGGATTTCATCATCTCAGGAAAGCTGGGGCAAGGTAACTCACTGACAATGAGTACCCGTGGCTTTGTGACAGTGCCTGTGTGCTA
CACAACAGAGCAGAAAGCCAGCCCTGCCCTTCTTACCAGTGAGGTATGGATTAGCCACGCAACGACCAGTCTGTAAGCCAGGAGTACAGACGAG
CCAAGCTGCCTGCAGCTGAGTGGGAACCACAAGGAGGAAAAGCCAAGTCCCTGCCTTCTAAGAGCTGACAGTCTGGAGTTACCCAGAGTGATCT
TCTATTTCACTAACTGTTAAAATAGTCTGATTAGAACAACTATTGTAGAATTGAGTGACCCTTTGCTTTGCAAAGGTCATATAGAAATATTCTG
CCACTGAGGATCTCATGTCGCCCAGTGGTTCTGAAAATAAATAGAAGTTGCGTACCTTCATGGACACCCATGAATGAAAGTAAATATACCCTAA
TCATCACAGGAAGCATGTGCGGTCTGCACGTGAAAGATGCATCTCCCATCAGCTAACAGAACCAGGTGGAGTCTATGTTTTAATAAGGACGTGT
TATTGATCGGGAAGTATTAGGTTATTATGCCTAGGTAGTTGCTTCTGGGATTCCAGTCCAAAAGGATCACCAAAGCATCATGGGATTTTCAATG
GCTTCCTGTGGCTTGGCAAATGCTCACTGCTAACTGTGATTTCCCAGTTATCCAGAGTAGCAGTCAAATCAAAGGGGAAAGCCTCATGTTTCAA
TAACTTAAAACAAAACAAAAAAAAAAAACGGCCAGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTCAGGAGGCCAAGGTGGGTGGATCATGA
GGTCAGGAAATCAAGACCATCCTGGCTAACAGGGTGAAACCTCATCTCTACTAAAAATACAAAAAACTAGCCGGACATGGTGGCACGCGCCTGT
AGTCCCACCTACTCGGGAGGCTGAAGCAGGACAATTGCTTGAATCCAGGAGGCAGAGGTTCCAGTGAGCCGAGATGGGGTCACTGCAATCCAGC
CTGAGCGACAGAGCGAGACTCTGTCTCAAAAAAACAAACAAAAACAAACAAAAAAAAAAACTCAGTAACCTTGGTTTAAAGTATTTCCTTGGTG
GCCCTCTGGGTTGTGTAACAATCGGATGCATTAATTATTATGGCATCAAATGACACCAGCAACATACATAGTCAGAAATAACTATTTGATTCAG
GCAGGTGCTATTATTTGTTTCAGCACTGTTAAATGTGGGGTTTTTGTTTTTGCAAGAGAAAAGGCGGTTGTGTGTGGTTTCAAGAAGAAGAAAA
GTCAGAACAACATGCAGCCCATTAGAAAAGATAAATTCTTTATTTGTGGAAAACAACAGAAGTGGGGCTATTTAGGCACCGCCAATGTTTATTA
TATTCATATGGCAGAGAATAAACACAGCACACTAGAAGTTTGCGCTTTGGGTATTAAAAAAAAAAAAAAGCAAAACCTTCTTAGGTCACTGACT
ATCTTCTTTTGCTCCTTTCTATCTGACTCCTCAGGCAAGGTGCAATTCAAATCCCTGGAGAACCTCTCAAATATAGCTGCTGTTCAATGTTACT
CAGAAATAAGGAAAGAAATTTGACACGGAGACACTCCACATCTTGGCTGCCTGGAAAAATATCATCTTTGAGGTCATTCAACTCACTAAGTCAT
TTTTATTATTGTTTTGTCTGTCTATTTTCTGGTACAGTCTCAATGAAAGATATGTGGCCCTAATCATGCAAAACCGATCTGGGGGGAATCAGTT
GTTTCTTCAGGTCTTCGCAGGATTCCAGCTCCCCCAACTACCTCCGTCGCCTTCTAAAACTGGCAGGCTCTGGACGTTTTGCATGCTGAAGAAA
ATCACTGTTTTGCCTCCAGCAAGGAACATAAATGTTGCAACACTGACTCCTCCTCTCATGAAGAAAGAGTGAACAAGTGCACCGAGTTGAGCTT
CTTCTCACAGAGCCACCGGGCTGGGGACCGGGGAGCGGAGGCTGAAATCCCCAGACGCCGGTTTTCTGGGCTGGGCTTTCTGCCTTACTCACTC
CTTCTCCCTCTTTCTGGATTTTACCGACCGTTCGCGAAACAGCTTTCCACACAATGGAGCTTCATGTCCTCGTGCAGGAAGTACTCATCGACTG
ATGTGGCAGACTTTGCTCCCTGGCAAAAGTGAGTACCCATGGCGAGCTGAGGCCGCCTCCGACGGCGCGCGGCAGGGGCTGCGCGGGCGGCCGC
TCTCCGGGATGCGGGTTCGAGGCCCGCGTGCTGAAGGGGAGAGCGGGGCCACCGGCGCGGGCTCCTGGAGAGAACGCCAGCCAGGAGCCAGAGT
CGGCAGCCGGCGGGGAAGCCCGGGATCCGCCCGCCTCCCGCCCGGATGTCCCTTCTCAGAGGGCTAAAAAATACTCTTAAGGTGCTTTGCCTC
CACCACTGCCCCCAACCCCAGCTTTTACAAACTGCACTCGGCTCGCATTCGCCTTTGTCAAAGGCATCTTCACCTGTATCCTTGAGCATGAGTT
TCGGCGTTGATTGTGGGATTCTCAGAATGCAAATTATTTGCGTCAAAATAAAAAGAAAAGAAAAAAAGAGCGGGGAGGGGGAAGGGGCGCAGAC
AGGTGATGTGATGAAAGCCGGACTCGAGACTCTCCCATCAGCAGCAGCCGCCGCCGCAGCAGCCTCGCGGGCATCCGGCGGGGAAAGTTTAGGG
TTAGCAATGCTGACCTGAAAGGTGTTGCTCCTCCCAAAAGTCAGCGGGGGTAGGGGCAGATGAGCAGCCTCCGGGCCAGAAGCCGGAGCTGGAC
GGAGGCACCTAGGCAGAGGAATTGCAGCCCGGGAGGAAGCTGGAAGGAGAGCCCGCTGGAGAAGGGAGGAGGGAAGGAAGAGGAGTTGGTTAA
AGTCAGGCAAACTCAGGTAACTGGAGGGCCGGCCCGAGTGCTACGGCAGGGGAAGGCAAGGGCTGGAGTTCTGGCTCTTTGAGTAGAAAACTAT
CCTTTTAGTGACCTCTACCTGTATCCTGGGGAAGCAACCCACACTGCCCTGAAAACAAGCAACGTAGGGGATTCTATGACTGGACTTGAAAATG
GTTGCAAAACATTATTATTAGTCTGGAGGGATCACTTTGTCTTCATTTGTCAAGTTGACCGGGCAAGATTTCCCACCTGAAATCGTGCTTCACT
TGACCAGGGAAGTGCTGCTAATCCCAATCCTGACCATCAGCTGTGCAAACTTGGGCAAGAAACTTACCCTCTCTGGGCTTCGATTTTTTTTCTG
CAAAGTTTAGGGAATTAATTAATTATATATATATATTATAGAAATATATATAATATATATATAAATGTTTAATGAGGTGGAAGTGCTGAATAGT
GCAAGAGAGGAGCAGATGAAAATATTAATTTCAGTGGTTCTTAAAAATTAGGGGTGATAGGTCCTTTTGAGAATTAGCTGTGAGTCCTCTTCCT
GGGGGAAAATGCATATGGCATGTACATAAAATTTTACATGCAATCCCTGAGGGTTTGTGGATACTCCCTGAAAGCCATGCCTGAATCCCAGGTG
ACAATCCCTTATTCCTCCTCCTGTATCAAGACCACCCAGCCAACTCCTTGCTGCTGGTTGGGCTGACTGTGGGAGTAATCCACAGCCTTCTTGG
GGGTCTGGAGTCAGCCACGCTGCTGAAGGAGACAGCTCCCCTGTCATGGGTGAGCTCCCCACATGCTCTCTCCAGAGCTCTACCAGCCTCTGAC
TCCAGGGGACCCCTCCTCACAACCCTTTTTAATGACTCTCCTAAGGCGACAGTCCTTACCCCTAGAATTTTCAGTCCCACCAACCCTGGAGAGC
CATCTAAAGAGGATCGCTGTCTGAATCAGAGTGCTCTTCAGGTCACCTAGCTGGATGGCAGGGAGGCCAAGGCTTTGTTTGGAAATGAAGCAGT
CTTTGCTCCCTGAGGCATAGTATGAGTAGGCAGCCATATTCTTTTGAACCTCTGTACTTTGCCTTTAGAGGACTAAGGACTCACATCTCTGGGG
ACCCTGGGTGTTCCACTAGCAGTGCCAGCAAGGCACATCAGAAAACACACAGGGCTTTGGAGCTCAACAGACTGGGCTTCAGATCTTGACTCCC
ACACTGAGCAAGCCTCTGAGTTTTCCTGAGCTTCACTTTTCCTGTCAGCACAATGAAAATAATGCTGCTTTTTTTTTTTTTTTTTGCATGGTT
GTTGGGAGAATGGAAATACTATGAATCATGCCTAGCCCATAGTCAATGATAAACTTTTTCTTAATATTAATGTGGCACCATAAATAAGTGTTCA
ATAGTCTCATGCTTTTAAGAACAGCTTACTCTCTCTCCTATGGGGCTTACATTAGTAGAAGAATGAGTAAAATTAGTTCTGGTCTAGTTATG
CACAAAAAGGAGTGGTGGCCTCAGAATACAGAGTCAGACTGGCTGTTCGAATTGTGCAGTGTCAAGGAGAGCACTATGTATTGCCGGCAAGTAA
AGTATGTCCAGACCGGCGTGGATACTTGACCTGTCTCTCAGTTCTCTTTTGACCCATAATCTTGAGTACAAAACAGCTAGTGCTGTGCCTGCAG
CTAAAAACAGCCAGGCATGGAAAGAAGTGTTGTGGCTGGGTCCATCTTCAGAAACTGTAGAGAGAAATATCTCCATTGTCATCTTTCACAGTTT
GGCACAGATGTAGCCAACTCAGCATGTACTCTCTCTCCATGGGGTCCTGGTGCCTCCATTGCAAGTGGTCAGATGATGTAGCAATGAAAGAAGG
AAACATCGGAAACTTAAAAGGAAATTGGATATCCACAGAGTAGCCAAAGATCTATCAGTATACTTTGGTGAGGTATTCCTGCATGCAAAGATAG
CAATATTCATGCCTACTATTTACTGAGCCTTTAAGATGTGCTAAGCACTTTCACACATTGCCTCAATTAATTCTCATAGCAAGATTGCAGAGTA
TGAGTTATCATTTAAAGCTTTACCAGTAAAGAAACTGAAACATGGAAATGTACATACACCCCCCAACCCCACACCCCACATCCGCCTAGCTCAG
GAAAGGCAGAACCAGGATCCAAGCCCAGGTCTGTCTGACTTTGGCACCCACTCTTTTTCCACTACCCAGTGCTCCCAAGCTCCCCAATATCAGG
CACTTGCATCAGCCAACCGGATTAAGATTCTTCTAAAAGGCAGGAATAGCCAAATCTAGTGGGTGCTTTTAAGTGGTGTGAACATGTGCTTGGC
TTGTGATACATATTAACGGGTAGCAACAACAAGATCACCTATGGGAGGATAATATTCCTGACCCTTCCCAAGCCCAGCCATTAGACTCAAGATT
GGCAATATCCAACATTAGCAGGTGAGGCTGGCGCTCTGTCACTGACTTCCTTGGTAATCCTTTTAGTTAAACAGAGCTCTGGAATGTTCATTCT
CTACCACCTTTAGAATCAGAACACCACTTACCTTTACCTCCCTGTGCTGAGCACGTTTTCATTCATTTATTCGACAAGCATTTGCTGAGCTCTG
TTTTGTGCTGGGCACTTGATGACACAGTGGGGAATGAGACACACAGGATCCCAGCCCTTGTGGAGCTTCTATGCCAGAGAGAGTGACAGAAAAC
AGTCGGGTGAACAAATACATAAATAAAATCATTTCAGATACTGATAAATGCTATGAAGAAAATAGAGGCTGAAGGCTACAGAGGGACAGGGCGT
GGGAGCAACTTTCAACAGGGAAGTCAGAGAAGACTGCCATACAAAGGATACCCTTGAACTTAAACCCGCATTTTCAAAAAGGGAGCCAGCCCTG
TGAAAGTCTAGGGAAAGGGCTACCTTAGCAGAACTCTCAAGAGAAAGTTCTTAAATTGGAGTAAATGAAGCAGTAAAGCTTAAAGTCTGAAGAT
GGGCCCTTTAGAAGTTGACTTGTATATAGGGGGAATTATTATTTGAATGCCTACTATACTATTCTAAGCTGTGCTGTATACTCTGTTTATCTTC
CCAATGATCTGGTGAGTTAGCTATTTTTGTTTTTATTTTACAGTTGAAGAAACCAAGAGTCATCAAGGTTAAGGAGCTAGTCCAAGGTTATGGA
GCTAGTCCAAGGTTATGAAGCTGGTATTTGAATCCCTTAGTCTATTTCACTCCAAAGCCCACAACTACTTGCTAACACAGCATGTGGGCTTTGA
GATAATGTCTTTTGGAGAAAGTAAGGAAGCCGATAGAAGGAGAATATCAAAAGTAAATTAAGTAGCTGAATGCTGACAACGATTTGTATTTGAT
GTCCCAAATTCCAGTTAGTGCACCTACAACTGAACTGTCCAATACAGTAGCCACTAGCCACATGTGCCTATTGAGCACTTGAAATGTGGCTATT
TCATATTGAGATGTACTGTAAATGTACAACGCACCCCAGATTTTTAAGACCTAGTATTCCCCCAAAAAAGTAAACTGTCTTGGCCAGGTGTGGT
GGCTCATGCCTGTAATCCAAGCACTTTAGGAGGCCAAGGCGGGTGGATTGCCTGAGCTCAGGAATTCGAGACCAGCCTGGGGAACACGGTGAAA

CCCCGTCTCTATTAAAAATGCAAAAATTAGGCAGGCATGGTGGTGGGTGCCTGCAATCCCAGCTACTTGGGAGGCTGAGGCAGGAAAGTCTCTT
GAACCCGGGAGGCGGAGGTTGCAGTGAGCCAAGATTGCGCCATTGCACTCCAGCCTGGGTGAAAGAGTGAGACTCCGTCTCAAACAAAAACAAA
AACAAAAGTAAACTGTCTCAATTTTTATATTGATTGTGTGTTGAAATGATAATATTTTAGGTATACTAGTTTAAATAAAATATATTAAAATTAA
TTTAACCTTTTTCCTTTAATGTGGCTTAATAGAAATGTTTAAATTACATATGTGACTCACATGATATTTCCGTTGAACAGCACTGATCTAGACT
AATAAGTTGACAAATACATGATAGGACCTTTTTCCCCCTTCTTCCAAACGTGACTTCTTCCTCTGTTCTTGTGTCAGGCTCCTTCTCATCTGCC
CCCATATTCAGTTATTTGGTGAAGCACGAGAGAAAAGAGGTCCCTCTTCCTTCTCCCCCACCCTCATGCTGCTGGTTAGCAGGTGATCATTTGA
AGTCCACTATACCATGTCACTTTGGGATCTGATAAAATAGACTCAGTGATTATATTCATCACCAAGACCAATCCTCTCACTCAGGTAAATCTCA
AGAGGCTTTCAAACGTCCTACAATGAAAGGGTCATTTTAAATCTGGATTTAAAGTTTTACCTTTAAATCACTTCCTAGTACATTGTCTTTGTAG
TTTTGGGCACTTTGTAAAATCAGACGAGGAGACAACTAGAGCTTCATGTTTTTGTGCAAAGCTCATTAAATAAGTAATCTCATGCAGTAATAAA
TGTTTCTCCCTGTCCTCTTGCTTAAAACAGCATGAACAAAAAGTAGTCCCAGTTGCCAGAAGGGCTACTCCAGGGGCATCACAAAAGACCACCT
TTGGTTTCTTTCTTTTGTCCACTAGCTAAAGTGGCCCTCAAATATGTCAATGAAATAAAGATATATTTTTTTCCTGCAGTTTCATTTATTTCA
AAAAAAAGAGCAGTCAGATTCTGGTATTGCTGGAGAAAGCCTCTGAAGAGCAAAGACCTGGATTCTGCTTTTGTGTACTCTACTGGTTTGCATG
TTACCCTCTCTCTCCCTTTTTTCCCCCAACTTTCTCCCTTACTTCCTGTAGTAAGTTTGGTGTTGATGAGATAATGCCACAAAAAATGCTAATG
GTGAAATGTGCTGTACAAATTGGCCATGGTTATGATTGATAACCTGAATACAAATGGCATCTCTAGACATGTGCCTGCAGGGAGGAGTTGCCTT
TATGTAGCTGGAGCAAAACATTATGTAAGATTCTCTTGGAATAACATTTGTTCATTTCCACTTGAAATCCAAATCTGGGGGAAATGGCAGTAAA
GAAGCTGACAAGAATGAATCTTAGTGTATCTGTCACTGGTAGACTGAGTTCTTTCTCTAGTCTGTATAGGTTCCAGAGAGAGAACACCCAATTG
AAAAAGGACAAGCTGGTTTTATTCACTGGCCAGAAATGGAAAATGAGAGACCTCTTGCTCTAAAAAGTCACCTTCTCCCTAGCTGTGGGAAGCT
GCAGGATTGTGATGAGTTAGATGTGGGGCGGGGAGCTATGTAAACACATGCAGGGAGAAAGTACAGAGGCACAGACACAGATAAACATGTTTCT
CCATGCGTCCTATGGAGAGAAAATGGCGGCAGTTTTCTTCTAGGGATGGGGAGCCCAGCATTGTAACGCTATGTTAATGACCTAAACGGAACAA
GGGGTAGCCAGTTCTGGTTTGCACTGGTTTCCTGCAGGCCTCTTGTATTTGGCAAAGGATCACCAAGCTCCTGCGACATCCCAGGCCATCTGGA
GTTCTTTAAGCAAGAGTATCTATAGATAAAGAAACTAGGGAAGATAACAATTTAAGAAAATAATGAGCTTTCCCAGCTATTTCTCTAGGGCTGC
CCTGGTAATATTTCTACATCAACAGCAACACATATTTTTCAGCATTGTGTAAGCCAGGAAATCTATGCTAGACTCCACGGGGAAAATAGAAGAA
TAAAACATGGTTCTTGCTCTGGAGGAGCATAGTTCCTAGTTGGGAAGGTGGACAGAAACATAAAAGACCAGTAGCATGTAAAGAACATTTTCTA
AGTGTTACATAAATGATGCAAACAAAGTTTTGCAATTCTGGAGGGCAGCATGCCCATAACCTCTAAGGTATATTAAGAAAGACAAAGTAGAAAA
TGGGCATTGAGGGCTGGAAGCCTAAAGACACAAGGAGAGAAGGAGAGAGCCACCTCACATAAGAAAAAATGCACAGTGGTGTGGCAGTGGAAAT
GTACATGGGTTCGGGGGTGCGTGATGTGGAAAAGAACAGTTGGCTTAATCCAGTGGCTCCAGATCTGAGCTTTACATCAGAATCACCTGAGAAG
CTTTTAAAAATTACAAATGCCTCAGCCCCACTCCAGAGCTTCCATTTAATTAGTTTAAGACTGGGGACTGGTCTCAGTGGTGTTTCTGATTGAT
TTTGTTTTGTTTTTGTTTCTGTCTCAATTTCCCAGAATATTCTAATGTGAAGTCAGAGTTGAGAATCACTGAGCAAAAACCAAGATTTTTATAT
CATAGTCATGGGACATAAAATGAAAGAAGTAATCTTTTAAAGGAGATTAAATGGACAACCAAGAGTGTGACCTTTAATTTGTAGAAACTGTATA
TACATGCACATTTGTATGTAGTCTTTTAAATTCACAGATAATTCCTCGTGGTGATTCTGTCTACTTGGATGATGTGGCTGAAAGCCTTTGTAAC
CAGCTGCCTACTCTTGTCCTCTGTGTACTTTGGGGGTGTCCTATAGTGGATCCTAGCTAAGTGGGGCACAATGGGCATCTCACAGGAGCTTGTT
TCTACCAGGCTTTTTGTAATCATTGCCAAGGGCTTTATTATCATGCCTAATAGTGCCCACAGTAGCTATTTTATAAGCATCTGCAATCTTCCCT
CACCTCTCCAACTTTACAAATTGAGAAATGGAGTTTAATTACTTGCCTTGGGCCAGGAGACTAGCTGGTGATGAAGGTGAAATGAGAATTCTCA
GGGAGGTGAAATTAGAATTTCCAGCTACTGAATTCCACATACCTTATTAAACTCCCAAAGTGAGTCTACCCACTCTCCTGTTGGTGTTAGAATG
TTATTTCTTACATGAATGAATCAGTGTCACAGATCAGTAGGTGAAGATGACTGGTTTCCCTAAGCTGCCAACACTGTGATTATCTGAGTGTCAA
TGACCCATAGGCAGTCACAGTGGTCCCGAGAGCCCCGTCCCTGATGCCTGGGAGCTCTCAGTCTAGTGAAGTTTGGCCTTGCATATTTATAGTT
TATCCACTCTAACATCTGGGAAGTGAAGACTCTGGTTGCTATTCCACTGCTCCTAGCCCCACACTTTACGGCTGTTCTGATTTCCCTTCTCTGA
AGCTCTTGTTCACTGAAAGGATATCAGCTTTTTGCTACACCCCTGAAAAAAAGAGGAGAAAGCCCAGCATTTTAAACAGCTGCTTTTTTTTTC
TTTTGGATGGAGTCTTGCTCTGTCTCCAGGCTGGAGTGCAGTGGCGCGATCTCGGCTCACCGCAACCTCTGCCTCCCGGGTTCAAGCTAGTCTC
CTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCACGCGCCACCAAGCCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGT
TGGCCAGGATGGTCTCGATCTCTTGACCTCCTGATCTGCCCGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCATTGCACCCGGCC
AACAGCTACATTTTAAAGAATCCTTTATATGTGTTGGGAGCTTCTGGGTTCACTGCCCACGGTGAGACTAGGGGTGGGGACGGAGGTTCTTCTG
AAGGACAGTGCGGGGAAAAAGCCAGAGTCTTGGCAATACAGCCTCTTTAGACAAAAAGATAGGTCAATTTGTACCATTCCCAAATGGTTGGGTT
TTCTTTTCTCTGTCTCAAAATCCATTACTGATTTAAAACAATTTCCAAAAGCTTTAGCAATAGCAAAAAGCAAGCCTCTTAAACAGTGTTGCTC
CACACTGATTGCACGTGAGAATCACCTAGGGAGCTTTAGAAACAACTATAGACTCACTGAATCAATATTCTGGGAAGGGGCCTGGACATTCGTA
TTTATTTACAGTTCTCCAGGTTTATAATGTGCATCCAGGGCTAAGAGCTACTACTGGTCAGCTATGATCCAAATCTTAATTACTTATTTGTATT
TCTTCTTTTGCCTTGTTTTAGAGTCTCATGGCCCAGAAAACCATCAAACTATATTTTTGTTGAGTAGCAATTTCATCATTCTGTTCTTTAAAAA
ACATGATTTTGAGCATAATTTAAGTTTGCTACTTCTATAGAGAGACCTCACACTCAGTAGCCTCATCACTAAAATTTTCTGTGTGCAATTTAGA
AATCACATTGCCAGAAGCTTGCTAATTAATTATGAGACTGAAAGATAAAGGTTAAGCTTTCCTGCCACCTATATATTAGATTTCCCAATTGCTA
TGTTAATCTTTAGTTAACCAAGACTTGCTTTCTTGTCTCAGCCATTTTAAAGCCAATTAACTCTGTTCCTGTTCACACCCTTATTAAAAATATA
ATTACAGCAGTAGTCTCCAGGGACTGTCATTGGGTAGGCTTTACCAAGGTAAATTAGCCAAGAAATAACTAGGCTGTGTAACACCCTCTCAGAC
CCTGGAAATCATTTTGGTTGCAGAAGCTACTTAGTATCAGAGTAGGCTGGGGTACTCATAAATTTGGATTTGGAAAAAGCCAATTCCAAGTCAT
CCTAAATGTGGAAGAATCTGTGATTTTGAGAATGATTCTGGAATCAGTTATCCAGGGTCCAGCCAAGTCTGATACACCGATCCTCAGAAGGTTG
TATTAATAACAAAAAGAAACCAGGTTTTTGTATTAGATTTGATGGAAGAGGCTGGGGGACAGAAGGTGATGTAGCATTTTGTTTTCTGGGGTGC
TGAGATTGTGGGATTAGGAGAAAATAAGAAAAAAGATTGCAGGGGAGAACGATGGACAGAGGCCTCCTGTTAGTCAACTATCATGGGCATCAGA
ATTTCTTTATTCACTCAACTAATGTTTATGGAGGTTCTGCTTTGTTCCAAGGACCCATTATAGGAGCTGGAGATAGAAGGATGAAGTTCCTACT
CTAGTGTAGTTTAGATTCCAGTAAGAGGAAACAGATATCCACACTAAAAACAAACAATAAATAAAACCCAATAAATTAGTCAGTACTATGAAAA
AAATGCAATGAACTGAAGGGAATAGAGTTTGCTGAAGGCTGCTTTCAATAGCTTGTACAAGTTGCACTGTCTGAGGAGGTGCCCTTCAAGCTAG
CACATCAATACTAAAAAGAAAAGCATGCCGAGAGCTGGCAGAAAGAAGGCTTCAGGCAGAAAGAACAACAGCAAAAGTCCTAAGACTGGAAAAG
GTCTGAGTTGTTCAGGAAACAGAAAGGAGACCATTGTGGCTGGACCCGAGGTAAGAAGCAATGAGGGAAAGGTGGGAAAAGAGCAAGGAGGGCC
CGAGGTCATGGGATGGAGTTAGGCTGTTAAGTGCTTTGAGAGCCTAACATCCTAACTCATTGGGAGGTTTTCAGCAGGGTAGGAACATGGTTGG
CATTGCCTTTGAGAGCTCTTCCCAGCTTCTGTGTGGAGAATGGCTTGAAGACTGAAAGCAGAGGGTTTGTAGGAGGCTGATCGGAAGTACAAGC
AAGAGGGGAGGGTGGATCATGCCAAGGTGACAGCAAGCAAGGTGGAAGAGGTGTTGGATTCAGGATGGAATTTGGAGGTATGGCCAGCATGGCT
TTCAGATGGAGGGGACCAGCGAAAGTGCTGGAAAACCTAGTCCTGCTCAAGATGATTGTTCCTGCCCTACCCTTGTTTTAGACCCCTTGTTTTG
AACTAAAACAGAATAATATCTAGTGCTATTTAAAAACATTAGGAATTTTAACCTTAACTTGTTTAAGCAGAACAAAACAAATCCCTGCCTGGGG
AGAAACTTCTGTTTGCTGCTTTTGCCTCTTAACCATAAAAATTTCATCCTGTCTCGTAAGACTATTCTGATGGCTTTTGTTGTTTTTGATTACT
GTGCTTTTCGTAAGTGCTGGAAAGGTCACATTCGCATTACTAGTTTATCTCTTTTCTGAGTGTTTTGACACTTTGGCTGTGTTTACCAAGGCCT
TCCTGCTGTCAGACATTTACATGGGGCTTTCTACAGTTGATCAGTTTGTCCATATAAGTGCTAATATAATCGCAAGCATTTAGTGGGCACTGAC
TGTATGCAAGGCCTTGTTTTAAGAATTTCATGTTTTAACTCATTTAGTCCTTCCAGCCACCCTTTATAATAAAAAGTGTGTACTCTTATTATCA
TTTTATAGATGAGGAAACTGAGGCAAAAAAAGAGGTTAAGTCATATGCCCAAGATCATACAGCTGGTAAGTAGTAAAGCCAGGTTTTGAACTGA
ATCCATCTGTACAGCTCTGGGTTCCTAGTAACTATGTTGTGCCACTTTTCTATGTAATTGAAGCTGCCACCTTCAGAAGTAGACTTGTTTCTCC
TGCAAAAACCCCAAGGTACCACTAGGAGACACTAAAACTGGGCCGGGCTTCCGGGAGTTGGACTGGTGGGGAGATGGCATAATCTAGAGGCTGA
ATGATCCAACCCCCCTCCAGGAAGGCCTCACATCTAAACCACCTGCCATCTGCCAAGGTGGGAGGATAAACCACCCCCCACCCCGCCGCCAACA

GGGCACTGGCTGGTGAAAGTTGCCAATACCAGAGGAGTCTTGATGAAATGCCCTCTCTTTTCCTCAAACTCTTTCTGCCTACTATTCATAGTAT
CTGTGTTGTACCCACCCACCTGCCACTTATCAAAGACTGAAGAAACCAAAGTTATTCAACAAGCCATGAAGCAAATTCTAATTGCTCCCCACGG
CCATCTGAGGCTGGCCTTTGGAAACTTAAAAAAAAAAAATTAAAAAAAGAGAGTCATATTAATTTATTTGTTACCACATTATTTGCTTTAAAAT
TCTGGTGGCTTCTTTCCAGTGTTTTATTAGTAGAAGCGAAATAAGCCTAGGAAACACAATATTTCATTCTGTCTTCTCTGCTTTTCACTGCATA
TCTACCTTCAAAAATGTCTTCTCTCAAGTTACTTGGTTTCTCAATAACTAGCGTGAAAGTAACAGACCTTCCTTCCTTCCTAATGATAGTAACA
ACAAGGGATTTACAGAATTGAAGTTTATATAAGGAAATGCATTAAGATTTTAACTTAAGTAAGTGAACTATTCAGCAATGGCTATAAAGACAGT
AATTGTGATGATTTGTCTTCTATATTATATGTTTAAACTAGTTATATATTTTAATTATATAAGATGCAATTTTTTTTGCTCCAGTTTCCATAGGG
TAATTTTCAACAGAGATTAACATGCGTTCATTGGAAGTGTTGAATTTACCTAATCAAATCATCAATTTGTTTATTCAACTTTAATTTTCAAAAA
AATGTTATTTTAAAATATTATATGATATGTGTCAGGTATTTCTTACGGTTGACTTCCAAATTTAAAACTGCAAAGAAAACAGAAATCCATACAT
ATAGTTGCAGTAAACTATACTCAATTTTGGAAGATTGCAGTGGCAACATCAGTGAATTAAAGTTTGAAAGCTATTTCAAATCTTTGCATATTCT
CCAAATAACTCAGAATCCTACAAAAAGCTAAATATTTAAAAAAATTTATCTTCAAACCAATAATGTAAGTTTCTTCTTTATTGGGATGATTTTG
GTTAAATATTTAGCAGAAAGTAAGGGTGAATATATATTTGATATAGGTATGTCCTAAGCTAAAATCAAGTCATTTAAAGATCAGAGCAATTAAT
GGCAGTTATGTGATCACAGGAATCAGTCTATCTCCTCCCTCAGGGTTTGATTCAATGAGTTTTATTTTTCTCTTAGCAACTTTTCTTATTTTAC
TTTTCAAAGGACATCATTGAAACCATAATAGTGTTCATATCTGTGACTTTTAAATTTTTATTTATTTTTATGCATGGTTTAAAATTCATTTAGT
TCATTTAAAATTCAAAGATATAAAAGAGCATTCATAAAAATGTCCCCCTCTCCTGTCCTCCAGCCTTTACAAAAATATACCATATATATTAATA
TGGGCTAAATACCCTTTTAAAGTTATCTCACACGCAAGATGCTATGACTGTGTGAAGCCGGAGCCTACAGACTATTGCTGATCCCCCAGTAGTA
GTAGCAGTGACTCTTTAGTGGCCCTGGAGCTTCCTTTCTAAACTCAAGTGTATATTTAATGTGGCTATTTAGGGATGAACAGCAGTATTTTCAG
AGAAAAGTATAGAAGAACAGATGAAATCACACAAGATGCACACATCTGGGTATTGGTGGGCATGTACTTTCAGCAGTGAGTTTACAAATAATCT
AGACAGAGTTAAGTATCAGGTTTAAGAGTCCTAGGATCTAAGCCTGCACGGGTTCAGTCTTCTGCAGGAACTTGGGAATGTTGGGGTTCACTTA
GGCCCCCAGTGTTGGCATGTACACCCACTTTCAGGAGGCTGGAGGTATAAGTTCCTCTCTGCATTTGTCTCAGGTCATCACAGGCCTCAGAAGT
TTCTCAACAGAAAAGGATTGCATGGGTTGGATGTCCAGAAGGATACGTGGAGTTAAACATCAGTCAGTGGAGCTAGAGGCTTGCTAAGACTTGG
GAAGAGGATGAGGGAAGGCAAAACCTGTCACCTAAAGGGGAATTCTAGAATGTACTTACTACACTCATGACATTACCCTACCACCTTCATTTAT
CACCTTGTGTCAAACATAGACTTCTTGGTCAAGACCACTATGCTGTAAGCTACCTGAGGGCAGGACTATGACTTATTCTCCTTTGTTTACCCTG
CCCCAGTGCCTAACAGTGTCTTTGGAATTGGAATGTTCAATAAGTGGGTTAAACTTTTGAAACTGAATATTTCAAATAATCACAGATAACAGAT
GGTTAAAAACCAAGTCCTTCTCAGCCTAACTAGTGCCAAACCAAATCATTGTCCATGTCTCCTAAAGAAATGAAAGTTTTCTAATTACCTATAT
AGGTCTGGACTCAAAACTATAAGGCAGCACACTGTCTTTGGTGTTGACCTATGTCCCAGGTTGTCCATGGTCATCACACACTAATGACCACTTG
TATGTATTTCATCTAGAGGATCACACAGAGTGGTATGCTAGGCCCAAGGAATAAGTTTACCTGCTTATTTCACTTCTCCACTGTCATCCTACTG
TGTTTCAGGAAGAATTTCTTTTACCTCTGCTTACTCTACTAAGATGCCCCACATAAGCCCCCAACTCCTTTCTTGTCCCCCTCCCACTTTGTT
GTCTATTTTCTTCTGTCAGACCCCTTCCTCCTCCAAACTGAACCTTCCTGAGAATATACCAAAGAACTCAATAAACCATTCAGCCCACTATAGT
TCAATAAATGAGCACTTCCAGAATTTGCATTTTAATAGTGGTTCAACCTCAAGTCTCTGTTGGTGGAAATGTCACTGTGATCTAGGTGAGGGAA
ACATTTTGAGAGCCTGTGGGAACCTCCAATAGCACCTTATAGTAGCTTCTTCTGGTGCCTGTGTAATACTACAATTTCCAGAAGCCTTGTTGAT
ATCCAGCTAAGTGAAAAGAAAGTCCTCAGTTCCAGAGTTCTTACTTCTATTTCTTTTTTTTTTTCTTTTCCCTTTTGTTTTTTTTTGAGACAGAG
TCTTTTTCTGTCACCCAGGCTGCAGTGCAGTGGCGCAATCTCGGCTCACTGCAACCTCTGCCTCCTGCGTTCAAGCGATTCTCTTGCCTCAGCC
TCCTGAGTAGCTGGAACAGATGTGCGTCACCAAGCCCAGCTAATTTTTTTTTTTTTTTTTTTTTTTTTAGTAGAGACAGGATTTCACCATGTTG
ACCAAGCTGGTCTCGAACTCCTGCCTATCCACCTGCCTCAGCCTCCCAAAGTGCTGCAATTACAGGCATGCGCCACCGTGCCCGGCCCTTACTT
CTATTTCTAAATAGCAATGGATTCCACTCTTCCAAGGACCCAGAACTTGCCCTAGGGGTGAGGGTCTTTTGTACATCTTGCAACTGAGAACTTT
TGCTAGAATCAGACAGACAACATAGATCTCAGCTCTAATTTTCCAGGAGTGAAGCTGTGGAGCAAGTGAGTTACCTCTCTGTCTCACTTTTTCA
TCTGTACAATGAGGCTACTAAAACATACATTCCAGGGTTGCTGGGAGAAAAAGACAAGACAAGGTATGTACAACACTTGGCACCAAGGAAGCAC
ACAATTCATGGGAGTAATTACTATCATCCTCACCAAGAGTTCATGATTTACTGGGGGACACCAACACATGTACAGTCAACAGGGTAAAATGCTA
AGGGTGTGGGGCAAGTGTTGAGTCTGAGCTCAGTAGAAATTTATGAGCCTCAAAGGCCCTAAAACATCCTTGACCACTCAGTTCTATTTCACAC
CCTTCTTGTACTTCACCAACAAACCAGCAACATGCTTCTGGTTGGCAGCCCTTATAAAAGAATTTACCTTCTATAGTCAAGTCCAAAGCTCTTA
ACTGCTTACCACATGACAGCCAATAAGACAAGATATTGGGGCAAGGAAGATGACTTTTTTTTCAGGGAGCCAGCAATCCTAGAAGATGGCAGACT
GATGTACTAAAGAACCATCTTAAGTTGATAGATTGTTAGGCTCCTTTTATGTTAGGGGAAGGGGGAATAGGTAGGGGGTTAAGGTCCACAGTTG
ACTGGTGACCACAGGCATCTGGGCATCAGCAGGGATCTAGGAGGTTGCAAAACTTCTTTGTTCATGGTCAACTATTTTCCAGATTGACCTTGTT
TCTATAAATTTTTAAGATGGCATTGTTATTTGTGTGCATACTTTCTAATCTCCTCAGGGGTCTGTTTCAAAAGAGAGATGGTCATTAGTTCTGA
AGTTAAACTATAATCTAAATTCTTTCCATCATTAGCTTGGCCTATGTATAGGAATGAGCAAAGGCAGTTAGCCTGTGAGGTTAGAAGCAAGATG
GAGTCAGCTATGTGATATTTCTCCCACTGTTACACATCTCTGAATACAAGAGGAATACATTTCTTCTTTTTGCTGTGTTTGCTTCAAGCCTGTA
CCACTGAGAAATTGGGTGATCCAGGGAAGTTTTACTTCTCTTGAACCTCAGGCTCTATCTTTGTAACAATGGAGAAATCAATGCCTGCATTCTA
GGCCCTTTTGAGGGTGGAGGAAGACAATGGTTGAGAAACTTCTCATCTATAGTTGATCCTCAATGCGTTTGCCCCTTTTCCTGTGGCACTGCTT
TGTATTTGGATGGTTCGAGCAGTGCGTCACACATGGAGGAAAGGCAATGGAATGATGACAAATAGTTTGTTGATTTGGTGCTTTGTACATTCAC
CCACAAATGGCACAGTTTCAGGGCCACTGTCCTTGCCAAATACTATCTGAAGAGCTAGGTTATGAGCCTTTGGAACCCAGATCTGATAAGCATG
GAGGAAAACTCCTCAAGGGAGATGAAGCTAGGAGATTAGCAGAATATACTTTCTCCATTTGTCCCACATTTGATGCCAGCAGGCAAACCAGAGC
CAGCTGGGCAGTGTACAATTCCCAGAAATAAGGAAAGGGTAGAAGCACCTGTTTTTCCTCTAGCAAAACCAAGGCAAATGGAAAAGCTCAGAAA
TATATCAGCACCATTAGCAAGAGGCACAACGGGGAAGGCTGGAAATGTGCTGAGGAAAATCACATTGCCGGTCAACGCATAGCTACCTGCTGGA
GAAGAGAGTCTGCAGACACACCTCAGCCTGGACAAAGGCCTCCAGGACCGGGAGCTGTGCTCTGCAGGAACTGGGCCCCAGGCACTGAGGACTG
AAAACCAGCCCAACAAAGCATACCTGTTTCCATTTGTGAGAGATGAAATGATATGGGTTTTGTGACTCACTAAACCACTTGGAAGGCCAAACAA
TTACAAAAGCAAGATGCCTGGCTTCTTCTAGCCACATGGAGGGGCCCTCAGACTTGAGTAGCTGTGTGCCACTTGTCTGGGGTGGCTGCACCAA
AAGGAACAGTGAGGTTTAGATGCTTGTTATTGTTCATTGTTCAGTTTTGGTTCTGTCTATTTACTTCTAATTCCTCAAATATTATTGTGATTAG
TGGTATAGAAAGGAAACGTTCATTTGTGAGCAAAGTGTGTAATAAGAATTTAATAATGAAATTCCCAGAAAAAAAAACTCAGATAGCTAAAGAA
ACAGCAGTAACATGAGCTCCAAATATCTTGAGTTGTATTGTTAAGGTGAGAATCCATAATGTAAAGGGAATAATGTAAAGGGAATGCTTTGAAA
TCAAAGGCATAATCCAAGTGTGATAACCTAAAAGGTTGTGGATTTCTTTTAAAGTAGAAATTACATGTGGCTTTGGGAAATCATCAGCTGAAGC
ATAAGCTATGCTTATGGATTCTCGCTGTGTTGTCACTAAGACCGATTATATAAAGACTTGGCAAATCCATGTACAAATGTAAAACTTCCCACAA
TGGTATTTCATGGGGATCTCCTTTTACAAAGTGGTCGTTGATCAGGACATTTTTCACTGATATATTCCTTTGGAAGCAATGAATTTTAGATAGG
ATATGATTATTGTACAATGTGATAGGTAGCTCTGATTATTCAAGCAGCTAGGGCATTATTCAGTGGCAAAGCATTAAGCTACTCTGGAATCTTT
CTTCTGTGTAAGCAGGCAGCTGCTGTTGAGACTTTCTCTTTGTGGGTGAATTTGCCCAACCAATGGCAAGCATTCATTGGGAGTAGGGGAATGA
CGCTGATCACTGTTAATGACAGTTGAAAATGAAATGCTTTAATGAATCTCATACTTGGACTTGGCTGCTGAGCCAGAGCCCTGTACTTGAAGAG
CTTAATTATGATGCCTCAAAATTTAGATCTTGACCCTGAACTGCTATGACTTCCTCCCACCCTCAGTTTTGAGAGAAACTTTAAATTCGCTAGG
GGATTCAATGTTTTACATGCTTGGTTATGCAAAATGGGAACAGTAGTGTCCAAACAATGGAATAGGCTTCTATATTATTATTTTCATTTAGGCA
GTATAACTGACATGATTACCAAAGTCATGTTATAGTACATGTATACAAATTAATTTCATACCGGGGGACTTCACTGGGGGGAAAAAAGGGAAGT
CCCTATTTGTGAAAACTATGATTTTGGTTTCTTTCTGAGTAAAGCACTGCTAATCTCTTTGGTGTACAGGAAAGTATGGTATTATGTTCTAAAA
ATCAGAAGCCCCAGACCTTAATTTCAACTAATCTGATGACATCATTTTGTACTCAGAGTTTCATTTCCCAACAATTTCATGTTTCTTAGTAGGT
GGGGAACCCAGAATTGAAAGGCATCAAAAACAGCTAAATATAACCAAAAACCTGCTAACTCACCAGCTTTCTAAAATTCAGGAAGTATCTTTAA
CTTGATTGCTGAATCTCCAAAGACATGATGATCAGATGACTGGTTAATGGGTATTTTTTCAGACTCTACATGATTATCAGAAATGGCTGCCCTG

GCCAATTGTATACCTACGAAGAGGTATTATGTAGAAGAACTTATATTCATCTACTTAATGTGGACCTCAAATATTAAGGATGTTCCTAATGTGT
TCTAGACCGGAGTCAGCAATACTTTTCATAAAGAGCCAGATAGTAAATATTTCTAGGCTTTTTGGGCCATATAGCCTCTGTCACAATTCCTCAA
CTCTGCTCTTGTCACACAAAAGCAGCCATAGACAATGCATAGGTGAATGAATGTGGCTGTGTTTCAATAAAACTAGACTCTCTTAATGCCAAGT
ATTTGCTGGAATAACACAAATTAATTTATCCTCAAATCTGTTTAACCTATTAATATGTCAGTCAATATTACATTAATATTTTATGAATCTGGTA
TCATATTATACATGAATTTATCTGAACATTTGGTTAATTCATGAATATTTACTCAATATTAATACTACATCATGAATCTGTTATCAAGTCATAT
ACAGATTTCTTAAAAAATTTCCCTTATTTAGCATACTTGTGAATAACATCAATAAGCAAGTATCTTAAGTTAACTATCAGGTTATATAGCAGAT
CCTCTCCCCCTTTTGTAACTCTTTCTGTTACAAGGGATTTTACATTATTATGGTATTGGGAAGTAAGTCTATTTATCCTGTCCCTATCTGTCTT
CGTATTAACCATATTCTGTTATAGCTTTTATCTTTGCAGACAGAATAGTTCAAATCTTCATGATTTGTCCTTAAACAACCCCCACTTCCTCATC
CTCTTGAACATTTTATGCCTCCATCACTGTCTCTTCAGGTCTTGTGAGTCCTTGAAGTGCAGTGACTAGGCTGGAACATGGTGTTCCAGGTTGG
TCACATCACCTCTTCCTAATGATGCCCCATTGTACCTTTTGACTATAGCAAGGAATAAACAAAGTCAGAAGTGTGAAAGTGGGGGAGAAATTGA
GAAAGTGCAGGGGATTTAGGGGAGAGAAAAATGGACTACAGGAAAAGAAAACATTGACTTTTGCAAAGTGCTCTAAACTGGCTACAAATGCATT
CCGTAATTCTTTAAACCTTAATTGTAACCGCAGTTAAGCTTTCCGGTGTGTTGGAATAAGAACAAAACTAAAATCCTTCTTTGTATAGAAATTA
TCCTGCAGTAACTTAGAGCCAATATCTCTAGTTAGGATGAGCGCAGTGGCTCATGCCTGTAGTCCCAGCACTTTGGGAGGCTGAGGCAGGTGGA
TTGCTTGCACCCAAGTAGTTTGAGACCAGCCTGGGCAACATAGCGAAATGCTGTCTCTACAAAAAAATTAAAAAATTAGACGAGCATGGTGTCA
CGCACCTGTTGTCCTAGCTACTTGGGGGCACTGAGGGGAGAGAATCACTTGAACCTGTAAGGTCAAGGCTGCAGTGAGTCATAATCACGCCACT
GCACTCCAGCCTGGATAACAGAGTTAGACCTGTCTCAAAAAAAAAGAGGAAGAGATCTCTGGTTAGAGTTTGTCTCTGATGGATACTAACCATG
CAAGTAGTTTACACAAACCACATTCTTTCTGTAGAATGAGAAAATCTTGGATATAATTTAGCATAATGAGCTAAATAACTCTAGACTGAGCTTC
GCTGCCCAGACAGGACTCTACTTGTGATCTGGGAAGATCTACCCTTGCACTGAATTCTCTCCTCTTCTCTCCTGACTCTGTGAGAAAAGTTTGC
ATGAATTTACTGAGATTAGTTATAGAAGGAACTGTGTGTCATTGAAAGTCTTGTACAGAAGTTCACATTAAAATATATCATAGTCATCTTTGGG
AATGATTCTGCAAAATTCATAAAACAAAGATCTCTGAAACCCTAAGGCACACTGTGCTGGAGGCTAAGGGAATAATAGTGAGCTGAGTGGTTTC
TGCCTACACAGAGCTTCTAATATATTGAGGAAAGAGATCTCAATCAAATTCAATTGCATTTATAAGTATGGTAAGGACAACAAAGGAGAGAGAC
ATTATTCTGTAGGAGAATAACCCTGTCAAAGTGATGACTGATTTAAGATCAAAATGGGAAGGTAAAATTTTCTCAGTACCTGCAAAGGCACTGA
GGTGGGAGGGAGCATGCCAATGTAGGGAAATGAAGAAACCCAGTGTGTATGAGCCAAGCTGAATAAAACATGAGAAGAAGCTGGAGAATGAGAG
AGACCAGTCCCCAAGCTCTCAAGGAGCAAGAGGAAGCCTTTTCGGCATTTGAAGTGGAGGGATGGCATGATCTCGTGCGTAGTTTTTAAAAGAA
CCACTCAGGCTACTCTTTTGAGAATATTGTGGGAGGCCAGAGTAGATGCCTATAGACTTATACAGAGGTTAAGGCAGTTGATAAGAGTATAAAC
AATGATGGTAGCTTACCTCACATGCTTTTTAGATTATAGGCTAGAAGGTGGCCCAAGCCCATATACCATCATGGCACAGTGAATACGTTTTCCT
TCTGGATCGTGGAAATGAATATTGTGCCACACAGCTTGATTGACACTCCCCAATGACTTTTAATACTGTGGGATCTCTGGCACATACTTCAGAA
GATGAGAAAGGAGTTTTAATTAACCTCTGTTTAGGAATTCCATAGACATAATTTTCATTAACATCTACTTGGTATTTCATCTCCATGAATTCTT
TCCAGTGATAAAGCTAGTTGGTTTATCCTCCAGGACTGCTCAGTTCTGAACAGTGGGTCTTAAGTACTCTTTGGATTTCTTTGAAGGCTTTTTT
TTATTTTTGTTGACTACCTCTCTACTCATTTTGCCCCAGAAAAAATGTAGTCATTTCTTTGATAAGTGAAATCTAAGAAAGGCTTATTTCATTT
GGTACATTAAAGAGATGGAAGAAAGTAACTTTACATAAGAATATAAATGCCAGCTGTCCAGCATATTACAGAATAGATTTCTAAATTTGCTGAA
AGGTTAGGAAAATGGATTCTTATATAGGCTTAAAATTTTTATAATTTTTTTGGCATTCTAGAATGAAATAAAGAAAATCGGTATCATCTTGATC
TCATCACCCAGAAGAAAAAAAAAACACTGATACATGGTGAAATATTTTCCTCTCTCATTTTTAAAAAGAATCAGGAATAGATTGTATACATATT
TTTCAAATTCTTTCTACTTAGTGTTATATGATAGTCAATAATATATGTGTATGTAAGTAGCAATAAATCATTCCTGAAAACTTGTTTTTTAAGC
TTGTATAACATTCCGTCATATGGATGTACTGATTTTGCTAATTTGTTAAGTTTAAAATAATATTCATTTTCATTTCTTTGACTACTAGGTATAA
TTAATTTTTTCATACACTCACTACCCTTCATACTTCTTTTATTGATTTCCTTTTTATGTTAATTATTAAGATTTCTATTTGACTCTCAACATTT
TCTTAATTTTTTTATCATTAATAGATGTAAAAAAATTCTTAATTTTTAAAAAATAAACCCTTTTCATCTTAAAGATAGCAATCTATTTTCCATA
ATACTTGTTATAAATATTTCCCCAGTTTGATGTTGGTCTTTTAATTTTGTTTAAAGTATTTTTGACAAATAAATAAGTTTTTGTGGCTTGAAGT
TTGTTCATTTTTTTCATTTGTGATTACAGTTTAGTTGTTGATTCAACACATCCTTATTGAGTGTTTTGTGTTCAGCACTAAGCGAGACACAAGA
GGTAAGACAGAAAAACAAGGTGCAGGTGGTTTTGCCACTTAGAGATTACAATTTAATGAGGGGATAGACAAACAAAACCAGGTCATTATAAAAT
AGTATACTACAAGCTATGCAAGAGGAAATACAGGTGGGAAGAAGTACCTGATCTGGACCTGGGGGATAAGGGAAGGCTTCTGGAAGGAAACAAC
CTTCTAGCTGAGAATGAAGGAAAATGGCAACATGAATTTAGAGAGAGGAAACAGTATGTGTGAAAGTGTTGTTCAGTGTCCTAAATGTTAAAGG
TCCTCTTTCCCCAGAACATGGAGTGTGTGTGTGTGTGTGTGTGTGTGCGCGCGCGTGGGTGTGTGAAGGAGCAGGGCAGGGTGGTGGTCAAG
TGTGAGCAGGAGGCCACTGGGGAGGCTGCGGCAGTCCGAGAGAAAGACAATGATGTTGGGCAGAGGATGTGTTGAATAACTCATCCCTTTTCAC
TGGACAAGCAATGCTTCAGTGTATATTAAGTTCTTATTCATAGCATACCGTCTATTCCAGAATAATCTAATTAGTTTTATTGCTATATCAATTC
TTGGGCCAACACCACACTGGTTTTGAGTTTAATGAAACGTCTAAACTGGTAATGCATGCATCCTCTCATCACTTTTCATTTTCAAAATTGATTT
ACCTATTCTTGCCAATGCGTCCTCCCAAGTAAACTCTAAAATAATTTCAAAAGTCACAAAAGCATACGTGTGTGTATATGCATGTGTGTAAATA
CATGTATATATGTGTATGTGTGTTTCTTCCAACCATTTTTCAGTTTTTGGAGAATAAGATGTTTTTATTCAAGTTGCTGTCAGTAAATATTTTA
TATTACATGACTTCTCTATACACACACACACACACACACACACACACACAATCTCCCATTGGTAATTTGATTGGGAATGTGTTAAATCAGGA
GAACAGACATTCTTTTTAATATTGAGTCAGCCCATCAAGAAGCATTGAATGTTTTCCCACTTACTCAATTCTTTTATACTTCTTTTTAAGCCTT
TATAGTCTTACTCATATAGGTCCTGCATATTTATTGACGGGGTATTCTTTTTTCTTTTATAATTTTAGCTTTTAATTATGAATGGATTTTTCTT
CCATTATCTCCTCTCTGGTATTACTGGACTACAGGATAAATATTAATGATGTATATTTACTTTTTATCTGATTATTTAACTGATTATTAATTAAT
TATAAGTGTTCATAGTTAATTATAAAAGTTTATAATCATGGTGTCTTTAAATAATGATAATTGTTCTCCTTCCAAAAATTGCATCTAATTTTTA
TTTGGTGTCTTACAGCATTGATCGTAACTTCTAATACTAAATAACAATGATAATAGTGAGCGTCCTGTCTTAATATCAATTTCAAGAAGAACAC
CTCTTACATAACATTTTAAAAGTGTGTTATGTGGAAGCTAATAAAATAAACTTGGGAAATGCGACAAATGAAAATTCTCTCTCCCAGGCATTC
TTAATTCATATTAACATATTAAGATGAGATCTGCAACAAAGAGATGAGTTCAACTGAGTTTAACCCAGTATTTCTAAAATGTATTTGACTATGG
AAGTATTTTTCCCTCATTTAGAATTTACATCAGTTATGACAGTCAAAATTATATTAATTTGATCTTCTTTCTTTTTTTTAGAAAAATAATTTTC
ATACTTTCTTGTCTTTTCTGTTTGATCTCTCTTTTGCCATATGGACTATGATTTGGGTTTACTTTTAATTTTTTTCAATAATTGAGAAGCTCGT
CACCCTTCTTTTTATTTCTACAAGTGGTTACACTTAAAGTTTCCAAGACATTTCTATCCATATCTTATACTTAGCAAAGTCAAAGACATGACCA
TACAGTTTTCTAATCAACTTCAAAATGAAATGTTATCTTTGAATAACCCCATCAAAAGAAATTTAATCCATTTTTACTTCCTTCCAACCTTTCC
TCAGTATTGGTAAGAATAATTTAACATTTTTTATTCATGTTACTGTCAGTAAATATTTTATATTATATGACTTCTCTTTTGTGAATTATGTGAT
CTGTTCAGCAACATAATCCTTTACAATACATTCCTGAGCAGTTCTATGGTTATCTGATTTCTGTGTCCATAACTATTGTCTTTTTATACCATAA
ATTTCTCATTTTTTTACTTTTTAATTTTAATATCTTAAGATTCGCCACCTTTTATCCCATTTATCCTTTTAGGGTGTATAATGTAGGTCATCTA
CATTTTGAGAAGTGCCTGATTCTGTTTACTATAGTGTCAGTTTTACCCCTTACTGCCTTCAGTGGACAAATTAGTACTATTATTTCATTTCTGG
CTCCTCTACAACCCCTTTTAATCTAACCCAGCACTCTTTTCCTTCCTTACTTTTATCTCATAATGGCTACCTGTCCGTTTTCCACAGTATTTTC
TATTTCAGTTGAAGATGATAAACAGTTTTCTGACATTGACATTAAGATGATGTTTCAGTTTCTGTGTCCATAACTATTGTCTTTTTATACCATAA
ACTTATTTTTCATGATTACTCGTCTAGGAATAAAAATCAATCTACTTAGACCCAATATTTTTGAAGACTGAGCATATGTAATGTGTTCTTAAAC
CTGTTCAATATGTACTGGGCTCTAAATGTCCTGGCCTACAGCTGGAGGGCAGAATGACATGTCCTAGTTCAATATCAGCCTCTAACAGGAATGC
TACTGATGTAGTTTTCTGCACTGAGATAGGATCTTCTTTTCTTCCATTGCCTATTCTCCTGGAGGCAAAATAGAGAACATAAAAAGTCATCATC
TTTGGTATGTTCTTCTTTAGGGGCTTTTTCTTTCTCCCAGCCCAACCCCCATAGTCCTTACTTGCTAGATGTGTGTTCCAGGATTCAGTTCACC
ACTGCCCAGTCTTCTAACATCCAATTTCATTGTTTTCTGAGAGTTGAGAATTTTCATACAGATATAGAAGGGATGCTGTGCTTGTTTGAAATGG
TTCTATTTGGCAGAGGATAGCCGAACAGTTTTTAGGCAAAGAATGAACTGTCTACTTACTTTCTTTGAAGAAGCCAACAATTTGGTTTTGTTGC
CAACAGCAAATAATATATTGGCTAATAATTGTGGTTTACAGTGACATGGGTAATGTTAGTCATAACATGTCTTCCAAGTTTCTGGCTATGGACT

AACTGTAGGTCTTGGAGTTTGGTATTATCTAGAATTTTCCTTCTCCCTCCTCCCCCCACCTCTTATCTTTTAGCATAGTTGAAGATTGGAACTTC
TTCCCAGAAATCTAGCATCTTCATAAGTCCTTTCCGGTTTTAAGATTTTTATCTTATATTTTATATATATATTACATATATTTCCTGTGAATCT
TGGCTGAATTTCTCATTTAATAAAGTCCAAGTTAGTATGAATAAATAACATGTTTCCCGATTTTACACACATACAGAAATTCAAACACATAATG
AACTCTCTGGCAGCCTTTAGCATTTGTAAGTGCTCTCTCACCAGGAAAATCCTTTAATAGATAACCAAGTGTCCTGGGGAAGAAGGGTGTCAGG
AAACTTATTATATTTGTGTCACTTTCTTCAAAGGGTGATTAAGTATATGTCTCCAAAGATGTGATGTTATCATCTTTGAGTATCACTTGAATTC
AAGTCAATATTTATTGAGACCCCATGTTGTATCAGGTGCCTTACTAGAAAGTCGACATATAGAGATGCATAAGACATGATCTTTTTCAGTGGGT
AATTTAAGGTCTTTCTTCTACTGCTAGCATTGTCATGTGTAAGGCTGGTGGGTTGAGTCTTTGGAATTTGTGAAGATTCTTCCAGGTTGTTTAA
AAAATCTTTTGATTCTCACAAATGTATTTTTTCTATTTCTTAGAATTATGTTCTTTATGGCTACCAGGAAATCCTTTGAAACTGGAATTAGATT
GCATTATTCCACTGGGGTAATAGGATTGGTAAGGTAGGAGTGTCTTTGAAGAATAATGCTAAATAACCCAGACACTAAGGCTGAATCTTCAGCA
CAGCTCTTAAGGCATCCTGTAAGTACCCTCTGCTGCTTATTAGAAATCCCAAAGCCCTGCTCCCTTAGGAAAGCGGCCCATCCCCATCCTCATC
ATAAGATGCAAGGCATAGCTAAACATCTCAACTTCTCACTTGAGTATTATATACTCTCAGGCCAGGATACTTTCCAACTCAAGAGTAAGATAAC
ATTACATTCTGATCTTCTTGTGTGTGTTTTTTATGTTTTTTTTTTTCATTTTATTTATTATTTTTTTTTTTTGAGACAGAAATTTTACTCTTGTCAC
CCAGGCTGGAATACAACGGCGCAACATTCTGATCTTCTTTTGAGAGAAAAGTTTCACACAATTAGCCTTTGAAATACACATTCCTTTAAGTACC
ATGAAAACATTGTCCCATACAACAATATTTCTAAGAAACACACATGTCCCTCCCACAATGATTTTTTCTTGTTACCACCAATAAAAATTAGAGC
TGTGTTGTTTTTTGTTGTTGGGTTTGTTTTTGTTTTTGTTTTTTGGTGACTACTGTGACCCTCAAAAAATCAATCCGACTTTCTCGATCTTGATT
TGCAACACCAAGGTTACCAAACAAAGAGAATGGTTCAATGAGGGAAAGCTCAACTACCTGCCCTAAATATTTAGTATAGCAATGCTGAGCTTTT
GGTAATGGCTCAAAATTCTCATGCTTTCCCACTAAATGAAAAGGGGAGCTTTGCTACTAGTAAACCATATTCAAGAAATAATTCTTATTAATAC
TTTGCTTCTTTCCTATGAATTATTGCTTTGTAATGGATGTTTGACAAGTTACTAGCAAAGCAGTCTTCGATGAGCACAGAGACCCATCAGATCT
GTATTAACACCTCCAACCACTGGAGTTTCATTAAGTAGGTTTCTCTACCCCTCTCCTTCAGGCCACAGATAGGAAGAATGACATTGGGTCCAAA
GTTCTGGCACAAAGAATGATGTCTGCCTTCCTGTGATGATTTCAAATTCAGGGTAATAATTCCAACTATCTTTCCCTGGCCATGATAGAAAGCT
CAAGAAATCTTGGTTCCTTGTCTCTTTTCTTCCATCCAGTTGGTCTTTCTAATTACACACTCAACACAATGTTCTGCTGAGCAAGACATCTGCT
GTAGCCACTATCACCCTTGGCATAACCAGATATTTAAAGGTACCTAAAGGAGTTTAGCTATATTTTGCCAAGATCCTAAGTTCTATGGCATAAG
AATCCATCCACTTCTCTATTGCCTATAGAAAAGGACAGCTCAGTCTTTCTGAAAGAATTGTTCTCAAACAAGAAAGCATTTGAGGTAACATGTC
AACAAGGTGGACTGGTAATTGGTGTTCCTTTCAGAGCCAGTTGGAGGAAATGGCCAGCTCAGACATTCTCTTCTCCCCAGTGTCCTATGGGAAC
AAGATTTACCCAGACACAGCTGACTATGAGAAGTCTTCAGGGATTTACAACCTGTCTAAGAACAAGGCCAATGGGGGACTCACTTTGCAACACG
TCCCTATTTGATTGTCAGAGGACAGATACTCTATTAACAAAGGAATTTGCACTGGTATTTTCAGGGACACATCAAGTAATTGCCACTTGAACGT
TTTTCCAGGCTTTCAAAGGAATGTAAGAATGGCCTAAGGCTAAATTACATTCATGTCTTTAGTGAGTCATTATATTACTGGCAATAAAGTATAT
TATTACTTTACTTTCAGATGCCCTCACATATTTTTTTAAAGTAGAAAGGAGACATATTATGGTCACCATTCTTAAGAGACTTAACTAAAAGACA
CTAATTTAATCTTTTAGTTACTTAAAAATAGCTGTTGCTCACCCACTATGTGCCAGGCTCTATACCAGGCACCAATATGAAAAGGTGAGTATTC
TCTGGTCTCCCTAAGCACAGTCTAGTGGAGGAGACAGACAAAATGCAGCCATGGCCAGAAGGGGGAGCAGTTAATGAACAAGTAGGCAGAGAGT
AGGGAGGGGATTCTGAGAGACAGTACGGACGGACTGAGGGTAAGTTGTACATCCCTGATATTTTGGGCAATTGCAAATAGTTTGATGACCAAAT
CACAAGGAGAAGAAGTGACAGCAAGCATGGCTGAAAATGTAGGTTGGTGTCAAATTGTAAAAAGCCTTGAATACTGTGCTGAACGGTTTGATCC
GTGAATCAGGTAGAGGACTTGACTCAGGTCTCTTGACTCAAAGGTCATGTTTTTTCTCTGCTAGATTGCACTTATCCTTCCAAATGCTAGTGGA
CACCACACTGAATTTGATCAAAGATCTCTCAATGGAAATATGTAAATTTCCTGTAAGAAGCAATTGGTAGGTTCTCTTATTATCATCTCCATCT
CACAGATAAGGAAACTGAAGTATAAAGAACTTGAGTAACTTGTCCAAGGTCACACAGCTAGTTAGGTGATCCCAGACAATTTGGCTCCAGAGTC
ACTAGTCCTAACTACAACAATTTAGCCTCTCTTTATCTAGAGGTCTTTATGCATTTGTCTGCATTCTACTTACGTTGGTATTGGTGAGTAAAGA
TTCCCTTCCAGAATAGGTTTGATAAATTGCCAAGTCTGAAACTGAAAAATTAATATCCATGATAACAGAGGTTTTGGGGTCAAGGAGTGAAAGG
AATTCATCCCATCCTGTCTCTAAATACTTTTTTCTTTACCAATTTATGGGAATTTGAGACCAGATATCTGGAACCAAGCAGCCTCACCCTATTA
AGGGAAAGAAAAAGAACAGAAGAAAAGAGGAGAGGAGAAGAGAAGAGAAGAACTAAAAGTATCTGCAAAAATATTAAAGGATTTGACCGAGA
TCTCTGAGATGCTCCAAAGATTGCAATTGTGCTTACTATCCAAGTTAATGGCTGTAAATCTAAGAGAATTATGATGTGCCTGGTAAATATTGGT
TGTTTTGTTTTAAGTCTTCATGGAGAAAATGGAAAAGACATTGGCATGTAGGATGAAGTCACAGCAGGACAGACAGGTCCTGCAAGTGTTTCTT
TAGATGCATTGATATTCATAACATCCAAACAGGCCTTAAGGCTGTCTTCTTACTTTACACTTACCAAAGGGGTAAAATATCATTTTCCTTGGAC
ACACAAATAATAAACGTACTCTCACAACATCACTTGAATGTTGTGGTTTTGCAAATATACTATGTTTTAAAAGCTATAGCCCTCAAATCCCTTA
CTAGACATCAATATTTGTTGGAATTTCAACATCAAAGATTTATTGTGAAGGGGGAGGGGGAGGAGTTACTCCAAAGGCTAGAACCAGTGCATAT
ACCATAATAACAACTCTGCATGCATTATTGCTTCTAATCTTCATAATTTTGAGTACTATCTTTATTGTCACCATTTAATGAAGATGTTAAGGTT
CTGGGGGCTTAAGTGACTTGCCCAAAGTTACACAGCTTGGTAGAAACAGAATTTACCACAGAACTTGTGTGTTAAGCCAAATAATTTTCTAGTT
CCATACAACTAAAAATTGGAAGGAAAAAGTAGAGCCTTATGAATAGAGTCCTGAGCAAGAAGGATGAACAATCTGCAGATGAAGTACTCTGTAA
AGGAAAGATCTGGGTTTGAATTCTAACCCTGCCTCCGTTCATCTGTGTGATCTTCGCAAAGTCTGTTAACTCTTTAAACTGTTGGATATTTATA
AAATGGGACTGGTGCTATTTGGCCTGATATCTTACAGGGGAAGATTCAGTCAGGCCAGGCGTATGTAGGGTCTCTCTGACCTGGAAAGCCCTAT
ATAAAGACATGGTACCATTCTTAGTGTTAGGACTGAAACTACATCCCTAGTGTCCTGACACCTCATACCAATACCCAGAAACCCTAGGCTCTTC
CTTCAATCCCATACTCCTTCCTCAGCTGCCAGGACAGCTTGGTTAAGAAAAGCCTTGTTCTTGGGGAGTATATCCATGAAAGTATCTCTATTTC
GTTGCAGTTTCACATTAAGTAAAATTAGAGTGCCCTTCACGAAGAATATATAATTGAAAGCCCTCCCACTGACTGCTGGACAAAGCACTTGTCA
GTCAACAAACCAGGTAGATTGAGTCTGCCCTCAGAGTTTTTGTATTCTGAGAGTGACTAGCAACTTTCTCTCATCCTAGAGCAACAGGGCTTTC
AGAGGACAGGTTCTGGGGCAGCGTGTAGCCACGATAGAATTGGTTTGCTTTTGTGTCCAAAGTCATGATTATCAGGAGAGCTGCCATTTATCAA
CCACCTCTTTGATACTTGGTGTATAGGACAGGCGTGTTAACTATATTATTTCTAAACCACAAGATAAGTCTGTGAAGTATTTTTATCCCTGGTT
TACAAAGGAAGAAATGAGGCTCTGCGAGACATGCCAGAAAGAACATGCTCTACACAACCAACTGGTTACAATGTGCGGCTTTGTCCAGCACTAC
CTCTTCTTTCTTGGCAATCATCAGAGCCACTCAAGGCTTGGAGGACTGTGCTGGCAAAAAGAAATCTTGTATTTTCTAAAACTCACACCCACA
CTTTGGAGGGGACAAGATTGAGATCAACCCCATTTCCTACTCTTTTCTTTATGACAGTTTATCAGAGCATTTTTTCCTTATATTCACTCAGTCC
TGAGTTTCTATTTAGTTGTGATAATAGATACATTTTTGAATTTTTAATACCTTCGGGTGCAAATTTGGAATCTATGGAGGATAAGGGAGTAACA
AAATGTTATGGAAATTGAAATATATAAATTATTAATTTTCCCTCTCCTCTACAGATTTACAATCACTTTATTTGGGGATATCAAGTAGGTTATG
TGGTTACTGTAGTACTCATTTAATAATCAGATTTTATTTAGAGAACTATAAAAGGTACAACTTAAGGGGGAAATATATTTTAGATGATGTTTTT
TTTTCAATTTCCAATTTTTGAAGAATGACGTGTTTTTAAAAACTTTTAAAGAATTTCTCCCACATTTCACTCCCTTTAAGGTAAATTGATAGCT
GTGAAAATGGCACCTTGGAAACATTTCTGTCATAATCATAGGAGAGAGTGAGAATTATTAATATTCTCAGCCATGTAGCATCATAAAGTAGATC
ACAGCTGTTTCTTTCAGAAAATGTCATTTGATTTTCGATCAGATGTATGGTCCATCTCACAATCTAACCGCTTCCACATCTGGAATATCTTAAC
TGAAAATGTCCACAGCATTACACGGCCTGGCTCAGGGGGAGAAAAGAACTAGGGCCTGCATCGAATTCTGTCTCTCACTCAGCTGATCTGCATT
CCTCCTATAGCATTTCCTTATAATTAAGAAGAGCTCATAGATTTGGGAACTGCATGAGCCTCTGTAACCTTCTGGTGAGGGTGAGAAGCTCAGA
ACTGCATTTCTATGCATTTTTCCCTAGTCTTTCCTGCTTCGGAGGAGAAGCCCTGCAAGAGCTTCCTGCCAAGGACCCTGCTTTCTCAGCAGC
CGGATCCGGAGAGCCAGAAATCCATCTTCAGCTCCTTTGAACTTGGCTGTTGTTAATCATGCTGTGGTTGTCCTTTAAGAGCAAAGGCTTCACG
GAGAGCAGATCAGCTGGCTGTAGGGAGGGTTTCAGCTTCTCATTGTAGGCAGATCATCTGCTAACAGCTTACTGAGAGAAAGTTGAGGACATGT
GGCTGAAACACTGTCAGAGCTGCTGTGAACACAGTCCAAGTGAGCAATTTTATGACCCAAACCAAGCAGACACTAAGTGCTTTCTAGTGGTGGA
AAAGGAGCAGAGAGAAAAAGAACAAAGACCAAGTGGTGGAAACAAAAAAAATATATATTTCTTTCAGCAGCTAACATATTTTTCTGTTTAGAAG
ATTGGTATCTCCTACTTAACCACAAACTACAACACATAAGATCAAATAAGATTAAATGTCCGGTTTGCTAAATAGCAGAGCGAAGAAACTAAGG
TCAAGATTTCAGACTCTTACATCTGAGGAAAGAGAGAGGCAAAGAGAAGATACTGGAAATGCCAATATCCAGTCAATGAAATAAACAGAGGCTA

CTGTAGGCATCCCCAGAAGCTTGCCTTTTGTCCAGTGCCATGGGAACCACAGAAGGCACTCAGCTTTGCAGCTTCACTCAGAATTGGGGCAATG
CTCCACAGAGTCAAGGGCATGTTATTATAAAGTGCTCCATTTGTTTACTTTGGCAAGTGGAAGATGACTTTGCTAAGCGATACTCTGCTGGGGC
TCAGGGCCAGCACTGCTGGAGTAGGAAAAGGGAGACTTCCTGGGGCAAGGCTTCTCAATCTTCCTGCCAGCAGCATTGCAGTCGGAGCGGCACT
GAGGTGTCAACAAAAGGATGATGAACTGTGTCAGCAGTGTTAGCAAATGGCTGAAGTAGAACGGAGCTGCCCAGGATGCTGCCCTGTCGCTGGG
GAATCTGAGGGAGGCTGAAAGATATTGTAAAAGAGATTGAAGGGCTGGACTGGCTGGAGGAATGGTGCCATCGGCATCCATGCCACAATACTCC
AGGACTGCCCTGCCTTTGTCAGGACAGCCATCAGAGGCGGTTTTCCCTCTAACCAGGATGGGCATCACTCCTTGGGCTTGCCAGTCTTACCTCT
CCTCATGCAATTGCATGTCCAAGGCATGCCCTCAGGGGATGGTGCTGATCCAGGGTGGCAAACCCAAGTGGGGAGAAAATGCTGAATCTCATCC
TCTCAGAGATCTGCTGCAGTCAGCGACTATACTGAGGTGCATGATCTGAGCAGCAGTCGCTGGTTGGGGAGGCTTCTTTTGTGGAGTGGGTCTCA
GCCACAGCCTGAGGGTCCTCTCTTGGGGATGCTACCAGTTAATTGGGTCATCTTCAGCCTCCACCCAAACTTAGGCCTGTAGGTCCATCAATTA
CTATATCAGCCTCAAGGACTGAACAGGTGGGAGGAAGGACTAGTGTGAGTGATGGAAGCAGCTGAGCTGAGGAGTGCTGGCACCTGTGCAAATC
CAGCAAGAATGACATCTGGCTGAGCTTCAGTCATTCACCTAAGCACCAATCGGGGGTCACTCCCAGATCTGAGCAATGAGGGAAACTTCCCAGG
GGGAACCCCGCACTTGGGTAGACCTGGGGGAGCAGCCAGAAGGAAAGGGGTTGAACCTGTAGTTGATTAAGATTCAGAGAAAGAAAAAACAAAA
ACAGAAAACGATCATAGTTTCAGACACTCCCAATGAGCCTGTGACCTCCCCAAAATCCTATAGCCAAACACACGGGTGGATCTGGCCTCACTTT
CCCATTCTCCCACTTGTGACTTTTGATTCCACATCATAGCTAAGGTCCTCGGCAAATTGGATTAAACTTTGGATTTAAAAATAAAATAGAATTA
AAATAAAATAAAAAAGTTGGGGACAGGAGAAAGTGGTTTCCAAGAACCTACACCTCTCTACCCTGAAATGACTGAATATTGTGTTCCCCTCAAA
ATTCATATGTTGAAATCCTAACCCCCAATATAATGGAGCCTTTGGGAGGCTTCATGAATGAGATTAGTGCGCTTACAAAAGGGTCCCAGAGAGC
TCTCTCACCTTTTTCCACCATGTGAGGTTACAACAGGAAGTCAGCAGTGTGCAGTCCAGAAAAGAGCCCTAACCAGAACCTGACCATGCTGGCA
ACCTGATCTCAGACTTCCAGCCTCCAGAACTGTGAGAAATTAAGTTATGTGGTTTATAAGCCACTCCGTCTAAAGCACTTTATTATAGCAGCCT
GAACTGATTAAGACACTCCTGAGAACGATTCCTTCGGGGAAGGTCTTGATTAGCCTTCACCTAGCCCAGTTTGCAAACACACTGGAGTGTCCTG
CCCATGGCAATGTTCATGTAGCAGCCTGGGAGACAGAGGAGGGGGATTCCTGCAGGAGCAATCTTCCCAAGGAGGCAGTTCCTACTAGCTAACT
TTCTTGTCCTGCTTGTGCTCATTGAAGGTCCAAACCTGTCCCCTGCCCTATGTTTGTTTTCCTCCTAATCCCCTGGCTGATGGAGTCAGGCTTT
GGAGAATTCCTTTAAGAGTCTTAGTTGGCCTTATGGATCCCAAAACACACCCTTCTCTATTGATGCCAGATTCTGAGCAGGCTGAACAGTGCATG
CATGAGAACCTTTCATAAAATAGGACTATTTTTTATTCCCTTTGCTTTTTCTTTGTGTTATTTCCCCTCTTCACTCCCTGTCCTTTTACCTTAC
CATATACATTTGTCACCTCCTTGCCTGGAAAGCCTAGTGTCACCTCCCTGCCTTTTCACAGCCTATAGGATTGAGTCCAAACTTGCCAGCTTGG
CCTTTCATGGAGTGCAGGTTTAGTACAGGACTGCTAAACACAGTTTCAGAATGAACCATTCTCCTGGCCTTTATCATTGCCAATATTTCTCTTT
ATTTTATTTTATTTTATTTTATTTAGGGAGAGCCGATATTTCATAAGAGTTGATGGACTGCTTTGCCTGGAAACTTGAGAATTCATATTTTTAT
TCAAAATCGTTTTCATTTTTTTGCTTAGAGCCTGTTAAAGACTGAGGCCCTCTCTCTGTCCCTTCTACTCCCAGCCAAACCCAATAGACACATG
TGAGCAAGTTGTCACCTGACCCGAAGCTCCAGCCCCTGGAACCAACTGAAACAAAATGTATCCTTGCATTTTCCAGCAAGGAATTGCCTTGCCT
ACAAAAATACTCTGTACTTTAATATGCAGATCAATTATTAACAGTAGGCTGTACCTTTCACCAGGTTGTAAAAGGATGACTGCGTAGAGCCACA
GCATTCTCCTTGTCAGTGTAGGAAATGCAGAGGAGGATGTTACCTCCGGCACTTGCCTCTAAGACACCTAATAAAGATGAGGAAGGCTCCAGCC
TGAAGCGTGGGTGAGGTGTCCAGCTGCCCAAAGGCGACAGGTGAGATACTCAGGTCCCCTTCCTCTTTTTGCTGTCAGTTCTGATTCTCTCCTT
TCAATCTTTCTCATCTGTGATTGGGAATGGCAGGGGTGGGGTGTGTTTGGGGCATCAGTGGTGGTAAAAATGGTCTTATGGGCAGGGCCATGTT
GAATAAGAGATGAGCATGGAGACAGCGTATTAACTTAAAAGGCCAACACCGAGGCTCATTTGAGACCGTAGGAATTCCAGGGAGACAGTGTTGT
TCAGGCATGGGATCGAAGATCAGGAGGGCGGCTCAATAACACGCTGGCCCGGTCACATGACAGACCAGTCCTTGGAGTGAACTGGGAGACAAGG
AGGCTGCTTTGGCATGGAGCTGAGAACATCTCTAGATCGCACTGGAAGGCAGAGAGAGGCCAGACAGGGAACTCTGAAGAGCTGCCACAGCCTG
TGCCAGGGTGACATCAGGGTGAGTTGAGATGATTTTTTTAACAAACTTCATTTTTTGCAGCAGTCTTAGGCTTACAGAAAAATTGAACAGAAAG
TACAGACAGTTCCCACATACCCGTTTTCCCCCACAGAGTTTCTTCTATTAATAACATCTTATGTTCGTGTGGTATGTTTATCATGATGAACCGA
TGTTGATATATCATTATTAACTAACAAGTCCAGAGTTTACATTAGGGTTTACTTTTTGGGTCGTATGGTTCTATGAGTTTTAACAAATGTATAA
TGACCTGTATCTATCATTACAGTATCATACAGAATAGTTTCACTTCCCTAAAAATCACCCTCCCTTCCTTCCTGCAAATCTCTGACAACTGCTG
ATCTTTTTACTGTCTCTATACTTGTGTCTTTTCTGAAATGTCATGTAGTCAGAATCATGCAGAATGTAGTCTTTTCTGACTGCTTCTTTCACTT
AGCAATATGCTTTTAAGCTTCCTCCATGTTTTTCCAGGGCTTGGTAGCTTCTCTCCGTTTTAGCACTGAGTGATACTCCATTGTATGGATGTAC
TGTAGTCTGTTTATCCATTTGGGCAGACTTTCCAGCAAGATAGAAGGCAGAAGCAATGGAAAGGGTGGATGAAGGGAAAACTGCAAGGAACACA
GGACAAGATAGAAGCAAGAGCAGGAAGGTTTTGGAGAAGTGGAAAAACAAGCTAGAGAGATAGGCACAGAGGCCTAACCTGGGGTAAGGCAGGG
CCTTGTAACCAACGCTCAGTGAGAGAGGCAGCCCCTCACTGACCTGCACCAGGCCTTTCCTGATTTTATAGACAGAGTGTCATGAGGTCATGAG
GGCAGGAACCATGTCAGCTTCATCCTGAGAGCCCAGCACTTTGTAGGCATCTAATAAATATTTATTACACCAATGAAACCTTCAAAGTCTCTTC
TAAAAAAGCAAGTTCTCCCAGACACCAGAAGACAAATGGCCTAGCAGCCCCTGAGCCAGTCATCTCGGGCAGTTGTGAGCTGGTTGCTTATTTG
AACCCTCCATGCCACGGGGCAGCATCAAGCTTGCCTGACACACACCTCCTGAGCCAGGAATTCACCACTTTGCCACCATCTCTGCCTGGCTTGG
GAGATGCTCCGTGGACAGAACCAGAGCCGTGCTGCAGGGAAGCAGAAAAACCAAAGGAGATGCATGCCAATCTAACATGCCAGTTTAAAAAAAG
GCATTCTTGCCTCAGAGTAAGAATCCAGCTCTCCATGCACTCGTCTTTCAACCCAATCACAAGGCATCAGAATTAGCCCATATGACCTCTATGG
GACAAGAAGAGCAAGCAGGGTGATTTGGGTGCTAAGAAATAGCTGTGAGAGGATGATGCGGCAGCTGTGCCCTCCAGATGTTCGGAGAGAACAT
CTGTGCAACAATAGCAGTAGCTCCCATGCACTGATGTGAGAACCCAGCCTAAGGGGTACAGCAATCTGGGTGGTAGGGGGTAGCTCTCAGAGGG
TCTGACAATTCACCTAAAGATTGCAGGACCAATAGGAACCTGCCAGTCAGAATTTCCTAGCTCAGTGGTGCCCTCCAAGCAAGAGAGCTTATCA
GCCAGACCTGTGTCTTGGTGCAACATCACTGCTTAAAATCAAGTCCTCCCAAGGCATGGTGTCCATTTTACTTTCTCTGGATGAAATGAAGACA
GAGAATGAACCCAGTAAGATGATAGAGTGCTTTGCTTTGGATCTGTTCATATCTTACCCGTGTTTGTGCTCACATGAGTTACACAGTCAGTACA
AGGGTAGAGAGCTCTTGAGAATTTCTTACCTAAGGGAAAGAACTTGGGGGCTGCTTTGCTCAAAGGCTATTTTTCAGTGTGGGGCTTATCTAGA
GACATATATTTTGCTCCTTGTCCCCACTGCTGTTGCATAACTACGGGAGTTGAGGGTCACTATACACAGACACAGATGGTAGAGATGGGGGCAG
TGGTTGGGCAAGGAATAGCTGCCTTGCCACTTCGAAGTCTCCTAAATGGCATCTCTGAAGAAGAAGGATATGTCCACAGGGAGAAGGCCCCAT
GGTGACTCTGTTGCTCCTAATGTGCCAGGCTCAGACTCTTCAAACCACAAGAAGTGGCCCAGCGAGTTCCATGTAACTGCAAATGCAAGCAGGA
AAAAACCACACTCAGATCTCAGCACAGCATCAGTCTTGGGGACAGCTGGCCTTTCCTAATGCAGCAGCATCTGGCTGCTTCTGCTGTACCTGGA
TGTCTTCAGGGCAGTTCTTCCACACAGAGGACCCCAAATAAAAGCAGAATTCCTACCATTAAGCTTTCCGTATCCAAAACTTTCTATGTGAAAG
ATACAGCATCTGTGTCTCACAAGAATCTGTTTTCTTGGGGCATCTGCTATTTGGCAGCTAACCAAAACAGAATTCCCATCTTATTTTCTTGTTC
ATTTGTGCTACATGGAAGGGACTGGTCCTGAATATTCAGGGCAACATCCAGCATTTGGTAGTAGTGGAGAGAAAGAGAAGAGAAAGCTCTGGAC
TGTGTTCCTCTGTCTGGGAATGTGACTCTCACACCTCCCAAATCCTCCCATTCACACTTTTTCTCCCTGACTTTCCAGAACCCTTTTTAGGCTT
AGCTCCTTTTATCTTACCCTACACGCTTTCTTTCTACCCACACTGGTGGGTACTTTTCAGCCATAGACATTGGAGCACATTTAAATATGCTGGA
GTCCTTAGAGAATTAAGAGGTGGGGGAGAGAGGAGGGCACAGAGCTGAGGATGGCACTAGCTCATTCACAAGGAGCCCTGAATTTCCAGGGACA
TTAAAGAACAGATGCTCATGACAGAGCATAGAGCTCTGCCCTAATTGTTTGTAATGTTGAACTATGTGTCATTCGTTCACTCATATATTCTCTC
AACATTGGAATTGAGCACCAATTATGTAACAGAGTAGGTCTTGGCAATACAAAGATGAATGAAACATACCCCTTGTCCCCAAGAAGTATGTGGA
CACGACAGGCACATGGACCAATGATGGTCATGTCAAGCGTGATGAAGTCCATGGTCCTGAGGGACACTTGGACCACGGCCTGCATGAGAGGGCC
TGGAACCCAACTGGGCGGATCTAGAAAGAATTCCTCTGGACTTGATTCCTGAACTTGAAGGTAGAGATGGAAGGAGAAGAGTTCTGGGTAGCAT
GTTCCTGGCAGAAGAAGCCCACTGCAAGAGCAAAGGCACTGAGGAAGCCTGGTGGTCACTGGAAAACTGGGATTCAAGTAGCTGAAATCGTAAG
GGTGCAGCCTAGGGAGAAGTGAGACCCGTGGTGGGGGGCAGAGCCAAATCTCTGTATCCAAACCTTTCTATATGAAAGATACAGTGTCTGTGTC
TCACAAGAATCTGTTTTCTTCGGGTGTCTGTTATTTGAGTGCTAACCAGAACAGAATTTCTAAAGATGGTCTTTGAGGCCAGGTAACAAGGCTG
AGGCTAAGAAGAACTATGGAAGGTCTGTTGGCAGGAGAGATGTATGATTAGATCTGCATTAGCAGAAGGAAAGTTCTGGCTGAAATCTGCAGAG

CAGTTTGGAGGGGACAAGACAGATGACATGGAGAACACTTAGGACGCTGTTATAATAAAATAGGCTAGAAATGATGTTCCTCAGAAGTCCCTTT
CTCCCTGCACACCTGGCCACCTCAGACTTCCTGTTCAAGGGGAAGGCAGGCTGGGGAGAGAGGTTTCTTGAAAATAACACATCTGGGCCGGGCG
CGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGTCAGGAGATCGAGACCATCCCGGCTAAAACGGTGA
AACCCCGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTAGTGGCGGGCGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATGG
CGTGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATTGCGCCACTGCACTCCAGCCTGGGCGACAGAGCGAGACTCCGTCTCAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAAAATAACACATCTGTTAATTGGATCATTTCTGTGTGGTCAATGTCTGTAGGGGCTTTGTTTTG
GTCATCATAGTATAAAATCCCCATTATGTAATATTTCCTCCTGATAAAAGCTCACTGTGTGTCTATACCCTACCAGCTTCCTTATAGTATTTGC
TCATTACCAGGTTCAAGGACCTGTCTGTGTGGCTCTTCCCCAGAGCCTCTGTTGGAAAGAAGATTTGTCTTTGGTTATAAGTAGATACACAGTG
GTCAAGATGCTCTAGCACAGTGCAGCAGAATAAGATGGGCTCAGTAGGGAAAGATCATTCACCCCTAAAGTGTACACTTATTCTTTTCTGATTA
TGATAGGATTATGTTGAAATTAAAAATTGTTTCAACGAAAAAGCAACTGATTGCTTAGGCCAAAGCAGAACTTTTTTTTTTTTTCCTGAGGCAA
AGTCTCAGTCTGTCACCCATGCTGGAGTGCAGTGGCACAATCTCACAATCTCGGCTCACTGCAACCTCCATCTCCCCAGTTCTAGCGATTCTCC
TGCCTCAGACTTCCGAGTAGCTAGGATTACAGGCACCTGCCACTATGCCCAGCTAATTTTTGTATTTTTAGTAGAGACAGGGTTTTGCCACGTT
GGCCAGGCTGGTCTTGAACTCCTGACCTCAAGCGATCCACTCGCATCAGCCTTCCGAAGTGCTGGGATTACAGGTGTGAGCCACCATGCCCAGC
CAGAATTATTTTTAGTACTGTAGTTAAGAGGGCACATTCTGGAGCAAACTGCCTGCTAAGTGTTCGCTGTGGGGCATTGGGGAAGAACTTAATC
TCTTTGTGCCTTGGTTTCCACATGTAAAATGGGATAATTATATTGTCCCCCTGTACTGGTTTGCTGGGGCTGCCATAACAAAGTACCACAACTG
GGTGGCTTAAACAACAGAAATGTGTTGTCTCATAGTGCTGGAAGCCGACTCACCTCAGAAGCATGGACTCCCTTACCTCCAAGTCCAAGGCAAT
GGGGCTCTCTCCCTCTTGCCTCTTGAATTCCTGCATCTCATTTCACTGGGTAAACAGGGAGGCTCCTGTGCTCCAGCAGGAAAACCCTGGACTG
GGAAGCAGGATGTCTACTCTGATCCTGCTGCCCCAAAGCTGTGCGGCTTTAGACAAGTGGTTTGACCTTTCTGGGCTCAGTTTCCTTGATTTTC
ACTATTATTTGAAGGGCTTGGGGTCATGGAAATCATGAACTCTTCACACTGAGAGGAATCTTCATAATCCATTTTGTAGATAACGAACCTAAGG
CTGAAGAGGTCAGGGGCTTGCACCCAGTCATAGAGCTAAATGAGGTGCAAAGAACCTAGAACTCCGGCGTCTTGACTCCCACCTGGGACACATT
TTATCAGTAATAGTGAACTCTCATCTGTTGATAGTGTTAGAATTCTCACATTTACTCCCCATAACAACTTTCTTTTTTTTTTTTTAAACGGAGT
TTCTCTCTGTCACCCAGGCTGGAGTGCAGTGGCACGATCTCAGCTCACTACAACCTCTGCCTCCCGGGTTCAAGCTATTCTTCAGCCTCAGCCT
CCCTAGTAGCTGGGAATACAGGCATGCACCATGGCGCCTGGTTAATTTTTGTATTTTTAGTAAGGATGGGGTTTTGCCATGTTGGCCAGACTGG
TCTCAAACTCCTGACCTCAAGTGGTCCACCTGCCTCAACCTCCCAAAGTGCTGGGATCACAGGTGTAAGCCACCATGCCTGACCAGCACCCTTC
TGAAGTAGGTGCTTTCAGAAATCTGAAAGCATAGTGTCGGTTAGCAGGGTTGGATCTCTTCTGGTACTGTGAGGAAGAATCTGTGCCATGGCTG
TCTGCTAGCTTCTGGTGGTGTGCTGGTCATCCTTAGTGTTACTTGGCTTGCAGAAGCACCATCGATCTCTGCTTTCATCGTCGTGTGGTGCTGC
CCCTGCATGCATGTATCTGTGTCCAAATTTCCCCTTTTTATAAGAGCACCAATCATATTGAAATAGGGCTCACCCTCATAATCTCATCTCAACT
AATTATATCTGCAATAACCCTACTTCCAAAAAACACCACGTTCTGAGGTCCTGGGTGTTGGGATTTCAACGTATGAATTTGGGGTGGGAGGGCA
CAATTCAACCCAAACATTACCTAATAAAGTTTTCAACAGTAAGTAAATGAGTTAACTCCTGGAAAGCATTTAAAACAGTGTCTGACATTCAGAA
AGCTCTCAGTAAACGTTACATTATGCTGGGTATAAATAAAAAGCTCCCAGGACAGTGGACGGCATTGAGATTCCACCGGTTTGTATTAGTGTGG
CCTCGCCAGTAATTTACATCTTCTATCTTTTTTGGTTGGTCAGGGCTTAAGCCATACCAGGTAAATATTTTGAATAATACTCCTAGCTAAAAGG
TGCAAGGAGTAGATACTGTGGGTTCTGATTTTCTTTCCCGTTCTCCAAGCTGTGTACACAGAACCATGCAAGTCGCCCCAACCAGGGAAAAAC
AACTGCCATTTCTTTTAAAGGGGAACCAATGAAGGTCTTGTCCTGATGAGCTCACAAAAGCAAACTTCTCCATGTCTGTCGCTCACTCAGTGGG
CTGAAGCAGAGCCTTCACGCTAAGCTTTGGAGACAAAGCTTCTTAGAGAATGTGCAACGTGGGCTGATCCCAGGCTGCCCAAGGAGCAGCTGAC
GAGTGTAAAAGTGTTTGCTCACCGATTAGAATCAGTCCTTTAAAAAATAAATAAGGTATGTTGATCTTTTATGTGATGATTAAACAAATCAGAT
GGCCCAAAATGAATTCCAGGTAAAGAGGAATAAAATATCAGAAGGCAAGCTGCTGAAATTAGCAAGAGCTGAACTCGAAAAGCCCGACTTTCCA
GGCACGGCTAGTTTCTTCCTAGCAAGTTCCTGACGGAGCTGGGTGGCTGCCCCAGGTGACTGCAGTAGCAGGAGATTAAGGAGACAGCACCTGC
CTGACAAAAAAGGTTGCTGACACAATAGGCCAAAGTTAAATTGAGCTGCCAAGGGAAAATGATTGGGGATATGCAGTTAACAGTTGAGGGAGAT
ACCAGAAGAATTTGTGTCCACAGAGAGATTTTGATGGGGCTGACTTTGCCGCTGACCGACTCACCTCAGAAGCATGGACTCCCTTACCTCCAAG
TCCAAGGCAATGGGGCTCTCTCCCTCTTGCCTCTTGAATTCCTGCATCTCATTTCACTGGGTAAACAGGGAGGCTCCTGTGCTCCAGCAGGAAA
ACCCTGGACTGGGAAGCAGGATGTCTACTCTGATCCTGCTGCCCCAAAGCTATGCGGCTTCAGACAAGTGGTTTGACCTTTCTGGGCTCAGTTT
CCTTGATTTTCACTATTATTTGAAGGGCTTGGGGTCATGGAAATCATGAACTCTTCACACTGAGAGGAATCTTCATAATCCATTTTGTAGATAA
GGAACCTAAGGCTGAAGAGGTCAGGGGCTTGCACCCAGCCATAGAGCTAAATGAGGGGCAAAGAACCTAGAACTCTGGCGTCTTGACTCCCACC
TGGGACACATTTTATCAGTAATAGTGAGCTCTCATCTGTTGATAGTGTTAGAATTCTCACATTTACTCCCCATAACAACCTTCTTCTTCTTTTT
TTTTTTTTTAAACGGAGTTTCTCTCTGTCACCCAGGCTGGAGTGCAGTGGCGTGATCTCGGCTCACCGCAACCTCTGCCTCCAGGGTTCAAGCT
ATTCTTCAGCCTCAGCCTCCCTAGTAGCCGGGAATACAGGCATGCACCATGGCGCCTGGTTAATTTTTGTATTTTTAGTAAAGATGGGGTTTCA
CCATGTTGGCCAGACTGGTCTCAAACTCCTGACCTCAAGTGGTCCACGTGCCTCAACCTCCCAAAGTGCTGGGATCACAGGTGTAAGCCACCAT
GCCTGACCAGCACCCTTCTGAAGTAGGCACTCTTATACCCATTTTACTGATCAGGAGACCGGCTTGCCCAGGATCCTGCAGCTACTGAATAGAG
GGGCCAGAACTTTGCTGGTTTGGTGCGCTTCCTGGTACACACCAGCTGCCTCCAATCTCCCTTTGATAATCCTAGCCACATGCCACCGCGGGTG
CTCTAGTGTAGGCTGGCACCAACCCCACCCAGCAAGAGCCAGGATCTGCTTCTTGAGGGCAGGCAGGTTTATCACACAGCGGGGTGCAGAAGAG
TAGTATTCATCTTCCTAGTGTAACCACTTATAACTACTTTTCAGTGAATCAAATAGATTTTTAAGCAAGAACATTGTAAAAATCTGCTTAATCA
AGGGTGGAGCAAAATGAGTTAGCCAGGGCCACCCTAGCTCAGATGGGGTGGTAGCTGCCTCTGCTCCACAATGAGGTATTTACACTTGCTCCCC
ACCCTCTCCTTTGCCCCATTATCTTTTAGTTAAAGGGCCAGGTGCACCAGAACACAGGTGCCTTGAGTAGCACCAGCACCTCTCAGGGTCATAG
GGAAGAGCTGTTTCCTCTGGGTAAACTGAGGCCTCAATAAGGCATAAATGCCTTCTCTGGGTGAAGAAGATATGCCCTCTAAGATCTCTCCAGG
GTGAATCTAGAATAAGTTGTAGTCTAGATGGCTTGGCAGCACTAGCCAGTGTGACAGTAAGTCTTGATGAACATCAGTCAGCGTCATGCTGAGG
GACAACCTCGAGGAGAGGGAATGTGTACTTGTTACAACAGCACACCCAATAGAAATAGCATGTAAGCTACAAATGTAACTTTATATTTTCTAGC
AAAAAAAAAATTTTTTAAAGAAACCAGTGCAATTCATTTTAATAGATCTTATTTGTTTCAATATATCCCAAATATTGTCCTTTCAATGTGTGAT
AATATAGTTATTAGTGAGATATTTTCCATTCCCTTTTTCATACAAAGTCTTTGATACTCAGTGTGTATTTCACTCTGACAGTGCACCTCAATGT
GGTGCAATAGGCGAGGGTCTATGTGGTACATCCCGTGCCCAGTGTGCACTTAAAGGCTGTAGATCCATATATGGCGACTGTCTCCTAGATAGAT
GAGCCCAGCAAGGCTCAGTGGGTGTTTTGAGGTCCATGGTCTCTCAGGTCCCGTTCCACCCCGACATTCGACGAATCAGAGAACACTAATATGG
TTGGGAACACTTTTATCTTGCTCCCCATAGTCTGAACAGAAAGAGACGCCACAGAATACAATCACGACTCTCTCCCTCCTACGGACTCCCTCCC
CACAAGCAATCAATGGGCTGGTCTCAGACAAAGACACCTAGTCAAGGCTGGTGAAACCTGCTCTATTTCCTAGTAGGCCTCCACCTGTAATTCT
CAGCAGTTTGTGTGTATAGATAGAATTCCTGCCTTCTACTAATGTGACTGTTCCTGCTCAGAGATCTAGAGTTAATTATTAGCAAATTCACAGT
GAACCAGAGCTAGGTCTTGCTGTAAGGCTCCTGTGTTTTTTAGAAGTACGTTGCCATGGGGATTTTTGTCCCCACTGGGTTCCTCCTCAGGACC
CCAGACAGATAGATACACAAACCCTGGGCCCATAATTTTAGTTAGAAAAGGCCCAAGCCTAGAACCTCAGGGAACTCATTTGGAAGCTTTTTTT
TTTTAGGAAACTTACCTTTCCTATTTGACATCTCAATCAAACAGGTGTTTGGGGAGAATAAAAGCATACTACCTTAGAAGGGACTGGGGTCATC
TGGCCAGACTTGTGGAATAAAGAGAATTTCATTCCTTGTATAAAATAACTCTAAATAATGGTAAGCTCTTAGGAGACTTGATCTACTGGCTACA
TATACCCACTATGAAATTAACACATTCTGGAATTTAGATGGAAGAATATGGAAATTGGTCCTTCTCAGTGTATGGACGAAGCATCAGAAATGAA
GAGAAGGGCCAAGCCTAGAGAGCAAAACTAAAGACTCACTGGTCTGTGGGCTTCCTGCCCAAGGAGAGCTGAAAGCTAAAGGATGCTTCACAAT
GTCCTACAAGTTGTTTTTCTAAAGTCCTTCCAGCGGTTGAAACTGTGTTTATGCAAAACAAAACTTTCCTTTGTTGCTATAATCTAGAGGTGGA
CTTTGGCTTAAGTCATGCCAAAATATTATCATTCTAAACCAGTAACACCTATATTTGTTGAGCATTTACTATATGTGTGGCACTATGCTAAACT
TAACTACCCCTTTTCCTCATGTGTAACAGTCAGGTGACTTCACAGCTGCCTTGTGGATACTTGTGTTATTTGAAAGATTGCATAAACACATGTA
AAATGCTTAGAAGTCTACCACCTCATCTTACCTACAGCTTTGGTGAGTCCCTGCTTTGGCCAAGTAGAATCATTCCCTGTGAGGAGGGGAAGAG

GATAAGAAACAGGCAGAGTTGACCTTACAGGTAGACACAACAGGCGAGGGTCCATGTGGTGCAATGGATCCCATGCACATGCCTGATTCAGTCA
TTCTAGTTGAGTAGGATTGTCTGGTTGGTTGTTATTATTTTGTTTTTTGTTTGTTTCTTTCTTTTGTTTTATAAGATGGAGTCTCACTCTGTCG
CCTAGGCTGGAGTGCAGTGGCTCAATCTCGGCTCACTGCTGCAACCTCTTCCTCCCGGGATCAAGCAATTCTCCTGCCTCAGCCTACCGAGTAG
CTGGGGCTACAGGGGCATGCCACCACACCTGGCTAATGTTTTGTATTTTAGTAGAAATGGGGTTTCACCGTGTTGCCCAGGCTGGTCTCAAACT
CCTGAGCTCAGGCAATCCTCCCACCTCAGCCTCCCAGAGTGCTAGGATTACAGACGTGAGCCACCGTGCCTGGCCAGTTTTTATCTTGAAAGCT
TAAGGGTCTCCCACTTAAATTCAAATACTCTTCTGAGGATAACCTTTTAATCAGCCAACTATCATGAATCTCAATTATCAGGAATTCCAGTTAT
TCCAATTATCAGGAATTCTTTATATCATCCCAGGAATCTAAAAGAGCAAGGTCTTATAGGTAAGGGCAAACTTTCTGATGCCTTGGAATTCAGA
CCCTAAGTAGAGATGGTCATTTGACATCTAGTCTGATCGACTGTAGAGTTACTTCTATACAAATAAATTCAAGTTATCACAGGGTTTCTTTCAG
TTGGGGACAATACTTTGAAAACTTTTAGGCTCTGAATGAATAACTTGGCAAAAGAAAATGTTAGGGTCCTTCAAATACCATACTTGTTGTGGTT
TTCTCACAGATACACCAGTCTATAACCCTGAGGTTTCAACACTCCACTCAGTTGTGGGCTTTTTATCTAAATCAAAACTATCACATGCCCACAT
GTGCATCTGCAGCCAACCACAAATGATCTAACAGGACCAGATTTCACTGGAGCTCTGTGACCCTTCTCCCAGTGTGAACTGAAGGGAAAAAAAC
CTGGAGCCTAAGGGACTCCCTTTTCCGTGTCCTGAAGACCACTGGCTTTGGTTAAGCCAATATGATGGGCTCATTGAGAGAGAGACTCAGGACC
TCGGATCATGCCACACTCTCTGGCCCCAGAAGGCATACCACAGGCTGCCAGCTTTGTTGGAGAACCTGAGACTTAAGGCCAGGATATATCAAGA
GCCCTGTACCCAGTTCTGTGATGTCTTAATACCTTTGACAAGAGACATTGGCAACTCACTGGGTGTCCATTGGGGGGCGACAAGGAAACAGACT
GATGAAACCAGAGAATGTGACAACTAATTACATGTTGTTTCCTGTAGAAGAGAAATTCTCAGAGGAACGTGGTGACTGTCTGTTCTTTAATGGA
CTGTCATATGAAAGCAGGAGAAGGAGATTCTTCCTTACTCCAAATGACAAAACTAGGAGCAGTGAAATGAGCTTATAAGGTGGCCGGGTTTTTC
TAGCAATTGGAGCTCTCTGCAGTGAGTGGACACTTGGCAGGGTAGTGCCTACTCCGCATTTGATGTGTTCACACCACGGCTAGAAGTAGGTGTC
GCAACTTCCAGTTGAAGAGGGAATTCTTTTCCTTGGGTGGGAGAGGGGCTAGAGAACGTCTCAGGTTGTTGCTAACTATGAGCATGGTTTTATA
ATTGTTTAAAAGTGGGTAAACAAGAAGAGTGTGTTTATGGTGTCTGTATTCCACAAACTATTATTTCCCACATTAACTGTTTCATATATGGAAA
ATCTGAGAAACAGGAATGCTAACAAGGTTGCAGTATAATTTAAAAATACTTCTGAGAGATCATTGTATCCCAAAGGCAGTGCCCAGTGAGGTTA
AGAGCGTGGTTTGTGGAATCTGAGCCCACAGGGGTTTAAATCCTGCCTCTGCCCTTCTTAGATTCTGTGAACTTGGACAGATTCCCTCACTTAT
TTAAGACTTCACTTTTCAGCCCTTGAGATCCCACCTGCTCAATTATCTAAATGAAATCTATCACTGTGGAAAGAGCAAAGGCCTCCTGCTGTTG
AGCAAAATGTTTTCCAGTCCTTTGTTTCTGTGTGAAATAAAGCAGCTCCATCCCAGTGCTAAATGATCAACTGCATATGACAGAATGAGCTTAT
TTCATGCTCCCAGTAAATACAAGACCATAGACTACTCTGGATGGTAGTTTAAGTTTAAGATGAAATTGCTTCTTCTGATTGCCTTCTTCTTTAT
TGCTTCTTTCTCTGTTGTTCCTTCCTTCTCTTGTTTATAACACTAACAGTCAAATCTATCTGTGTGGAAATCTATCTACTATATAGAACGCTAC
ATCACAATTTACAGAGGGGAAAATATTTTGTCGGCAGTAACATTTCACTGGAAGAGGCACTATTTGGCCACCTAACTCTGGGATTTAGGCTCA
GGTAGAATCAGTGCCTCAGTTTCTTTAGGTCAGCCATTATGAGTTGTTCCTTATTTGACCTAGCACATATATAGATGGTGGTTAAATTTAGCAA
AATTCTCTTCACAAAGGTTTCATTTGTCTGGAAGACTCTAAGTACTGATCTGGTCAGAGTACCATCAAAGCCCCTTGTTTGTCATGAGACCGTG
GACCAACATGTTAGTCTTTCTCATGTAAAAAAAAAAATCATCAACAAATGCAGTGGGAGTTGGTAGTCATGAGTTTGAGGTAGTACAATATCCT
TAAAGTACACACTCAATCATGTGTGATAATTGGCCAACTCTACCTAACAACAGTTGAAGACCTCCAAACAGCTATCAGGACTACTGGAATCATG
TCTCCAGAAGAACCTGGAGAAACATTCACATTTGTGTGGACCAAGGAGGAAAGCAACCCAGACGACTTCTACTTAGAAGCACAGGCACATAGAG
CCTGTGTTATTGGCACAGGTATTTCTCTCCTCAAGAGCCTTTTCTGCTTAAGAAGGCTTGAGGATCTATTCCCATTAATCATAAAAAAGGGATTT
GCTGGGCTAAATTATTTTAGCCTCCTCTTTATGCCTTACTTCACAAAGAATTGCAGTTAATCTGTAAATGAGTTCTGATGTTATGAAAATTGGA
TATGGCAAATTGTGTTATTAAGTCTATTAAGGGATGAAGAAGGACTCTTCTAAAAGAATAACGTAGTCTGAGTGGCAGCTCTCACTTAATAGAC
ATCTACCTAGAAATGTTTCTGAACTTAATGGACACATGATATAATTCAAAATTAATATAAGCACACAGCACCTCTCCCCATAACCTTATTGAAA
TTAAGGGTTCCAAATCATTCTTCTCTCCCTTTACTTCACCTGCAACATGTGGCTCACCCTTCTTTAGACTAAGAGCTAAACTCTAATGCCTAG
TTAATGTAAAACAATGCCAGGATTATTAAGCATGATTCTGATAAGTTTTAACCCCTAATGAGATTATCCTTGGTTAAATAAATTGAATGGCTAG
TGGAATTCCAATGTAAAGTCAGCAGAGGTTAGCTGGTTGCTAGATATTTAACTATACATACCAGGAAGCTATGAGGACAAATTTCCATTTGCAC
AGAGCCTTGAGAATTGGCCATTTTAGGACTAAATGTGCTGCTCATTACTTTTACTCAAGGACATACTAATGACCAATATATGTTTAAATACCTA
CTATGTACAACTGCTTTCAAAAACACTTTCAATCTTGAATTGAGAAGGTAGGAGATCCATACCTGTATTAGGCCATCCTCACAGTGCTATAAAG
AAATATCTGAGACTGGGTAATTTATTAAAAAAAGAGGTGGATGAAGCTGGAAACCATCATTCTGAGCAAACTATCACAAGGACAGAACACCGCA
TGTTCTCACTCATAGGTGCGAATTGAACAATGAGAACACTTGGACACAGGGTGGGGAACCTCACACACCAGGGCCTGTCATGGGGTGGGGAGAG
TGGGGAGGGATAGCATTAGGAGATATACCTAATGTAAATGACAAGTTAATGGGTGCAGCACACCAACATGGCACATGTATACACGTGTAACAAA
CCTGCACGTTGTGCAGATGTACCCTAGAATTTAAAGTATAATAAAAAAAAAAGTGGGGAAAAGAAAAGAAAAGAGGTTTAATTGGCTCACGGTT
CTGCAGGCTATACAGGAAGCATGATACTGGCATCTGTTCAGCTTCTGTGGAGGCCTCGGGAAACTTACAATCATGGCAGAAGGCAAAGGGGCAA
CAGGTATGTCACATGGCCAAAGCAGGAGTGAGAGAGAGAACAAGGTGCCACACACTTTTAAACAACTACATCTCATGAGAAGTCACTCACTATC
ACGAAGAGAGCACCAAGGGAATGGTGCTAAACCAAGGTCCCCAACCCCCAGGCCACGGATCAGTATTGGTCCATGGCCTGTTAGAAACCAGGCC
ACACAGCAGGAGGTGAGTGGCGGGCAAGCAAGCAAAGTTTCATTTGTATTTACAGCTGCTCCCCATCGCTCATTACTGCCTGAGCTCAGCCTCC
TGTCAGATCAGCAGCAGCATTAGATTCTCATAGGAGTGCAAACGCTATTGTGAACTGCACATGTGAGGGATCTAGGTTGCACACTCCTTATGAG
ACTATAATGCGTGGTGATCGGTCATTGTCTCCCGTCACTCCCAAATGGGACCGCCTAGTTGCAGGAAAGCAAGCTCAGGACTCCCACTGATTTT
ACATTATGGTGAGTTGTATAATTATTTCATTAAATATTACAAGGTAATAATAATAGAAATAAAGTGCACAATAAATGTAATGTGCTTGAATCAT
CCCAAAACCACCCCCTCTCTGCCCCGTCCCAGTCCATGGAAAAATTGTCTTCCACAAAACCAATCCCTGGTGCCAAAAACTTTGGGAACTGTTG
TGCTAAACCACTCATAAGAAATCCAAACCCATGATCCAGTCACCTCCCACCAGGCCCCACCTCCAACACTGGGGATTATAATCCAACATGAAAT
TTGGGTGGGGACACACATCCAAACTATATCAATACCTTCATAAAAGCAATTAAATAACTGTACAGTGTGATAGGCAATAAATGTCAAATGTCAT
ATGTATGAGGAACATAGAGAGGTGCTGTTATCAAGTCACTGTGTGACCCACTGAGCACTCGCAATGAGGCACAGGTAGTAATGTACCTGCTCAC
TTGCTTATTGTTGTCCCACCACGCTGAATTGGGAGCTTCATGAGAGCAGGGCCCATGTCGCATCTATTACCACAACTGCCTTATTCGCGTGGCC
TGTAGCTAGCAATCAGTAAAAAATTACAGCATGGATGAAGCTACAGAAAGAAAGTAATACTGACAGGTGGGCAAAATTTTTAGATATGGATAT
TTAATGATGGGATGAACAGATGAATCAAGACAGGAAACAAGGCTTCGCGTGGCAAATATATCCTTTCATTTGCCCAGCAAACATTTGCAGATCC
CTCACTATGTGCTAGACACTGTGGGCACATTTCTGTGTGGATTGGTGTTTTTCTCTCTCAAAACTGGAGAGATTTTGAGATCAGCCTGTATGTA
GTGAGATGAAGAGGTATGTGGTTGAGATCAGGAGTAGTTGGGATTCTGTGAGGGATAGGGCTCCTTAGGTGTGAGAGGACCTTGAGACCTTTGTT
GTGAGGATAGTGAAAATCAACAAAAGAATTTATGTTAAGGAAGGTTAAAAAGTCACTCTAAAGGTCTCAGAAGTGCCTATGACATCATGAGGAG
ATGTCCATTCCTGAAAACTTTAGCCAGGTTACAAACACTTTAAGAAATCCTATCTCAAAACTTCAAGAAAAGTGAGATCTGTATTTACACAGAT
AGAATTTCCAGGACTGGATTATATTTGCACTTTTTTGTTAAATTTTTACTTAACTAGTATATTAATATTGATAGTACTTTGTGACTTTTTTCAT
AAATATAACTTTTAAAAAATATGGTATTTCTAAAAAGGTTTGGTGCATTGTTAAAATGTGGTTTTGATTTATTCACAGACAGAAATCTTCTCTA
ACAGACTATACTTCCATTTCATAATTCAGTGAGGTAATGGGACTCAGTTATACTAAATTTATCATAGAGCAAACTTTGCTAGTTTTCATCTGTT
CATTACATTTTATGTAATGGCAGACAGTGTAATAACTAATACCGTTAACCCAACCATCTCTTCCCTATAATGTTTCTATAGGAACATACAGTGT
ACATTTTGCAGTTCTCTACACGCAGACAAATTCTACCAGTGTGTATTCTGATTACAAGCTAGTTGCTTCATAGGCCATATGTCTATCTTCAGTC
CCTATGAATCATGTAAATTACAGAGCAAACTGCCGATACTCAGTATATGTATATGACACATAAGAGTCAAGTATACTCAGCTCCTAAGAGCAAG
TGAGAAGACAAAGAAGATCTACTGTGTGTAGAAATACTTCTTAAATCATCTTTCCTGAAGGCCTAGTTTGCAACTGAGTCGCAAAAATTTGGTT
TCAAAAAGTTAAGCTTGCAATAATAAAAAGATAACCCAGTTTAACAATGGGCAAAGTGATCTGAACAGACATTTCTCAAAAAATGATATAGAAA
TGGCCAGTAAGCACAAGAAAAGATACTCATCATCATTACTAATTAGGGAAATGCAAATCAGAACGACAATGAGTCACCTCTTCACAGTCACTAG
GATGGCTATGATTAAAAAAAAAAAAGACAGGCAATAACCAGTGTTGGCAAGGATGTGGACAATTTAGAACCCTCATACACTATTGGTAGACATG
CGAAATGAAATAGTCATTTCAGAAAACATTCTGGCAGTTCCTCAAAAGGTTGAACATAAAGTTACTAGGTGAACCAACAATTCCACTACTAGCT

ATATATCCGCCAAACTGAAAACAGATACTCAAGCAAATACTTGTACATGAATGTTTATAGCAGCCCTATTCACACTGTCCACATACTTGAAAAC
AATTCAAATATCCATCAATGGATAAATAGATAAACAAAACGTGGTAATTTGTACAATCGAGGATTCAGCCATAGAAAAGAGTGAAGTACTGATA
CATACTAGAACATAGATGAACCTCAAAAATGTTATGGTAAGTAAAGGAAACCAGTCAAAAAAGACCACATACTTTATGATTCCATGTGTATGAT
ATGTCCAGAATAGGGAATTCCATACAGACAAAAAGTAGATGAGTGTTTGCCAGGGGCTGGGGAGAGGTGGGGATGGGGAATGACTGGCTGATGG
TTAGTTTCCTTAGGTGGTGAAAAAAATGTTTTAAAATTGATTGTAGTAATGGATCCACAGCCTTGTGAATATACCAAAAACCACTGAACTGTGT
AGGGGTGGGTTGCCCCTCCACACCTGTGGGTGTTTCTCGTAAGGTGGAACGAGAGACTTAGGAAAGAAAAAGACACAGAGACAAAGTATAGAGA
AAGAAATAAGGGGACCCGGGGAACCAGCGTTCAGCATATGGAGGATCCCGCCAGCCTCTGAGTTCCCTTAGTATTTATTGATCATTCGTGGGTG
TTTCTCGAAGAGGGGGAGGTGTCAGGGTCACAAGACAATTGTGGGGAGAGGGTCAGCAGACAAACACGTGAACAAAGGTCTTTGCATCATAGAC
ACTGTAAAGGATTAAGTGCTGTGCTTTTAGATATGCATACACATAAACATCTCAATGCTTTACAAAGCAGTATTGCTGCCCGCAGGTCCCACCT
CCAGCCCTAAGGCAGTTTTTCCCTATCTCAGTAGATGGAGCATACAATCGGGTTTTATACCAAGACATTCCATTGCCCAGGGACAGGCAGGAGA
CAGATGCCTTCCTCTTGTCTCAACTGCAAGAGGCATGCCTTCCTCTTATACTAATCCTCCTCAGCACAGACCCTTTACGGGTGTCGGGCTGGGG
GACGGTCAGGTCTTTCCCTTCCCACGAGGCCGTATTTCAGACTATCACATGGGGAGAAACCTTGGACAATACCTGGCTTTCCTAGGCAGAGGTC
CCTGCGGCCTTCCGCAGTTTTTGTGTCCCTGGGTACTTGAGATTAGGGAGTGGTGATGACTCTTAAGGAGCGTGCTGCCTTCAAGCATCTGTTT
AACAAAGCACATCTTGCACCGCCCTTAATCCATTTAACTCTGAGTTTGACACAGCACATGTTTCAGAGAGCACGGGGTTGGGGGTAAGGTTATA
GATTAACAGAATCTCAAGGCAGAAGAATTTTTCTTAGTACAGAACAAAATGGAGTCTCCTATGTCTACTTCTTTCTACACAGACACAGTAACAA
TCTGATCTCTCTTGCTTTTCCCCACAGAACTGTACACTGTAAAAGGGTGAGTTTGTGGTATGTAAATTTATCTGAATTTTTAAAATAAAAAAGA
AAGTTAAAAAATGTTAAACTTGGAATTAATGATGGTTTTTTTGAAGCAGATTAGTAACTACTGAAATTAGTCCTTGATTTTTGGAAAAGCCTTT
AAAAAATGGTAAGTGGGAGAAGTTATAAACAAAGAGATGAATGAGTCACAGAAAATTGGGAGACAAATAGATGATAACAAGGGACAGTACAGAA
AGACTCAACTGAGTTTTATCAAATCACTCAGGCAGATAAACATGGGGGCTGCATGTGCATCCGTATGTGTGTATATGTTTATTTACATCTAATA
TACACACATGATATTACATGAAATATTATAACATATAATAAATATATATTCATACTGGAAAAATTCTCAAAGAATATACCACCAAATGTTAACA
ATAGCTGTCCCTGTTTAGTGGGATTTCAGGTGACTTAGATCCTTTCCCCCTTTGGCCTCTCAGTATCTTATAACTTTGTGTGCTAAGATCATTG
ATAGTTGAACAATAAGAAGAAGAAAGTGAGTGTGGAAGGATGTTGCTAGAGAAAGTGTATTCTTGATTATATGGAGGAAGTGGGGGCAGTTTGT
GAAGTCTTCCTTACGAATAGCATCCTATTTGAGAAGACCAGTCTTCACACTGGAAAAAATGCATAGAGCAAGGTGGGCATCACTTGCAGAACAG
TTTGGCACAGGACTACCTCTGAAATATTAAGGCTTAGGAGACTTGTTCTTAGAAACTCTTCAGGCAAAGTTTACAAAGGCCTTTTCCTCCTTG
CTTAGCAGATTCTCCCAAGGCATCCACATCTACACTCTCCGTAAGTCACTATATACTGGACCTAGCACACATCTGTCTACCCATCATTGTATTA
GTCTGTCCTCACGCTGCTTATAAAGACATACCTGAGACTGGGCAATTTACAAAAGAAACAGGTGTAATGGACTTACAGTTCCATATGGCTGGGG
AAGCCTCACAATCGTGGTGGAAGACAAGGAGGAGCAAGTTGTGTCTTACATGAATGGCAGCAGGCAAAGAGAGAGAGCTTGTGCAGGGAAACTC
CTGCTTTCAAAACTATCAGATCTTGTGAGAATTATTCACTATTATGAGAACAGCATGGGAAATACCCGCCCCCATTATTTAATTATTTCCCACC
AGGTCCCTCCCACAACACGTGCGCATTATGGGGGCTACAAGATGAGATTTGGGTGGGGACACAGAGCCAAACCATATCAACTATCTATCTATCT
ATCCATCCATCTGTCCATCCATTTATCTTTAATTGGGATACGTCTACAAGACAACTGATACCTAAAAGTATGGGAATTTCATTTGCTAAGTCAC
AAAATAACTTTTAAACCATCCTTATATTATACCTAACATGATCTGAGCACATAATATTGTCTAAGTCAGACCCATTCTTGCCTCTCTGAGCTTA
CACTCTTGTCAAGTGTGAGCCAGAAGGAGTTGGTCCAAGTAGAGCAAGTCTCACAGGCTTTGTGGTACTCAGGGTGGGGGTCTTACCCAACATT
TCCTCCCAGAAGCTGAAAGGCAGAAGAAATTCATCCTGAAAGAGTTCACAAGGGTAAAGTCAAGGTGGCTGGTCCCCAGACAGGTCATAG
GAATAAGGTTCTGGTCATACAACAGGAGGCAAGGAGCCCAAGTAGAGGGACTTGGGTGTGGGGCAAGTGGGAGGGTTTCATTGAAAAACTAGGT
AGAAGACAGGGAGTAATGGTGGATAAGGCAAAGGACAGCATCTAATTCAGGCCTGTCATCAAGCTAGAGAATGTTCACAGCAGTGTTGTTTGAA
AGAGAAAGGCATGGAAAACACTTTGTTGTCTATCAGCAGGTGTGAATAATTTAATTGTGGTGTTTTCAAATAGTGAGATTTCCAGCAGAGGAAA
TTAATAAACCAGAGCTGCATGTGTCGATGTAGAAAAAAACCCAAAGTGTCCAGACATGGTGGCTCACGCCTGTAATCCTAGCACTTTGGGAGGC
CGAGGCGGGTGGATTGCCTGAGCTCAGGAGTTCGAGACCAGCCTGGGCAACATGGTGAAACTCCGTCTCCACTAAAATACAAAAAATTAGCCGG
GCGTGGCGGCCTACGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATTGCTAGAACCTGGGAGGCAGAGGTTGCAGTGAGCCGAGA
TCGCGCCACTGCATTCTAGCTTGGGTGACAGAGTGAGACTCCGTCTCTTAGCAAAAAAAAAAAAAAACCGAACACCCAGTGTTCTCACTCATAG
GTGGGAATTGAACAATGAGAACACTTGGACACAGGAAGGGGAACATCACACACCGGGGCCTGTTGTGGGGTGGGGGGAAGGAGGAGGGATAGCA
TTAGGAGATATACCTAATGTAAATGATGAGTTAATGGATGCAGCACACCAACATGGCACATTCATACATATGTAATAAACATGCACGTTGTGCA
CACGTACCCTAGAACTTAAAGTATAATAAAAAAAGTAAAAAGAAAAGAAAAGAAACAACAACAAAAAAAAACTACCCTTTAAAGGAATGCATAT
AAACAATAATTTATTTCTTTCACATTCATTTCACAGTTTGCTTACTGAAGCATCAGTGTGTCTTTCAATTGGATGTGATGTGTTTTGAAGACAT
AAGAGGCAGGAAAGTTTTGGTTGCCAAAAATAAAGAGAAACAGGGAAGAATTTAGCTTCTGAACTGGATGGTCACTCTTGCCAGAGGCCTTGGA
GGAGGGCAAGGTTTTGCATTTTGTTTGCCAATTTTTTCCTTAAATAAAGTGCCCTGGACTTCAGGTCAGTCTTGCCCCTTGAGCTGCTAAATGA
TTCTGCCAGATTCTTTCAGCTGAGCTGTGCGGGGTCCTGAAGACCTGCTTTGACTTCCTCTGCACCAAACTGACTCACTCCCCAGGGAACAAGA
TCAAGGCTGAGGAAGAGAAAAAGCAGGGCATGAATGGACCCTATACCCAAAATAGTAATTCCATTTTCTCCACCTGCCATTCTACCATCACAGT
GAAGCTTTTCTAAATTGTAAGAGGCTCTTGTAAAAATGAAGCCACTCCTGGGAGATGTTGAATTTTATCAGCCAACATGTATGTGGGTGTCCAT
GGAAAACAAGACCTTGGCAAATTATACCACAAATGGGCTGGGGCAAGTGGGAGGAGAGTGATAGGAGAACGTTTGAATCAGGACAAAACGAGTG
AACAATGTGGAGGCAAAGGGTGGGAACAAGATGTGCTTTGCCAACCAGACAAGTTTTTCAAGGCTAATTTTTCTAGAGACCATCTTAAGAACAA
TTGCAACACTAGACAAAAAGCACACAAACCAAAAAAAGAAAAAAATCTAAACCCAACAGCCTAAGTATCAGAAACCATCTTCTTATCCATATGG
TTAAAAAGTCAAAATGAATTTATTACATTTTCACAGAACCATTTCCTGGGCCGGAACTCATTTCTCCTTAAATAAATACTATAAAATTTTCCTC
AGAACAAATCAAGTCCCCTCTATAACCCCAGAAGACAAAGTACATCGGCAGTAAAAACAGACACAAAGTCTCCACTGTTGTCAGAGGTAGCATG
GCCTGGTGGGAGGACAGGGAGCTCATGCTGCCGCATCAGTCGGGAGGAGGGATTTGTCTTCTCCACAGGGCAGGATCCCTACAGGAAACAGGAC
AAACTGAGAAGGGCTTGACAATGGAACTCTTTACAAAGGTGTCAGCAGAGTATTCAAAACCACAGGAGAATTGAGTGTCAGGGCTAGCAACTGT
ACGGTTCCAGAGCCAACCCATGTCGGAAGGGTCAGAGGGTGGGACAGTCACCACAACCCCAGAAGGGAGAGTTCTGTAGAAAGGGCCATCTGGA
GGGAAGCAGTGACCTTCAGTCAGCCCAAGGTGACAGCCAGGCAGCAAGGAGATGAGTACCCTCAGCCTCACTCCTTCCCTTCCTCCAACCTCCT
ACCAAGCCTCCCTGTGGGTCAAGCTCATCCTGGGAGTCAGAAGGCAAGAGAGCCCCTAGATGCAGTCCACATAGTTCAGAGCAGGTTGCAGGTC
AGGAAGGGTGAAGACAGGAGAGGCAAAGGGAAGACATTGGGCAGGTCTTCCAGCTCACGGCCCTGTCATGCCTGCAGTCACTGTAGTACAGACT
GAATGTTCACTGTGTCCTGCTTTCAGCATTTAAGATGCCTCTGAGATAAAGAGCCTGCCTTGAGTCTCACGGGACATGCTCACATTTCTGAAA
CCATGTAGCTTGCACTGTTAACCTCTTCCTCGGTTTAGAGGTTTTAGGGGCTCGTTTCACAAAGCTGCCCCAGCCCCTCATGTTAAACAACCTG
AGGGCTGTGACTGGGCAAAAAATAAATAAATACATTTGCATTCAACATTGACAAAATACACACTTAAGTGAGACTTTTTTGCATCACAAAAAAA
TAAGTTTTTACTTTTTTCAAAAAGTAAAGGTTCTTTAAAAGATATCATCTAGAGTAGAATTAAGGGCTATTATTAGAAAATCACAGTGGTCCCT
AGGCAAGACATTTTGAGGGATGAACTTAAGCAGGCCCCAGACTCACGTCTTCCATGTCCTACAACCCAGGCATACCCCATCATCCCATACCTTC
AATTTATCCAAATACTTCCTGTTTCAGTTGGCAAATTCCACTGCCCCAAGCTTCCAAATGTCTTCCACTGCTGGCTTAGCCTTCTTCCTAAATC
CCCTCCCCATAGTGTCCTGGACCCCATTAAAATGCCAGCAATGAAAGCATCTCCTTTCCCCTGTCTAGCACAGCCAGGTACATCTGTTCTGAGT
GGTCAGTGCCCAAAACAGCCCAGTTGCTAAACAGTTTGACCATCACCTATGCTCACACAGGAGTTACTGAGATGATGGTCCTCAACTGCAAATA
AAAAAACACAGGCCACTCTGTAGGAGCCATTAGCTCACAACTTGCTGGGCAGGCTCAAGTTTTAGGACTCAGCATGCTGAATAACACCTCTATC
CAATGGTAAATTTCTCTGGAAATGAATCCAAAAACCTCTCAGATGACAGATCCTGGGACTTTCAAGTTGTTACATAGCAGCAAGGGTTGCTGTC
ATGATTTGTTTACTCTTTGATTCCCTGCTGTGGCTCATTTGAGATCTTGGAGTGTTTGCTGCAGTAATTATGGCAGGATTTTCCAGAGTGGTT
TTAGCATCAGTGAAAGAATTAGTGTTCATTACTCCTTAATTCTATCACTCAACAAATTATAGGGGTAAAATTAGATCCTATTAAAAAAAAAAAA
AAACAGGGAAAAACAGCAAACAGAAACAAGCCGGAAAAGAGGAAACTAAATTCACCCTCTAATACTGATAAGCAATTCTTCCCTACCACTAAAT

TTTAAACCTTCATCAGAGACAGTACTTTGTCCGTTTGTTCAATACTTTATTCTTAGTGCCTATTACAGTGCCTGGTACATAGTTGGCCCTCAAT
ATATGTTTATTTAATGAACTGATTAAATAAACTAGACTCAGGCTCTGACCCTTGTGCTAAATCTGTGCTCACAATAGATGTTTTAGGGCATATT
AAATTTTGAAGTCAGTTCATCTCTATGGAATTTATAGGCAAAGGGGCTTTCTTTTTTTAGAGGTAGGTTCTTGTTCTGTCACCCAGACTAGAGT
GCATTTTGCATTTTGAGTGCAGTGGTGTCTGCCAGTCAGACTAGAGTGCAGTGGTGTGATCATAGCTGACTGCAGCCTCAAACTTCTCGGCTCA
AACAATCCTCCCACCTCAGCTTCCTCACTAGCAGACTACAGGCACATGCCATTGCACCTGGCTAATTTTTTAATTTTATTTTTTTATTTTTGTA
GAGACAGAGGTTTGCCACATTGCCCAGGCTGGTCTAAAACTCCTGGGCTCAAGCTATCCTCCTGCCTTTATTTCTATTTTGAAGCAAACAAAAT
GATGCAAATGAATAAAGAGTCCTAGGAAGAAGTGTCCTCTGCTCTTGACTGTCCACTAACTCCAGACTTCATAGTGGCCCCCTTTGCTTAAGGC
ATATGATAAACTTCTAATGATGCTTGAATTATATTTCCACCAGCAGGATCAGTTATTTTCCTCAGACTCAAATTTTGCAATCAAAATGCACAGT
GTACACACGGCTGCTTATATTGCAGCACATAGCATCTATTTTACCATTTCAATTTGTGTGATTTCTTACATGATGGATTGTGGGATGACAATAA
TGTGTTCTCAGTGAAGCCTCTTGACTAAACCAAAATTTGCATTTTTATAAACCTCCATGAAACAGCTTTACTTAGTAAGATTCTATAATGCTAT
ACTAAAGAAAATTACGTGGTAGCTTCTAAAAGAAATACTCCCTCCATCACAGAGACCGAGCCTCATATGAAAACAGTAAGCAGCACACAGGAAA
CTCATGCTGTAGATGAATTTGGAGAGCCACCTCAGGTTATTTGCATTATAGAATGCTAAACGCAGACTATGCAAGAAACCAGCCACCTAGAGAG
ATCTATATAGAAGTAGAGAAACTTCCATACCACCAGCAATTTTGGCTTTCCAATAAATATTGAGTGATGTCCAAAAGTCGTATAATTCAAAAAG
TCTAGGGTAAGGAACAAGATAAAAGCTAACCCTTGTGGGTGTTGGTAAATCAATAATTAATTGGAGATCTTCCATGATATTTCCTCATAAGAAT
CATTGCTAAAATTGTTGTAATGACTACACAGACTCCCAAGATTGCAATAGTCAAACAACACAAACTGTTGAAGTCATGAAGGGATATGCAACAT
GGCTCCTTGGTTAACCTTTTGGTAGGGATCCAGTTTCCACCATCATGAAGTCCTGTTTTCAATATTAATTTACATCATTAGAATGCCTGCTGTT
CCATCAGCATTTTCTTGAGATTTCCTGGGCCATTCTCAGAAACCAGAGTTAGAATGCAGAAATTAATCATATTTCATTTTGACCTAACTATTAT
ACCCAGATATTTATAAGCCTGAAGTATATTTTTGCCTTACTGATAAACCAATAAGAAAGAACTTGAATATCTCATAAAATAAGGTCTTTCCGCA
AGCCACACATATCTAGATATGGATAATAGAGCTAAATAATCAGGTGTCGAGTCCAATACACTGTCAATCTATGTTTGACAAGCATCCAGTTCCT
TGCCTTGAGTCATTCAGTTCTTCGTTGTTCTTGCTGGAATGAAAGCCTATACAAAACCTAGCATTAATGAAGTTAATATGAAACTAATTAGCTG
CAATGCTACTGCGGGAAAACGGCCAATCATCATTTAATGAATGATTCTCAGTTAAGCACTTCAGAAAAGTATTTCCTCTGCCCCATAATCACCC
AGCTTCATGAAGATCCTGCTTTCCAGGTTTGAGGTGTGGGATCCAGATTCACTTATAACCTAATCAGGAAATGAACAGGATGATCTTGTACTGA
AGTCCTATATTAGTAATATATCAAATGAATAAAGAAAAATGTAAATAAAGTTAGAACTTGTAGTATCGTTTTATCAACTCGCAGTATGTGAAAT
CCATGATGTACCTGCACCATAAATAAAACAAGATCTTCAAACTTCCCAGGGCTATTTAATTCTTCCATGATTTTTGTTCACAAAGAACAATCAT
TGCTCAGCCTATTCATTGCTCCTTTTGGAATGAAATACTTTTATTACTATTCACTTCAAAATATTTTTAAATTTCTGTTGTGATTGCTCCTTAG
ACCCACGGGTTTATTAAAAGTATATTGCTTATTTTTAAATATTTAGGGATATTTTAGTTACTTGTCTGATATTGATTCCTAATTCAGTTTCTCT
GTGGTCAGAATGCATGTTCTGTATGACTTCAACCCTTTGAAATTTGCTGAAACAATGTTATGATTCAGGATATGGCCTTGGTGAATATTCCATG
AGTACTTAAAAGGAACATACATTCTACAGTTGTTGGCTGTAGTGTTTTATTATATAAACGTCAATTAAGTCATTTCTTAATCATGTTGAGAAAT
CATCTATGCCCTTACTAATTTTTTATTTTCATGTTTAATCAGATATGAGAATGGTGCGTTAACATCTTCTATGATTGTGTATTTGTCTATTTCT
GCTTTTAGTCTTGGAAGTTTTTGCTTTGTATATTTTGGGTCTATGTAATTAGATGAATGTAGATCTTTATTTTCCTGATGAATTGACCCTTTTA
TCATTATGACATGTCACTTTTTATATTTAATAGTATTTCTTGCATTAAGTTTTAATTTATCTGATATTATGTATAACTCTACCAACTTTCTTCA
GATTAGTGTTATGATGGTCTTTTTTTCCCATATCTTTATTTTCAACCTTCTTGGTCCTTATTAGAGTATTTAATCCATTTACATTTAGTGTAAT
TACTGGATTATTTGAATTTAAACCTACCATCTTAGTATTTCTTTTTCTGTTGTCTCACCTATTCTTTGTTTCTATTTTAATCCCTGCTTGCCTT
TATAAAAATTTTAAACAATGACAATTTTTAAAATATTTTCATTTATCTTCTTTGTTACCTTATTAATTAGGCCTCTGTTGTAATTCACCTAGTG
CTAACCCAGGGATTATAGCATCCATCTTTCACTCATTACAGTCTACTTAAGTTAACTTAGTCCTTTAGTTAGCATCATTTCTGTCTTCCATACT
ACTGTATGCGTTTTAATTCTACATATATTATTAAAATTATAAGACATTTTTATTGTTGTTTTAAATAGTCAGTTTAAAAAATGTACCCTATATT
TACTGTTTTCAATGAACTTTCTTTTTTTCCCACATTACATACTTCCATGAACACCTCCTTTTGGCCTATAGAACTCCTATTAATATTTCTTTTAG
TTCAGAGCTGCTGGTATGTATTTTCTCAGTTTTAGTCTGGGCTCACTTTCTGTGATTCTCTCATCCCTGGATTATTGACTTTCAAAACTCAGTC
ATATTGGCAGCCCCTAGCCCAGTGACACTGTCTCAAATCCCAGAACAATTTATTTAATGCCACATCTATTCTTGCTCCAAAAATTGGCAAATGC
CTCAAGAAGAAATGAAGAGAAGCCAGTATGAGACTCGCCTCAATCTACTTCCCTTTTCTGTGGGATCTTGGATCCCTCTCATTGACCAATATCT
TTAAAGAGTTAGATGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATGATAGACAAACAGATTGATGTTATTTTTAGCAG
CAGCATTAGTGTGAATAAGCTACTCCATTTTAGCTAGAGGTAGAAGTAATTTCTTCTTAGAGAAAAAGTTTGTATAGAATTGAATTTACCATCA
TAGCCATTCTTGAATGTCAGGCCAATTGAACTCCTAAGACTCTAGCATATACAAAAAACAGAAACCACTATTTCTTATCATATGTTTAAGGGTG
TGTATTTGGAACCAATTTAGCCACAAACTTCCAGATGATGCTGACATACCAATAATTACTATTAAAAAGCAATATAATACACAGGGAAAGCAAA
TATAGTCAATTGATATATGAGCTGTTGCTCTTATTGCAAGGATTGTAAGAGTTCTGCAGTGTGGCCATTATATGTGTGCCTCACAACTTGTATT
CATTGTAAGCTTCCTTTGAGAATTTTTATCTAAGAAATAAGTCTACCCTCATTTTTTGTGGAGTATCAGAGCTTCTTCTCCTATTTGTCTTCAAG
ATTGAAAGGAGAATATTGAATGCTGATTCTCTGAACATCTGCAATAATGTATTCCAAGATATTGGCAAAATCAGTCCAAAGGCTCAACCATCCC
AGCTAATTAAATTACCTGGTTAACTCTGTGGACTACCAAATCTAAATGGATGTAAGAGAGGAAGAAATTTGAAAAAAATAAAGATTACACAGTT
GAAAAAACAAGATATTCTCCAGTTATGAATTCTTTTCCCCAAGAGTGTCTTTTGTGTACATTGTTATTACAAAATCCAGTTGTCACATTAAACA
AGCCATGCTATCCAAAGCAGAGTTGATTGTGGCTGGAAATTTATTCCAATATTGAAAAGATGTGAAAGGGCTATAACACGTATCAGACAATCTA
GAATTGACCACTAGGGGACATGACCATGAAGCCTTAGACAATAATTCATATTTAGTTTGAAGTACTATTCTGAGGCAAAACAAACAAAAAAGAA
TGATTATGGAGGACTCAATCTTAAAGTGTCTCCAAGCATGTCTTGTTCTGTCTCAAACCTTGGCCTCAACAATCAAAGCTCTGTATCATTATTT
GCAACACATGAATGCTAAATGGTATCATTTCTGACTATGGACCTATGTGTAGTTAAGTTGTGTGTAGGAATATGAGGATAGAAACTATTACTAT
CAACCAAATGGTAATATTGGACATGTTTCAAAGATTGTCTGAAAGAGCTTGTCCATGGAGACTAACCCTTAACAAGTCCCAGGTTTCTCCTCTC
CTAGAATGTGAATTCCACGTTCACCAGCAGAATTCAGTTCTGCTGAAATAGTCATGGAACAGTATTGTTTTAATTTCTCAAACTTTTCAACCAT
ATGTTTATAAAGGTTTATAAGACAAATAAGACTATCCCTGGCATATAATTCTTTCAGTAAATACTTCACATATTCTTCCATAAGAATTAGCCTC
TTCTGTAAACTCTGGAGCTACCCCAAGGTAAGATCGTACTACTGTAAATAAGCCCGAATCACTAGATTCCAAAGGCCAATGGTTACCCAGGCAT
TATTTGTTTATGACCTAAGAAAATAAGTCCATAGAAATAAATTGGCTTGAACAGAACCATCAAAAACCCCTTTCAATAGACATCTCAAATGAAA
TAGGTGGTTCTACTTCCTGAGAACACCTAAAGAACCTTTGTGTAAAAGAAGAAATCATTATTTCCATTCAGTAGCAATTTTTGAATGGTGTAAC
TTGCTATCTCCTTGCCTATTGGTACAATGCAGAGAAACTGTTCAAAGGTGAGCCATTCGGTAAAGAACGATAGAGTTAATCAGAGAGTCTCTGT
TATGCAGCTACATGGAATGCAGGTGTTCATTGCTGGTGTTTTTACCCGCTTTGAGTTCTTGTTTGTTTTTGTTCCTATAGTAGGATGCTGCACT
GATTTGGGCAGGGCAAAGTGGTGGTTGATGGAAGAGCAGAACACCTGGGAAAGTCATCCAGAGTAATTTTTGATCCCAAGAAAAGATCAGCAGA
ATTCTCCTTGAGTCTCTAAGTCTTCACATTGTAGAACTGCTTAGGTAAAAACTAATTCAGGAAATGTGCAGTTATAAAACTTTAATAAGTCACC
CATTAACTGACATTTTAAATGTAAATGTACTAAGGGGACTCTTTATTTCCCTCTCATTCGTAAGTGGACCATCCTCAACACAGAGACCCAAACC
AGAAACTTAGGAATCATCTTTGATTACTCTCTTTCAATCTTATCAAATCTTATTAGCAAATCTTATCCCTGAAATCTTTGTCCCTGAAATATAT
CTCAAGTCTTACCTGTCCTCACCAGTTCCACCGCTACCATCCTAATCCTGGCATCAACTCTGAACTGGACTGAGTCCTCCAGCAGCCTGGTTCC
ACTGCTTCTATTTTTTTTCCATTGTCTCTCCATTTCATTGTACACACAGTTGCCAAAATAATATTTTAAAATCTGTATCACTAATTTAAACG
CTTGTGGCTTTTCAGTGTACTTAGAAGAAAATCCACACTTGTAGACCCTGATGCATTCAGCCCCTACCTGCCTCCCCAGTCTTATACCAGACTC
CATTTCTCATATATTGCAGCCATGCTTGCCTTTTCAACATCTCAAGCAATCGAAGTGCTTTCTCGATTTGAGACTTTTTGTGCTTGCTATTTTC
ATTGCCCGGAATGCCTTTTCTGAGAATCTCAAGCAGTTGACTCCTCTGCATTTTTTATGTATAAGCTTTACATGGTTCATATTCAGAGATCCCT
TCCCTGAGCACCCTTAGTAAACTGTTCTTGGCTTTGTTGGGTATTATTGGAACTTACCACTGCCTATAATTATTATGTTTGTCATCAGGTTTAC
TTGTTTCTTGCCTGTGTCCTCCACTAGATTGTAAGCCCCAGATATCAGCTAATTGGTTGTATAAGTTTCCATTCTTTATATAGTCTTTGAATAG
TAATCATGTACTTAGTAAAGCCACTAAGGCAAGTGGCCAAGGAGACGTGGACAGTTATTTATATCTAATCCAATCTGAAGAATTATTCCAAGCA

AAAATGACGTGACTGACGGCTTAAAATAGCTAAAAACTTATTTAGTTCTATCTCAAACCTCAGCTTCAATAAGCAGGCTTTCAGCCACATGTTT
TCAGTATATGAATTGCCAGAGCTTCCTACCAACTAGTCATATAGTGTGTCTACCTTAACCTGGTACCTTTACTTGGGTTGCATTTCATCAGCAG
CCAAGTCCATCTATTTGTCACAGTGTCTCTAGTACACTGCTTCTACATAGTCAGCAATCAGTGAATACTTGATGCCTGCATGCATGAATAAATG
AACTTCTCAGGAATGCTAGGGCCAGAGAAAGTTGATGTTTAAAAAGTTAGAAAATGTAGGCACTTGAGAAGGATTAAGAAATTAACATAAGCCT
TCTTTGAATTTATCATTGAAATCTATTATTCAATTTACATGTACAATTTCAGCAATACATATACTTCCTTTAGTCAAATACATCTCCCTGTAGC
ACTTACCATGTCTCTGACCCTTTGCCTTGCAAATTCCACTCTGATAATACCAGCAGTGAATAGAAATTTAAAAAGCCACTGTCCTCACTCCTTC
CACTCATGTTCTAATGTAAGCCTTTCTTTTATGCAGCCTGAATGCACAATTCACTTGTCATTATCTCGCATCCTAGCTGCTCCTCATGAAATGG
CATTCCTCTGGATTTGCTGAGTCCTAATGTTCAGGCAAAGTAAATCCCACATCATTCTTGGCAGGCTTTCAGGAAGACTTAGGGACTCGTTGTCT
GCTAGTGCAAATAACAGCAAAGTGTGGTAGGACTTCCTCCTTAGTTCAGCGAAGAGCCAGGTCCTTGTCGCACGGCCATGAAAAATTAGGCTCA
CAGACGATTTCGAGGGGGAGAAAAATGAAATTTATTGGGCAAAAATGGGGAAATTAGAAACAGGGGCCCTCTCCAAAGCCAGAGTCCCTGCTAG
AGTACTTCCCACCTCACAGGTTGAATCCCAGGTGCCACCCAGGAAGAGGAGGGGCCAGACTCCTCCCCTCTGCCAGCAGAGCAAACTTCTGTGG
CTCCACCCCAGTGTGTATTCCTCCCAGTGCGCAAGTCGGTTGGAGTTTTCTGGGAACCGCCTTCCCACCTGGCTGTCTCAAAAGGACTCCCAGT
TGCAGAGGTATGTGTGATTCAACAAGATCCACTGGCAGAAAATAGAGGCAAATTAACTCAAGGAGTCCATTGGAATATATCAACGTACTCCCCT
TCCACTCACAAGGCAATGATTTCTAAAACAGTGAATCATTTTACTTACAAGGGGTCACAATGGAGACAGGATAGAGGAAACTGCCCGGGAGACA
CAGGGACGAGGCATGTGGAGAGGTAGACCTTGGATCCAGTTCTGCAGCCAGTGAGCTGCTCACTCAGACCTGTTGCTCCCCTCCAGAGCCTCCC
TTTCTTCATCTGGGGTATGAAACAACTGGACCAGCTTATCTCTGAGATCCCGCTCAGCTCTGACCCTCCTGTTGGAGAAGGCTTGCATTCTGAG
ACTGCAGTCCCAAGTAGCAATCTCTTCGGAGGGCATGTATGTGATTACGTACTTAGTGTGCTCACATAGTTTCATAAGAATCCGGTAAAATTCA
TTCTTATGCTACTTTTGTATTCCCACTTATTTTGAATGGAAAATCCTTGTACATATTTCCTCAAATTATGGATAAAAAGTATACAAAATACACC
CTAGAGGCCAAGAAGCTCCTTTTGGTAGAAAGAATGTTGAGCCCTATGAATTTGAGCTACTCAAACTTTGTGGTTTGTTTTGGGAGCCAATCTT
GAATATAAAATATTTTTTGATCCAGCAGAAAGGTGAAATCACATTGAAGTTTACAAAATAGTAATGCTAAGATAGATAGATTTTCTTGTGTGCC
ACACTTATGTTGTAACCAGAACTTAATTCACCATAATCATTGACAAGTCTTTTGTTACTGGAAAGGATAAGGGTTGGCAGGTCTTGTGACAAAT
GTTAGAATTTAATGCCCAGGATTTTTCTTGATGCACAGGACTCATTGGAAAAGCGGCAGCTATTTATTGTGACTATGAATCACGTCCACAGATG
AATATGATTAAGTGCTAAATCCATAGCAGCTCAAGTTTTTTAAAGCCTTGGAAAATTGGCTTTAAAAAATATCACCTGACAAACCTCAAGCTTT
TTCTGTCTCACAAGACTTTTGGAAAAGAACTAGGATCGACAGTGTTTTAAGGCTCACAAGGAAAAGAATCTAACACTTGTAAAATTATCTTCTG
TGCAAGTTTTATTTTCCAACGTGAATCTGGGCTGCCAAGCATACTGGCTCTAGCCAGATCTTCATTAGCCGATCCAAAAAGACAGTCGGGGCAT
TTATCCAGATAATGCAAGCCAACACTACCCTCTGAGAAAACAAAAAGTAACTTGCCTGATGAAGCAAGGAACCTCACCGATTATTCCAGATTAA
TGCATCTCCTTTTACTGGCACCATGATCAGATATTTTCAAGACAAAGTACTTGGCAAGTTGGAATCCAGCTGGGTCCTTTGATTTTTGAATTCA
CTTTGCTTCTGTGATTATGGCCACAGTTTTGAAAATAAAGTCATGTGGATAGAGTTGTGATTTTTAGGGATCAGGATGCCTCATAAAACAACAA
TGCTGTATTCTTTTGTAGAACAAGATCCTGCCTAGGCCTCTTTCCTAGTATTAATCTTTGGTCATGATGAATGTGCTCCCAACCATCCAACCTA
TCCCTTTGCAACCAGGCTTTTGTGAGATCAAATAATTTTTAGAGTTGAAATGAAGTTATTACCAGCTCTAAAATAAGGTACTACAGGAGGGAAG
TAAGGACCGACAAGAGTTAAATCACTTTCTAGGGTTGCGCAGGTAACTGGGAATGAAGCCAGGATGACAACTCTACTTGCTCTTTCATTGTATC
TTATGCTTCTCTGATGTCTTCCAAGGGATAGCAATATAATCAATAGTCTTGAAAGAAAGATCTTTGTAGAGAAAGGGTCAGCAGATTATGTTTG
TAATTGACTAGATAGAAGTAGTTTTGCTTTTGCAGGTTAAATGGCCTCTATAAAATGTAATTACCCAATGGGTTCTTCCTGCCCACTACACAAA
GACCACAGCTCTGCAGTAAAGAGTTTAACTGACACAAGGCCGGCCACGCCATGTGAGAGACAGAGTTATTACTCAAGTCAGTCTTATCGAAGGC
TTGTGGGCTAGTGGTTTTTCAAAGACAGTTTAGGGGAAGAGGTGGGGGTGGCTAGGAAATGGGTGCTTTCCACTGATTGGTTGAAGCGGAGAAG
AAATCGTAAGGGGTCAAAGCTGTCCTCTTGAGCTGATTCACTTATAGGTGGGGCCCTAAGGGTGATTTGGCAGGTCCGGGTGAAGCCATCTGGT
ACAAGTGGAGCCAACCATGTCAGACATGCAAAAAACCTGAAAACATATCTCAAAAGGCCAATCTGCAATAGTGATGTTATCTGCAGGAGTAATT
GGGGAATTTGCATATCTTGTGACCAGCCTACACCTTAGCAGAATTCAGGCTCCTCTCCTCCCCATAGACTGGGGCTCTCTCATGGCTTTACAAA
GGTGGTTGACTTTTGGGGAGGGGCTATTATCATTAAACCATAACCTAAAAGTCTTCCAAAGTTATCTTGGCCTCAGCCCAGGAGTAATTAAGG
CAGCTTGACCACTAAAGGTAAGAGCAGAGATGGCTAAATCAGATCTCCTTCACTGCCATAATTTTCTCACTGATACAATTTTTGCAAAGGCATT
TTCACCCACTACCCAACTGTGTCATTGTAGCATGAAGGCAGCCATAGAAAGGAATAGGCATGACTGTTCCAGTGGAACTTTATGAATTAACACT
GAAATGGAAATGTCATACAATTGTGACATGTCACAGAATATTTCATTTTTAATTGTTTTCAACTATTCAAAAATGTCAAAATCATTTTTAGCTT
GGTGGTGGACTGGATTTGGTCCAGAGCAGTAGTTTGCCTGCCTCTGTTATAGAGTAACACATCTGAGCCCATGAGAGAATTGATCCTGTACCTT
GGGTAATGCTCTTCCTCTCTGGCTCCTTTCTACACCTCAGTCACTTTTCCCCTGCAAGAGTGTTGTCACATTAGACTGTAAAATTGGATCACTT
TTATATTTCATCTCTAACATGCCTTATTTAATAAAAGTCATTCTAGGTATGACTAAAGTTCCAGGGCTAACTTAGAAAAGGACTGAAGAGAAGA
ATTCCTTCTGACAAATGCGGACCCAGCCACAAATGCCAGTGATATTGTCCCAAGTATTGGTGGCTTGGGTTGCACTTGATAACAGAGGGCAAAA
GAAAGTATAAATTTTGCTTGTTAACATAGCTTTAGTGGAAAATACAGAAAATGCCCCCAAACTCCATGCTAAGATCATGAACTAAACTGTTACA
ATGAAAGGAATTACTTGGGTTTCTATAAAAACAGCTGCCTCAAGGAATTTGCCACATTCCTTGGGTCTGCCTGAGCTCTGGTGGCCCACTGCTT
GGATAGGCCTGGTTTGTTTGCTAACTTAACATGCTTGCTTAACGGCCAAACATTCCCTTGAAATTCAAGGACTTTCTGTCCCGCTGACACTGTT
TATTTGTATCAGTAGAGTGGAGGGCTCTCTGGTGACACTCTAGTTTTTTCTGGGTTATAAGCAGATGCAGGTCTGTAGTTTTTCTGACTTGGAT
GGGGCCAATGGGTCTAAGCCAAGAGGAAAATGCTTTTTTCTTTTTCGTGTTTATTTCCTTTTTTTTTTTTTTCCTATCTTGATTGGAGTACCCT
TAGAAGGAAAAGGAGAGCCATAATCGTTCTCTGGAGGCCAAAAGAAGGCCGAAGGATGCCAAAAATTGTCACAGTGGTGACTTTTGGCTGGAGC
CAGTGCAGAATGAGGGGCTATGAGTGTGTCACTAGAACTGTAATCCAGATCTCTTCCATGAGGTCAGGAACCCTGATTCGTATTGCTTTTTCCA
TGCTGTAGAACATGACACCCCACTCAATCACTTGTGCTGGTTCATTGTTACTTGTTATAGTAGTCATTGTTATCAAGACTTTTTGGTTGTAAGT
GTCAGAAACCTAACTCAAACAGAGCTAAGCAAAAATAAATCTATAAATAAATATAATTAGCTCAAAAGTCTGAACTCACTGGATTGATCTTCAG
ACATAATTGCATGCAGTGTTCAAGCAGCAGCTACCATCTCTCCTTCCCTTCCCTTCTCTCTTATCTCTGCTTTCCTCTGTGTTAACATCCTGCTCT
GATAAGCTTTCTCCATGTGGAATGAAAGACGGGCTCCAGCCTTTCCAGGCTCCTAAGTTCCTTGCAGCTCACGGTCCCAGAAGGAAAGAGATTG
TCTCCCAGCATCTGTCTCCATAAAAAGAAGCCACCGTCCTTGCTTGAGTCATGTTCTCACTCTTGGACTTAGCAGAGTCCAGAGGGGCTTGGAT
ACTCTCACTTGGATACTCTCAATACGTGCCAGCAAGGGGCACATATTCACCCTTCATTGGGCAAGGTAAGCCTGTTAACAGTCCCACTCGAATC
ATGGGGAGTAAGCAAAAGGAAGTTCTGAAAATGAAAGAATGTGGGACAGACATAAAACTCAAAGCTGTGCACTATGCTAGTAAATTATTCTTGT
GTACTTAATATGAATATGGCTTTTATAAACAGTAAGCAAATCAGAAGCCACCCTGTGAATCATCAGTTATCTCTAGACATTTCTGGATTCCTTC
TTTATTCCCTGATAATCTTCTTTCCTTCCTTTCACTGCGTTGTAAGTGGAAATAACACAAGCCAAAAAGACCCTCTCCTGCTCTCAATACACAC
ATGGTCTAGTTCAGGAAGACAACATATAAACAGCAGGCATACGAGCAATTTCAGTAGACTGTGATGCCTGCCCAGGGTGCTCGTGGTCTACCTT
TCATGGACCAAAGACAACAGGAATAAGAGCATTCATCTTCCTCTGCTATTGTGAGAATATAGACAGTGCAAAGACTTGGATGCCAGTGCTAACA
TCCCTGCCTGACCTGACTTTGAGAAAAGGACCGCCATTTTCAGCACAACCCACAGGTTCTCTAAATACTCAAAGTGTGAGGCTAGCAGATAAAT
TTGGCTTATAGAGGGAGCTTCATACCATGGTTAGAACACAGCAAGAAAGGAACAAATTTTTAATGTATTAATTGAAAATCAGATTTCTCAGCTG
GGAAGAAGATATTAGCTGGAACACACACAAAAAAGTATTTTTAAAGGTGCCCTTTTAAAGGCTGCCAAAACTCACCCAAAGTAGTATTCAAATA
TGAAGACAGATGTCTTTTCAAGACGGGAAATTTTAGTTCCGAGTATGAAAGAGAATTTTATTTATTTGTTTTTTCCCTTGCCTTTTCAGGCTTT
TCACTGACTTCGAGGGGATGAGGGTATGTGTGCTTAAAGTAGATGCCAGAGTGTCTTCTTGGAACTTCAGGTTTCCATGAGTAGAAGGAAGTGT
TGAATGAATGAGGACCCACGGCCCTGTCCAGTGTGGACATGCCATAACCCTGTGCTGAGCTTCCTCATCTGTGTTCTGGGCTTACATTGAATAT
GGCATAAGCAACCCCGAAGAGCCACAAAACTCTGCTCTGTTAAGGGAGGAGGGCAAGTCCTCCCTGGAAGGGGTTGTCTCATCAACCAGGAAAT
GGTGGTCAGGATGGATACAGTAGCATCTATACCTCAGCCCCCTTGAAGTATCCTGATGTCCACTCCCCACAAAATCTAGGCCTTCCATAGGAAG
TCAAGAGGATATTGTGCTGATATAAATTTGGACCACCAGTGAGTTTGCCCTCAGACCTGGTAAGAAGTGCATATTTCAGATATAAGATATTGCT

CTGGCCTCAGCTACATACAGTTTCCATAAAGGAAAACTTTGAAGGACTGCCTGCAGGAAAAGAATAGCCTCGTGTTGATGTATCTAGGGACAGA
ACTCTCAGGCAGGACAACAGCTTCCTCAAGTCTTGTGACTACACTCTTTTTCCCAAGATATCTCATTGCATCTTTAATTTAGCTCCTAATTCAA
AGCCAAGCTCATGGACTGTTTCAAGCTCTGGACCATGAGCTTAGCTCTGAATTAGGAGCTAAATTAAGGATGCAACGAGACATCCTGGGAGAAA
TAGTATAGTCACAAGACTTGAGGAAGCTTTAGTGAAAAGCAGACCCACCCAGCATGTGTAATTCTTCCATGAGGTTTCATCTCACAGTCTGCAT
GTCTTGCAAGTGGGCTTAGGGCCACAGGGGCAGGAGCTCTTGGTACTCAGAATGTTGTCTAGAAGTTTGGAGGAGAGAGATCCCTTCCAACCTA
GGTCAAAAGGCAGAACTGGTAAAGGACTTGCAGACATGATAACTTTGAGCACAATATCTGAGAGAGCAATCCATGGAAGTCATTTGAGGAAGAG
CATTGTAGACAACAGGAATAGCAAGTTCATAAGCCCTGACCTCAGGAACCTGCCCGGTACATTCAGGAGCATCAAGGAGACCATACTGGCCAAA
TGGCACAAGTGTGAGGAAAGTGTTGGTAGGAGGTGATTTCAGAGGGATGCCTGGAGGCCAGATCCTGGAGAGTCTTGTAGGTCATTGTATAACT
TTGACTTTTACTTTGAATGAGATGGTAAGCACTTATGAGCAGAAAAGTGTATGATTTAACTTACGTTCTAAAAGAAGTATTCTGGCTCCTGTAT
TAAAAATAAACTGAAGGGCAAGGAGAGAGGTGGAGAGACCCATTGGGAGGCTAACGCAGACATTTATCCAGGCAAATATCACTTAGACCTCGGT
GGTGCAAGTAAGGAAAATGAGAGGAAATTGCATTTATAAAAATCTCATTTAAAGATAGAGTCAACAGGATTCATCATTGGATTGGATTGGAGTA
AATGAGAGAGAGAGGGAAATCAAGGATGATTCAAAGTTGGTTTTGTTTTTTTTTTTGTTTTTTTTTTTTATCTTGAGCAACTGGAGAGATGGAG
ACAACATTTTAAATTACTTTGTTCTTTGGTAACATGGCAGTAAACACACTTATAAACTGTATTACAGGTGGCAATCAAAATAAGCACCTGGCTG
ATTTGAAATATGGTTTAAAAAAAATTACAAAGTAAGGAAGATGAACTTGTATTGTTCTGCCCATGCAAACAATCTGTAAAACTGTGTGCATTTA
TATATTTTTCAGTCATTAATATTTACAGCGGGAGAGAACTGTTTGTGAAATCATGAATTATCTTTTGTTTGAAATTTTATTTTATTAATGAGTTA
GAAGTACCTTTGTAAGCCATTGTACCTTTTTTCTAAAGGTGAGAGCCTAAAACTACCATGTTGCAATGGAATAAGCCCTGGTTCTAGCTTCACG
CCCTGGGAGTGACTTCTATTAGCTTTGGAATCTCCGGTAACTCCTTTAATCCTTTGAATTCTCACTTTCTATGTCTTAAAGGTGATGGCTGCCC
ATTTCATCAACTGTGAAATGGCATCCAAGTCCCAGGTATCGTTAAGAACCAACGGCTTCCATTTTAAACAGAAGTTTTGTTAAACAAATATTTG
GTTTTACAAGGGTATTATAATTCATACCCTTATTCATTGTTCTTCCTTGCTCCCAATAGTCGATGGGTTTTTTTTTTAGCTGTGGCTTATGTGA
TCAAAGAGGTGAAACAAGTTAGCTCAATTGGTTATATTCTGAAATTAATAAGGTGTTCTTTTTGCATGTGTATACAAATTAACTTCCCTCTGTT
TCTTGGCCACACACCTCACCTCAGCTTCACAAATGAGTAGAATTGATTACAACATGAATCAGACAAGAGAGTGTAGATCTATCACTGTTATTGA
GAAAGCAGTTCAAAAAACAAGCATTCCCGCATGTTAGTAACATGTTTTTATAAAAGCTGTAAATGTATATTTATTCATATGATTTAATATTTTT
TATCTTCAGTTTTTATTTTAAGTTCAGGGGTACATGTACAGGATGTGCAGGTTAGTTACACAGGTAAACATGTGCCGTGGTGGTTTGCTGCACA
GATCCTCCCATCATGTAGGTATTAAGCCCAGCATCCATTAGCTATTCTTCCTGGTGCCCACCCTCCCCTGAACCCCCTCCCCTGACAGGCTCCA
GTGTGTGTTGGTCCCTGCAATGTGTCCACGCGTTCTCATCATTCAGCTCCCACTAATAAGTGAAAACATGTAGTGTTTGGTTTTCTGTTCCTGC
ATTAATTCGCTGGGGATAATGGCTTTCAGCTCCATCCATGTCCCTGAAGAAGACATGATCTCGTTTTTTTATGGCTGCATAGTATTCCATGGTG
TATACGTACCACATTTTCTTTATCCAGTCTATTATTAATGGGCATTTGGCTTGATTCCATGTATTTGCTATTGTGAATAGTGCTGCAATAAACA
TATGTGTGCATGTATCTTTATAATAGAATGGTTTATATTCCTTTGGGTATATACTCGGTAAGGGAATTGCTGGGTCAAGTGGTATTTCTGCCTC
TGGGTCTTTGAGGAATTGCCACACTGTCTTCCATAGTGGTTGAACTAATTTACACTCCCACCAACAGCATAAAAGCCTTCCTTTTTCTCTGCAA
CCTCACTAGAGTCAGTAATATTTCTTCAAATATGAAGGACTTGACCTCAGATCCTTTATGATGATCATAAATACATAAATAGATAAGTTAAAAA
ATAGGAAGGACAGTGTGATACTAAATAACTACAAAATTAGAGATGTATCAAAAAGTATTTAGGCACTAAAATAGTTGAGAGATCATTTTCAGAG
CCTCCAAGAGTTTCTATGCCTTGAATTATTTGAGCATCCAGTGCAAGCTTTCAGAGTCCTTGCTTCCTTAAATATAAAACAAGAAGTCAGATAC
CTTTGCCTCTGACTTCTCAGAGGTCTTTGAGCTTGACAGTTCTATAATTCTATGAGTTTTCTACCTAGAAACTATTCCTTCCATTCAGTTAGGA
AATATATTCAAGTATATTTTATTTAATCTTAAACTTTGGAATCCCATTTTGGTAAGCTGCTGTTATTTGAAGGTGTTGACGTATCCTCTGGGAT
CTGAGAAAATTATTATCAAAACCAATTAAAGGAATCATCTATTTTGTGCGATTGGTTTTGAAATCTGTCCAGTGGGCTCTTTCTGGAGGCAAGG
ATCCTGGTTACCAAGAGACTTTGCTGCAAATAAGGCAAACTGGGATGACATTTGGGGTTGGGATCCTTCTCAGGACCAAATGGGCACCCATCAT
CTTTGGGTCTAGAAGACTGCACTGGCATAAAGCAGCTGACTTCCTGTAGCCTTGCAGAAATAACAATGGGGTGTGTGTGTGTGTGTGTAGTGTG
TGTAGTGTGTGCAGTGTGTGTGTGTGTGTGTGTGTACAATGGTGGGGAACAGTTGGCAGAGCAATGAGCAAGAAATGGGAAACGACACTCAGAA
AAGCAGCAACCTACCCTGAGCAAATCAAAGAATTTCTTAGAATGCAACACTAGCTGTGTGTATGAATAATTGGCTTGCAAATCACTTCCTCTAT
TTGCTTGTTATATAATACCAATCATTTCAGTGTCACTGACGAAAGCCCAGAAGGGAATTACCACTTACCAGCCAGTTTTACATATGGCTTTTGT
GAGGAATAAGGCCTTGAGGATGAGGGTCTAAATCTCTGGCCCACAGATCTGGACAGGCAGATTTCAAGCTGATCATTACATATCTTTTGAGAGA
GACAATCCCAGACGAATTGGCCTGGGGGGCAACATGAGAAGGCAAGACAAAAGAACATTGTAAAGACTTCACCTAGAATCCAAATTGTAGTTCT
CTCAGCAAGTTATCAAGAAGCAAATTAACTGCTAGATTTTGTAATCCAAAGATTATTTAATCTGTTTAGCTTTGTGTTGGAAGGATCGCTACTA
ATCATCTCTTTTATTAAAATATGATAATGATAGCCATCCTTTATTAAGTGCTTATGATATACCAGGCACTTTGTATACATGATTTGCCTTATTC
AGAATAACCCTGAAGGATCAATATTATTGTCTCCATATCAAAGAGAGGGAAACTAAGGCATACAAAAGTTATTTGCTCAAGGTCAAACAGCATG
GTAAGAGGAACTGCAATTTCATTCCAGGTCTTACGGATACCAAGTCCGATGCCTGCCAGCTTGCACCTGTTAAGTCATGTGATACTTAGGAAAT
GTACACATCACCCCAGTGCAGAGGCCTTTATCCACTTCCCTTCATTTTGCCTGGATTGTTGCTGTGAGTGAGAAATAAATGACATGAAATGATC
ATGTATATCACTGTCTTCAGAGGATGGTTAGTTCCTTGCTCTGGATTGTTTTTCTCTTTTGTTGGATATTTATTTTGACTTCTCTGCAAACTAA
AAATATGCATGCTCTAGTTTCTCTTGGGTACATAACTCCCAATATATTGTGAAGAATGAAACTGGCCTACAAAGTTTAATTAAGAAGCAGTGAA
CTAGAGCTTACTTAGACAATACTTGTACTAGTGTGGGTTCATGTTGTCCATTTGTCTTTAGAGGTGTAGAACCTTGAAAGTCAGCTAATTAATC
ACTATTACTGTTGTGTACAGTATTGGCAATCTCCTATGCTAAAATTTTTTGTGATGATTTGAAGGTGGGAGGGGGCAATATTTACTAAGTCTCT
CAACCTACATGGCAATATCTGAAACCTGCTTATAATGTAGTAATAGCTTAGGCACCACCTATTTCTGAAACATAAATCATCCCACAATATAAGC
CTCCCAGTTTTATTCATGCGTCTTACCATGTATAAATATCTTTTAATATACCATTTATTTCCTTGAGGGACAGTTATTTGTAGCATAAATCTGC
CTGGATAAAATAGTAAAAATTGCTATGCCCCAGTGAATTCAGTTTACAAAAGCTTACATACGTGAATGAGACATTGGAAATGTGGTTTATAGTT
AAGGAGAATGGATCACACGGATTATACCTGTATAACTTCCCTAGAAGGTTGATACCACTAAGATATTAACACCAAAAAACTGAAAATAGTATTT
TTCATCTTACTTTGTTATGTACCCTTTGTGAATTTCTGAAAAACACCTTTCTATTATGATGGGATAAATTACGGTGTGGTAACAAACAAGCCCA
ACCTGTTTGTTCCGGTCAACTAGTTGCTTTATAACAAACCACCCCAAAATTTGTTTAAAACAGCTATCATTTGATTGTGCTCACAAGTTCTGTG
AGTTAGGAAATAAGACACAACACAGTGGTCTTATGTCTGTTGTGTAATGTCTGGGTTCTCAGCTGTGAACACTCAAATGGCTTGGAAACTGAAA
TCAGCTGGAGGCTTCCTTATTCATATGTTTGGTGCCTGGCTGGGATGACTCAGATTAGTTGGGGCTCTTGACAAAAGCACCTATACATGAACCC
TCTCAGGAGCCTTGGCTCTATGGTGGCTGGATTCTGAGAGGGAGCATGCAGAGAAAAGAATTCCAAGACAATGGATGCTCTAAGAGAAGCTACT
TGGCCTTTTCTGATCTAGTCTTGGTGGTCATGCAGCATCACTTTTGCCACCCAGATCAAAGGGGAAGAGGAGACAGACTCCACCTGTGGATGGG
AGAGTGTCAAATTCACACAGAAGTTGTATGCAAGCTATTCTTGGTCATCTTGCTCATCTATGAAATATACCCTCCTCCATGCATTGACTTACAA
CAAGGGTTTATTTCTTGCTCAAAGTCTGCTGTGAATCTAGGCAATTCTCCAGAGCAGCTGTTCTTTTGTTGGCTTAGCAATCCAAGCTGCTGCT
TCCATCTTACAGCTTTTCCATATCAACTCATGATTCCACAACCATTGCTACGAGGCAAGAGTAGTATGGAGGATCACACACTACTCTTAGAAAC
CACCAGCTGGAAGGGACTTATATCACTCCTGCTTACATTTGATGGCTCACATAGCCATGCCCAAATTCAGTAGAGCAAGCATGGCCCTCCTGTG
TACCCAGAAAGGAAGGAGAGCTAGAAATATTGGTAAATAGCAATATTGTTTACCATAGCCTCAGAGATATTGCCTCGTGGTGAAACCCTATAAT
TCCCCTCAATTCTGATTTTTGCCCTTTATCAAATCATTTTATTCATTCCTTCATCCATCCAACAAAGATGTTTTATATGCCTACTATTAGCAAC
AATCAGTAGCTTGTTCCTGGAGGGAATGCAGCTGCTCCCCGCCAAAACACCATATAATTCACTCTAGAAAACTAAAATTTCAGATGCTTTGTCA
TTGATTATTGTGGGGAGAAAATGTCTCTTTCAGCTCCGACTTTGTCCTGTCTCCTCTAAGGCATGTGAAATAAGATTTTTTTTTCCTATTCTTA
CCTCCTATGGTCCCATTTTATGGTTTTCATGCACTACTGTCAGTCAAATATTTATCATATGTCTTTCAATATTTATCATATAT
CTTTCCCCTTGTAGGCCTTAACTTTATGACCCACTATTAAGCACGCAGCTGTATTTCCAGAAAATGTAGATGGTTTAATTCAATACTGCATGGC
AATTAACTGTCTTATAAATTAAATCATTTTAATCCATCTTAGAGTTATCATGCATAATTAGTCTGACAGCACAATTCTGTTTGTTGTTGTTTTA
AAGGAAATTTAGATATCAAGGCTGCAAAGAATGCGTAAGTCTAGGCAGAAGGCTCTTATTTTCCAAAAGCAGAGCCCATCGTTGCATTTCAACA

SAGRES DISCOVERY 02-30

ATGACCGCAACAAAAACCATCAGGAGCTGTTTGGGGCCTGTTTGTGCTTTAGTCTTCAATTAGAAAAAAATGTGTTTCTGATGGAAAACCATAG
AACAATCCTCACTCTGTGGTAAGAAAGAATAAAGAGAAAGAAGTGGGCTCTATGATAGACTGAAGCAAGAATACTATTTTAGACTAGGTAGTGG
CCGGGCGTGGTGGCTCACGCCTGTAATCCTAGCACTTTGAGAGGCCAAGGTGGGCGTATCACCTGAGGTTGGGAGTTCGAGACCAGCCTGACCA
ACATGGAGAAACCCTGTCTCTACTAAAAATACAAAATTAGCTGGGCGTCGTGGCGCATGCCTGTAATCCCAGCTACTCAGGCGCACTGGCTCAC
GCCTGTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAGCCCAGGAGGCAGAGGTTGCAGTGAGCTGAGATTGCGCCATTGCACTCCAGCCTGG
GCAACAAGAGTGAAACTCTGTCTCAGAAAAAAAAAAAAAGACTAGGTAGTTATCTTCCTGGGTGGTTTTGGCTATGTAGAAAATCACTCTTACTC
TCGATTAATTTATGTACCAAATCATGCTTTGAAATATCCCACTGAAAAGGTCTAAATTATTGATATCTTGGGTCAAGTTCTGACTTGAAGGCAA
ATAGTAGGAAATACAATGGCATTTATTGGAGGCACACACTACAAATATTGTAGTATCTTTAAGATGTGTTTAAATAAACAAGTAGATGATAAAA
CTATAAATTAGAGTCACTAAGACTCTCTAGCAGAGACCCTTACCTTTTGAAGTGCACCTTAAAATGGCAACAACACTTATCAGAAATTCCATAA
GAAGCTTAGTTGTCTGCTACTCTATTGCAGTATCATATGTGTGAGCTGCATGAAAACTGGATATTATTATTATCAAAGGTTATTATCAAATGGA
GCACAATTTTATTAATAACAATATTATTATTATCAAAGGTTTTAATTTGCTAAAACTATACAGCTTCCTTAGGTCTTCCAAACTAGGTCAGCCA
GTTAACCCTCAGATCTGGAGTACCACATTTGGCTGAGTCAGAAGAAATAAAGATGCTCTCAAAACCACAAACAAAACTGATAATAGACATTCTG
ATAACTTTAACTCCCACAGTAATAAATCTTGGGTCTTTTAAAGTTGGTCAGATGTACACAGAGCTGCTTACTAATTATACTAAAATAGTTACTA
AGCAACTCGACATTTTGATTTCCAAGAATTTCAGATAAAGATTATGAACTTTATTTATTTGGTGCTTTAGAGTCCAAGGCACTATTTTACAGCC
TAAAGCTGTATTTCTCAAGGCCATCTTCTTGCATTCTTCTAAAACTTAAGAGGGATCATCTGTCCTCAAAAATATAAGAAATTCTGTAAATGTG
TATTTTTGTGTATATATATATTTGATATTTAAAATTCTGTATCTATATATACTTCCAAGACCCCTTAGAACTTACACGGTACCTGTAATTTGTT
TCTTTTTTTATACTTAAGTACAAGTAATGTTAGTGATACATTTAAAACTAGGAATTACCTTGTTTGCAATATCAAATTTTTGTAAAATATTGAGT
TAAAAAAGTCTCCTAAAATTAAGATTTGAACTATTATAAATGGCTTCAAAGATCCTTTCGTTTCTAAGAGAAGGAAGGAATTAGGATTTATTGT
GCATGTATTTCATACCAGGTGCTCATCTACAGTTATTGAATCCTTGCAACAATCGTATCAGGTAAACGCTGTTATTCTTCTCTTACAGATGAAA
AATCTAAACCTTCTAAAATGAAAGTTTGTCCAAGTTAACATGACCAATTAGGAGAGCTTGGATTCCAACCCAAATCTGTTCAGTATCAAAGCTC
ACTCTCTTCCATCCTTGCCCCTTCTCAGCTCACATAGTAGCTTTCAGAAAACAGTAGCTATCTACCCCAGATAAAATTAAGCCTTTTTTTCCTT
AGGAGAGGCTAGAAACTGAATCTTCTACCCCCTTTATTGGCATCACACAGGCACAAAAATCACCAATTCTCAAAAACCCTATACTCCCAAGTTC
AACCCAAATTGAATGGTTGGAATATTGTTGGTTTGTATGGAATAATTAACCCACATCTAAAAATTAATTATACAAAGTGAAGTGGAGATTGAAG
CAGTTTTCTAGATAATTAAGGCAAAAATAACTGCAATTTTTTTAAAAGACAGTTTGAAATATTTAGAAGGGTAGATTGCAAAATTATCCAACTT
AAGGTAGTCATATTCAGGGAGTTTAGCCAAAACACCTCTGAAGTTCATTGCCTTACAAATGAGTATAAAACTTAAACCTATGATTAATTCCCTG
TTGTTTTTCTATCTGTATTATACATATAAATATATTTTATATATTGTCCTCCTGAGATTTCAAGAGCAATTTTCTTCTAATTCTTCTAATTTCT
TCTATGGATTCACCATAGTGAATCCACCGACACGTCTACCCTGTGACAATCTTGTTCTCCATTTGATTGCATGAAAAATACCATATGAATTTGA
CAAATCATTGGTTTTTTTGTTTGTTTTTCTCTTTTGCTGCATATCATTGCCTATGCTTCTTGAGCACTAGAATATATTTGTGCATGTATAAACC
AAGGCCTTTCTTCTGAAAATTAATAGTACTTTGAATCTCTTCTATATTCTGGTTCTTTTAAACTGTGGTTGTTTTAAGTTTGCCTCTCTTGTTT
TAGGATTTATTCTTTATTTTGAGGCCCTGATTTTTCACAAAACATTTTTCTCAACGAATCCTGAGAACACTGGACAATCATAGCTTTTAGCTAT
CATGAGTCCCATTACCCTTTGGCCTCCAGTTAAGCTCTGTCCTGCAAGACATAAATTGTCTGATTATCAACTCCTACTTTGAGTGAAAAATGGT
TGAATGAAATGAATATGCAGTTCATTTCAACAAAGCAAGAAATTTGCTGTTTAAAATTGTGTTTTTATAATTCTTGAGATGGAAATATAGCAGA
CCTCTGTGAATCTGAGAAGGCATTTCATGCTTCCAGAAATGAGGGGAGAAGTGGCAATGATATTGCTCATGAACAATTGGAAGCAATGATACTA
GAGTATGCAGCAAATCTCAGGGAGATTTCAGTGGTACAGTAACTGGCCTCACAAAAGTGGGATTTATTGCATTAAATCTTTGCTGTCCTTTCTG
GCTGGTTTGATATTTAAGAAATTATTAAACATAAAATTGTATGAGCAGTTACCTATGGTAGGACAAAATGGACTGACCTCTAATGGCTTGGTAG
ATGGGATAATTTTGGGAAGAGAGAGTGGAGCTCAGTTCAGCATCCTACTCTCCTCCTCAACATCATTTCCCATTCTTGGCCCTTGAGTTTAGAT
AGGAGTTGGGCATGTGTGTGTGTGTATGTGTGTGTGGTGAAGTGGGTAGATTCCTGTTCCCAACCCAATTAGATAACTCCACTTCCATCTAT
CTTCCTTGCATCTTCTCCAGCTCATTTGCAAAAGAATGAAAGAAGCCTTGCTTCAAAAAGGTTTAGAAGGCTAAATAAGAGCACAAACTGGATT
TTCTGAAAACTGACCTGATTGCCTGGGTAATTAAACTGTCACTCCAGCAAAAGCATTTGTCTCCAAAAAGTACTGAGGTTGTCTTTCATCACTC
TAAGTCTAGACATTCTGAAACCTCCATCCTCTCCTGCAGAGAGAGGAATTAAGTCTCCACATTTCTAAACCATTGACAGTCTGTGGGGTGCCCC
ATTGTGTTCCTGACTTCCTATTCTCAGAAGGAGTTATAACGATGACAATGATGCATGCATGAGACATAGAGGTCCTCCCCAGCCCTCGGTTAGG
AAGTAAGGCAGCCACCCATGTACTGAACACAATAGTGCTTTGGAAAGAGCTCTGTTAAAAGTGAGTCTCAAAAATGTAAAGGCCTTTACGAGAG
GAACTTAATCTCCAGTGTGATAAAACGATGCACACATTACAAGGAGATGGATGTTATGAAAACAATAAGTACACCCAAGAGTACACGTACAAAT
CTGCATTGCAATTGATTTATTTGGATGCCTGTTTCTTCCTACACTATGAGCTCCTTGGGGCCATGAAATTCATTTGTTTTATCTATATATACTC
TCTTTGATATCCCCCACCCTGACAGCTAGTGCAGTCCTTTCTAAATAGTTGTTACTAAATATGTCAAATCAAATGCCTACAAGGACTGGTTGGT
AGAACCAGATTCTGGAAGTGACCAAGCAGGTCTAGCTTCATAAGAATGCCATCATCGTAGATTTGAGGGTCATGATGAAGTTGTACTAGGATTT
ATGGAGGTTCTTTGTCAACCAGTTCACACCACCAGTGACTTAAGGAAACTATATGTCGTCTATTGGGAACAGTCCTGCTTAAAGCAATTAGCAG
GGACAATTAATTTGGAGGGAAGTCTCTCTCCACTCAACAGCATTCAAATACCCTCTGCATTAGCCATGTTTTGAAAAACTCCAATTGCCTGAGT
CACTGATAGACAAACAGAAATGCAGACTATTTGTATGCAGTTTTATAAAGAAGTTTCTAACCAGAGAAGAAAGGTGTTATTTTGAAATATTAA
GCTCTTAGTTGTTCTTTCATTTCAGTGAACATTGTTGAGGGCCTGACATGAGCTAGGCACATGGCAAAGTTTTAGAGATGCAAAGGTAAATTA
AGACCCCTGTGTTAATTCTCATGCGGGCAAAGCAAGCACATTTTTTAAGTTGCAATAATGCAACAATGGTGGTGTGTACATAGTAGGGCAAAAG
CATAGAGAAAGCCATGGAAATCCTCAAGCCAAGTTCAAAGAGTCCTCTAATGTATGGCATACCACAACAAGGACCTTCAAAGGGTGCATTTGGT
AAGAAAAGGCAACCTCCAAAGATTCATCCAATCCTAAGGTTTCATAGAGTAGGGACTTCTTCCCTTAGCTGGAAAGGAAAGAAGTCATTTGGTG
TGCAGTAGACATAAATTAGGGGCCGTCCACTTTTTCTTGCAATGATTCATCTAATGGAGGAGCAGACCCTGGAGAGAAACATATCTCTTCTTGT
CTTCATTTTGTTCTTCTTTTATTAAATCACCCGCAGGACAACCGGATGCTCCAGCAATAGATTATAGAAAAAACAGATGGGTATTTCTGTGCAG
TCAGAAGGCTCCTGTGCCCTTTTCCAGCATAAAACGTTTATGAAAATCAATTTTCAGTGCCTGCTGAACCAGGCTGATGTGAGAACTAGCTTTC
CACAGTTCATAATATTCACTCCGGGATGATTTGACAGGGCTGATATTTTATCACGAATACAAAGGAGATGAGCACCATTCTCCTAATATATTCA
TTACTTGTCTCACCACCCTGGTAAATAATATGCATATGGTAATTTGAGAGACACAGTGTTCCCATTGCTCTTTTTTATTCCCAGAACTCTGGCT
GTCTTTTCTAAATGCTGCAAATCAAAGGCAAAGTTACCTCACGCACCTGTAGTCCCAGCTACTCAAGAGACAGAGGCTCTAGACCAGGACTTGA
AGTTCAGCCTGGGCAACACAGTGAGACCCTATGTCTTTAAAAAAAATTGCCTAAAAATTTGGCCAGGTGCGGTGGCCCATGCCTGTAATTGGAG
GAACTTTGGGAGGCCAAGGTGGGCAGATCACTTGAGGCCAGGAGTTTGAGACCATCCTGGCCAACATGGCTAAACCCTGTCTCTACTAAAAATA
CAAAAAAAAAAAAAAAATTAGCCAGGCATGGTGGTGTGCACCTGTAATCCCAGCTACTTGGGAGGCTGAGGCATAAGAATCACTTGAACCTGGGA
GGCAGAGGTTGCAGTGAGCCGAGATTGTGCCACTGCTGTATTCCAGTCTGGGTGATAGAGCGAGACTCTGCCTCAAAAAAATTAAATTAAAATT
TAAAATAAAAAATTACTTAAAAATTTGATTTTACATTCCTCCTATTCTCACTTTCTGGTGCCCATACAACACATAAATTACATTCTTCTCTATG
TTTACCTGCATCTCTAGGGAACAAAGCCCCTTTCACTTGTTCTGTTACTATAGAATGTTCTACAATACCCCAATAAAGATTCATTCATTTGTTC
ATTTACAAATATCTATTAAGCACCTACTGTGTGTCAAGCAGTATGCTAAATCTTAAGCATGAAACAAAGAAAGATAAAAGTATCTGATTCAGG
GACTGGTTGTTCTGTTGTTCTGGGTTTTTTTTTTTTTTTTTTGGAAGCTTGTTGAAAATCTGTGGCATCATACAAAACAAAAAAGAATGCAAAA
CTGGTGCCTTAAATAGAAATGTATTAATAATGAGTGTTAGAGCTAAGAGAAGGCAAAATGTCTACAGAACACATGATTTCAATTAACAACAGTG
AGTAAACGAATGATCTGGAAAAAAATTATGATCGGGCCCATGATTTTTTTTTGTCGTTTTTTAAAAATTTTGTTTGTTTTTCTCATACTCATAT
TATTCTAAGGCCCATTGATTTTAGAAAGAAAATCTGTTTTATAAACTTAGCATATTAAAAG

HUMAN SEQUENCE - mRNA
GGAGGCTGAAATCCCCAGACGCCGGTTTTCTGGGCTGGGCTTTCTGCTTACTCACTCCTTCTCCCTCTTTCTGGATTTTACCGACCGTTCGCGA

SAGRES DISCOVERY 02-30

AACAGCTTTCCACACAATGGAGCTTCATGTCCTCGTGCAGGAAGTACTCATCGACTGATGTGGCAGACTTTGCTCCCTGACAAAACTAAAGAAC
TCTCCTATTCATGGAGGCGAACACTGAGGATGCTTTCCACATGAACCCTGAAGTGAACTTCTGATACATTTCCTGCAGCAAGAGAAGGCAGCCA
ACATGAAGGAAAATGTGGCATCTGCAACCGTTTTCACTCTGCTACTTTTTCTCAACACCTGCCTTCTGAATGGACAGTTACCTCCTGGAAAACC
TGAGATCTTTAAATGTCGTTCTCCCAATAAGGAAACATTCACCTGCTGGTGGAGGCCTGGGACAGATGGAGGACTTCCTACCAATTATTCACTG
ACTTACCACAGGGAAGGAGAGACACTCATGCATGAATGTCCAGACTACATAACCGGTGGCCCCAACTCCTGCCACTTTGGCAAGCAGTACACCT
CCATGTGGAGGACATACATCATGATGGTCAATGCCACTAACCAGATGGGAAGCAGTTTCTCGGATGAACTTTATGTGGACGTGACTTACATAGT
TCAGCCAGACCCTCCTTTGGAGCTGGCTGTGGAAGTAAAACAGCCAGAAGACAGAAAACCCTACCTGTGGATTAAATGGTCTCCACCTACCCTG
ATTGACTTAAAAACTGGTTGGTTCACGCTCCTGTATGAAATTCGATTAAAACCCGAGAAAGCAGCTGAGTGGGAGATCCATTTTGCTGGGCAGC
AAACAGAGTTTAAGATTCTCAGCCTACATCCAGGACAGAAATACCTTGTCCAGGTTCGCTGCAAACCAGACCATGGATACTGGAGTGCATGGAG
TCCAGCGACCTTCATTCAGATACCTAGTGACTTCACCATGAATGATACAACCGTGTGGATCTCTGTGGCTGTCCTTTCTGCTGTCATCTGTTTG
ATTATTGTCTGGGCAGTGGCTTTGAAGGGCTATAGCATGGTGACCTGCATCTTTCCGCCAGTTCCTGGGCCAAAAATAAAAGGATTTGATGCTC
ATCTGTTGGAGAAGGGCAAGTCTGAAGAACTACTGAGTGCCTTGGGATGCCAAGACTTTCCTCCCACTTCTGACTATGAGGACTTGCTGGTGGA
GTATTTAGAAGTAGATGATAGTGAGGACCAGCATCTAATGTCAGTCCATTCAAAAGAACACCCAAGTCAAGGTATGAAACCCACATACCTGGAT
CCTGACACTGACTCAGGCCGGGGGGAGCTGTGACAGCCCTTCCCTTTTGTCTGAAAAGTGTGAGGAACCCCAGGCCAATCCCTCCACATTCTATG
ATCCTGAGGTCATTGAGAAGCCAGAGAATCCTGAAACAACCCACACCTGGGACCCCCAGTGCATAAGCATGGAAGGCAAAATCCCCTATTTTCA
TGCTGGTGGATCCAAATGTTCAACATGGCCCTTACCACAGCCCAGCCAGCACAACCCCAGATCCTCTTACCACAATATTACTGATGTGTGTGAG
CTGGCTGTGGGCCCTGCAGGTGCACCGGCCACTCTGTTGAATGAAGCAGGTAAAGATGCTTTAAAATCCTCTCAAACCATTAAGTCTAGAGAAG
AGGGAAAGGCAACCCAGCAGAGGGAGGTAGAAAGCTTCCATTCTGAGACTGACCAGGATACGCCCTGGCTGCTGCCCCAGGAGAAAACCCCCTT
TGGCTCCGCTAAACCCTTGGATTATGTGGAGATTCACAAGGTCAACAAAGATGGTGCATTATCATTGCTACCAAAACAGAGAGAGAACAGCGGC
AAGCCCAAGAAGCCCGGGACTCCTGAGAACAATAAGGAGTATGCCAAGGTGTCCGGGGTCATGGATAACAACATCCTGGTGTTGGTGCCAGATC
CACATGCTAAAAACGTGGCTTGCTTTGAAGAATCAGCCAAAGAGGCCCCACCATCACTTGAACAGAATCAAGCTGAGAAAGCCCTGGCCAACTT
CACTGCAACATCAAGCAAGTGCAGGCTCCAGCTGGGTGGTTTGGATTACCTGGATCCCGCATGTTTTACACACTCCTTTCACTGATAGCTTGAC
TAATGGAATGATTGGTTAAAATGTGATTTTTCTTCAGGTAACACTACAGAGTACGTGAAATGCTCAAGAATGTAGTCAGACTGACACTACTAAA
GCTCCCAGCTCCTTTCATGCTCCATTTTTAACCACTTGCCTCTTTCTCCAGCAGCTGATTCCAGAACAAATCATTATGTTTCCTAACTGTGATT
TGTAGATTTACTTTTTGCTGTTAGTTATAAAACTATGTGTTCAATGAAATAAAAGCACACTGCTTAGTATTCTTGAGGGACAATGCCAATAGGT
ATATCCTCTGGAAAAGGCTTTCATGATTTGGCATGGGACAGACGGAAATGAAATTGTCAAAATTGTTTACCATAGAAAGATGACAAAAGAAAAT
TTTCCACATAGGAAAATGCCATGAAAATTGCTTTTGAAAAACAACTGCATAACCTTTACACTCCTCGTCCATTTTATTAGGATTACCCAAATAT
AACCATTTAAAGAAAGAATGCATTCCAGAACAAATTGTTTACATAAGTTCCTATACCTTACTGACACATTGCTGATATGCAAGTAAGAAAT

HUMAN SEQUENCE - CODING
ATGAAGGAAAATGTGGCATCTGCAACCGTTTTCACTCTGCTACTTTTTCTCAACACCTGCCTTCTGAATGGACAGTTACCTCCTGGAAAACCTG
AGATCTTTAAATGTCGTTCTCCCAATAAGGAAACATTCACCTGCTGGTGGAGGCCTGGGACAGATGGAGGACTTCCTACCAATTATTCACTGAC
TTACCACAGGGAAGGAGAGACACTCATGCATGAATGTCCAGACTACATAACCGGTGGCCCCAACTCCTGCCACTTTGGCAAGCAGTACACCTCC
ATGTGGAGGACATACATCATGATGGTCAATGCCACTAACCAGATGGGAAGCAGTTTCTCGGATGAACTTTATGTGGACGTGACTTACATAGTTC
AGCCAGACCCTCCTTTGGAGCTGGCTGTGGAAGTAAAACAGCCAGAAGACAGAAAACCCTACCTGTGGATTAAATGGTCTCCACCTACCCTGAT
TGACTTAAAAACTGGTTGGTTCACGCTCCTGTATGAAATTCGATTAAAACCCGAGAAAGCAGCTGAGTGGGAGATCCATTTTGCTGGGCAGCAA
ACAGAGTTTAAGATTCTCAGCCTACATCCAGGACAGAAATACCTTGTCCAGGTTCGCTGCAAACCAGACCATGGATACTGGAGTGCATGGAGTC
CAGCGACCTTCATTCAGATACCTAGTGACTTCACCATGAATGATACAACCGTGTGGATCTCTGTGGCTGTCCTTTCTGCTGTCATCTGTTTGAT
TATTGTCTGGGCAGTGGCTTTGAAGGGCTATAGCATGGTGACCTGCATCTTTCCGCCAGTTCCTGGGCCAAAAATAAAAGGATTTGATGCTCAT
CTGTTGGAGAAGGGCAAGTCTGAAGAACTACTGAGTGCCTTGGGATGCCAAGACTTTCCTCCCACTTCTGACTATGAGGACTTGCTGGTGGAGT
ATTTAGAAGTAGATGATAGTGAGGACCAGCATCTAATGTCAGTCCATTCAAAAGAACACCCAAGTCAAGGTATGAAACCCACATACCTGGATCC
TGACACTGACTCAGGCCGGGGGAGCTGTGACAGCCCTTCCCTTTTGTCTGAAAAGTGTGAGGAACCCCAGGCCAATCCCTCCACATTCTATGAT
CCTGAGGTCATTGAGAAGCCAGAGAATCCTGAAACAACCCACACCTGGGACCCCCAGTGCATAAGCATGGAAGGCAAAATCCCCTATTTTCATG
CTGGTGGATCCAAATGTTCAACATGGCCCTTACCACAGCCCAGCCAGCACAACCCCAGATCCTCTTACCACAATATTACTGATGTGTGTGAGCT
GGCTGTGGGCCCTGCAGGTGCACCGGCCACTCTGTTGAATGAAGCAGGTAAAGATGCTTTAAAATCCTCTCAAACCATTAAGTCTAGAGAAGAG
GGAAAGGCAACCCAGCAGAGGGAGGTAGAAAGCTTCCATTCTGAGACTGACCAGGATACGCCCTGGCTGCTGCCCCAGGAGAAAACCCCCTTTG
GCTCCGCTAAACCCTTGGATTATGTGGAGATTCACAAGGTCAACAAAGATGGTGCATTATCATTGCTACCAAAACAGAGAGAGAACAGCGGCAA
GCCCAAGAAGCCCGGGACTCCTGAGAACAATAAGGAGTATGCCAAGGTGTCCGGGGTCATGGATAACAACATCCTGGTGTTGGTGCCAGATCCA
CATGCTAAAAACGTGGCTTGCTTTGAAGAATCAGCCAAAGAGGCCCCACCATCACTTGAACAGAATCAAGCTGAGAAAGCCCTGGCCAACTTCA
CTGCAACATCAAGCAAGTGCAGGCTCCAGCTGGGTGGTTTGGATTACCTGGATCCCGCATGTTTTACACACTCCTTTCACTGA

SAGRES DISCOVERY 02-31

TABLE 31

MOUSE NOMENCLATURE
ICSGNM Top1
Celera mCG15357

HUMAN NOMENCLATURE
HGNC TOP1
Celera hCG38802

MOUSE SEQUENCE - GENOMIC

AGCCAGTCTTGTAAGCCTTTGTTCTTTCTTGGGGCTATGGCCGCTCGGCACTCCTTTGTGGCTTGCTCATAGATGAGCTGTTTTATCAGAGGCG
CAGCTTGCTCTGACTCTCCAAAAATACGCTCTGCTGCCTCTGTCATTTTGGCCACAAAATCTGAGAAGGATTCCTGAGGTCCCTGGACAACTTT
TGTTAATTGACCAGTGGTTTCACCTGCTCGGGAGAGCGCCTTTCAGGCCCTAATAGCCGTGGAAGAAATCTGGGCATAAGCTCCCCAATGGTAG
TTTGTCTGATCAGCAGAATAAGCTCCCTGACCCGTTAACAAATCAAAAGTCCAATCTCTCTGCTCTGGAGTCAAAGCAGCTGCGTTTGCTCGGG
CCTGCGCTTGTGCAGCTTCGTGCCAAAGCGCTCTCTATTTCATATATTTGCCCATACTAGGGAGAGCGGCTTTTACAANNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNTGGTTCCGTATTTACGGACCGACTCGGCAATTTCTTTAATTTGTAAGTATTCTACCGGAAGCGTGGACACGCCCACCCTCGGCTCCTT
CAAAGACTGGAAATGCCTGTTGTATTTTCCTTTGTTCCTCTCTGGGAATGAATGAGTCTGCGCACTGCCTCTCTGCGCACTGCCTCTCTGCGCA
CTGCCTCTCTGCGCATCTCTCTGCGCATTGCCTCTCTGCGCATTGCTGACGCACTACGCAGGGCGGGGGCTCCGCATAGGGCGGACCTTGAAGC
CGACTGCCCTGAGGCCAATCAGCAAACTGGCCTTCGCCAGCCGCTTTTGGCTTCTTTAACTGATTAGCTAGCACTTTACCTGGCTGGTACCCTT
TTTTCTCATAATGAGCTGCTTTTTCCTCCCAGTCTGTTTCCTCAGAGGAGAATTCTTCATCTGCTTCAGAGCTACCAAGAGCTGGCTCCCCGAG
CCCATCTAGCGATGAGCACAGGCTCCTTTTCCTAGAGACCTCCGCTAATTGATCTTTCTTTTTTTCCCTTTTTCTTCTAATCTCT
CTCCAGGTATTCCTACCTAACCTTAACTTTTTCTCGGGTTTAAGACCCTTGGAAAGGCCTGTATACTTATTTTGTGTACCATATTTCCTTTTTG
TTCCTACTCTCTCTCCCCACTTTACTTCTGATAGCTTGTCCTGAATTTCCTCTAGAATTTTTAGCCCTATCTTAATCACTTGATAACATGTGAA
AAGGAACAAAAGGGCTCCTAACACCAGAAAAAATTCAAGGCCAAACATATTTCACTTTACTTCTGATAGACTGTCTTGAATTTCCTTAGAAAGT
TTAAGATCAGACTTACCTCGTAAAGCTGTACTCACTGGTACTCTCGTTCCCCAGCTGAAAAGTTCTGAATTCATACAGTTGAATCCTTCTTAAC
AGTCTGCTTTACGGGAACCTTTATTACCGCGACCCGCAGTTCTGGTTCTGGAATGAGGGATCTTCCTTGCGCCAGTCCCGAGTTTTTTCTCGTC
CCGGGTTTCGGCACCAATTGTTATTAAACGCGTTCTCACGACCGGCCAGGAAGAACACCACAGACCAGAATCTTCTGCGGCAAAACTTTATTGC
TTACATCTTCAGGAGCAAGAGTGTAAGAAGCAAGAGAGAGAGAAAACGAAACCCCGTCCCTTTTTTAGGAGAGTTATATTTCGCCTAGGACGTG
TCACTCCCTGATTGGCTGCAGCCCATCGGCCGAGTTGACGTCACGGGGAAGGCAGAGCACATGGAGTGGAGAACCACCCTCGGCATATGCGCAG
ATTATTTGTTTACCACTTAGAACACAGCTGTCAGCGCCATCTTGTAACGGCGAATGTGGGCGCGGCTCCCAACAAGCTTATATGGTATTCTCTC
TCTCTCTTTCTTCCCCAAGGGAGTGTGAGGCTTCTCTTCCTATCACCAGCCTTTCACTTAAGCCAGTACCTCAGCTGGGTTTGTGTGTCCTCAC
CCACCCCCACCCCCTTTTTTTTTCCAAGACAGGGCTTCTGTGTAGCCCTGGCTGTTCTGGAATTCCCTCTGTAGCCCAGGGTGTCCTTGAAC
ACGGAGATCTCCCTGCCTCTGCCTTCTGAGTGCTGGAATTAAAGGTGTGTGCCACCACTACTGGGCTTTTTTTTTTTTTTTTTTTTGAGACA
GGGTTTCCTTTATGTACCCCTGGATGTCCTGGAACTTGCTTTGTAGATCAGGCTGGCCTCCAACTCAGAGATCTTGGTAAACTCCACAGAGGGA
GTAGCTACAAATGGGGTGTGAAGAAGAGGACCAAGGATCAACTCAAGAGGATCTAAGGGTTTGAGACTGAGAACTGGGCAAGGTCAACAGAAGA
AATAAGGAAGCTCAGGGAGAAAGCAGACCTCAGGACCTGAGGACTGTGATATTATCAAGTAGACCCGAGAGAGAGAGGCTGTCTGTGGGAGTCA
ACTTAGGAACTATAAAGCTACCAAGAGGGAAATCCAGAGAAGACATGCTGTTGATAAGCTGGATGGGTAACCCAGCTCGTTGGATGTTGCCTCA
GAAGTATGAGGACCCGAATCCCCAGAGCCCACGTAGAAGCTGGACGTGGCGGAACACGGAATGCCAGAGCCTCCTCTGCTTCCTGTCTGGCCAT
CCCCTTTCCAGATATCTCACATATGGAGAAGGGCACAGTGACCTAAAGACAGCTTGGGAGATCAGGAAGGTAGTCAGCGTCTGGGCATAAGGGC
TGGCTTAACTTACTTAGCCATCCTTGCCCATAAAAAGAAGGGAGCACTAGAAACCATTCCCAGTGATGAAAAAGACGAAACAAGACAAACTCGC
AGAAGCACATAGCATAGGAAAGAGCTCAAAGTAAGTAGGTAGTTTTGGGGTTTGTTTTATTTGTTGTTAAGACAGAGGTTCACTCCAGTCAGTG
GTGGCGCACGCCTTTAATCCCAGCACTTGGGAGGCAGAGGCAGACAGATTTCTGAGTTCGAGGTCAGCCTGGTCTACAGAGTGAGTTCCAGGAC
AGCCAGGGCTACACAGAGAAACCCTATCTTGAAAAACAACAACAAAAAAAGACAGAGGTTCACTATGTAGCCTTGACTGACCTAGCATTCACTA
TGTAGACCAGGCTGATCTAGAATTAACAGAGATCCTCCTGCGTCTACCTGCCATATCCTGAGATTAAAGTCCTGATGCCTGGTTTCTAAAAACG
TATTTTTAAAGAAGTCAGGAGGGCACCAGGGACAGGAGAGCAAGTGACGCTCCTGCTACAGGGACTTCTGTAGGAAAAGATGTCCCTTGTAATA
ACCAAGCTCCTGGCAGGGACAGAGGAAGGGTAGTAGAAGACTCAGGGGTTTGGAGCAGGGAAACGGGAAAGGTGGTGCTTTCAAAATCTGACCC
TGGCTTAGCGCTATCACCATCTGGTTCAGTGAGGCTCTGGCGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT
CCCTCTCTTCCCTCCTTCGTTCCTGAGGAGAAACGCTGAGTCAGCGCAGGGCTTCTCTAGCTCCCAGAATTTTGGGGTGTTTTTCCAGAATCCA
GGGGGCTTGCCCCTCTGCCTTGCGCTGCCTGCTGCTTCTCTGGCCAGAAGCAGTTAGACCCAAACAGCAGCGGGATAATGACCTCCTGACAGCA
TACCCTTTGAGGAGAGTCAGCAAAGGCTGCTGTCACACCCAACCACTCTGTTCCAATCTAGATGGGTCAAAGTCCTCTGTCTCTTTTATAACTC
ACATCTCCATCCCCATTCCAACTAGCCTGCTATGGTCAGTATGTCTCCCAGCTAGCCTCCCCTTCTCCATTGTCAGCTCCCCGGGACTGTCCGC
TGTCCATTCTCTGGTACTCAATGGTTTTCAGATATCATTTAAACCTAGCTCACCTTGCTGTAGCTCCACGGTTATGGGAAGGGCCTTCCCACTT
TCCCAGCCTCAATCTATGCCACAGCCTTACACTGACTTCATCTGTCATCATGATCTAAAGTCATTTATGCCCATAGCTCTCTGCCTTGGCCATT
TGCCAGCTTTTCTTGTACTATCTTCTCTTCCTCAGATATTCCATTCCTCATCTCTCAAAAAATGACACGGAACTGGAAGGTTCCCCCCACCCCC
ATATTGTCCCTCCAAAATTTCCTAATGAGTTGGATGTGCCTCCATTGCAGAGTTTCCATAGTAATTGGTAGTTTGTCACCTCTCCCCTTATTGT
TCCTTGTATCTTAGGGTAACAGTTGAGGAATGTGACTTTCTCATTATTAGACTGAGAGTTTTTCCAAAATGAAGATCAGATCTTGTTTGTATCT
GTATTTACACAGCTTAGCATAGGACCTATCTACCTCATACTATCAACTAGTCTCACATTCCTTGGGGAGTAATGGTGGAATGAGTAAATAATCT
TATCACAACAGGGGTGTCTTGTGGAAGGAAGACAACAGAGGGTTTGGCCTGTAATCTCAGTACTTTGGGTGGTTGAGGCAGGATGAGAAAGATA
ATGGAAACACACAAATAGACCCCCTCCCACCCCGCCCTCCCACCCCCCAACCCCAGCCACACGGCAGGCTCCTAAATCTCAGCTACTCATTCT
GCTATTCAAGGCTTGGGTCTTTCCCACCGGCCTTTCCTTTTATTCAGACAATTTTCAACTTTTGCTGAGCAGCTGCTGTAGCAGCAAAAGGCAG
CAGGACATTTCTGGTTGCTGGGATCAACAGCATGAACGTTTTCCATGGATCACCAAGCAGGTTCTATTTTGAGAGTGTCCAACTCTTAACAGGG
CATTAGATCTCTAGGCAAGGCATTATGGCAAGGGGAAAACTGCCAGAAAACTGTAGTCAGGAAAGCAGTGAAGCCAAGACTAGGAGACCACTAG
GAGTGCATGCCAGTAGTAAATCCAGCACTTAGGAGATTCAGGGCAAATGATCCAGAGTTCAAGTTTGGCCTCAGCTATATAATGAGTTCAAGCC
CAACCTGGGCTTCATGAAACCCTATCTCAAAGTTACAAAGTAAAAGTTACAAAGTAGCCGGGTGTGGTGGCGCACGCCTTTAATCCCAGCACTC
AGGAGGCAGAGGCAGGCGGATTTCTGAGTTCGAGGCCAGCCTGGTCTACAAAGTGAGTTCCAGGACAGCCAGAGCCATACAGAGAAACCCTGTC
TCGAAAAAACAAACAAAAAACAAACTTACAAAGCTAGTAAAAACAAATATATTTTAAAAACTGTTAGGAGGGATATCTGGGTCCTGAACCATGA
AAATCCCAGAGTGGAACAAAAGTATAGCCAAGGCCTTGAGATTCCCTGGCTTGAAACCAGATGGAAGTTGAACATCAGTCACATGACCCAACAT
AGCTTTCAGAAGCAAAAGGAGCAATGTATTTAAGTGTACCACAAAGGTATCTCACATTGCAATGAGGCAGAATTCACAGACCTGAACTTCATTA
AGGTCTTCTCTCTGCCTGTTAGCACTCTCCTGCCCTCTCCCCTCAACCTCTCCCAGCTTCCCCTGGCCTTGACAAAATGCTGCTCCTTGACGTG
ACATAGTACAGATCTATTAGCAAGAAGAACAACCACGTTACTTTCTTCTCAATTCTAAAGCCTCTAGAAATTCCATCTGAGTGGTTCAGTGTAG

GCCACTTGTGACAACTGTCAAAGAGGAACCACAGCACATTTGTGGCTGTGCATATGGTCCCTCCAGAACCTTGTGAGTCTGGGGGAAAGTCCTA
GGAAAGCAGGAGTTGTTCAGGCATCATCACAAGTGTTTAATTCTGGAAGACAACAGTTAGACCAGACTTTAATAAAACCTGCCTGTAGCAGCCA
GTGTCCTGAGTCCATTCATTCCAAAGGAGCCCAAGCCTTAAGCAGCAGATAGGAGATGGGGGTGAGGAGAGGGGAAAGAGGAGAGAAGAAAGAA
GAGAGGGGGGGGAAAAGATTTTTCTAGGCTTAAAGATATTTTGGAGGGATGGTGCTGGTGCATGCCTTCAGTCCCAACACCGAGAAGGCAGAAG
GCAGAGGCAGAGGCAGAGGCAGAGGCAGAGGCAGAGGCAGAGGCAGAGGCAGAGGCAGAGGCAGAGGCAGAGGCAGAGGCAGAGGCAGAGGCAG
AGGCAGAGGCAGAGGCAGAGGCGCAGAGGCAGAGGCTCAGAGGCAGAGGCAGGCAAATCTCTGAGTCTGAGGATAGCCGGGTCCATAGACTAAC
TCAAAACAAATAAACAAACAAACGAATCTCCAAAAGAACCCAACCCCCCCAAGGGAATAAAAAGAAAGAAGAGGAGGAGAAAAGAAGGAAAAAGA
GAGACAGACAGAGAGAGAGACACACACAGAGACAGAGAGACAGAGAGATCCTGTTTAAGCAGGAGCTGGAGAGCTAGCTCAGTAGTTT
AGAGCATGGCTACTCTTCAAGAGAACCCAGGCTCAATTCCACCACAACTGTTTGTAATTCCAGTTCCAGGGGATCTGGCACCCCTCACACAGAT
ATGCAGGCAGGCAAAACACCAATGCATGCAAAACATAAGGAAATTTTTAAAAAGTATTTTGGAGACACTGCAGACTTAAGCACCATACAGGTAT
CAGCATATTGAAGATTCTAAACAGGACACCAAGAAAAGCTCTGTTTAACTTTAAATCATAATGATGTATGTATTTGTGTGTGGAGTGCTCCTTT
TTTGCGTAACATCTACAAATCATCCGCCTTTTACCAGTCATGCTCTGGAGACAGGCATACATCATCATCTAGTTACTTTATAAAGGCTGAGGTG
ATCCGTCAGTGAATAGTCTTGAATTAAAACAGTATTTTCCATACCTGATATATTTGCTTTTGACCTTCCTGGAGTATGTCTTATATTCCCTCTC
TGTACTATTCTTGGATTTTTTTAAAAAATAAAAGCAGTCTCATTATGTAACCCTGGTTAACCTGAAACTCACTATGCTAGGCTGGCCTCAAACT
CACAAAGATCCCTTTGTTTCTGCCTGTGGAGTAGTGAGTTAATTAAAGGTATGGGCTACCACACCCAGCTGAATATTTTTATTTAAAATTAATC
ACCCAACATCTTAAAAAAAAACCCTTGAACTTAAACAGTTATTACTGTGGGTTTTATGTGGTAGTTAAGTGTTTTCCGTCATACACATTGAAAT
AGATATAAAGCAGTAAAAAATGTAAAAGTCTGTCTGTGTGGGGCCAAAAGTCCTCTCAAGTGCTTATGACCATGTGTGGGATCATTGGTTGGAG
AAGAAAGAGTGGCCATGTGGACATCACTAGCCAAACATAGATAGAGGCGTTTAGTCTATGGTGGGATGTTGGGTGGCCATGATTGGGCCTAGGA
TACCACCTTTGATTCATCATCCTGGGGCCTGCATTCTGTTTCCATGACTACTAGCTGGTCTTCCTGGGAGGGACCTGGAAAGCAAATGACGATG
ATCCCAAGTCACCAGGGGCTGGAAGCTAAAGCAGAGGCACTATTTTTCTTGAAGGCTGAATTATTTCAGCCTAACTGCAGTAAATGGGTGGGAG
GCAGATGCTTTGCTTGGTGGCCTGGGATTGCTTTTGACATGGGAAAGCGGCTATTGAGGAGACACTAATGCAGGCAAAACTGGCTCTGGCATAC
AGCTGTGGAGAAAGAGTGCTGGAATCAGGCAGACCTAAACATCAAATGATACATATTATCTACAGGCCCTTAAACAAAGTCTTTTTGTTTGTTT
GGGATTGTCTATTAAACACAATTATCGCTGTTGTCCCGTTGTCCAGATGAAGAAACTGGGACTCAGAGTGGTTAAACAACTTGTTCAAGGTCAT
GGAAGAATAGGAAAATTCTGCTTAGGAAAGCAGAATTGAAAAATAGGCCAGTTGACTTCCAAGTGTGGACTCTTAGCCACTGCATTGTTGTGTT
TGCCTTTGTTGATTGGACTCTTCTGTCAGAGGACCTGTTGATTCCTGGGGGCTAAGTGCTGAACAAGATGGAGAGGTCCTAACCCTCACTGACC
TCGAATTATATAAAGGAGACAGAAAAGAAGTCACTAGCTCCCATATGGGTAACTTAACAACTGTGATAACTGTTATAAAGGAGAGAGGCACATG
GGTACAGCATGCGGAAAGGGGCGTGCAGCACTTCAAGCTTGGTTTTTCGGGACAGTTTCTCTAAGTAGCCCTGGTTGTCCTGGAACTCACTCTG
TAGATCAGGCTGGCCTCGAACTCAGAAATCCGCCTGCCTCTGCCTCTCAACTGTTGGGATTAAAGGCGTATGCCACCACTGCCCAGCTGGCTTG
AGTTTTGAAATATTCACAAGAATTAACCCTAAGTGTTTATCACTCAATGTTTATGAACATTTTCCGAATTTATTATATGGGGGATTGAGCCAG
ACTGGAGATGAATTCAGCCTGGGATGTTCTTGCAAATCCAATTGCTAATGTCATTAATCCCTCAAGACAGTTTGATAGTGGTCGATGGTCCACA
CCCAGGACTGTGAGGAGTCAGGGCAGACCTTATAGTATGGTGTTCCCTAAATAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTGGAATATTAGCCCTCTCAC
ATCAAACTAATTCCTGTCTCACAGTAGGCGCTTAATAAATGTTTATAAAAAGAACAAATGCAGTAGGGTACTTGTGACACAGGGCTACATGACT
GTAAACTGGAGCTAAACCTGACTGAAAAATTAAAATAATTTTTAAAAATGGGTGTGAAGTGCTGGGCGGTGGTGGCGCACGCCTTCAATCCCAG
CACGTGGGAGGCAGAGGCAGGAGGATTTCTGAGTTCGAGGCCAGCCTGGTCTACTGAGTGAGTTCCAGGACAGTCAGGGCTACACAGAGAAACC
CTGTCTCGAACACCCCCCCCCCTACAAAAAAAAAGAATAAATAATAAATAAATGGATGTGAAGTATTCCAGAAGTCTGGACAAAGGCTGTGAGG
AGACTCCAGCTAAATGCCTTACGGCTGCTGGTGAACTAAGATCGGGGCAGCCAAGGTACGTGCGGATCAAACTTGTCTGGCTCTAGAGATGCAG
AAGCTGGAGACACGGTCCCTGGCCAGCTTAGCTGGGTCCCGCCGCGGCCTTTAAAGGCCTACCACGTGGCCGCCCGGGTGTCCAAGGTCCAGAG
GCGGTGTCCACGCTGCGCCTGCGTGCTGCTAGAGCCGGTGTCCCGCCTCTGAGAACGCCAGTCCCGTAGCAAGGCAGAAAGCAGAGAGTGGGCG
GAGTTAAGTCCGTATGCTAATAAAGGGGCGGAACTTGCGAGGCAAAACCGGCTCTGTCTCCCGGACCTCTAAGAGACCCGCCGCAACCCTCAGC
CTCTTTCCACGAGCGCTGACGTCGACGACGACGTCCCATTTAAAAGCGGCCGCGCAGGCGCAGTGAGGGGAAATGCGAACTTAGGCTGTTACAC
AACTGCTGGGGTCTGTTCTCGCTGTCCGCCCGCCCGGCAGTCTGTCAGTCGCGTCGCTACCGCCGCTGCCTCCTCCACTGTCCCGGGAGTCTCG
GGCCGGTGGCTGCTGTCGCCGTCTGTTCGTGCTTCTCAGGAGCTTCGTCCGCCCGTTCAGGCCGTCCCTGCCGTCCGCCTCTCTTCCCCCGCGC
TGCCTCTGAGCCCGCAGCGTTCGCACGCCGGCCGACATGAGCGGGGACCATCTCCACAACGATTCCCAGGTGCGACCAGCCGGCCCCCGACTCG
TCCCCAGCTGCTCGGGCCCGGGCCGGCTCCGGCCCCGGCCAGGGCCCCGGTCCCAGCCCCAGCCGGCCGCCGGGTTGACAGGCCCGAGTCTG
CGATGAGGGGCGGCCGGTTGGAGTCGCTTGGATGGCCGGGTCCCGGGCGGAGCCGTCAAGTTGGAGTTTGGTGGGGGGATGGCAGCCCCGGGTA
GGCCATTCGCGGGCCTCTGGGTTCCGGGGCGCCGGGTGGGCCCGAGCCCCGGCCGCGCGCTCTCGTCCGCCGCCCCGGGGCTTCATG
TGCCGGTTGTTTCATCTTCCCTCTTTTCTTTCCTCAGATCGAAGCGGATTTCCGATTGAATGGTGAGTGTGCCCCCCGCCCCGCCCCAAGTGTC
CCCACACGCCGCTGCCTGCCTCCCCCGCGCCGGGCCGGAGCCGGGCAGAGGACAGACATGGCGTCCCAGAGACTAAGTCCCGGCTCCTCGCTCA
CCGGCCCCATTGTTCCCATCGGGCCGCCTCTGGACCCCCTTTCCCGGGGTCTCAGCACCCCCAGATCACGGCCTTCTCCAGAGGGGGCACCGGA
GACCCCGCGTCGACCGTCGCTGGGTCTCGGGCGGCCTTTCTCCGCCGGGATTCTTCCCGGGAAAGTCGCCTTGTCGACGGTCGGGACTTAGTCT
CTGCGCCATTTTCTTTTTCTCTCCTCCTCCTTTCTGTGCCTGTGTCTTTCTCTCCCTCCCTCAGCTCCTTCCTTGAGCTGTCCAGAAAGAGCT
TTCTGCAGAGCAGAGCCATATAAATCACAGACCTCACCAAAGAAGGAAGGCTTAGGGACGGAATTATCTTTTATTTTTTCTTAATAGAACTTTA
TTTTGGAAGTTACTTGCTTTCTGCTTCATGTTTGCTTGCTTTCTTCTTCTTTTTTAATTTTTGTGATTCCAGAACGAAAGATTCCCTTAGGCAG
CTAAGGGTTTTATGGGTTTTTTTTGTTTCTTTTGTTTTTTGTTTTTAGTCCTTTTATTTTTTAAATGGTGAGATGTTTATAATTAGCAGTTACAG
TTCTTGAAACTAAAGCCATCTTTTTGTGGAGTTCTTTGTATTTTGGGATTGTTTTCCCAAGTTGTGCTGTTTGCAAAGATAACTCCCTTTAAAAA
AGTTTTCAGGTTGTCTGTGTGTCATCTAGTGTGAGTGTTGGACTTGAGCATATATTCTTTAAAAAAAATTAAAAGTATTAGTGACCAGAACTTC
CTATTGTGGCAAGGTAGAGTTTTTTGTTTTTTGGGTTATTTTTGAGACACAGTTTATTGTGCTTGTTCCGAAAGGTTGCTGAATTGCTCATTTA
GACATGGTGTGCTGGCCTTTTCTTTGGGGTCATAGGGAGTTTTAAAAAAGATTTTATTTATTGAAGTAGAGTGGCCAGCCCTGACTCCTGTCTT
CTTCCTCATTCTTCTCAGGGGCTGCTATTTTTTTCAGGAATTAAGAGTTAACTGGCTTTCCTCACATCCTTAGGCTCTTGAGCCCTTTCCAGTC
ATGTTTTCAAAATATTTCCACTAAAGTTACCCAGGGAAGAATGTTGGTGGGTGTCTCCCACCACCCCAGTAAGAAGCTCACATTTAATGGATTT
TCCAGCAATTCCATTGTAGTATGCTGGAAATTCCCACAGATTCTTATGGGTCCGATTGTGTTCAGTTAGTTTGGGTTCTGGGGAACTGAGTGGG
AGAAGCCATTGAGTAGGTTTTCTGGTGCAGCAGTCCATGGTACTGGCCTGCCCAACTGAAAGCCTTATGTTTATATTTCCAAGTTGGTCATCCA
AAGAGAGATGACACTGAGTTAGAGACTCTGTCTAGGTAAAGCTTTTCTTGAGCACCTAATATATGCCAGGTACTGTGCTAGAATTGAACCTGTC
ACCAACCACATCTGTCTTTGTTCAACTCAGCCTATTGGGGGAGTCACATCAGTTAATTACAAGGTAGGCGTTGGAGTGTATGTGTACCCAAAAT
GCTTTGGGAGCATAAAGGGCTTAATTTTATCTGGGGGTGGGGAAATTTCTTGGAGGTGACTGAGCAGGGTGTTGTATAAGACTAGGTACTGAGA
ATTGTCAGGGGTTGGATTATTTCTTGGGAGTCCATCCTATCAGGCTTTTAAACGAGGGAGATGAGACTGTCAAGCATATAGATAAGCTTCTTTG
GAAAGGGGGTAAAGAAAGGATGTGGTAGTTGTGGATGTAAAATGGTTTTGAGCTCTCTGAAGGAAGGTAGGAATTTAATATAGAAAATTTATTT
GCTTTTTAGTTGGGCCTAGTATGTAATATATTTAGCAATGAAACAAAATTGAGTCCTTTTTCCTCTTAAGTTTAACTTCCATTGTTCCCATCTA
AATACAAAAGAGCTATTGAATCTATGCATGATTATGGGCTGGGTATGTTATCTTTGCATTTTTATAGAGTGAATTGAACTGCCTATGTTAACTT
TTAGGATGTATTTCCATTTTCCAACAATGATATTTAGTATTTATTGGGCACCTAACTGTTCAGGCTTGAATCTCATCTTACTCTTTGGAAAGGA

CCCTTAGGAGTTAATTACAGTTATCTCCATTTGAGATGAAACTGAGTGTACTCAGTGAAGCCATGAACCTAGCCTCTGTGCAAACCGGATGATG
CTGGTATGAAGAAATGAAGTTTCCTGTTTTGTATGGGGCAATTAAGAGGGAAAGGGAAAAATTGAATAGCATGCCGGTTACTTTTTACCAAAATC
TTGAAGAAAAAAAGCAGTTTTGTGTACCTACTACCTTAAGGTTCTAATGTTGTAGTGATTGTCTTTGTGGTTATTGTCTGGATGTTAGTGTCAG
TAACTATTTGCTCTATCAAGCGTACACTGTTAGCTAGTGATTGATAAATATAAAAGACAATTTAAAAAATTAAAACTAGTTTTTAATACCCAGG
CTTCTTAATTGATCTTTATAGTGAGAGGATATTTACTTAAACATGGTTTTAGGTGAGTCTGAACAATCACATTCATGAAGTAAAACCACATATC
CCTTGGTTTGCTTCCTCAAATCTTCTAAGATAAAAAAGATTTTCTCTCCTAACTGGAGCGGTTTTGTTTTGTTTTGTTTTAATAGTACTTAACA
TTTACAGCCTTTTGTGGGAAATTTAGAACATTCTGGGTCATACTCAACTGCTGTGAAATGTTATTTGTGTGGTAAATCTATATTTAAGATATAA
GCAATGAGCTAGTCACTTCAGGAGCACAGCCCATACTTTGTATTTCCCTTTCACCTGAGTGAAAGATTCCCTTTGTCAGTAGCACTAATCATAG
TGAGCTTGAATTATTATTATAGTAGTGCACAGGATGCCTAGCTGCACAGCTGTTAACATTAGTTGAAGGTGCTGGTAATCCTTTTCTGTTTCAA
GAACTCTAAGTTCCTGTCTGTTTTACTGGAATTATGGAGCTACACAACTTCATTATATTGTAATTTGACAATGTGTAGATTATGAGTAGGTCTA
ATGGATTTAATTTGAATGAAGGGAATTGTTTTGATTGTAATGGTTGTACTTCTGTGCTTGCTGTGCATGAGTTATGATAGGCATTGAGGAGGCT
CGTGAGGCTTTAAGCCTGAAAACTGGTGATCTCTCCAAATGAAATCTGGAAATCTTTAGATTTAGTCTGGACGACTAATAGAAGTATTAGATTC
CAGTGGAGTCTTTTTACCCTTTAGAGCCAGACTCCTTGAGGGACATTTTTGAAATTAGTAAACTGCTGATATCTTAGAGCATATCAGATCTCAC
AAATTTCAGCCTGTCTATTTCTAGTAAAACAAGAAAATCTAGGGTTTCCTAAAGAAATCAGAAAAAAAAAAAAAAAAAACCCTCATGGTTTAAAA
GACAAATGGGATACTATTTCTAAGCCTTGAATCTATTTTTCTTTGGTAAGCAGATAGTGTGGGACCTGGAGTTGGCTCCCAAATCTCATGTCGA
TCAATAGCACAGGGGCAGGGAAGTAGATTCTTTTTCCTGTCAGCATAAAAATGATGGATTTTAGAGTTTGAAAGATACTGATTTATTCTGGGTA
TAGTGAAGTGTGATAGCTGTTTGTATGAGTGACAGGAATCTTTATAGTTAACCTGTTTTAAGGTTATACCAAAGTTAGAATTTATAAGATTTTT
TTTTTTGTTTTCAGTGTGCGTGGCATGGGAAAGTGAAAAAAGTCTGCTTTTTAAACTTGTAAATATGTTAGAAAATTGTATATTATAGCAGCAG
TTGTCTTATGTTGATTGTGACATGGAAAATAATTTGTGTCATTTTAGAAGACCATATTGGGGCATCAGTGTATAACATATACTATAGATCTTCA
ATAACTTTTATCTAATGATGCTGAGTAAAATTGGCTTTCTTCAAAGCCAAACCCAGTCATTTTCCCAGAAGTGTGTTGTGATTTTTCTCCTATG
AAACTATGATGGACTCTAATTTAGAAGTTCACTTTGAAATGAATTCCAAGTGTAATTACTTTGAATATAGGTATAGTTTACCTTGAGACTACAA
AATGCTGGCAATATTTGGTGTTAAACCCAGAAAGTTTATATTTATTTGTTTTAAAAGAAAGAAAAGGAAGGAAGGAAGGAAGGAGGGAAGAAGG
AGGGAAGAAAGAAAGAAGAAAAAAACGGCTTAAAGGAATGGCATTTAGAAGTGGGAGTCCTTGAATGAAATTCTTTCCTGTGGTTTTAAATTAC
ATGATTATGCCTTGATTACTTTTAATCTACTAACTTGACAAATCAAAGTCATTTGGGCAAACAATTGAGAATTCACCTTCTTAAGGTGTAGAGT
TTAGGATAGAAGTTCCAGACTTAGTCAATGGAGTACTGTGTTTAAGGGAAGATTTCAGATTCTATTTACCTTAAGTAATAACCAGGTGTGTTGT
TTCTCTTTTCATTCTTTGTAAGTCTGAAGTATGAGAAGCACCATTCTATTCTGTGGCTTCAGCTCTAGTTGAAATAGGAATTCTAAAACTGAAT
ACATTAGTTTGGAAGAATTAGCTTTTTTTTCAAGCACCTTCTCTTCCTACCTCCTCTTGACTGTCTAGGTGCTGGCAGTGTGCTGGGCTGATAAG
TGTGGGCCTGGGAACTTTAGAAGGGAATGAAGAAAGAAGGGTGGAGGGAAGCACTGTGGCCTAGGCTTGATTAGGAAAGAAAACGTTTAAAGCA
GAACCCTATTTAGATATTATAGTATTTTGTTACTGTTAGAGAAAGCATCTTAGAGTTGTTTAACAAGTTGGCGTTGTTTAACATGGCATCTGCT
CAGTATGTTCTCAGACAGTAGTGTTACTGTTATTTGGGGTAGTAATTCTAGATTATAATAGCATTGACTTAGATTGCCCACATCAATGTGAGTT
AACTGTTACATATGTCTCAATTTTGGTAAGGAGGCAACTTTAGTTTTTATTTCTTTTTAGTAGGTACTCATTTTTAATTTTTTGCCCTGTTTTT
AGATACATCCACTTTTCTACTATTCTCACCTATATACCATCCCTGACACTTTCTGAATTCTTATATGCTTTTCTACCAGAATATTTTATTTTAT
TTTATTTTATTTTTTTGGTTTTTCAAGACAGGGTTTCTCTGTATAGCCCTGGCTGTCCTGGAACTCACTTTGTAGACCAGGCTGGCCTGGAACT
CAGAAATCCGCCTGCCTCTCACCTCCCGAGTGCTAGGATTAAAGGCGTGCGCCACCATGCCTGGCCCTTCTACCAGAATATTAATCCATATTTTA
TTTCATTTTTGTTTTGTGCCACCCTGTCCTCCCACTTTTAATTAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTCCTTTCCCTCTCCCTCCCTCCCCCTCCCCATATCCCTGGCTGCCCTGGATTTC
ATTATGTAGAATAAAGGTTTGGCTGATCTCAAACCTTAAACTCACAGAGAACTACTTGCCTCAACCTCCTGAGTGCTGAGATTAAAAGCATGGA
CCACCACTTTCTTGAGGCTTCCTATTTTTTCTAAGAGCCAAGAACTAGCCAACCCTTGTGGATTTCTGAGTTCGAGGCCAGCCTGGTCTACAAA
GTGAGTTCCAGGACAGCCAGGGCTACACAGAGAAACCCTGTAAACCTCCCCCTCAAGAAAAAAAAACCGCATGTTTTTTCAAAGACCCCAAAAC
ATTTTTAAGTTGCAAGACTGAAGACACCTGAGAATTATTTAATCCTTATTAATTCTGTATCTTTCTTAAAGTGGCCAACTCAGCCGTCTTGAAA
TAGGGAAATGAGTATCCACGTAAGCTCAGGCCTGTGTTCCTAGCTTCTTAGAAAGCCGAGGCAAGAGGATGATCAAATGAGTTCCATGTCAACC
TCGGCAATTTAGTGAGACCTTGTCCTAAAAATAAAAAGAGGGAGGCAGTGGTGCTTTCAGACAAGACTGCAGCTACCAAAGCCCAAAGCCCAGA
ATTTAGGACAGAGCACTTGCACCATGAATCAAACCATCAGCTTTGCTGTCCTGCTGGCAGTTTTGGTGGTGTGCTGAGGGGGAAAAGGTGCCTG
CTTGGTGATACAGAGCCTTTGTCTAGTATGTGTTCAGTCTGACACTGCACTGTGGGGTTGCCCAAGCTCATATAACACTTCTAGTCCAGCCACA
CCAACAAGCACATCGTCTTCTCAGCCAGTTTTACCAACAAGGATAGGGCACCTCTACATGCAAAACTCACCTCTAGCCAGTCTCCTGTGGTCTT
TAATCAGAATATCTCTGTGCTCAGAGACAGCTACATTGCTCAGATACAAGGATTTAAGCCTTCTGGCTCAGAATACCACATGGTGGTAGCAGCT
GTTCCTTCTTTCATTCTCCCAGATTTCATTTCTCTGCTCATTCACTCCCTTTATCCCCTCATGCTTTGGAGGGAAACACCCTGTTCCTCATAAG
GTACTACTGTACTACGACATGCCATAAACATTCCACTCACCCTACCACTTTGTTCCCTGTACACCATTGGCTGATCTTGTAATCTTCCTTCCAG
AGTTGCTTCTATTAAAAATGGCAGTCAGTACAACTCAAGAGTAGAGCACACACCTACAATGTGCAATGCTATAGGTTTGATCTCTAGTACTACA
AAAACAACCCCTAAATTAAAGCTTATATTAATAGTTGTATGAGAGGATAGGTATTTGTGAGTTGTGAAAAAGATCATGCAGTTAGAAACTTCCA
CAGTGGCTCATAAGTCTTGTTAATGCTAAATACTGAATTGTCTTGAATTTGTTATTTTTAAACTACCACTTAAAGGAAATAAAAGTCACTTAGG
AATGCTTCGCTAGTATCCATTAGACTAAACCTAATGAGTCTTAGAATAAATCTTATACCATTGATCAAGAAGATCATTATAATAGGCAAAGACT
ATATAGAATTAAGGTAGGTACTGGTACTAATGTATTTCCATATCAAATTGTTGAATAAGATGAATTATCTGGTCATAATCTTCTGGTTAAGCTC
TATAATCCTGACATTTATTTGTACAAAGCCTAGTTTTATTTTGTATAATTTGGCTGCTTAAGGATATATCCTCCCCCAACCTCAAAGCTCCAAG
GTTGGACAGTATTTGTGCTTCCTTAAGGTTGTGATATCAAATAATTCCTAATGAGGAAGGGGTTCTCTAGAGCATAGGCAATTTGGAAGTTACT
TTTTCTGTTACCCAGGCCTTAAGAGCTCAGTTGATGGAAGTGAAGGAGGACAAGCCTGCAGAAACAGTCTTACTCTAATTGAGAAGGCTCGAGA
AGGTACATGTTCAGGTTAGATTAGTCTACCTCCTGGGAAAGGAGAAGATTGCAATGAAGGGATATCCTTGTGAAAATGAGTCATACTACAGAGA
CTTATGTAGGCAAGAATAAAGCATTCTGGGCTGGAGAGATGGCTCAGCGGTTAAGAGCGCTGACTGCTCTTCCAAAGGTCCCGAGTTCAAATCA
CAGCAACCCCATGGTGGCTCACAACCATCCGTAACAAGATCTGATGCCCTCTTCTGGTGTGTCTGAAGACAACTACAGTGTACTTACATATAAT
AAATAGATCTTTAAAAAAAAAAAGAATAAAGCATTCTAACTTTAAGTATTGTCCTTAAAAGATAAGTTAGTACAAATAGTATTTGTCTTGCTCC
TGAAGTAGACTAATGCTTCAGTTTAATATACTCTGCAAACTCAGGTTTTGACTTTTAAGGGACATTGTTCAGAAGCAGTCTACTTAGTGGTAGC
CCACCCCTGTAGATTATGCTATGTGGGAAAGATGCTTCAGCTTCATGGGTGGGTCAGACAGAATTCTAGGTATGGAGTTAGGTAAGGCAAAGG
ATTCTCAATTGTTATTATGCAGAGGAGGTCATATAGTAGAATGTTTTGGTCCCAAGTTTCTAGATTAGCAAAATCCAGTTCTGTATTGTCCTCT
ATTGTAGCTATAATATGATAATACCATATCAGGCTTTTAACAAGGTAGAAAATATACCCCTAATATAACTACCTTGATCAAGAGCCCTGAGGAG
GAAAGGACACAGGTATGGATTATCCCTTAGAACCATAGAGTAGGTTTTCTTGAGGTATCTTTAGATGATCAGCTGAGATGAGAGACCCTTCCTT
GGGGTCGTAGTTTGTCACAGTGATTTGGGGGGGGGGGGTTTCCTAAGGGAATTTTTGGCTTCTTACCAAATTTTTGGCATCAGTTTGTCTACA
ACCACAGGTCTCCTTAATTTCTTCTCTTGTCATTACTCATATTCTCTATTTTCCCAGTGTGAGCAATTTTCTTGAGTTCTCTCACCTTTTGTCA
CATGGTATCTAATCCCAACTGTGACATCCCATTGTGCCACCTAATGCATCCCTTTTTCCATCCAAGTAGATGGCACTGTTTTCAAGAGGGCTCC
TTGGACCATCAAGGCCATCCAGTATAATGGGAGTCCCCAGGGCCATGACACCGCCAGGCTCCACAGTTGTGCTCCCTAAGTACACAAAGGCATC
TTTGGTGGTAGCAGAGCTCAAGTGCAGCAGCTGTACCTGCTGCTTTTTATTGTGGTAAAAAATAGTTATACTGAATATTGTGTCATGTCGGAGC

ATGAGAGACTGGCTGTAAGAACTCCATCTGTGTCTGGGCACCTAGCTTTCACTGGCATGGAACTGCTCATAGTTCATGCTCAGAATTTGGCTAG
TGTAGCCTACCAGGCTGGCTCATGGCAGCTGGTAACTGGTACAGCAGATGCCCAGGAACAGCTACAATGTTGCAAGACACCAACATGAAAGGTA
GTGCTGCCTCCCTCCCCAACCCTACCTTCTGTAAATGGAATTCTGAGGGCTTTTCTTTGCCCTTTTTGCTCCCAATTAACAGCAGGGCATTTGT
ATGCCCACCATTGTAGTCCGTTTTAGCTTCTGAGTATAACACAGAGAACTAATAAAGTTATTAAACTGTAGGCACTATGCTGGCCATATAGTCA
TCTATTCTAACCCTCAATGGCTGCCTACTTCCCAGCCACGTGGTTCTTTACCTGCAATCTGAGTCTTCTTACCCTGGCTCGTGCTTTTCCATGT
GTGTCCTCTTGGCAACTCCCTGCTGATCTGCTTGCCACCAGCCAGTCGTCCTGTCCTTCTCCAGGTCTCTCTTCTTCCTCTTCTCTCATCTCTC
TCCCTCTCTTTTTGGGAACCCCTGACTCTGATCAGAAGCCCCACCTTATTCACTTCTGCTCAGCTATAGGCTGAATTAGATTTTATTAACCAAT
CTGAGGTGATAGAAAAGAGTTTTTACACATCTTTGAGACAGGAGATGCTCCAAATACCATGACAATGCCAACCTCCAGACTGCTGGCAGGTCCA
TCAGCATCTGAATACACTGTACAAAACTGTACAAAACCCCCTCCCCCAACAACCTTCGGTTTTGTTGAATTTAAAATACTCACATGTGACTGAT
TGCTTTCTTAGACAGTACAACTTTGAATGTAGATACAACCCAAGAGATTTAGGTTTATATTTTGCTTGAATAGATGTTTGGGGCTCTTGTAACT
TCTCCAGAAATCTGAAGACCAGTGTGTATAGTGTGTTAAAATAGAATGAATTTTCCACCTATATGTTTACATTACTTTATTTTAGATAATGTGC
TAATAGAACTTACCACTTAGAAGTTCAGATAGATCATGGTTTTACTTGACCACCTCCCACCCCCAGTGCCAAACAACAGAAAATTTAAAGTCCT
TTAGATAGAATAAGTTCTTATTTTATCTCAGTGTCCCTAAGAAGTAGTTAATGTCTATATTTGGCAAAGTAGGTTGGCTTAAATTTACACAATT
TCATGGATCAGTATTCTTTAAAATGATTAACTGTTTGCTTATAACTTCATTTGAAAGTCTAAATTTCGCTTGGGCGTGGTGGCGCACGCCTTTA
ATCCCAGCACTCAGGAGGCAGAGGCAGGCGGATTTCTGAGTTCGAGGCCAGCCTGGTCTACAGAGTGAGTTCCAGGACAGCCAGGGCTGCACAG
AGAAACCCTGTCTCGGAAAAAAAAAAAAGAAAGAAAAGAAAAAAGGAAGTCTTAAGTTTCTAGCATGTTACCTATATCAAGTTTGCAGTTACA
TTAAGTTGCAGTTAATAATGTAAACACTACATATACATAAATTATAGAGAATCTGGTACATTTACTTTTACGTAAGAGCAGATTAGAACTATTC
TTTCCTGTATGGCCGTCAGGGTTGTTTTCTCACGTGCATGCCTATGTTGAGTATGTGCTACAGCTTATAAATAATTGCGTTCACAATTAGCTAA
GACATATTAATCTACTGAGACAAAATGATATAGCCTTGGCTGCTGAGACCACTGACAATAGATATTTAAGATCTTAACAACTTGAGTAAATTAT
GTAGAGACCAGAAATAGAACCAGTTTCCTCTCAGTTTAGCTTTGAATATTATCAGGTTTTTGGATAATAGAGTAGGAAATGCTTAGAGGTGAAA
TGAATAGCAGAAATGTAATCAATTACTATTACTCTAGCAATGTCTAAAAGGCTCTGTAATTTCACCTGTCACTATTTTCCACTTTAGAAATTTA
GGCTCAGATGTTAATTAGCTCACAGTTGTGTAATTTTTAACTAAACTCTAAAGCAAGGAGTTTAATCCACTGTTTGATTGATGCCACAGATTGA
GTTAAATGTGAAACAGAATGAGGTGAAGGGGTGCCTGAGTGACACCCCCAGGACATCATGGGAGTAGTTAAATATCCATCAGACTGTGGTTCTG
TTTGTGATGGATCTTAAGTCGATTGATAATGGCTTTTTAATGTTTTATCAGCATTTATGTCTGTGTGTCCCTGAACTGGTGTTACAGACAGGTG
TGAGCTGCCGTGTGGGTGCTAGAAATTGAACTGGGGTGGGTGTGGGTTGGGGAGTGGTGGTGGCTGTGGTTCCCTGAAAGAGCAGCCAGCACTC
TGCTGAGTCATCTCTTCAGCTTCAGCCCTATCTCTCCTTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTGAGACAGGGTTTCTCTGT
GTAGCTCTGGCTGTCCCGGAACTCACTTTGTAGACCAGGCTGGCCTCGAACTCAGAAATCCGACTGCCTCTGCCTCCCAAGTGCTGGGATTAAA
GGCGTGCGCCACCACGCCCGGGGCTCTTCCTTTTTTTAAAGACAGGTTCTTGCTATGTAGCTCTGTCGTGGAACTCACTCCAGGCGAAATAAT
AGCATTGCCTGCCTTTGCGGTTTTAAAGGCTTGTACCACCACTCCTGGATTATTTGTTTATTTTATAGTACTGAGGATTGAATCTCCAGGGCT
TTACCCACATTTGCTATACAAGTACTCGGCTCCTGACCCACATCCCCAGCCCAGGATTTGCTTCAGAGTGAATTCTTTTTTTTTTTTTTGGCTT
TTCGAGACAGGGTTTTTCTTTATAGCCCTGGTTGTCCTGGAACTCACTCTGTAGACCAGGCTGGCCTGGAACTCAGAGATCCTCCTGACTCTGC
CTCCCGAGTGCTGGGATTAAAGGTGTGCGCCACCACACCCGGCTCAGAGTGAATTCTTTTTTCCTCTCCTTTGCAATTTCAGAATTCTTAAGAA
GAGATTTTAGTCAGGAACTCCTTGTGTCTTCTGACTTAGAAAGATTTATTAATTATGTTCTAGAATTTGAATTCTCAATGAGAACTATTGTAA
AATAACTGCTTTTGTATAGATTTACTTAAATTAGCCACTGTTAAGATGGACCTAACACTGAGAGTAAACTAACACTTTTATTAAAGTATGAATT
GAGACAGTTGGAAAGAGGGAGTGGAATTTTTTCACTGTTCTTAACTTCCAATGACAATAAGCTTTCAGGCTTGTTAGTTCCTGGGGGGGGAGATT
CATGGAGAGTCCTAGTACATGGGCACACTTGGATGTTGGGCTTTATCACCAGAGGCCAGTTTGTTATCTGTCCTAAACAAAAACAGAATTTTAA
AGCATTAGAAAGTACAAGTGCATAATATTAAGTATGTTGATTTTGTATAAACTCCAGCTTTGGGGATGTGGTTCTAAGACCAAGATGCAGGGTT
TCAGTAAGCTTTATAATAATGTCTTCTTTTTTTCTTTTGTCTTTCTTTCTTCCTTTTTTTTTTTTGGTTTCTTTTTCGAGACAGGGCTTCTCTGT
GTAGCCATGGCTGTCCTGGAACTCACTCTGTAGACCAGGCTGGCCTCGAACTCAGAAATCCACCTGCCTCTGCCTCCCGAGTGCTGGGATTAAA
GTCGTGCGCCACCACACTCGGCTATGTTTTCTTTTAAAAATTAAGTTAATTAGTCCATTCTGATAGATGGTTTATTGTTATGTTATTTTGTGG
TTCTGGAAAGCAAACCTAAGTCCTTGTACATGGGAGGCAAATCCTGTAGCACTGAGCTACATTCTAAGCCAGTGGTCCGCAGCCTTTCTAATGC
CCTGATCCTTTACTCAGGATGTGGTGACCCCGATCAAAACATTATTTTCATTGCTACTTTATAATTGTAATTTTGCTTTTTCAAATTTATAATT
TATTGTAAAATATCTGATATGTAACCCTTATAAAAGGATTGTTCAATCTCCGAAGGAGTCATGACCCACAGATTGAGAACCACTGCTAAAGCTC
TTGTTTTTTATGATTTTATGATGAATTTTTTTGGAGAAAAGTTCTTGCTATGTAGCCCCAGCTAGCCTGGAATACATTATGTAGATGAGTGAAGC
TGGCCTCCAACTCACCGAGATCTCCTTAAAGGAGGATTAAAGGCATGTGCCACCAAGCACAGTGTATTGTCTTTTTTTTGAGACAAGGCATTGTT
AAATATTATAGGCTGGCCTCCAGTGCCCAGTCAGTCTACTTGCCTCTGCCTCCTTAGATTACATTTAAGGGCTATCACAAGTAGTTCCAGTGTT
CATTTTGTGAACTGGTTGTATATTTGTATGTCTGAGAGGAATAGAGATTTTCTATGACAAAAGTTGTACTGTGTGTGTACCTTCTTGGGGAAGA
CAGCTTTGGATAGTATATATAACTCCTTCCTCCTACACTGTTTACACCTGTAAATACTATATTTGAAGGAGGAAAGTCATACTGTCATATAGCT
GTTATAATAAAATCTCAAAGTCTATCAAGAAAAGTTGGTGTAAAGAGTCTGGCTTCAAACATGGCTCAGAGCTCCCTTTGTACCAGAAAGTTCT
TTCTGCCTTTGTTTTTATGGAAGGAAGGAAAGGACTCTTTCTTATAGCTTGATTTGGTTACTTTAAAATCTTGGAGATTGTGAAACAGTTCTAT
AATTGTTAATGTTTGTTAATTCTTTAGTGTATCTTCTCCACGAGATGGAATTGTCTCCTAGGCAAATGCAGTACCATTGAGCCTGGGTCACTCC
CCCAGCCCGTTTCCTCTTAGAAAGTGTAAGTGTGTTTGGATTGTCTTTTGATTGCATTTAAAGAAAAATAGACTTGTCTATTTTGTTAGGTGGC
CACCTACTAAATAATGCAAACATGAATAATGCAAACAGCAGAAAAAAGAGACCCCCCCACCTCAAGGTAGAAGAGAACCAACTCCTGAAAGATA
TTCTCTCATTTCTAAAGACTTTCAAGCTTGTAGGGGTGATTCTCCTATCTATGCCACCAGTGTTGAGATTATAGGTGCCTGCCACCTCATCTGG
CATTTTATATGGGTTCTCTAGTTGTGGACTAGCATTATGACATGCTGAGCCATCTCCCTGGACCAGCCTGGAAATTCCTCAGACTTCTAAGTAC
AGGATTGTTAGAGAAGGCCAAAAAAAGTACAGGATTGTTAGAGAAGGCCAAAATTGTATTAGTTTGTCTTTGTCAGAATCTCTAAGTATAGGGG
AATAAAACCCCAAACATCTTTTATCCAATGTTGCCTTATCAGGCAAGGTACCTAGGGCATGGTTCCTGCTTTGAGTGTGTATATGTATGTATGT
ATATATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATATATATATATATATATATATATATATATATATATATCCAAAGCTTTTACCTTGTAT
GCAATGACTAAGTTTAATTCAGTTCTATATAAATTAATAATGAAGATAATTAAATAATGATTGCATTTCCTAGGCAGTTGTCAGTATGTTTGTA
ATTTGTTAGAAATTAGCCAGGAATTCTGTTGAAACTATTCTGTTGATTAGCTTACCAAAACAAAACAAAACAAAAACAAAAAACCCAGTTTTTC
TGAATCCCAGCTTTTGTTTCCTCTAACAAAGAGGAACATTTTTACTAAGGACACAGATATCAAGTTTATAATGAGCAGAGATGTAAAGCTCCTG
AGACCTTTCCCATGCTGCCTTTTGAGTGGTGCTGCTGAGACAGGGTTTCCCTTTAGCTGTAGAGCAAATCTGTTTTATCTGTGTGTGGTAGAGT
TTAATTATGATTGTTCATATTCTGTCTCATTCTTTTGAAGGAGTAGGTTCTTTAGCTTCTGAGCAGTTAAAGGGGCTACAGGTATTCTCTGTCT
CATTCATCTTTTTTTTTTTTTTTTTTGGCTTTTCCAGACAGGGTTTCTCTGTAGCCCTGGCTGTCCTTTGTAGACCAGGC
TGGGCCTTGAACTCAGAAATCTGCCTGCCTCTGCCTCCCGAGTGCTGGGATTAAAGGCGTGCGTCACCACGCCTGGTTTAAACTTTTTTTAAAA
AATATGTTCCCGATAAGAAATCAACTTCATTTNNNNNNNNNNNNNNNNNNNNCACTGCCAAAAGTACATTTTACTTAATTTTGATCAGTCATGA
GTGGATGAAATTTTCAGCAATGATAATAGTGGCTAGCTGCTGTTGCTCATTGTCCCTCCTCTCCTGCTCCTTGCTCTCTGACCCCCGACTACCC
TTCCCTCCCACACCCTCCAGCTCTCCCACCTCCAGCCCCCCAAAACAAGAACAGGGTTTCTCTGTAGCTCTGGCAACACTGGAGCTCCCTCTGT
AGATCGGTCTGGCCTAGAAGTAAGAGATCTTCCTGCCTCTGATTCCTGAGCTCTGAGATTAAAGGTATGCTTCACCACTGCACAGGTTGTTGCT
TATTTCTGGCTGTAGTTAGGCCATCTGCCAGAGTGCTTGATTCTTAATTTCCTCAGCTCCTAGTAAAAGTAGCCCAAACTGCTTTTTTTCACCTT
AGCTCAATCTCTAAAACCCACTTCATAAAAGAATAGAAGTAATTTACAAGCACAAGTAAATGTAGGAAAATAGCAGTAGCAAGACATTTATAGC
ATTATTAATACAATTATTCTTTGAAGGATGGTAATATAGAAATTCGGTTATAATTCTTCAGAATAGTCTTAATTTCCTCATTGTTTTTCTTAAT
CCTTTTTTTGTGTACTTAGTGTTAGTCTGCCTTTTGATTGGTTCCCTTTATCTGTCACTTGTTTTTCCTCTTAGTAAACTTGCTGTCCATTCTTC

CTTTTTCTAACTCTAGAGTCTAGAGGTAGATACCTTGAAGGTATGTTATGTCTTCAGGGTAAATTCCTAGGCACTGCTGGGTCAGAGGAGGGAT
TGAGCTAGTTATTTCATTAGACATTGTGGAATTCTCCTGCCTCAAGAATTATATTTTCCAACTAGGTATATCTTATTTAAAAAAATATAAAGCA
AAATGCATATTTAGTAAGGAATAGCTATTACCTTTGGTGAAATGTGTATATTTCCTTTTCATTAAAATGGCCACATGTTAAGAGTCTGCATGTT
GCTGGCTCTTGTTTTAATGTCCATTTGTCTTGAGTGTCTTGTGTAATGGCTATTTAAGTCCATATATTCATTTACATGATTGGATTATAAAGGA
CAGAGCCCTTGTCTGATCAGTCTTTAGTAAGGTGCTTTGAACTTGAGAAATATAATGTTTGTAAATTAAATAGCCCTTATAGTATAATCCTGCA
GCTGCTAATACAAGGATGACTTTTGTTGTGTGCATTAACCATTGAATCCTGTGTAATGCTAACTAGAAATTGCTCCTACAGTGAGAAAAAGATG
GAGGATCTTCATCATTTGGTAGTTTGTTTTCTGCTTTATTTTTAAATGTGTGTATATCTGTGCCCTTGGAATCCAGAGATGAAATTATAGGTAC
TTGTGAGTTCACCCAACATTAAGTGCTAGGAACTGAACTCAGGACCTGGAAATTTATTTACTTAAAAGCCCTTTTAATTTTAAGGAGGAATACT
TTGGATAATAATAACAAAAAGATGTTGATTTTTCTAGTGTTTTCTATTTATTCATTTACTTATGCGTTTTTCTGGAATAATTTTATTTAAATGA
CACCAAAAAATTTGTTGCACATTTCTGTCTTCAAAGACTTTAGCTAGCATTCTTCCTGTGGTTTCATCTAGAGTTTTCTTTTTTCTTTTTTATC
TTTCATATTTTATTTGCATTGATGTTTTGCCTGCATGTATGTATGTCTATGTGAGAGTGACAGATCTTGGAGTTACATTTATAGCTGCTATGTG
GGTGGTGGGATTTGAAACTGGGTCCTTCGGGAAGAGTCAGTATATTTAACTACTACTGAGCCATCTCTCCACCCACCATCCAGAGTTTTCAAAT
GTTAAGAATTGAAACAATTATTGTTTTGTATGTGAGATTGTGTATGGGTTCAAGCAGAATGTCTTAAGAGGCATAGGATATTTAGTGAATAAGA
TTTTATGGTTAGCCAGGTGTGGTGGCCCACGCCTTTAAACCCAGTCAGTGCTTGGGAGGCAGAGGCAGGTGGATTTCTGAGTTCCGAGGCCAGC
CTGGTCTACATAGTGAGTTCCAGGACAGCCAAGACTGTTACACAGAAATACCTGTTAGTGAGTTTCTTTAAAAACCCAGTTGTGTTATGTGGAT
TTTTATGGTGCTATAGTACACAGTGGTTGGCATGTTTCATTTCTTAGCTATCAAGTTTTTTACAGTTCTTTTTGCATTTGATAGATACTTCGAG
TGTCACAAATGTTTTTACAAATATTTTAACAATATCTACTTTTTGACAAATTCCAGGAGGTATACTTAATCTTTAAAGCCACTAATGTATTCTC
TATAAACAAGTATTTTCAGCATGCATGATAGAGTTCTGTGTGCTTTTACTGGGTTTTACCTTTACTTACTGCCTCTTCCTTTGTACTGTCTAG
GTCAGGGGTCCCACTACTGCCTTATATACTTTAGACAAATAAAGTCTTTGCTTTCTGTTTTACTAGGGCCTCTGGTTCTTCCAGCTACTAGGAC
CTCAAGAATATCCCTTACCTTCCCTCCTCCTCTATACTCTTTTTCACAATAAGTTCTTAGAACTGGGTTCAACTTCTATTTTCTTGAAAAATTT
CCCATTGTTCTTAATCTTAATCTTTTGCTATTACTGTCTTCTGGTTTCTGGTTTTTTTTTGTCTTTGTTTTTGTTTTTGTTTTTTGTTTTTTG
TTTTTCCTTTAAGTATGATTTTTGGTCTTTTACAAATTGAAGTAGCTGTCATCCTAGAGTAGAACATTCTGACCCAGGGTTAACTATTAAAATT
TATCTTTTGGCACCTACTGTGGTGGCAAAGGTCTGTTTTCCCAGTGTACTTAGGAGGTGGGGGCAGGGGGATCTTGAGTTCTATAGACAGCTTA
GCAAGCCCTTGTTTCAAAAACCCAAGGGCTGGGAATATTCAAAAGGAACCAGTTTCCAGTGTAGAACAGGACTTTGGATTTGACCCCCTAGCCC
CAATTCCAAACAAAATTGTTTTTTTTTTTTCCTCAATAGATTCTCTCTTGAATTACACTTATTTTCTTCTTTTACATAATAAGGAAAAATAAAGA
ATGGAAAGGAAAATGCTTAGAGCTCATGTTCATTATCTAAATGTAAAAAGTTCCAAGGATACACATGTGTAACTGCAGTTTGATTTCCTGTGTA
CCCATCATAACTTTAATAGCTAGCAATCTTTTGCTAGTGTTTTATATATCTTTATAATTCTTGATTCTAACTCTAATTTACTCAGAAATATTTT
TTAAGTACTTTTAAAGATTTCTTTTTTTCTTTTGAGACATGGGTTCTCTGTGTAGTCCTGGCTGTCCTTGAACTCAATCTGTAGACCCAGGCGGG
CCTCAAACTCTACCTGCTTCTGCCCTAAGTGCTGGGCCTAAAGGTGTGATCCACCACTGTTGGTAAAGGTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTGGTTTTGGTTTTGGTTTTTCGAGATAGGGTTTCTCTGTGTGGCCCTGGCTGTCCTGGAATTCACTTTGTAGACCAGGCTGGCCTCAAA
ACTCAAAAATCTGCCTGCCTCTGCCTCCCCAGTGCTGGGATTAAAGGCGTGTGCCACCACACCCAGCAGGGGTAAAGGTTTTAATCTATCAGTT
TACCTACTAGTAGTATACAGGGCATCTATACAGTTAAGTTAGTAGATTATTAAGTTTTTAAATGTTAAATGATTGTTTAACAACTTTCTTTGT
GGCAATGCTACTTGTATAGTGATTTAAATCTATTGTATCATTTTTCCTCAGATATCCAAGCCTGCCATGTAGAACTTAACTGTATTGATTTATA
GAGCTCAACAGACATTCATATCTCTTATTACACTTACATTGATTTGTATGTAGAGGTTGGTGGGCAGACAGGGTTATGGAACACATGTTCTGGT
CAGAAGACAATCCATGGAAGTCATTTTTCTGCTGTGTAGATTCCTGGGGATTGCACATAATTGTCATGTTTGGCATCAGGGACTTTTCCAGCCT
GAGCTGGAAAAGCCATAGAGATTTCAATTAAGAACTTTGTCTTCTTTGTTTTCTGCTTTGTTTTGTTTTTAATTTAAAATCTCTCACAGCATCT
GTAGCACAGTTTGAGGATATACTAGATATGTAATGACTTTGAGTTCATATTATTGGCCTAGATGTTTTGTCCATGGAATTATTTACCAGCAACC
CTAATTTTCTCTGAGATAGTTAATTTTTACATTTTTAGATAGCATTTGTTTTCAAAGGCTTGGGACCCGGTTTTAAATTCCATTTTGAAAATTT
ATGCATTTCAGGAAGATAATAATGTGAAATCTAATAGGAACTACTCTGAATTTGTATTTTAAAGTTTAGTGCTTTTTAGTGACTTTTGCATGTT
TGTATTTGACAAAAATAAATTTGTTTGTTTATTTAGACAGGGTCTCTCTGTAACCCTGGTTGTCCTGGAACTCTCTGTGTAGACCAGGCTGGCC
TTGAACTCAATCTGTCTGCCTTTGTCTCCTGAGTGCTGGGATTAAAGGCGTGTACTACCAGGTCTGGCTTCAAATTTTAAAGTTTGCTAATCTC
TAACTTTATTATAAAAGTCGTTCATTATGGAAAATAAGATGAAGCACACTTAAGAACTCAAGTTCACAAATTTCTAAATTTTAAAATTACTACA
TTCTTTTTAAAATGTATGTCTTCCAGTCTTTTTTGTATGTGGTCATGGATTTATTGAATTACATACAGTGGTGCTCATTTTCTCTCCTTTTCAG
ATAATTTCCTTGTCATGCCTTTGAACCAAAGCAGTAGATCTTAACGTTCAATATTCTGAAGCCCATTTACTGATTTCTAACTATAAACAAAACA
ACACATGCTTTATTTCAGGTTGTAGTCCTGGTGCATGCATGCATTGTCATTTTTATGCCATGAGGTAAAAGTCACCAGTTTTATCCTGATTGAC
TCAGCATGTTAAGACTTTAGACTGGAGACTTAGAAGTCAGAGGGTCCTGTACACTGCATGGGAGATTTGAGTTCAGTCTTCTAACACTATATGC
TTTACTTACTATTCTCATCTCTGTGGGATGGAAAGTTCTTAGAACCAGGGCCTTGATCTTGCAAGTATTAGTGTTTCTCTTTCCTTGGGATCTG
TCTAGAATAGACATGCAGTTATGCCAAATAGCACTTCAGTTGCTTCAGATCAGCAATACTTAATTTATATATAATCTTATTGCTGTGAAACATG
CTACTTCAAATTTAGTTGATATAGGTTGGTTATAAGTGTCAAATACATTACATTCGTTAGTCTGGTTGAATGTAAGAAAGAATTCATTTAAAAA
AAAAAGTTTTTCGGGCTGGCGAGATGGCTCAGTGGTTAAGAGCGCCGATTGCTCTTCCGAAGGTCCCGAGTTCAAATCCCAGCAACCATATGGT
GGCTCACAACCATCTGTAACGAAATCTGATGCCCTCTTCTGGAGTATCTGAGGACAGCTACAGTGTACTTACATATAATAAATAAATAAATCTT
TAAAAAAAAATAATTAAAAAAAAAAAAAAGTTTTTCATAAAAATCGCATGTCACCTAGAGTAACAGTCATCTGAAGGCTAAATTGGGCTGTGGCA
TATTCACTTCCAAGATAATTTCTTCACGTGGCTATTAGAAGGAAGTATCAGTTCCTCACCACATGTTTCTTGAGTGCTGCTAGTTTGGTAGCTG
ATTTCTCACTAGAACAAGGAGAGCAAATGGGAAGTTGCAGTGCCTTTGTGAGCTAATGTTGGGTGCTGTACTGCCATTTACTTGTGCAAGTGCA
AGAGACGGACGGTGCATGTGCATTTGCAGGTCAACATCAGATGTCTATCAGGCTTGCTCTGCCTTATTTTTAAAAGATGTATCTTATTACTTGT
CCATGTGTATGTATGAGTATAGATGGCCCTGGAGGCCAGGAGAGGGTGTTAGATCTCAAGGGGCTAGAATTACAGGAGGTTGTGAGTTGCCCCT
AACATGGATGCTATGAACTGACCCCTCTGTTATCTATCTCAGCAAGTACTCTTAACTACTGAAACTTTTCTCCAGCCTCTTTTCACCTTTTTTT
TTTTTTTTTTTTTTTTTTTTAGATAAAATATTTATTGAACTGGCGCTTCCAGAGATCTGTCTCTGTTTCCCCAGAACTGTGATATAGATAGGTA
CACAGCAATAAGCCAAAATCAGAGATACATATAGCACTGTTTCCCTCCTGTATTCTTAAAAAGGCACCACAGTAAATGAGAATAGAAAGGGAAT
CAGTGGGAGTGGGGATAAGTGTGAGTAATGGAGGGGATATTATCAAAGTACTTTATATGTTTAAATATTTTCATAAGGCTTAGGATGTAGCTTT
GTGGAACTGGGTGGGGGTGAGAATGGGGGCGAGCAACTGATGTTTTGGTAAGCAAAACTCAAATCAAGAGAAAATTGATTAAATAAAATTTTAC
TAAATTTTAAAAGAGGCTCTTTGAAAAACACCTTTAGGATTTATTTATTTATGAATGAATGACTGGTCATAGTGACTACAGGGATAACTTAGCA
GTTAGGAGCACTGGCTGTTCTTCCAGAGAATGGGGTGTTGATTTCCAACACCCACATGGAGGCTCACGACCATATACAGCTCCAGTTCTAGAGA
ATCTAATGTCCTCTTCTGGCTTCCCAGGCATTGCATACACATGGTACACAGACATCCATATAAGCAAAATACCCATATATATAAATCTCTCTCT
GTTTTTTTAAAAGCCTGTTCACTTTTATACTTTCTAACACTTGAGTCTTTGAGGTTGGAAGATATGTATCCAAAATAGCAAGCCATAGTATCAT
AATATATGTGGCCAAAAATAGCAATCCAGAAGTATATAAAGAACTTACAGAGGCAGGTGGATCTCTGTGAGTCCAAGGATAGCCTGGTCTAGAC
AGAGAAACCCTGTCCTGAAAAACCAGGGGGTAGGGGGAAGAACATATACAGCTCAGTAATACAATGTACAGTCAAACAAGCAAATACTGTAGTG
AACTTGCAATAGTTATTTAAAGGATGTGAATAGTCAATAAGCACAAATAGTTTTCATTAAATATTTAATCACTAGAAGAAAATTAGGAATTAAA
TTCATAATGAGGGTGCTGGCTGGTTAAGAGCACTTGCTCTTGTAGAGGACCTAGGTTTGGCTCTAACATTTTCAGTTCCAGAGAATCCAATACT
CTTATGGCCTCCACAGGGACCCAGCACACAGGGCATTTACATACATGCAGGCAAAACATTCATGGGTAAAATTTTTAAAAATAATTAAAAAAAC
ACAGCAGGCTAATTATATATATATATATATTATGTATATATAAATAAATAAAACATCCCCAACCAAAGCAAATTTTGCAAAAGAAAGCATTTAA
CTGGGGACTTGCTTACAGTTTCATCAGAGGTTTAGTCCGTTATCATGTTTAGGAGCATGGCAGCAGGAGGTAGGCATGGAGCTAGAGAGTAGCT
GAGAGCTATATTCCGATTCTGGCCTACTGTCCAAGAGGCTCCTGGGCCTGCTTTTGGCTTTTGAAACCTCAAAGCCCACTCCTAGTGATAAACT

TTCACTAATAAAGATACAAGTTTCAAACAGTGCCACTACGATACTATGGGGGTGGGGGTGGGGTCATTCTTACTCAAATCACCATAATATACCT
TTTAGAAGAGCAAAAATTAAGACAGTAAAGGCTGTTAGCCAGGCATTGTAATGTACTCAGGAAGCAGAGGTAGGTGGGGCTCTCAGATTGAGGC
CAGCCTGATGTACATAGAGAATTACATGCTCACCAGAGCTGCATAGCAAGAGTTTGCCTTAAAGAAAAACAAACAAACAAAGCCAACACTGGTA
ATTCTAGATGTTGCTAATGATTTGTAGTAGCTTGGAACTCTTAATAATATTCATGGAAATATATGAGAGTATGCCACTTAGGAATATATAGTTG
AGCAGTTTCCAATAAAGTTAAAAGTGAATTTTTTATATGATCTAGCAGTTTTACTTCATTTAGAAGCAAAGGTTCATCAACATGTGAGTTGTAA
ATTACAGTACTTCCATGTAATGGTTTTCACTCAGCAGGAAATGAAGCCATGGAGGCAGCTTAGTGGGACAGTGCTTGCTTATTATTTATAAGTT
ACTGGATTTGAGGCAAGGCAATGGGATGTCTTTGTGAAGTCTCCTTACCAGTAGGATGTGCTTTTATGGTCACTTTGCCCTTTGACTGACTTCT
GTTTCTAAAGTTGTTTGTTAAGGCAGGTAGGCAAATGATGCCTTATGATTCCTTGTGATTGACTTGTCTCTTATGATTGCAGATTCTCACAAAC
ACAAAGATAAACACAAAGATCGAGAACACCGGCATAAGGAGCACAAGAAGGATAAGGATAAGGACCGGGAAAAGTCTAAGCATAGCAACAGGTA
AGAATTGACCAACAGCGGGGAGGGTATAGGGAACTTTCGGGATAGCATTTGAAATGTAAATAAAGAAAATATCTAATAAAGATAAATAAATAAT
TAAAAAAGAATTGATCAATAGGGAGTTAGCATCCTTGGTGTCCATGGATAGGTATCAGCTTGAGGTGAGTAGCAAAGTAAGAGACTATATCTGT
TGTAGTTACTGAAGAGACTCCTTTAAGAATTAATGCCTCACTTGGTAAGTTTAGATCTAGATGTACAGAGAAGCACAGTGAGTCTTCTTTCAAT
ATGCATTTCTTTCTTTTTTTTTTTTTTTGGTTTTTCGAGACAGGGTTTCTCTGTGTAGTCCTGGCTGTCCTGAAACTCACTCTGTAGACCAGGC
TGGCCTCGAACTCAGAAATCCGCCTGCCTCTGCCTCCCGAGTGCTAGGATTAAAGGCGTGTGCCACCACGCCCAGCAATGCCATTGTTTCTTAA
AGCTATATTTATATTTAAAATTTATATTTTAAAACTGCTTTATTGGTTTGTCTTATTGTCAGCAGACAAGTTAAAGAGAAAATTCCTATCCTTT
TTTAATAATTGTGTTTTGTTTTACCATTTTTTGAGACTTGTTTTCTTTTTATATCCTTGGCTGTCCTGGAGCTAGCTCTGTAGATTTGAGTGCT
AGGATTAAAGGTGTGTGCCACCACCACCCAGCCAGTAATAAATTTTTTGAGTCATTAAAAAACTAGTTTAATTTTCTCTTAGGATATTTCTTCT
CAAATTATGTGCTCCTCCTGTTTTTTCCCATCACATAGTCATTTCTTACAACTTAGTTTATGTTTTATTCTTAATATTGTTTTTTCCCATCTCG
TAGTCATTTCTTACAACTTAGTTTATGTTTTATTCTTAATATTAATCTCAGCACTTGAGTCAAGTTTTGCTTTTTATGCACCCTTCTTCTCAAT
CTACATTTGTCTATCTAACACTACCAAAAGAGACTTGAGAGCAAAGAACACTGCCAACAATAAAGAAACCCATTTCATGATAATACAAAGGACA
TTAAAAATGTTTCTATAGTATCATCAGAGCCTCAAAATATGCACACACAGAAACTATTAGAATTTTGAAGAGAATTCATGATTGTAGTTAATGA
TTTTATTCTTTTGTTTTCAATAATTGTTATTCGTGCATGTAAGAAATTTCCAAGGCTAAGGGAGGGTTAAATAACAGAAAACAGTATCTGAGCA
TGGTTGACTAACACCTGTATGTAACCTTAGCATTCTGAGCCTGAGCACGGTGGATAACCAGAAGATTGAGGCCAGATCTAGGCTACATGGTGCA
AGACACTAACTTACAGAAACAAACAAACAAACAAACAAACAAAAAAGTGTAGTGTTGCACAACTTGACTTAATTGACATTTACAGAATAGTGAC
ACCAAAATCTTAGGACTGTGTTCAAGTAGGTGCTGAGATAACTCGTGCTTTTAGCTAGTCTCTCTTAAAATCATCCCTTTTACTTCTCCATGCT
TTTGTGTGTGTGTGTGGTGTGTGTGTGTGTGTGCGCGCGCGCGCGCGCGTGCATGCATGTTTTCATTTCCTTCTAATGTGCATAGTGC
TTATCTAGGAGGCTTTGGTTGCCTTCCTCTGCTGAATTTCCCTTGTCATTTGCCTTTACCTCACACTGTTAATTGAGCATTGTAAACTTCTTTT
AAATTTCTTAGATACGACATGTTTCTGATAAACCACTAGGCCTTAAAATATGCTATGGCTATTGTAGAGTACTCTTACTCTTCACTCCTTATTC
CCCTTCTCCTATTAGAGATTGAACGTAGGGCCTTAAATGCTAGTCAACAATACCACAATATCCCTGACCCTTTTTTAGATTGATAGAGATTGGG
TCCCACCACCTTGCCCAGGCTTGTTGGTTCTTGTTCCATAGGCCCAGGCAGGCCTGGAAACTACTTCATCTTCCCAAGCACTACTGTACCTGGA
CTTTCTTGTTGCTTTCTTAATATTCTTTTAGTAATAACTTTCTAACTATGTCATATTACTAATTTCTGTGGTCTCCTGAATATATTATTTCCAT
AGTAATTACCAGGTTTGGCTGTTAGGAATAATACTGCTATGAACATTGATATTTGAACACACATTTGAAGTTCTGTTCTCAATTCCTTCAGGTG
TGTACATCTAAGAGTGGAGGTATTGGACCATGTCAGTCGTTGCTTTCTTTTTCCTTTTGAGGTACTGGGGATTGCACTGAGGTGATTGAACATG
GCCAACATTCTACAGCTGAGCTACATCTGTAACCCTTAACCCGTTTTACCCTGCTTGTTATGATGGCCTAGCTTATGTATAATGCAATAGAAAA
ACAAAGAGGTTTCGATTTGTTGGGTTTTTTTTTAACTTATTTTTTCCTCTTTACCATGAAGAAGCTTTATCATCAGTAGTGATCAGAGACATGTT
TTTACAGGTCTGATCAAGACATGCTGATTTTAATGTTATTAGGAATTTATTTTGAAAATATTTAAAAGAAAGATTAATATTTAAAACAAGCTTT
TCCAAAATGATTTCATGTTCTCTTACATATTTCACCAACCACAATTTATGATTATAATGAGCGAGAGGGACAGCATAAAGCAAAAGTGTATCTA
AGGACCTAGGGACTAGTTTCTTGTACTGTTTTACTGAAATCTTTTCTTAAAACTGGTATTTTATTGTCAGAACTATTACAATAATTCAATAGCC
TCTGTCTTGGGCGTCCTGGCCTGTCCACTAATGTGTTCTATGACTTTCACTAGGTCACCCAAAACCCTTTTTCTCCAGTGCTTCACAGGAGGGC
CCAGGAGTCAATAAATGTAAAGATCTTATGAAGTGCTCTACAAATGTGAAAATATATTTTGTCCATTTTTCATAATTACAGTTTTGAGTGAGTA
AGCACACACAGATTTAGGCAGCTTTTTGTTATGCTTTGCTTTTTGACAGTGTCTAAAAATGTCTTAAATGCCAGCTTATGTTACTTCCTTTTTC
TTTGGATTCCAAGTCTCTCAAACTTGTCACGAAAAGCACTAATCACATTAAATTCTAACTTTAGGAAAACTTCATCCCCGACTGTCTACTATTT
GGCATCTGACGTTGCATGGTTTACACTAATCAAATGAAATAATTACTTATATATTTTTAATTAGATTTATCTTATGGGTATTTTTTATGTATGT
GTACCTTCATGTATGTATGTGTACCACATGTATGCCTGGTACCCTCAAAGATCAGAAGAGGACATCAAGTACCCTGGAATTGGAGTCATGTGGA
TGGTTTTGAACCACTATGTGGATGCTAGGAACTGAACCCAGGCCCTCTGCAAGAGCAGCAAGTACTCAGCTTTGCCATCTCCATAGTCCTCATT
TTTTGATAATGTAGCTATAGTTATATGTTGGTGACTTACATGAATTTGGCATAAGTTTTAGTCATTTGGAAAGAGGGAACCTCAATTGGGAAAC
TGAAAAACTGCTTCCCTAAGATCGGCCTATAGGCCATTCGTGGTGGTACACACCTTTAATCCCAGTACTTGGGAGGCAGAGGCAGGTGGATTTC
TGAGTTCGAGGCCAGCCTGGTCTACAAAGTGAGTTCCAGGACAGCCAGAGCTACACAGAAAAACCCTGTCTCAACCCCCCCCCCCCCCAAAAAA
AAGATCGGCCTATAGGCAAGAGGTGGGGGGGGGGGTTGTTCTAGATTAATGGTTGATGTTAGAAGGCTCAATCTACTGTGGCTGAGGTGGTAGT
TGTATAAGAAGGCTGGCTGGGCGACCCATGCAGAGTAAGCCAGTAAGCAGCATTCCTTTATGGCTTCATGGCTTCTGCCTTCAGTGCGATGTGA
CCCGGGACATGTAAGCCAAATAAACCATTTTCTCCCCAAGTTCCTTTTGATCAGTGTTTTATCAGAACAATAGAAAGTAGTAATATTTTACAGA
TCAGATATTTAAAAATACACTTTGAAATAAAAGGACTGTTTTTCTAGGTCTCAAGGCATTACTGGGCTTGTAGTGTGACCAGGTAGCTCTCTTA
ATCATTCTTAATCAGATTTTCTTTAATTTGTAATATTGAAAAGCACTATAAAACAAAAGGTCAAGTTCTGCCACTCACAAACTGTATCCTAATC
TAAGCATCTTACCTTTTTTGCCTCCTTTTCATTTTTGATTGATTTCCTGCTAAGTAATTTAGATAATGATGGTGATGATGACAATTATAACAAA
ACCTAATAAAAGATCATGTAGATAAATTGCAACTGTCAGTTTTTGTAGTGGAATCTAACTCAGTAGTTAATTATTGATAAATCTGATTTGGAAC
TAGGACTTTTTAGTTATTTCTAGCTTTATAGTTGAGTACTATCATTGCTTTTAAGATTTCATGGTGGAGGCAACCTTTTTGTTTGTTTTTGCAG
ATGTTGGTTATCAAACTTGTTGATTCTGGCTCTTTTTTTTTAAAAAAAAATCTTTTTATTCATTTAATGTATATGAGTACACTGTTGCAATCT
TCAGACACACCAGAAGAGAGCATCAGATACTATTACAGATGGTTGTGAGCCATCATGTGATTGCTGGGATTTGAACTCAGGACCTCTGAAAGAG
CAGTCAGTGCTCTTAACTACTGAGCCATCTCTCCAGCCCCCAACCTTTTTGTTTTTTTTAAGACCGGGTTTCTCTGTGTAGCTCTGGCTGTTCTA
AAACTAGTTCTATAGGCCAGGCTGACCAGCAACTCAGATACCCTCCTGTTTCTGCCTCTCAAGTGCTGGGATTGAAGACATATATCACCACACC
CAGCTCATGGAGACAACATATGAAGCTAGCCACTGAAAATAGTTACGATCACAGAAGGATGAAAGGATAATGGCTAAAAAAAGAGGTATCTGGT
GGGTACAGTGGTACTTGACTTGGGAGGTTATGGCAGAAGGGTGACCAAGTTCCAAGCCAAACTGAGCTATAACTGTCTCAAATATAATTAAAGG
AGCCTTTCAGATGATAAGAAAAGCATGAAGAGGTTAAGGAATGTAGCTCCGTGTTAGTGTGTACCCCGTAGAATATACAAGCCCTATGTTTTAT
TCCCAATATCACAAGAAACAAAACATACACAAGACATGTTACTGTTGTAGCATGCATTTTGTTTCAGAATGGATCCAATTAAGTGGATACCTTA
GTTACAAAGTGTAGGACAGAAATGAGGTCTAAAATGTTGTCTTGAGATAAACTACTGCTGAAAACTGTTTTAATTCAAGAAATTGCTTTAATTT
AAAGAAGAGCTTTAGTTTTTAAAGGGAGGAAGAAGCTACTGGAAACAGTTCAGAAAGGGGAATTTATAATACAGAAATGGTTCTTGTTTTGGAC
AATTGGGCAGCTTTTTATAATAAGATAGGTAGCCACAAAAGGCTGAGCTGTAAACCAGAATATAACGTATAAATTAGAACTTCGAGAAGGAATA
GAGGTTTAGAAAGTGCACTGGTTTGGGCATCTTTGGAAACATCCTTTTTTTTTTTTTTTGGAAACATCCTTTTATCTTTTCCAGTCCGCAAA
CGAAGGAATAAGTTATTCTATTTGACTTTTCTGTAATTGCACACAATTTTCCTTCCTGGGCACAAGATGCAATGATTTTTTTTCAGACAGCAAG
TTCAAACTAACCTAATAGAAAATTCCTCGTGATAAACACTAAATGAGTTTTGTTTGTTTATTTGTCTTGAAATAGTTACCCAGGCTGGATTTAA
TTAAGATCTTATGGATTATACTTATGAATGTAAGTTTAAAATGTTATGACTTTCTGAGCACCCTTAGGAAATACAACCCTGGGACTTAATTCAT
CTCTCTGACTTCTATATTCAAAATACATACATTCTTATCCGTTTGTCAATCATAATTGAAAGTTGTGTTCAATTTACCTTTATTTAATGCCTTC
AGAGTGAGAGTGTGGTGATTCAGCAATTGGGATATACCAAAAAGCGGGCAGTAAGGTGTTTCTTGTAAGTGGAAAGCAAAAGTTCTCAAAGAAG

AGCGTGAATGGTTGTGTTGAACTCCAGAAAATGATGGCTGTGTATTAATTCCTTATACCCAATTTATAGGCCAAAATTTATAGTAGATATGTTT
GTATAAGGAAATCAACCCCCACCCGGACCTCCACCCCAACCCTGCCCTTGTATATAGAGTTGGGTACTATCTGGTGTCAGGAATTCACTACATC
CAAGGTGGGCAAGTGTCCTTGTGATTTTGCTTAGTAGCCTAATGATGATGGACATTCAGCAGCCGCTATGCTTTAGAGCCTTTTGAAAACTAGC
TGCTGTACTATTGTCTGGGAGACAACTTAAAGTTACCCGGAATTCTTTTATTTAAAGCATTTAAGCTTTATTTTGATGCCTGCTTTCCTTGTAA
ACACATTAATTTCTTTCCTTCTGTATTGTTAAAGCCTACTCATTCTCTTATAGGAGTGCCTGAGATGCCATTGTCTGTCACCCTGTCTGCTGCT
TTGCATAGTTGGCAAATATTAGTGGCTAAGTTCTCTTCTCAGAAGATGAGCAGATTCTACCTAATAGTGTTTGGTTTTTGTTTGCTTTGTTTGG
GAAGAATAGAATAGAATAGAAGTAATAGAATGGTTAATTTCATGACTGGAGACAAACTGCCTGAGTTGAACTCCTCATTTTCCCTGGACAAGTT
ACTTAAGCATTCTGTGCTTTTAATTTCCAGATGTGCAAAGTTTAGATACCAGTATTCATTTCAGGGTTTTGTTGTAGCAAGATGTGTATAATAT
TAGGTGGTAATATCGTTGCTATTTGCTAAATACTTTAATTGACCATAAAGTAAACTTTAAATTTTGATGGCTTCCCATAGCCAACATCTAGCCT
TCCTGAGTATCAGACTCTGAGTTTTGCAGGAGTACTACTACTCTCTATATTTTTTTTCTAAAGATTAATTACTTTTCTAGTGCAAAAGAGGAAT
GCTTTATTTTCCCATTTTACTGCCATCCCTCACTTGTCCTTTCTCATGCCTTCCTTCTGCTTAAGGTCTTTAAAGAAACCCTGCCATTTTTTTC
TTTAGTTTGTTTAGCTTCTATGAGAATCATAGACCAGAAGTTTCATAATTGTCACCTAAGAAATAGCATGGCTATTTTCTCCCACCATCTTTAT
CATTAGTTTCTTCTCCTCCTCCTCTTCCTCTAACTCTTCCTCCTCTTCCTCTTCTTCCTCCCCCTCCCTTCTTCATGATCATCATCATTAAAA
TTCAGTTGTTTGAAGTATAAGTCAAGCATGCACATTATGAAAAAAAGGTTTTAAGAATTTTTATTATCCTTCTTTTAAAAATTATTCTTAGAGA
TTTTGAAGACATCATTATCTATCACCTCTTTGTCTTTCTTTCTGCGCTCTCTTCTGAAGTGACCCTGAGATTTTAAAGGAGGGGGGTGCGTGTG
TTGCGTGTATTCCATTTAGGGCTATGGATATTGTCTATTTACTTTCTTAAACATGACTTGCTTATTCAACCGGTGTGGTACAGTCTTACAGAGA
AACATGAGTATTGAATCAAGGAGTCAACCTCTGTTCATAGCCATTCATTAGGATTTTTTTTTCTTTCAGAGTGCCTCATATCTGTGGTGTTAAT
TTTATATTTCATCCAAAAGTGTAACCATTACAGAATATCCATGTAGGTCCTGAGCACTATGTTTTTCAAGTTCCTTCCTATGCTTGTTCCTAAG
CATTTCTTTTATGTATTTAATTTCTAGAAGTCTTTTCATTGGTAAAGTTGGCCACTCTCTAGCCTCTGTTGTAGCCTTTGGTTGTTAAAACTAG
CTTTGTGACTTTGACATACTGTCTATTGCTGAAAAAGTGGCAAGATCTCCTGCCCAGGTGGTGCATGCCTTTAATCCCAGCCAGCACAAAGGAG
GCAGAAGTAGGTGGATGCCTGACTTTGATATCAGCCTGGTTTACATAGTGAGTTTCAGGACAGCAGAGTTATGGGGAGAAACCCTGTCTTAATA
CCCAACTGTAAATTATCTGAGTTTAACTAGTTCAAAATACAAACCTAGTTTATGATATTCCAAACAGATGGGTATAAAGGAGACTTAGTCTGTT
TAAAAAATAAGGTTGACATTTCATCCGTTTTACTGTTATTGGTACACAAGAGGATTAATACTCCAGGAGGATCTTTGAGTTTTCTACATAGATT
CTCATTAGGCTCCCTCTTCAGAGGAAGTAACAATTTGTGTGTTTTGTTTTATTACCCTAGAGTAGTCTTGATATACCATTACTACTTACTGATT
CTTTAGTTTGGTGTTCTAATGAATAACAAAACTGAAATCTAGAGACTCAGGTTTGCATCCTCTGATTGCCAAAAGGTCATTTTTCCACTAAGG
CAGATTAGTTTTCTAATAATTTTCATTAAGAAAGAGAATTGAGAAGAGTAGTGTAATAACTAAAGGAAGACAGAGCCTGAAGCACTCTAATTAG
CCATTTATATTTTCATAAGAAGTAATCACAAAGGTTTGATCTTTTCAAGTATTTAGAAAATACCTACTTGGTGGCAAGATATGTCAAATCTTAG
ACTTAAGTACAACACCATTTATATCTGAGGTTGAAGAGGTGGTTCAGCAGTTTAGAGTACTTACTACTTTTCAAGAGTACCCCATTACAGTCAC
TTGCACCCACATGCCAGCTCACAGCTTACTCTAGTCCCAGGGGATCTGACACCCTCTGTCTTCCTCAAATACCAGGTGTGCATGTGGTACAGAC
ATACATGCAGGCAAAACACCCACATACAATAAACAAATATTTTTAAAAACGATTTAAGTGGAAATGTAATAACAATGTACAGGTTTTCTAAACT
TCTAAATGGAAATACTAAGTTTAATCCTAGCATTGTCCTCTATAACAGAATTTGCATTAGTTTTTTGTCTTGTTTTTTTTGAGACAGGGTTTCTC
TGTATAGCCGTGGCTGTACTGGAACTCACTCTGTAGACCAGGCTGGCCTTGAACTTAGAAATCTGCCTCTGCCTCTGCCTCCTCTGCC
TCCTCTGCCTCATGCTGGGATTAAAGGCGTATGCCACCACTGCCTCCTTCCTTCCTTCCTTCCTTCCTTACTTCCTTCCTTCCTTCCTTT
CTTTCTTTCTGATTTATTTATTAATTTTATTTATGTGATGAGTACACTGTAACTGTCTTCAGACACACCGAAGAGAGCAGCATCAGATCTCATT
ACAGATGGTTGTGAGCCACCATGTGGTTGCTGGGAATTGAGCTCAGGACCTCTGGAAGAGCAGTCAGTGTGCATCAGTTTTTTAAGTGACCATT
TCTTCTGTATATACATTTGTCTAAAAGAAAATAAAACCTCTTAGAATTATTACAGAATTGAGTAAAATAAGGGTTGTAAGACCAAGTACAGCCA
GTCAGGTGTGGCTTACACCTTTAATCTCCCAACAGGGGCCAGCAGGTCCCTGTGAGTTTAAGAACAGCCTGGTCTACATAGTGAGTTATAGGCT
AGCCAGGCTGCATATTAAGACCCAATCTCAAAGACAAGCCAAAAACCCAAAGCACACACACCATGCACACATGCTACACACACTAGTCTGTACA
TAATACTTTCTCAACATCAAAAAACAAGTGCAATGCTGTAAGGATGTTGTAAGGAGAAGATGTGTTCATCATCAAAATGCCTGCGATTGTTTCT
GGAGTTTATTTTTATGTAAAATTTGTGTAGGAGACTAAGGGTTTTTGTTGTTGTTGTTGTTGTTATAGGTTTCTATAACTATTACTATAGTACC
TTTATAATAGAAGCTAAACATGGTAATATCAAAACCATGCATATTATCATGTGTATGATATATAGTGAGTCTAGTTTTAGTCTTTGCACTATAT
AAAGGATTTTTTTATACTGATAGAAACACATCATGAAAACACAATGAGTGGAATGATGTACTGTTGGTAAAATGTGGTCTCTGTGTGTGCCATT
AGCATTCTGTGTGCCATTCAGCCTTAATGAGTGGAAGGTTTGCTGTGGAAACTTGCCCTTTAATGTATAGCTCATATAAGTAACAGCTAACGAG
TGCTGGAGGAGAATGGAAATGAGGGAGTATGTAAACAATGCAAAGTGGGCCCTCCTTCCCTCCCATCTGTGATAGTGCTGGAATCCTCCTAAAC
CTGTAGTCCTGTATCTGCTAGTCTTTACCTTCTGGTTAATTTTCTAAGAATTTGTTTTTTTGAGGCAGGGTTTCTCTGTGTGGCCCTTGGCTGT
CCTAGAACTAACTCTGTAGACCCGGCTGGCCTCGAACTCACATTTGCCTGCCTCTGCCCACCAAGTGTTGGGATCAAAGGTGTGCACTACCACT
GCTCAGCTTCAGTTTGTGTTTATAACCCAGATGCCTGTCTTAGTTATGGCTACTTTTGTGCATAGAAGTGAGTGTAACAGTAGGCGATTTGATA
TGTATTCTGTTGCTTGGCTTAATTAAATGCCATTGCTTTTTGTCTTGTTTTTAATCTTCTTTATAGACAAACACCTTTTTTAGGAAAGTGTTTA
AAGGAAAATTCTTGGGTCTCTTGAGATCATTGCCAGTGAGGCCAGCTTTTTCTGCTCTGAGTCAAACAAGTGGCAAATGAGCTGTGACAAATCT
TATAGTCCTGACTGTTTCTATTGTTTGGGCTTACAGTTAGCAATTCTGCACCTGTGATGAACCCCTAATTCAGACCACTTGAGCTTGAGTTCTG
TTTTGCTTAGCTGTGGAATAATCCAGCAGGGAGCAGGTGCCTTAACACCAAAGAAAATGACTATCCACATTGTTCTGCAACATGTGGTTTTTGC
TGCTAGTCTCTTGTCTTTATCTACATTTACAGTCAAAGGTATTTTGTATAGTCTTGTTGGGATCTGTCAGTAGTATTCTGGATGTGTACTTAAA
ATAACAAATATTCCTTAATAGTTATCTTATTTCATATAACACAGTTTCCTCTCTGGTTAATCATTTAGATTGCATCCATTTTCTCATTTTCTTT
TTCCCTTTGGATACTATAGTAAGTACCAAAATAAACATCTTCCCTAAGAGACATTTCTAGAAGATCTTATATGAACATGTATGATCATTTTAAT
GACTCTTGCCTTGTGATGTAATATCTTGCTTTCCAAAATAGAAAAATGTACTTTTACGGGGCTACTAATATGACACATACCTCTTTCAAATAAG
ACTTAGAAATATGATGAACATAGACCTTGTCCTTGCTTTCAGGTGGGTCTTATTGTGAGGAAGAGGCCTGCAGGATCTACAAACTTCATCTGTT
TCTTCGTAGTTAGTGAGAAAGCTTTTAGTGTGTTGGGCCATTCAGTTTACAATGTTTTGTCCTGAGTCTGGCACAGTCAACAAATACTTTTTTG
GGTAATTTGGATTGAGTCCTCTTACAGCAGTTGTGACTGTTGGAGATAGACCTTTCAACTGTATATTTTATTGTTAGAAAGTTACAGAAATAAG
ACTAAACCTACTGTATATTCTACTACCTTTTAAAATGCTTGCAGAGCTTACATTATGTAGTGCTTTAGAGTTTATCCACCTGCTTCAGTAAGAC
CTAATCTGAAAGCTTAACTTGTCTTTTTTTTTTTTTTAAATCTTTCTTTTGATATGCAGGGCAAAATCCTGGCTATACTTTCTCTAACACTGAG
CTTCTCACTTGTTCTCTGAGACAACTTCCCCAGTGCCCCCTTCTGCCATGTAGTTGCTTGTTTGCCAAGTAGCTATTTGCAGACCTCCATTGCT
GAACATGCCAGCCTAATTCAGCAGCATAGATTTTTTTTTTCTTGGTCTTCCTCTTTTCTCTTTCTTTTCCTCTGGGAGGTACTGAGATTTCCAC
CTGTGTGCCCTGAACTTCCTTCTGAATCTCTTAAGTTTTTTTGTTAATGAGAGTGGGAACTCCGAATTTCCATGTAATAATTAGTCAACTATGA
AGGCATCCTAAAGAAGCTCTTGTTAGGATAGGAAACAGGTGACCATGTTCAGGATTCTAGCAACTTTATTTTTAAGGGACTTGATTGATTGCTG
AATCAACAGACACATAAAGGGCCACCATCCCCCAGGTCTCATTTGTTCCATGATAACCTCATTATGGGTCATGAAGCAAGGTTATGCCATGGAA
TCGTTTATATTTCCAGTTGTTCATGTGTTCCTAACACAGCAGTGCAGTTATACACTGGGTACATGTCTTTGTCTCTCCTGGATCACCATGGGCT
CCTGTCCCAGCAGCAACTTGTACCTAGGAGCTGAAGGGAGATCAATACAAACTCCTTATGACTTTTAGTGCTTTCTGGTTACACTCGGTGAATT
TAACCCAGGAGGTCCCCTCTGATACAGCTAGCAGTCTTTGAACCTTTTTTCAGGACTGTGTAAGCATTATAAGTTTTCATGGTGTATGGCTTTT
GAGTTGATTTTGTTGTTCTTACTCTAGGCTAACTTTTTATGTCTTATTTTTAACAGTGAACATAAAGATTCTGAAAAGAAACACAAAGAGAAAG
AGAAAACCAAACACAAAGATGGCAGCTCAGAAAAACATAAAGACAAACATAAAGACAGAGACAAGGAAAGACGAAAGGAGGAAAAGGTACAGAA
CTTTGCCTTAAGGGGAAACAAGAGTTAAGATGTACTTTTATTTTGAATACTTTAGAAGTGGTAATGAAAGTAACTTTGTTATATCTACCCTTGA
CCCTGTAGCAGACTTCAAAATTAGCAGGTAGTGCTATAGCAAAAACTACAACTAAACACTGGCTTCCTTGCAATGTACTCATTAAACTCCTCAC
TCCCCAAACAAAAAAGATTTTAGATTCAATCTGTCTGAAGCTATGATAACCAAATTATTTAACACCATGTCTTTAACAATGCAATAAGTATGTT

TATTTTATACTACAGTGTGCCTATAATGTTTCTGGAAACATCTTTTCTGTTTTAGGGAAAGTTTTGTTTTTTGGAAAACCTAAAGCTTTATTGGG
TCTCCTCTGATTGAAGATTCTGGGGCTGTGTCTATACTTAGTTGATAGACTGACTAAGTTTGACTAGCATGAAGGAAGTCTTATGATTTCCAGC
ACTACTACCAACAGTTGTGTTTTGTGTGTGCCTGTTATTCTAGCACTTGGGAGGTGGGGAGATAGGGCGAGTAGAAACTTAAGGTCATACTTGGG
CTACAGAGTGAGTTCAAGGTGATCCCNNNNNNNNNNNNNNNNNNNNTGTGTATGTGTCAAGGTTTTTCAATGCATTGTTTTTTTGTTTTGTTTT
GTTTTTTTGTTTTTGTTTTTTAAAGTGAAAAAGAAATTTGTAGGTGGGCAATCATACACTAGAGAGGGCAGGAAATAGACTAGTCTATTTTATG
GTACCCTCACCCCACTGTGAGGCTCGCAGCAAATTTTTGAGTAGTGGATATATTTATTGGGGAGATGAAATCTACTGTTATTTTAAGATTAAAA
AGTTGCTGTTTTGAGGAAGAACTTTCTCGATTAATTTCACCAGAATTGTCAAAAAACAGCCCTGGGAAAATGTCTTTAGTTGACCCACTTCAGT
TTTGCTAACAAGAAGAGTCAGTCCAGGATCAAGATGCTCCAAAATAGCCTGGCATGATCTTGCCATTCCCGAACACTCAATGACTGTGGTTATC
AGCACAGGACACGAGCAGTATTGAGCCTGTCAGCATTCTGTCTTGGAGAAGGGTAGATGAGGTCTCTTCCTTGAAGACTACCATCCATTAATGG
TTATTAGAGGAAGTTGAGACATTTTCTCAGGTGGTATAGTCACTGTTAAGGTGCCTATCTACACTCCTATAAGCAATTCTGATTCAACTCAGTG
GGACATCCAAAAAGCAGGAAGAAAAGACAAGTCATGGCTGGGAAGGGGATCATTAGGAACGGGGAGTGAGTAGATCCGAGTACCTCATATACTT
GCATATACCATAATGAAACCTGCTTTATGTATAATTAGTGTATGCTAACAAATTTAAAATCTCCCAAATTGATGGTAATCTTCTTGAATAAGAG
TTTTTTGTCTTGTTTTAGTATTAAAAACTTTCAAAGTACTTACTGAGAGGCTGTGGTTTTACCTTGCAGATTAGAGCTGCTGGGGATGCAAAAA
TAAAGAAGGAAAAGGAAAATGGCTTCTCTAGGTAAGACCTTTTGCTACAGCAGCTTTTTTTGGGAGGGGGGTGTGTGACTCTGCATGGTGGTGT
CTAAGCTTTTCCAACATGAACTGAACTAGCCACCTTGACAATTCAAAAAAAGTCAGTATTAAGAGCACTTGACCTAGGCAAACTTTGGTTTTTT
AATAGTTCTAGTTAGTGAGACTGAACAGCATTTATCCAGAAATCTACCAGAAATGGAGAAGGCTATCAGAATGAGGTTTTTTTTTGGTTTTTCG
AGACAGGGTTTCTCTGGCTGTCCTGGAACTCACTTTGTAGACCAGGCTGGCCTCGAACTCAGAAATCCGCCTGCCTCTGCCTCCCGAGTGCTGG
GATTAAAGGTGTGTGCCACCACGCCCGGCCAGAATGAGATTTTAAAAGTTGAGGTATATACATACCACAAAATTTGCTATGCTAGCATATATAT
AGCTTATGGGCTTTTATGGTATTTACCTCACTATTTCCCAATATTTCAAGAGAAACTCCTTGGTAGTAATTATGGAATTTCTTAGTCTTAAATT
AATTCCTCCTTTGTAATATAAGACATACGTAAACCCTTATTGGACTTAATTTTTTAATATAGTGTATATTACCTATAGGCTGTTTTTACACTCT
GCAGTCCATCTGTTCTGTTTTCCTCATTTTCAGTTCCCTAAAGTAAGTGCTCAAGTCCACTCTAGATTGAGAAGACCATTTAAGATCACATTGT
ATATTCTGATGTCTTCCATGGAACCACGGAATGGATTTGTTAAGACTTGTTGAAAGCATTTGCCTTATTGACTGTAACAGAGTTTTAAGAGCTT
TGCTTTCTTGAGACTTTGTATCCAGGTCCTTTAGAAAAAGAGAAGCAGGTGCCTTTTATAGGGATATTTTACAAATGGTGTAAGAAAGCAGAAT
AATAAAGTTGAGTAAGCATTCTACAAAGTACCCTAGGAATTCTGTTAAACAATAAAATGAGGCTCACGATGTCTATTCTTTGCCAAGAGATCCT
GCAAGATATGAATAGATTATTTGAACTTTCGTCATGAATTCACTTAATGACTTGGGGGATTAGAAGGACAGGCGTGTGTGCTTTGCCCCCGATT
GTCGTTGCTGGCCTGCTTGTCAGCAGTGAGTCCTGTAGAGAATCCAGATGCTTCACTTGAACTTCATCTTCGAAGTGTGGTAACTCACTATTTG
CTTTCACACACGACACTTAGGATGGGGCATTAACTTTGAACCATTGGATGTTGTAGTGTCTTCTTTGGATCTCCAGGGCTTTGTAATTGAAGGC
GAAACAGCTGTAGAAGTGGCATTTAGGAATTGGGGAAAATGTGCTGGAATAAGAAGAGCTAATCTTTTTAAACCTTCAGATTTGTTGCAAGCA
AACTGGTTTTAATGCTTTTAGAAAGAAAGGAGAATACATTATCTATACTTCATGCTGTGAATATATTTTACTGTTGAGACTAGATACTTACACT
TCAGATCCACCACTTCATGAATGGCAGCTTTATTTTGGGAGGCCATTTTCTTTACTGAGTTAAGTCAGTGAGGTCTAATTTGAAGAGATGTAAC
AAGCCAACCTAGGAAAGAACATTCCAAGGTTTCTGAGTGTTTGTCCGTGTCACCGGCAATTCTCCTTCCCCTTCCCCTTCCCCATCATCATCA
TCACTACCACCACCTCCTCCTCCTCCACCACCACCACTACCACCATCACCATATCACTATAAGATAGCTGACATACACGCTCCCCTATCTCATT
ATTAGTAAATGGCAGAGTCTTCTGAAGTTCAGAGTGGCTTGAACCATTACATAAACCAAGACGAACCTCCACTCCTGCTCCTCCTCCTTAATTG
TTGGAAGTGTTGAAATTACAGACGTGTGTACCCAACTTAATTTAAAAAAGAAAAAATTAGATATTTAAATTTTACGTGTATGAGTAAATGTTTT
GCTCATATGTATCTGTGCTTGCCTATTTCCATGGAGGTAAAAATGAAGTGTTGGATATCCTGGAGCTAGTTATAGGTGATGGTGAGCTTCCTGG
TGAGTGTTGGATAAATCTGGGCTCCTTGCAAAAACAAGTGCTCTATAAGTGCTGAGCCATCTCTCCAGACCCCCAGTTTATTCTTTCTAGTTAG
TACAGGTTTCATAATGTCATTGTACTCTGGCTCATAAATTCTCTAGATAGATAGAGATTTTGCAAAGGAAAGAAAATGTGACATTCTTTTCTCC
CTTGCTATAAACCTATCCCGTTCTATTTTCATGAAAAGATTTTTTTTTTAAATGTATATGACTATTTTAGCCTCATGTAGTTCTATACACCATG
CCTGTGCCTAGTCACTAAAGAAGATCCCCTGGAACTTGGGTCTATGCTTTCTGGAAGATTAGTAAGTGCTCCTAAACATTATGCCATCTCTCCA
TCTCCTTTCATGCCACATTTTTAAAAATTGAGGGTTTTTTGCATAATAAAGAAAACATGTTATTTCTTCTATTTTTCCCTGCAAATAACACAAT
TTTATTCTTTATGCCTGAATAAAATTCCATTGTGTATATGCCATATTTTCTTTATCCATTCATCTATTGATTAGCATCTACACTGGTTCTGGAT
TTATACTATTATGGATTTACAGAGAGATCCATGTTTTATGGTGTACTGACAAAGCTTCTCTTGGGCATATACCTAGGAGTAGTATAGCTGGGTC
ATGTTGTGGAAGACCTCTATAGGATTTTCATAGTGACTGTACCAGTTTACATCCTCAGTTGCATTTTTTTTTCACATCACCTTTTATTACTGAA
GGAATTCAGGGCAGGAACCTGGAGCTAGGAGCTGGCGCAGAGGTCATGGAGGGGTGCTGCTTACTGGCTTGCCTGTCATGGCTTGCTCAACCTG
CTTTCTCAGTGCTCAGGACCAGCAGCCCAGGGGTGGTCCTACACACAATGGACTGGGTTCTCTCACATCAATCACTAATTAAAATGCCCTACAA
CTGTATCTTTAGGGAGGTATTTTCTCAGTTGAGGTCCCTTCCTTTCCAATAACTGTAGCTTGTGTCACTCAGGTGGACATTAAACTAGGCAGGG
CACCTACTTTATGTTATTTAACACAATTCTGACAATTTAGTAATCCTTAACTAGCTGCTTTGTTCTCTCTTTAGTCCGCCACGAATTAAAGATG
AACCTGAGGATGATGGCTATTTTGCTCCTCCAAAAGAGGATATTAAGCCATTGAAGAGGCTTCGAGATGAAGATGAGTATGTATTTCTTCCATT
TTGATTAAAGTGGAACATATAAAGAAATTTCAATTTTGAAATAATGTTTGTTGCTGCCTGATTAACAATGGTAAAATTGGAATCAACCTTGTTC
ATCAACAAATGAATGGCTAATGGACGTGTGATCTGTGGGTGGATAGTAGAATGTGCTGCTCATCTCTATAGAAACATGAAATTAATAGTTTTAT
AGGAATATGGATGGATTTAAAATATGTAATAGCAAGCAAGGTCATATAATCTCAAAGAAAAAAACTCACATTCTCTCCTGGAATTCTACCAATA
CTTTGAAGGAAGAGAATAGGAAAGGCTAAGTAATTGAAACAGATGAGGAAGTACTGAATGCATTATAAACGAGGATATAAAGCTAATTGTTTTT
CTACTTCTGTTTTTATGTGGAATCTTCTTTTTTTCCTCCCCCACCCTCTTTTTCCCCATTTGGTGGTAGATAAGGGCATAAACTACATTCAGTA
TTGAAAATGTAAAATTGAACAAAGCTGTAGAACTTCATTCTGAGTGCCTGTTTAAAATATAAATGTTCATTGAACTAGATCTGTTAGTTTTAGT
ATGGTAATTTGGAAGAGTTTATATATACATGTGTGTATATATATATATGTATATATAAATTTATAAAAAATTATAAAATTATAAGAAGAGATAC
TTCATAATTTTTATTTTATTTATTTTTTGTTTGTTTGGTTTTTTGTTGTTGTTTGTTTGTTTGTTTCGAGACAGGGTTTCTCTGTATAGC
TCTGGCTGCCCTCGGAACTCAGAAATCAGCCTGCCTCTGCCTCTCAAGTGCTGGGATTAAAGGCATGCAACACCACCACCGGACTACTTCAACA
ACGTTTAAAAAGAAAAGGCCAGAGCCAGGCATGATGCCACCGCCTTTAATCCTATTACTCAAGAGGCAGAGGCAGGGGATCTCTAAGTTTAAGG
CCAGCCTGATCTATAGAACAGGGTCTAGGACTGCCAGGGCTACACAGAGATACCTTGTCTTGAAAAAATAAACAAAACAAAACAGAAGGGAAAA
TCTGTTTTAAGAATAAATATGTGTATATCTATAATTAATAATAATATATTAATTGGCATTTGTGGTTAATGGACTAATTTATGAGAAGTGGGTT
TGCTAAGCAAATTAATTTATGGGTTATGTGTAATGTGTTTTTTCTTACTAAAAAAATAATGCATATTTATTATAGATATTTCAAACTATTTCAA
AATAGAATTAGTGACGGGTAAACTATTTTAGATCCTTGGGAGTTTTTCAGTTTTGTACCACAAGTAAATTGAGAAATATTAGGTTAGGGATATA
TAGCTCAGTTGGTAGAATGCTTATCTACCACACAAAAAGCCAGGGGTTGATCCCAGAACCTCATAGAACTCATACAAACCTCATATACCAACAT
TTGGGAAGTGGAGGCAAGAAGATCAGAAATTCAGTCATTTTTGACTACAGAGTGAATTTGAGGCTAACTTGGGCTACATGAGACTCTGCTTCAA
TTCTTTTTCCTTCTAGGATCTATGCCTTTTGATATAAGGGAACCTTCAATGTACAGAGATAGTGAAGTTGATATTGTTATTTAAGGCTTACATT
TACCTCCAATGATAATGTATTCCATTTTACTAGTTTTGAGTATTATATTATATAATTATATAATACTTATTCTATTCTATGAGATAGTCACAGG
ATTTAAGATGGAATGGCTGAGGCTGTAGCACAGTTGATAAAGTACTTACTTTACAAGCATGAGGACCTGAGTTTGATCCAGAGCTCACATACAA
ATTTCAGGTGTGCTAGAGCATGCTAGGACTTGGAAAGGCAGAGACCGGAGACTCCCTAGGACTGCTGGCAATTTAGCTTAGCTTACTTAGTGAG
CTCCATGCTCCTGAGAAGCCAGGTCTCAATGGAGCTTGAGAATGTTCTTTAGGAGGACAGTACAAGTTGTCCATTGGCTTCCACATGAATATGA
GCATTCAGACGTGTGTGCACTTAAATAACATTTAAAAATCAAATAATGGCTACAGCTATAGCTTAGTTGTTAAGAGTGCTTGCTGTTCTTCTAG
AGAACTCAAGTTTGTTTGCCAGCATCCATATTAGGCAGCTCTTTATAGCCTCTAGTCTGTTTCTGTCTGTCTTTTATATTTATTTCACTTTTTA
TATTATGTCATGATCCTGAACATTTATATGTATACCATATGCATGCCTGGTACCTACAGAAGCCTAAAGAGTTCATCAGATTCTTTAGAACTGG
AGTTATAGATTGCTATGAGCTATCCCATGTGGATGCTGATAACTAAGCTGAGGTTCTCTGCAAGAGCAGCCAGTAGTCTTACCAGCTTGAACAT

CTCCCCAGACCTTAATCTCGTCTTCACTACCATTGAATTCCTATCAAGAATAACAGCAGTCACCTGCCATGGACACTTTTCAAAGAGTTGGGAG
ATCCTAATTCTATAGGTGAGATCTCTTGAGTTGTAGTTGCAATAACTGCATATTCATGTTCTCCTTTCTAGTGCTGATTATAAACCTAAGAAAA
TTAAGACAGAAGATATCAAGAAGGAGAAGAAAAGAAAATCAGAAGAGGAAGAGGTTAGTAAAAGTTTTTGAGGCATACATTTATTTGTATAAAA
TAGCCTTAAAAAGCATGAGATTATTTTTAATTGTGGGTATCATGATGCACATGTGGAAGTCAGAGGACAGCTTTGAGAAGTCGATTCTCCTGGA
AATTGAACGGGGGTTAAGTTTGACAGCAGGTACCTTTAACTGCTGCATCATCATCTCTTATGTCCTAAAATAGATCTTGAGGCCAAATGAGCTT
TAGAAAATTTTTGGTTTGTTGTAGTAGTTAGAGTGGGGAAATGTTTTTGCAAACAAGTTGTGGTTGTGCTGAGTTTGCCAAGATTTTGAAGTATC
CAGATTACTCGCCACCCTTGAGTCTATTCATAGCCTGCGTTGATGTTGATAAAGTATGCCACCTGTAGGTATGCAGAAAAATGTTCATAAGGAA
CAACTCTGAAAATTCTGTCTTAACAATATTTCATGACCAATGAAGCATGCTCTTTCCTCATTTTAAATAAATGTAGCTCTAATTTAATCAGTGC
CCTCTTGGTTGTAGGATGAAATCTAAGCACTGGAGTACCTTTCCTCAGTCTGGCCTTTGCATCTTGTGCCTTGCTTCATTTTGTCCCTCCTGAG
CTCACCTTGCTCTGGCCATACTGGCTGCCTCTGTTTGTTTTTCACACCAGATTTTGTACTTCAGATTTCGGTGTGTAGTACATGTTGTTCTTCT
GTCTGGAACACACATTATTTATTCCCTTCTACTGTTTTATAATCTTCCATAATTTCATAACTTTAGTTCAAGTACTTTTTTCCAAGGATCCTAT
TTGGTGCTTGTGGTAGATATAAATAGAATAATGTAGTTATTTTCTTTATTTTTTTAATTACTTGTATTTACTTGCAAGAATTTTTTTTAAAAAA
ATCAGCAATTCTTTAGGCTCTTAAGTAGAGTTCTTAACTTTATGTTCATTCTGTGAGGTTAATCAATGTTGTGGACAAAATAGGCTTAAATGTG
GTTAGGTTAAAATGTACCAGCAGTCATAATAGTGATAATGGGGCATGGGCTTTTGAGATTGTTATCTCAGGGTGAGTATGGTGACACACACCTC
TAATCCCAGCACTCAGAAGGCAGAGGCAGGAATACATGAGTTTGCGTCTACAAAGACCTTGTATTCAGGAGGCACAGAGAAAGTAATTTGATCA
GTTATGGTGACTGCAAAATTGTAATCTCAGTACTTTGAAGACTGAGATGGGAGAATTATGAGATCAAAGTCTAGCCTGGGCTACACAGTGACAA
CTAAATATGCCATTTATTAAGAACTTGATATGCAGGCTGGAGAGATGGCTCAGTGGTTAAGAGCACCGACTGCTCTTCCAAAGGTCCTGAGTTC
AAATCCCAGCAACCACATGGTGGCTCACAACCATCCGTGATGAGATCTGACTCCCTCTTCTGGTGCATCTGAAGACAGCTACAGTGTACTTAGA
AATAATAAATAAATCTTTAAAAAAAAAAGATTTTAAAATTTTTGTATATGAGACCCGCTTGTACCATGTTTGTCTCAGATGCCTGCAGAAGTTA
GAAGAGAACATCAGAGAGAGAGAGACAGAGACAGAGAGATAAGGAGTTTTACTCTGTGACTCCTGGCAATCCTCCTATCTCCCCCTTGACTATA
GGTATTTTTAGACTCGAGCCACCAACAGAGTATTTGAATGCTCTTCTACTTGCACACTTGTATTCCTCATTGTTACTTAAAATGCAATAGCATA
GCATTTGCTTTTTTCATCCTTAAAATAATACTTAAAGACCTTCAAGTTTATTACTACTTTGATTACCATCTTATTACAGACTCACAGGATATTC
TCTAGCCATTTTCATTCATCATATTCTGTTGGTTTTTGTTTGTTTGATTTGAAAATATACTTAGGGTTTTATTTTGTTCAGCAGCAGTTATATA
AACTTGATCAAATGGAAACTGATTTTAGAACTATCTTGATTATTGCTGGAAGAGAAGAAACCAAATAGTTTCCATTCCATAAACCATCTTTCAT
TGCTATATAAAACTTACCAAGTAAAGCCTCATGTGATGCTGAAAATGTAGATCAAAGTTAGGTTCTTCAGAAGAAAGTAGATTCTCTGGAGTCT
GCCTCTTTACCTGTTGAGTCACATTTTTGTTGGGATGTGTTTTGGATTTGTCTTACTCTTGGGTTTGAAGCTTTTTTTTTTTTTTGTTTTTAGA
GTTACACACCCACGGTTGACCTCAAACTCAAACGATCCCTTTGTCTCTGTCTCCTGAATACTAAGATTGAAGGCATATGCTATCCCCAGCCTAT
TTTGTGTTTTTAAGATTGGAATCTGGCAGTCTGTCTTTGAACTCCTGTGGCTAAGTTACTACTGTTTAGACACACAAAGACAGGATACTCTCAA
CTTCGCTCTCAACCTCGAACTTCATCCCCTCACTCCCTTCCTTCCAATTCCTGTCCTACCTCTCTCCTAACTTTGCCTCTCATTTATTGTCTTA
ATCCACTGAGCCCACTTAGTATTTTCTTAGAACATGGGTGTGGTGTGAGCATAGTTAGCCTCTCAGGACCTCAATCCCTGAAGTAAACAGACTC
TTCCCTAACCTAGCAGTAAAGGTTTTTTGGGTTTTTTTGGGTTTTTTTTGGGGGGGAGGGGGGGAATAGGGGTTCTCTGTGTTAACCCTGGCTG
TCCTGGCCTCAAACTCAAGAGGTCCACCTGCTTCTGTCTCCCTAATACTGGAATTAAAGGTGTACGCTACCACTATGCCTGACTTTTTTTTTTT
TTTTTTGGTATGCTTTTACTATGTATGTATCATGACAGTTCCTGCTACAGCTTCCTTTAGTGCTAGAATCAACAGGTGTGCACTATCATGCTTG
ACTGGTGTGTTTTGTTTTTTTGTTTTTTTTTTTTTTTTTTACTTTGCCACTGCGAGCAGTTCCCAGCTGAGAATACTCTTAACTTTGTGTATATA
AGCAATAGTAACTGAATCACAGAAATCTCCTTTCAGATCAAATACTAAATTTTTCTTGTATTTCTTTTCTATACTTTGTTATATTTAAAGAGAT
TAAAGATGAACACACTTTAAAATAAATGAAGAAAATACCCTGGGATTACTGTTAGTTCCCCAGGCTTTCCCTTGTGAAATTCCTAAATAATTGT
TTGCTAGAGGGACTGCGGGAAGTATTTACTCAATTGTAAAATATCAATAAATTTTTCCCTTGATTTCGGGGAGGAATTAGATATACGATCTTTT
CCAGTTCCAGGACTTCTTGTTCATAGTTTTTCTTCCTAGTGGCTTCCAAAAACAGCTTCCAGGCGTGTAAACAATCCTGATTTAAGTGCTTTCT
GTTTTTTTGTAGGATGGTAAACTTAAAAAGCCCAAGAATAAAGATAAAGATAAAAAAGTTGCTGAGCCAGATAATAAGAAAAAGAAGCCGAAAA
AGGAAGAGGAACAGAAGTGGAAATGGTAACATCTCAGCACTGGGTTAAGATGTCAGCACTTTCACTGTGCAGCCCAATTAAACAAGAGTTGAAA
TATTAAGGTTAATTTCTTGACATTTGATGGAGAAGTACTTACAGACTCTTTTGAAGAACAGATAAGTTTTCAGATCCTAGTAATTTACCAGCTC
TAAATCTAGTGGATCTCAAAACTAGTTTCTTCTCATTGAATCGGATTGAATATAGCTTATATATAGAAGGGACTTCAAAATGAATTCATTCATT
CATTCATTCATTCATTCAATCACTTCAAATTGTACCTAGTAGTATTATAATATATCAGTGTATATATACTTTATGTAATGTTTAAATCAGGCTA
AGTCTACCTATCTCATAATACATTCTATCTTTATGCTGAGAACTACCAGCATACTTTCCTGTGTCAGTTTATTATTGCTCTTAGAAATGTATTC
ACTATGTAAAGGGTTCTTTTTTTTTTTAATCTATAAATCATTTTCATAAAACTGCCAATTTGCATAGGTTTTCAGGTCTATTTGTCTTTTTTCCT
CTCTCAACTGACCTCATAGAGCCAAGTTTACTCAGATTTAAGAAAAGCATGCATAAGCTTAAAGTGTACTAGAACACCTGCTACTCTTGCAAAG
GACTTATGTTTAGTTATCTTCTCATAATCCTCTATAGCTCCACCCTCTTCTGGACAAACATCATCTTTTTCCCCAAATAATCCATCTTTTAAGA
CAACCAAAAACAAGAACAAGAATAATTCTAAACAGATAATTCTTTACCAAAAGACTTGGAGAATGGCCAGTTCATCACCTATGCTAGGTTGAAG
TTTCAAGTCTTTGGGCAAAGAAAAATGTTAAAAAAGAAGCTAGGGATAAATAATATTGTATAGGAATTACTGTTGAAAGACCAGGACTTAACAG
TCTTAACAATGACAATGCTTATGCAATACATACATGCATACATACATAATTAAGAAACCTTAAAGAACAAGCATTATCATATCTTCTCCAAATC
AGAGTCTGTTCTTCATTCTAGACAGCTTCCAGAAATCTCTAGTTTTAGATTTTTATCTACAAATCTTTATTTTTCATAAATTATATAGTCTGTT
TTAAGATACCTGCTAACACCAGGAGACCTTGACTTGAGAAAGTAGTAGGCCTATGCTGTTGCTCAGGCTGGCCTTGGGTTCCTGGCTTTTTTTC
CCCTTAGCCTCCCAAGTTACTGGAACTGTAAGCCAATCCCAATCCCATTATGTCCAATACGGAATTCTTTGTGTATTATATTAACTCTTTATAG
GATTTTTAACTTCTGAGCTATTTTCTATTCATTTTTAGACTGTTAAACTTTTTGTCTTTCCAAGGAAACTTTTTTGTTTTTTTTTAAATAAAAC
TGCTACCTAACTTGAATTTATAAGCCTACCCTTCTTTAGTTGGTGCTGGTGTTGGACTGTTAGAAGGCCAACACTACAGTTTTATTTGTATGGT
AGTACCGGTCTGTTTAAACTCAAGGTTTTGTGTTTAGTGATTCATTGAATCTTTGCTTAAATGGTAAGGAAGTTGTTATTTGTCCTGAAGAAAA
AAAACATGTTGAATTTGGAGGAATTGTGAAACATGGCTTGGAATCTTAATTTCAAAACAATGGAGTTGATGACAAGAATATAAAGGGAATGGTA
TTCTGAATCACTCCCCGGTTACTATATGACTATTAAAACAGATGAGTCACTTGTAGGTGCTTTCACATGCTTGCAAACATTTTTCTCTGATTTG
GAGAGTAGTAAATTTGAAGGTTAGGTAGTTTCTATCTGGGCATTTGACATCAGCTAGTATAATAACGTTTTATCTGTAAAGTGGTTGTTGATTA
TACAAAGTCTTTATTGTTCCCTCTTTTTGTTTTCGAGACAGGGTTTCTCTGTAGAGCTCTGGCTGCCCTGGAACTCACTTTGTAGACCAGGCT
GGCCTCGAACTCAGAAATCCGCCTGCCTCTGCCTCCTGAGTGCTGGATTAAGGGTGTGCCACCACGCCCGGCTTATTCCCTCTTTATAAAATCT
TTAAGAAAGAAAATAATACTTCTTTCTTACAATGTAATTTAGATGTATATTTACATTTTGTCATCTTATTGTAAATAAGCTGTAATGAGAAACT
GTACATCCATTAAGAGGCAACAAAAAGAAGTTTTGGTGGGACTGAAATAGAAAAATTGGAATCTTGGAGAGAATATTGTATAGAATACAGGGAG
GTACGTCTACCAATACTCAGCTTTCCTTTGTCCTTACTGCTGTTGCTCAGGCTGGCCTTGGGTTCCTGGCTTTTTTTCCTTAGCCTCCCAAGTT
ACTGGAACTGTCAGCCAATCCCATTATGTCCAATATGGAATTCTTTGTGTATTATATCAACCCTTTTTAGGATTTTTAACTTATGAGCTATTTT
CATTATGAGTTACCTCTTTTTTTTCTTGAATATTCCATTTGATCCATAGGGTTTTTTGTTTTTGTTTTTGTTTTTTAAATTTTGATGTAACCCAA
CTTATGTGGTTTTGTTGCTGTTACTTTTATATTTATTGTATCCAGGAAGTCACTGCCAAATTCAGTGTGATGAAGCCATTCCCTCTTATTTTCT
CCTAATGTCCAAATGAGCTTTAGTTTTTATAAATTAGAATTTTAATTCCTGATTCATATAGAGTTAATTTTTGTATATAGTATAAAGGACTTGC
CCCAGTGTCATTCTCTTCAAACTCCAGTGTTGAAACTCTGTCATCTCTAACCATAACATGATGATAATTCCTGTTTAAAATGACTTGCCAATAT
ATGTTGACAGTAATTTTATATAACAGTATTGTTACAGCTTAAACGGATTCATTTATCTCTTACCCTGTGATTCTGAATGTTTAAAATATGGGAC
TTGGAATTCATGGAATTAATTAACAGCAGAACAAGGCAGAACTATCCCAGCACTCAGGAGACAGGCAGATCAAGTTCAAGGCCAGCTTGGTCTA
CAGAGCTATTTCCAGGACAGCCAGGACTACACAGAGAAACCCTGTCTCAAAAGACAACAACTACAAACCCAAACCAAAACAGGAATCCATAAAA
TTCCTTTTGTGTAGAAGTAGCAGTAATAAGTTTGAGAAATTTAAAAGTAGTCTGTATGTATCAGATGGATTCTTTTACAACTCTGAGAGGGGTG

SAGRES DISCOVERY 02-31

GTAAGATCTGTTTATCAGTGTAAAGGGTGTGTTAGAGACACATCCATATGTAATGCCCAAAATCAGTAGATTTGTACTTGTAAAATACTGGATC
TCATTGGTGAATTTATAAAAAATAAAGTGACACAAAAAAAATCAATCTGATGTTATAGTTCTATACAAGATCAGTTTTATAAAGATAATTGCTA
TAATATTTATTGAACTTTCACATCCAAAACTAATTTTGAAGTGATCAGTAAAAGTAGAAATGTAATAAATTTTAATAATTCTTTGTATATATTT
ACAGTTAATTGTTTTTATATGCTTAATTTTTTTAAACTTTTTTTAAAGATTTATTTATTATTATTTATTATATGTAAGTACACTGTAGCTGTTT
TCAGACACACCAGAAGAGAGAGTCAGATCTCGTTACGGATGGTTGTGAGCCACCATGTGGTTGCTGGGATTTGAACTCAGGACCTTCGGAAGAG
CAGTCGGGTGCTCTTACCTGTTGAGCCATCTCACCAGCCCCCTATGCTTAATTTTTAAAAAATAAAATGTTTTAGAAAGATATTTATTCTGCAG
TTTATTTAGATTTTTGTCAAGTATCTACGGGATAGTTCCCTGTATTTCAGAAGTGCCTTAAACTTAGTGCACCTCCATTAGAATCTCCTCAGTC
CTCTTGCGTTTGTATTGTTGGTTTTCTTGAGTCCAGGTCTTACTATGTAGCCTTGGCTGTCCCAGAACTCTACCTTCTGCTGGTCTCAGAATTC
CACACTCTGGAACTGAAGGCATCCAGTCTGGTTGTGCTTTGAATTTTCAAATAGGGCTGCTTTCTTCTAAACTCTCACCTGCATGTGCCATCAG
TTTAGTAATGCCTCTTTTGCATGTACCACTGTGGCATATTTTATATATAAATAGTTTTATATGGGTTTTTTGAGTGATGGATGGTCTTTTAATA
CTTAGTATCTCTAAATTGAAACTGTTGAAATGAAATTTTTTTAATTACCATATTCTTTCAGTTTGCTTGAAATTGCTGCTCTTTTCAGTGAGAC
ACAGCCTTTGAATGGGCACCACAAATTGATTAGTTAATTATTTTGAATTTAATAGGTGAGGATCTTTTTACTAAGCCAGGTGATCACTTAATGA
GCTTGTGCCTTGTCTTTGAAAGGTGGGAAGAAGAACGTTATCCAGAAGGCATCAAATGGAAATTCCTAGAGCATAAAGGGCCTGTCTTCGCTCC
ACCATATGAGCCTCTGCCAGAGAGTGTCAAGTTTTACTATGATGGTGAGTTATTTCAGGTTGTTTGAATTTTGGCTAAGAATGGTTTGTTTCTA
TTCAGGGTTAGAAAATGAGGGCACTGCCTATATTGCACAGTCCTAGCTAGTTATTTCACTTTGTTTTTATTGTCTATGTGTGGCTTGGGAAAAGG
AATCTCAGGTGTTTAATTCAGAAGGACCCCTTTGCTGCTTGAAAAATATGAAAAAGGGGGCTGTTAATGTCTTATCTGTAGTCTAAAAAGGTTT
ATCTGTTTGGCTCACAGCCTATAAAATACACATTGAAGGTTTTTATTTTGAGTGTGTAACTCAATAGGAAGCTGTTCTGTATTGAGTTCTCATT
TAAATAGTAGCACTTAGTGATAATATAGTATGCCAACATGCTGCTTATCACTAGAAATTGTATTAGCAAAGGATTAGTGGCCATCATTCAGCTT
ATAGGTAAGAAACCTAAGCTATGTCACTCTAAGTAGTGCAACTGTGCCTTTGACAGGTGAATTTTAAAGAAACGCTCTGCCTAGGTCTCTTAAT
TTTATTTTTTTGAGACATTTCTAACTGTGTAGCCCTGCCTGGCCTGTAACTTGATAATATAGATCAGCTGTCCTTGAATTCAGTAGATGTACCC
ATCTGCTCCTGAGGCACATGCCACCTTATCTGGCCTCCTTGGGTCTCTTGGAACTTTCTAAAATGTCTGAGAGTTCCACATCTGTGTTTTTGTC
CTTGGGTTGAGGGATCTGAGAGTAGCCTCTCACAATCCTTCGACTGACTGTGTATCAGGTAGTAATGTCCAACTGACTCCTTCATTCTAAGAGT
TCTGTCCAGAGATGCTAGAGTTCGTTCTCAAACTCTCTATGTATTTATAATTCACCAGGTTAATAGATGAGAGGTAGGACTGGGTGTTTATGAA
TCAAATAAATGTATTTACTAACAGGGAGAGACACTGGACACCAAAATAGCAAAACCATTCAGAGCTATTTGGTGTATCTCTTTTTTTTTTTTTT
TTTTTTTTTTTTTAAATTTATTTATTTATTATATGTAAGTATACTGTAGCTGTCTTCAGACACTCCAGAAGAAGAGGGCGTCAGATTTTGTTAC
AGATGGTTGTGAGCCACCATGTGGTTGCTGGGATTTGAACTCTGGACCTTCAGAAGAGCAGTCGGGTGCTCTTACCCACTGAGCCATCTCACCA
GCCCCTTGGTGTATCTCTTTAACCGCCAGCAATGGCTTTAGGAGCATAGATGCCTGTGGGTTTAGGATGAGACGGGTTTATTAGCATCCAATAA
TTGAAATCTGTATATGAAACAAGTGAATTTTGACCTGGGTCTCATCCTTAAGATATTTTATTTCTCTCTCTCCCTCCCTCTTTTTTTTTTTTTT
TTTTTTGAGATAAGGTCTCATTTTTTGTAGTCTTAGCTGGCTTTGATCTCAGAGGCCTGCTTGTCTCTCGCCTGAGTGCTGGAATTAAAGATTCCC
ATCACTGATTACTAATAATACCCAACCTGATACCTTATTTTTACAAACACACCCCCACATACCGTCATTCTCCAAAATCTAGGGGTGAAAAAAA
TGAAAATGGAAAAAAATCACATGTTTTGGGAAATGGATGTTCAACTAATATTTTCGAAAGGTTCGGAAATGTTTATTGAATATGCTTGTGTTCA
GACACCCAAGTCCCAGATAGATAGAGACTACTGATTTAATCTATGTAGGAAGTCAGTGGCATAAAACACTTGGTGGTGTGACTGGCAAGTTTTT
AGATTAGCTAACCAGTTTGACCAGAAACTGTAAGACACCCTACACACTAGATCATTCCTGAAGATTTACGAAAATACACAAATTTAAACTTCCT
AGTGAAGAGAAAAGGCCTTAAGACCTTGAAAAAGACAATTGCTGTATTCTGTAGCCTGACCTGAGCTCACTAACTTTAGACAGCTCGCTGGAAA
AGCCTCACTGTGAAAGCCAAGGTGATGACGATAGAAAGTAGTTTTTTTTTTTTTTTTTTTTTTATTGTGGGGTTTCAAGGAAACTAAGGCCTGTG
GTCCCTACCTCTAGTTTCCTTTTCTCTGTTGGTCCTCCTAGGATTTCCTCCCTTTGGTTATAAAACTCCTCCAAATAAGTCAAGAGTGTTTGAC
TTACTAGTGCAAACTGATAAGTAAGTACTGGTAGGCAGGACATTGCTGCCTTGCCCTGGACTTCCCCCTGGCCGCCTCTGCACAGGACATGAGT
TGGCTGAAGCACAGAATTGCAGCCGCTGTTAAGGACCTGCCATTTCAACTCTGACTCAACAGTTTCTTTTTGTTTCCGGGAGCTCAACTTTTCC
CACAAAGTACTACGATGATTGCTGGGAACCTACACACCCTCCACCACTCCGGTGCTATAGCTGTTACTTAATCCTTCCACAGCCCATTTAAAAC
AAATCAAGTAGGTTCTTTGTGGGTGGGACAAAGCCAGTGCAGTGCAAAGGCTCCCCACCCAAAATAAGAACACTATTGGGGAATATTTAGTTTA
TGAAAACAAACATACCAGGGAACACATTCCTTAAAATTTCCTTATCTATTTTTATTTTTTGTTTTGAGATGCTGATTTTGTAGCTGAGACCAGT
TTCAAATGCACAATCCTCCTTTCCCAGCCTTCCGAATGCTACAATTATAGGCTACTGCTACCTTGTCTTTTTGCCCCCATTTGTTTGTTTGTTT
GTTTGTATTCCCCTCCATTATATTTGAATCATGTTGCTGTTTTGCTGGCAACTCTTGTTCAGACTGAGTGGGGAAAACAGGAAACACCTTACTC
AAAAAATCCTTTTCCAACACAGAATCTTGAGTGTGCTGAGGAAGAGCTACACCACCTATTTGCCTTTTAGGTTATGTCTTCTAAGCTGATAATG
TACCTGTAGCACAAGTTTGTTTTGTGATGTATTCCCTATGTTTCATACAGTCTGGTTGAGCAATACTACCCATTATGAGATGAGATGTCTCTCA
ATTATTACAATGAGTAGGCTTCTGGTTAAGTTTTAGATTTCTGTAATAAATTTTAATTCTTTTGAATTATTATTAGTACTTACATAGTTGTAAG
TGTGAGATATTAATCTCATTTAGAATGCAGCAAAATGCTATTGTGGCATAAATTGTTTCTATATAATATTATAAAGTTGATTTTTTTTTTTTTG
AGAAAAGATAGAAATTGGCCCTAGGAGTGCAATATTCTCTTTGAATATTTTGTAGATTAAGCTTTTAAGTACTTTTCTTTCACTGTCAGTTATG
ATCTATCTGAGGACACAAAATCACTTCCAGGATTTATTAACTATTGTAGTGGCTTTCCTTGTGAACCACAGGCTTTTTTGGACAGTCTTTACAT
ATACTTACTTGCTGCCTAACCCACCCTCACCTCATGCTGTGGAATGATTAGACTTTCCTGAAAGAAGTGAGTTCCTGGTGCTATTCCCAGTGTT
TCAGGTGCATGTGTACCTGTATTTCACTCTGAATACACTAGTGCTCCAAAAGTGCTTTTCTGGCTGGGAGGCTGGCTCAGTGGGTAAAGTACCT
GCTGTACCAGCCTGGTGTCTTAAGGATGTTTTTTTAGAACCACATCAAAGTAGCACACTTGTCTGCAATTGTAGCGTGTCCCTGTGGTGAGAGG
GGAAGTGGAGACGAGAATGGATGAGTCCGTGCCAGCTAGCCTCTATATATATATATAGCAGTGAACAAAGAGACCTTATCTCAAAATAAGATGG
AAGGCAAGGACTGACACCTAAGGCTCTGACCTTCCATGGGTACTGTTGTACACATACAACCCCACACATAGACATACAGTGCAGTTTTTGATTC
TAGGTATAGGACTGAGGCCCAAAACTTGGTATTTATAACAAACTTGCTTGTGATGGTTTTGGTCTGTGAACTACTTGAGTAGCAAGGTTCTAGA
GGAAGGTCTTATTTACGCTTTTTATGTGGGAAATCTGGGCTTGCCTGCTATGAATATATATTCTTATTCATATTCCACCCACGTAACTTTGAAG
AAGAAAGATGCCTATTTCTTTTCCCCACAATTCCTTTCTTCCACTCCCTGCCCCTATCCTTTCCTCCCCTTCTTGAACAGAGGCTGCTTAGCTT
AGCAGTGGCAGGAGTCCTTCTGAGGATTTGATTTTTAAAAACCATTGAAGAGGTGTAAAGGACCCTGCTTGCTGAAAGGAAAAGGAAGAGTGGC
TGGGCCTTCCCCAGGTCATCCCTGTCCTGAGCAGGCACCTGGGAACAATTAACTGGCATAGTCTCCAAAAAAAGACCCAGGTAAATATCTACTA
AAGAGAAGGAGAAATTTTTAAGTAGATCTCTGACAGTATGTTACTCTGTTGTTGTTATCACTGTGTGTCAGCAGACCTTTGTACACCTTGGAAA
GGTGAGCCATCAGTCATGACCTCTCCAGTGTTCAGTGCACATAGAATATGAATAGTGTGCCTCACTGTTTGGAACCATTTTCTTCCTTCAGGTA
AAGTTATGAAGCTGAGTCCTAAAGCAGAAGAAGTAGCTACATTCTTTGCAAAAATGCTTGACCACGAATATACTACTAAGGAAATATTCAGGAA
AAATTTCTTTAAAGATTGGAGAAAGGTATTGTGGCCCATGTGTTCATATCTTAATCATTTATAAAAGTGCTGACTTAGAGGTATAGCTCATTTG
TTAATGTCTTGTTTGTTTAAAAAATGCAAAGTATAGTTTAATGTATATCTTTTTTCCCTTACTATTTTAATGTGGTTTTTGTTCAACAAGAATA
TATCCCTTCTCAGCTTTCATGTGACTGCAGGAAGGAGCTTATCAGATTAGGTTAAACAGAAAACCTCAAATCCAGTTGAGCAAAGGAAGCATTG
TTTCTGCAGGGACTGTCCTCTGATGCCTTTACACAGGGTCAGTCTGACCATCTATTCTGTATTGATATAAAAAAGTACCATTGTTTTCAATTTG
GATAATTTTGAAAAGAGGTTGAATTAAAATTCACCATCCAAGGGCATTCTAAATTTAATAAGAGCAGATTAGTGTGCATGGGAATAAGAAAGTA
TTTCTCTTTATTGCTAAAGTAATTGATTAATATAGGTCTCTTGGATTGGTGTTTATATGTTTGAGTTTGTGTTTTTGTCAAAGATCGCTAAAAA
ATGAGTAATTTTCTTTGATAAATGACTAATGATATTTTATATGAAACTAATCATCTTATAACAGAGCAGCACCACTCCCCAGAAGCAATGGTTA
TTGAGGTTGGCTTCCCTTCTAGACACCTTTGATTAAAGGGGAAAAAGGATGAATTTTGAAGAGACAGGAAGACTTATTAATATATTTAATTTTC
TTAACCTTTTTACTCAATTAGGAAATGACTAATGACGAAAAAAATACGATTACCAACCTAAGCAAATGCGACTTTACACAGATGAGCCAGTATT
TCAAAGCGCAGTCAGAAGCTCGGAAACAGATGAGCAAGGAAGAAAAATTGGTATGATCGTCTGCTAAACTAGAAAATCTTGGATAGTGATTCTT
TGTATAATTTTTTGCTTCTTGTGACACAACAGTGAATTCATTACTTTTATATTTTTCTGTGTTAAAGATTTACTTAGTAAAGTATAATTACATG

TATGTGTTGTGCTAACTGGCAGCTATCTGTGTTGGCACATGCCTGTAATCTCAGCATCTAGACTTGAGCAAGAACTATGATGTCTCCACAAAAC
AAACAAAATATTGCATTAGACTTCTTTAAGTTCATTTTATCTGTAGTTTTCCAAATCACTGAAAAAAAGTGATTCTGAAAGTGTGCATTAAATT
TTACACTTTCACCATCAAATGCATGTTTTATGGACTTATCCCCTACCACAAAATAAACCAAAACAAAATCCATGACAGTGTTGAAACTAAAAGG
GAAAAAAATTGCTTTATACCCTTTTGTGAGTCTGTGTTTTGCATTCAATCCTTCTTTACTACCCAGCATTTACCTCTCCTCTTTCTAAGGCTCA
CATTTAAAAATACCTAGGAAGGGCTCAGTTGGTACAGGGCTTTCCTAATGTGTGTGGAACCATGATTTTGCTTCTCAGCACTGCATAAAACCAT
GTGTAGTGATGGTACATGCTTAGAGTGTCAGCCCTTGGGAAGCGGGGGATCAGAAATTCACTGTCATTCTCAGTTACATAGAGAGTTTGAAGAC
ATCTGGGGTACATGAGACCAGATACTTAAACTAAGCTACACTGAAAATAAATGACATTTATAAGTCTATACCCTTTGTAATGAAGATTAAGTGT
TGAAGCACTAGTTCACTGGTAGACACAGTTCTGTAATACTACAAAAGACAAAAGTTGAGAATCTTATTTGTGTAAAGTCAGTTATTCTTGATAG
ATCTTTTGGCAGTTTATTTTATATATCTGTAATAATATATGTACGTTTAAAATACACTAGACATTTTCCTATATTTTAGTTTGTTTCTGAGTGA
TTTTAAACTTTACCTTGATCTTTCTTCTGCAAGAGATAAAAATATGTAATTCTTAGCATGTAGGAGTTTGAATCCATTTTGTATACTTCCTTGG
TCTATTTTAGAAAATCAAAGAAGAAAATGAAAAGTTATTGAAAGAATACGGCTTTTTGTGTAATGGATAATCATAGAGAGCGGATTGCCAACTTC
AAGATAGAGCCTCCGGGGCTTTTCCGAGGCCGAGGGAACCACCCCAAGATGGGTATGCTGAAGAGAAGGATCATGCCTGAGGACATCATCATCA
ACTGTAGCAAGTGAGCACAAAACTCTTTAGGGGGGAGAAGTGGGTGCAGGGCTATTTCCTCAAGGCTGGTTATTGGGACTATTCCTAGTGTTAT
GAGAGCGGTGCAGCGCTTGCATGGGCAGGTCTCCCAAGTTTGTTCAGGATTGAGGGCAGGATGAGAGGGGACATGGTTTGTCACTTTTCATTTC
ATTTTCTTTCTGAATGGTTATGTTCATAGAGACGCAAAGGTTCCTTCTCCCCCTCCTGGACATAAATGGAAGGAAGTCCGACATGATAACAAGG
TTACTTGGCTGGTCTCCTGGACAGAGAATATCCAAGGTTCTATCAAATATATCATGCTGAATCCCAGTTCACGAATCAAGGTAAGCATAAATCT
AGGCCACATCCATTGGTGGAGCTAATATAGTAATCTCATTCTCTTTTGGTTGTATTGTAATGTGCTTTCTAGACTCATTTTAACAAATGATACT
CATTTCAACAAATTAAAAACCTACCCTCTCCCTGGCTTCATGGTTAGTTAGCATTACCTAGTAAACTCTTATTAAAGATGTTTTACATTTGTGT
CCTATAGTAATCTTAGCTGTGGACATTCTCTGAAATCCCATTATGTTCTGAGTGAATGCATGTGGTAATAATGGTTGTGCAGGTGCTACTGTCT
GGTGGTCAGGATGTGATGAAGTGGCTAGTAGGCTTATGTGAGAAATGTAGATACTATTTTTCTCTAAATATAGAGACAACTATAGGACCTAGAG
CTTTATATACTTTATGTTTTCTGATAAAACATACTTTGTCTCATCTGAGTAGGTTCCTTTAGGTTGTGATTGAAATATTGCTAGCCCACCATGT
ATACATACTCAATTGTTTTCAATTGTTAGATTTACTGAGAGGGACTGTCTCTGATCTTGTTAGCCAGGTAGCTATAAACTCTGTGTTCTTTAGC
ATTTTATAAGCTCCTTCCATCAGACTTTATGGATATATGAACTACAAATAAAAGAGACATTGGGTTCACAAAAAAACAGCCAAGAAAATTGGCT
CTGTGTAGCCTATAGAACTGTTTTCCATTGAAGAGTCTAAAGCTAAAGAAACCCTTGTTCCTAAGGATTTAGCTTCTGTTAAGATCCAAGAGTC
ACAGATGAAAATGCTATGTAAATTTACATGCTTTCTAGCTTATATCCTGTGTTCTGACATGTGCTCTACCTTCTTAATGAAAAATACCATCTG
GATACTTTCTTCAAATAAATTGGAAAATAGTATCTGTTTCAGAATAAGAAAATAATCAGAAGGGAGAACTGAGACTCCTTTATTCCTTTCTTCC
ATGAGATAGTTTACAGAACTACAGAAGTGGGTAAAGAAACCATGTTTTTTTTTTTTTTTCTTTATGGGTGGGCAAATTGTGTAAGGATCCAGTT
GTGTTAGAAGAAAGGTAGTCGTTCTTGTACATAAGAGTAGTTATTCTTAACATCAGAATGGACTTTTTAAAGGAAATTAGATTAAAATGAGCTC
TTTAAAGAGGTCTTCTAAATAGACCCAGGTGCTTATGGACAAAAGAGGAAGGTAAGTTGGTCTACAGGGATGTGACAAGTACCACACAGTGTCA
AGTAGGGCTGGGGAGGAAGCTCAATGGATAAGAATCCTTTTTGTAAAAAAGACCTGAGTTCACCTCTCCAGCACCCACATAAAGCTACACATAG
CCATGCAGACTTCAGTGTTGGGAACTGTCAGAAGCTAGGAGCTCCTGGCTGATTGTGGTCTTCAGTTTCTTAATCAGGTGGAGGGGCTAACGAG
ATAACTCAGTGGCTAAGTGTACTGGCTATTTTTCGTGATTGCCGGTGTTTGATATTCCTAGCGCCCATACATACAACAGTATGAGGTAGAGAAT
CTCCTCATGCTTACAGAGTTGTATGCCTACATGCATACATACATACATACATGCATACATGCATACATACATACCACACCCTGTAATGTGCATG
TACCACATATACCACAACTACCAAGTAGTAGTGGTTCTATATATAATATTATTAATATACTAAATGTCACATTAATGGTACATTCTATATATAT
ATATTCACCACAGTCAGTATATTGTCAGTCTGTGATGAGTATTATTTTAGTGTTAAAAAGCTTTTCATGTAAGTTGACATTTAATAACTATTAC
AGGCATATATTCACAAATAAATTTAGTCTGTGGGAATTAAAAAAAAAGTCCTACATCTGATAGCTGGCAACTCTTCTCAGTCTTCTTAGAATGT
AATTTAGATCTCCAATCTCATGCTTTCCCATGACATCCTGGTGTCAAATTGTGGCCAGTCTTAAATAACATGCCCAAGAAGACGGTCTTCTGTT
CCGGGAAGAGAACCCTTTAAGGACTTTGAATGAAGGCTCTCTTAAACATGGGTTACCAATTTCAGCAAGATTAGCAAGTTATTACACCAATAAA
TATAAACTACGAGAAATGCTGCTGCACAGAAGTATCAGTACCATTTAAGAGCATACCTCAGTGCTCAATCTTAGCTCAGTTTCAGGAAAGGCTT
TTCCACAAAGATAATATTTAAGGTTGTATTTGTGAGATGAATAGGAATCTCATTTGCCACTGGAAAGAAAAACAAAGGGAATTAGCATTTCAAA
GAGGGAATGAGAACTTTTCAAGTTTCTGCCATGAGAAAGAGCTCACGTGTTTGGAGAACAGAGTGCTTTGAGCAGTAAGAGAAATGAAGAAGGC
CCCGCAGAAGCAGACAGGCCAGGACTTCAGTTCCAACTTTTTAAATGAGTCTAAAAGGAAGCTACCGACCTAGACAGACGTAAAGAAGAAAATA
GGACTGGAGTGGTGACATAATTGATAGTTTTGACTACTACTTGGTGTATGTAGCCTGTATGTATTGAACACAAACAGGAAGTTAGGAGGCCTCT
AGATAGCTCTTCTTCAGGCAAGAAACTGTAGTGATCAAGGCAGGTGATAGCAGTGAGAGTGGAGGAAAAGGAGTAGATTTCAAGTATGTGGCTG
TTGTGTCCTCCTATAGGCAAAATCACAGGAAACTGTAGTTCTCACAAGAGTGAGATAGATACCTGCTAGGCAAGCCAGAGCAGCACCCCAAGGA
CAGAGGTGCTTAGTCTAGGCAGTAATAACCAGATAACTGCATAGTAAGGATTTTTCTAGGTTTCTTCAAGATGGTTTTGACCGTAAACTTGAAA
ATCACCCCATGATAGAATGCTTGACTTGATACAACTGGGATGAGATTCCAAGAGTAGTCATCACAGGTCTGGAAAGGTGGAACTGCTGGCAACC
AGGGGTGAGGAGGCAGTGCCTGTGGCTTCTTGCAGTTGCTCTCAGTCTTGTCATAGGCTCCTTCATCTAGCAGAATAGCAGTGGCTTCAGAGGG
AAGAATATGATAGCACCATGAATAGTGTACTGCTACCAGAGAATTATTCCATTCTTAAATAAAGACATAGGTTCAAGCTTTAGGATTTTTTGGT
GGGAGGGGGCATGGGGTTGTTGTTGCTGTTGTTGTTTTATAGGCTTCTTTATTTTTATGTGTGAGTATTTTGCCTGCATAATGCATGCATACTG
TTTTATGTCCCTTGTGTTTGCAGAGTCCAATAAAAGGTATCAGATCCCCAGAACCAGAGGTAGTTAGGGACAGTGGCAAGCTCTTCATGGGTGC
TAGGAACCAAATGTACTTCCTTTTTAAGGGCAGAGAGTGCACTTAGTCTCTGAACAATTTTTCTAGGTCTGAGTTTTCTTTTAATGAAATAATT
CAAATATGTAAGAATGTCTTGTCTGCCATTGTCAGATCTTAGCACTTTGTCCAATATACTCAAATCAGTTAATTAAAAAAACTACTCTTGAAGG
GGGGTTGGTGAGATGGCCCAGAGGTTAAGAGCACTGACTGCTCTTCCAGAGTTCCTGAGTTCAAATCCCACCAATCACATGGTGGCTCACAACC
ACCTGTAATGAGATCTGAAGACAGCTACAGTGTACTTACATATAATAAATAAATAAATAAATCTTAAAAAAAAAAATACTCTAGTGGCATAGCCT
TTATTTAACCTAATACTTGGGAGGCAGAAGAGTCGCTTTGAGCTGGGCATGGTGGCACACGCCTTTAATCCCAGCACTTGGGAGGCAGAGGCAG
GCAGATTTCTGAGTTCGAGGCCAGCCTCGTCTACAAAGTGAGTTCCAGGACAGCCAGAGCTATACAGAGAAACCTGTCTCAGAAAGAAAGAAAG
AAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAGAGAGTGTGTGTGTCGCT
TTGAGTCTAAGGCTATCCTGGTTTTTGTAGCAAGTTCCAAGCTAGCCAGGGCTACTAGGGAGGCCTTGTTTTTTTTTTTTTCCCTAGATTCTGA
GAGATTTCACATGTTCCATCAAGTGTTACCATGCAAATATACACATGGAGGATTTATGGGTGGCACTAACTGTTCATAAAACCAAAAACTTGAA
GTAGTAGGGGGGCATGGGGGACTTGAGGAGAAATGGATGATAGATATCATTTATTATATAAATGTATGAACATTTCAAAAGTAAAGATAAAAT
ATGTGGCAATTCAAATTATTTTTTAAAAGCTGGGCATGGTAACACTTGCTGGTAACTCCAGCACTGGGGAGATGGGAAGGGATCCCTGGGCCTG
GCTTGTCCAACAGTCTGACCTAAGTGGTGAGTTCTGGGCCAGTGAGAGACCCTATTTCAGGTACAAGCCTCTGAGCAACCAGCTTGAGTTTGTC
TTACTCACAAACTCAAAGTATATTAGCAAATGGCATCTTCCTCAGTACAGGTCCTGTGAAGAGTTAAAAGCAAATGACTCACTTCCTGTTCTGC
CTATATTATTGAGTGGATAAGTATCTACATTTAAAAGAAGTATGGTGGCCACTGGTTTATAACTATCACTAACTAGTTTTTTCTCCATTATGGA
GAAGTTGCCAACTAGGGAAAGAGGAAAAGGAGTCAGAGACTCCTACAATATCTACCTTTGTTTTACCAAACTGATTTTCTACTCCATACTAGTA
ATGTGCTGATGTAGTAATAGAATTTGAGGGAGCACATTTCTGCCAGTGTCAGGAAGGTACTTTTTATGATGGCTTTGATGTGACTCCCTGGAAG
ACCTAGGTGGGTATTTTTTAGAAGCAGTCCTAAAGGGTTTTGAGTCTATTATCATTTTATAGGTTCTGATCAGCAGCGCTGTAAGCCACCAGGA
TAAGCGTATTTGGGAACTAGCCCTTGCCTGCTAGCCCTTCACAGGATGTCTCCTCTTCTTGATCCTCATCCTAGTGTTCTAGAGAAAACTTTGA
TTTGTTCCAGGAGGCCAATCATGTCAAGGAAACACTCTTTAGTGGTTTCTTCTATAAATTACTTACTTGACTTTCTCAAACTTTGTCTGCCTGA
CCACAACCAATGCTTATGTGTTTTGTAGTGGTGAAAAGAGTCCACTCCTGGCTAGATAGTGTATTTTAGTGAGTCTCTCAGGTGTCTTGGTGGT
GGTTTATGTAAGAAATTGTGGTAGAGGTACACCTTGCTTTGTAGCTTTGTACCAGGAGGATAGCTTGTATTGTACATTTTCTAATTTATTCTCT
TAATGTCAAGTTGGACTTAGAGAAATCAGAGAGAAATTTTCAGCTTCCTGAAAGTTATTGAACCCCTTGTTTAAAAGCCAAACAAGCCCATACA

AATAGTACACACTCAGTTGTGAGGAAATGTTGACGACTCCCTAGCACATCCAAAAAAGCATTACTTTCTGAGCATTTGTTAAGATCTGGAAGTA
AGCCTTTTTATTCCATGCACCCCCATGCTTTCATGTGGTCCTATGGGTTAGGTCCTTTTGTCTTAGGTGGAAAACAATATACAAAAAGAAATCA
CTACCATCTCCCTCTTTGTTGTAGGATCTTTAAATCTCATGTCTGTGTAGGGGCATGTGCGTTTGAGTCCTGCAGTGTGGGAGGCATTAGATTCC
TCTGGAGCTGGAGTCACAGGTCACCTCTGATATGCGTATTGAGCACAAGTCTTCTGGAAGAGAGCAGCATGGGCTCTCAATTGATAAGCCATCT
CTAACCCCAGATTCTTAGGGGATTTTCACCTTGTAAAATTCTGCCTTGTGGAATTTCCTGATCTTTCTCACTTGACATTATTGATCCTTGCTT
TCAAGTCCTTTTCTACTCAGGGTGGTAACAGAAATCTTTTGTTGTTTAATATCAGTCTTTATTTTTTTTATAATATTTTTTATTTAGTATTTAT
ATATTTTACATAATGTACAACTCCACACTTCCCAACTACTACCAGATTCCCTACACACATCATTCTCTCAACTGTGACTCAGTTGAAATAGTGG
TGTCCATATATGCATACATAGGGGCTGTCCAATGGGGTGTGGGAAAGCTACCAGGTATCACACCTCAAAAGAGACCACTACAAATACACACTAG
CAGCTATCAAATGTCAATAGCTCCTCAGCTAGGAGTTGGGGTTTATGTATCCCTCCCCATTTCATGATGGAATGTTGATACTGTGCAAGCAACC
AGAGCAGTTCCTGAGTGCAGTGTGGCCCTACCATGTTTAGAAGACACCTTGGCCCCAGTCAAGTTTGTACCTCTTTAAGTCTTTCCATCACCTT
TTCCGATGCTTCCTGAATTTTGAGGTCAGAGTGTGTGATGTAGGGGTTCAATTCATGCCTGAATATTTCACAGACATTCTGTTCTCTGTAATTT
GACCAGTCGCAGCCCTGGTATTAACCAAATCCATTGCACAACTCTTCTGATGAGGACCAAGTCTGGGGGGTGTACAGATATGTGTTTAGAAAGCA
GCCTGGTGCCATGTCCATTTAGCAAAGTCTCATCAGTGCTTTTCTTAACCCATCAGACCTGTGAGTTCCCCAGCTATAGGTTCTCAGATAGGTT
TATATTACCAAGCACGTGTGACATTTTCATGGGCTTTAGGATCAGATCTCAAACTTTATGCCAAAAGCTCTTTTGTTATGTTTTTAAAGAAGCC
AGGTAGTCGTGGTTGGTGTACACCTTTAATCCTAACATTTGGAGGCAGAGGCCAGCAGATCTCTGAGTTCAAGGAAGCTAAATCTATGGAGCTA
GCTCTAGGACAGTTAGGGCTATATAGAGAAACCCTGTCTTGAAAAACCAAAGAAAGAAGGAAGGTGTTCCCAGAAACATTTTTTTTCTCAGTCA
AATCAGAGACCATTTTAAATGCAGAAGTGAGAAAATGGTGAATAATTACGCCTATTCATGGAAGCTTTTGTCTTCCTTGGTAATTACATGTTGT
TGTCTTGGGTTCTGTTTCTTTGATAGGTCCCTGAAACCGCTATGGCTGTCTTGAATTTAATGGAATTCAGTGCTAGCAGAGAACTGGAGCATGC
ATTCCACAGCAAGGCTGTGGTGCTTCTGAAGCAATGGAGATGCTTACATCCTTTATGTTGACAGAAGTCAGTTTGGGGGCATGCTTGGTGGATC
TCACAAGAGTGGGAACCATTTTTTAGATAGGAAAGCTTTCTTAGCAATTATACAGGACGGAGTCAGTAGAATAGCAAGTATTCTTGTCATGTTA
CATGCCCCAGACTTTCTCTTCAGTTCTATGCTTTTCCAGCTTTGGTTAAAATCAGGTTCCTGTTTTGGGGTTCAGAGCTCTAAATATTCAATGT
GTTGCTCCACTGCAGGGTGAGAAAGACTGGCAGAAGTATGAGACTGCGCGGCGTCTGAAGAAGTGTGTGGACAAGATCCGAAATCAGTATCGGG
AAGACTGGAAGTCCAAAGAGATGAAAGTTCGTCAGAGAGCTGTAGCACTGTACTTCATTGATAAGGTGGGGACATGTTCCTTTATCCACATTGG
ACAGTTCTGTTTACAGGTATAGGGAATGTCTACAGTATAGGGATCAGGAATGTATATCTGCTGTGTGACTTATAATCCAAATTTACTTAAGTAG
GAAGAGTAGATGTGGATACAAAGAAAGAGGCATGTACAGTATGTTGGCTATTGAGCAGTCTCTATAACAAGAGGATCTGCATAAACTGAACATT
ATTAGTTAGTTTGTTTGTTTGCTTGTTTTTGGTTTTTCGAGACAAGGTTTCTCTGTGTAGCCCTGGCTGTCCTGGAACTCACTTTGTAGACGAG
GCTGGGCTCAAACTCAGAAATCTTCCTGCCTCTGCCTCCCAAGTGCTGGGATTAAAGGCGTGTGCCACCACTGCCCGGCTGTTTGTTTTTTTAA
TAACTGTGATGCTCAAGATTTTTGACCATAATCTGCAAAAGTACTTACTTTATGTCAAAATCCAACATAACAGTTTTATTTATGTGAAAATAAA
TCGAAAGTTGCACAAACCACTGGTTAACTAGTAGCATTGAATTCTGGTGGTTATTTCTCATTTCATTCTTTTAGAAAATGACAATTATAACCTA
TACAATTCTTAAAAAAGTGTGATTTATGATAATTGCAGTTTGAAAGATAGTTTTTTTTAGTGCTCAGATTTTTTTCTTCATTTTACACTTAAATT
TTAGCCCAAATTCTGAATTCACACAAAATTGATAAGTTTTTAATCTGACTGTTCTCATGAAAATATGGTCTCATTTGTTGCCTTGTTTTAATTT
TTTTCTTCTTCTATCTCTACTCTAAGGATGGAGTAGAGAAACTTGGGTCTCTGGGTATTCTGTGACTGACCTACCTACCTACCTACCTAC
CTTCCTTCCCTCCTTCCCTTCTTACCTCCCTCTCTCCCTCCCTCCCTCCTCCTTCCTCCTCCTCCTTCTCTCCCTTTCTCTCTCTGTCTCT
CTCTCTCTCTCTCTCTCTCTTACTCTTTTATTTGTTACTATATTTAAGTACACTGTAGCTGTCTTCAGACCTGAAGAGGATGTCAGATCTTA
TTACAGATGGTTGCAAGTTACCATGTGGTTGCTGGGCTCTTAACAGCTGAGCCATCTCTCTAGCCCTGTGACTTTCTTATGAGTTGAGTTTCTA
AGTTATGTAGACTGATGTTCATTCCATCTACAAAATTGGGGGCTTCTGGTTTAGAGTGTCATTGAGATTATATGTGGTCTATGTTTCTTCACTC
ATCTCTTTCTGAACAACTCTGTTCCCTTTCTTGCACAGCTTGCTCTGAGAGCAGGCAATGAGAAGGAAGAAGGAGAGACGGCAGACACTGTGGG
CTGCTGTTCACTTAGAGTGGAACACATCAATTTACACCCAGAATTGGATGGTCAGGAGTATGTGGTGGAATTTGACTTTCCTGGGAAGGACTCA
ATCAGATACTATAACAAAGTCCCAGTTGAGAAACGAGTAAGTTCATGTGGCCTGTGCTTCTTTCTCTAGCTTGCTCTTTTTACATGTTTGTTTA
TTCAGCAAATATTTTTTGAGGGCTTTTGCATGTTCTGCATTTTGATGAGCTCTAGTAAAATTGATCTCAAAGAAAGAAAAGAGATAATATTTGG
TATATGGTGTGCCTCATTTCATGCCTGCCCTGCAACCTCTGCTACATTGCTGGGAACCTGTGGCCATCTCTGGAAGCAGTTTATAACAGAGTCT
GCAGAGAGTTAGCCTTTATAGCAAACTCAATGTTAAGATTGAACACAGCCGCTTTAGTGATTTAAGCATCACAGCATCTGCTGATCACTTGTTA
TCTTGTGGTTTTTCTTAGCCCCAGTCCAAGCCCCAACTGAATAAAATGGTAATCTTTCAGTTCTCAGTCTCTGAGCTCATCTCTGTAGACCCAT
GAGATAGACATAGGTACCTACTACTTTCGCCCATTCGATAACAGTGGGTGCCAGTTCAATCGAGTAACTAGGGTAAGCATAGGTTGGCTATAAG
GGAGTGTTTTTGTTCTTAGGAAGTAGATGCCAGGATGTTTGATGCTAACAAACATCCTATTTGAGTTACAATATATACCACAAATGGCTGAGAA
CTGATACTTAGGTATTTATGTAAATTTACACATGCAGAACAAGAATTTGGGTATAATATATATAGGTTGTCTTTCTACCTTTTCTCTTTTTTGA
AAGTTATTGTGAGTTTGAAATTATTTCTAAAAAATTTTAAAATAATAATTGGACTTGTTTTAGGTTTTTAAAAACTTACAACTGTTTATGGAGA
ACAAGCAGCCTGAGGACGATCTTTTTGATCGACTTAATGTGAGTAAACACAGGACACTAGGCTAAAGTCCAAGGCAATCTCAAGCTCCTGGGGT
CAAGAGTTGTCAAAGGGTATTTGGACTGTCCATTCAGTCTAGATTGTCCAGTGACATTCTACATATCCCTCCTCCCTTGGGGCACTCAGTCATC
TGTAACCAGCAGCAGACCCTCCCTCCTCCCACCCTGTGGGTGGTGCTGTGGATTCCTACCAAAGCTGCAAGGCAGAGGGAGCTGAGCTTTCCAT
GGATCTTCCCTCTTCCTTTCATCCTTTCATGCTTTCATGAGACGCCCAGCTGCCTTTGCTACAGACCTAAGGCTTTCACTTGCTTTCTTTACTG
GGAGAGATATTTATAAGAAAGAAAAAATTTGTTGTCTTGAACTTAAGATTAAAGTACTTTATAGAAAGGCACTATGCAATCCTTCCTGTATTCT
GGAATTATTTTCCCTCTTTGCTAACTTCCTCTGTGAAGGACAGGACAGTAACTGGCAGGATGGTGGCAGCACTGGCACAAGGACTCCTAGTATT
CACTGTAAGGGAAAGGGTGATTTGGTGTTTACCTCAGTTCCAATATCCTCTTTGTTGTCGTGTTTAATGCAGACTGGTATTCTAAATAAACATC
TTCAGGATCTCATGGAGGGCTTGACTGCCAAGGTGTTCCGTACCTACAATGCCTCCATCACACTACAGCAGCAGCTTAAAGAGCTCACAGCCCG
TAAGTAATACTCTGTATGGTTGTCCTTGGGATGGTGCCAGTTTCCTTCTCTTCATTCTTTCCCGCCAACCTCTTGAAGAGGCTTTGCTGTCTAA
GCAAAACCAAGGCCTTTCTTCCCACTGCTGCTGCAAACTCTAGATTAATCTCATAGAATACTAACAAGAGCTTTGCATCTGGTCTAAAAATTTT
TATGTTTTATCTGTGTTACTTACAAGCTCAGAGGGTATAGGCAGTGGTGTTTAAATTGGGGAGAATAGAGTTGTCATGGTTACCAGAAAAATGTA
GTAGTAAATCTTTTTCTTTTTTTCTTTTTGGTCTTCATAATAGTATGTAATAATTACCTCTGGGACCTTAGAACTTCTTTCCTCTCCATTTAA
AACAAACTCTCACACTGTAGCTAAAGGCTGGGCACATTCATCATGTGATCCAAGCTAGTGAACCTTCTGCTTCAGCCTACCCACAGCTGAGGCT
GTAGGCAACCCTTCTGCTCCTGCCACTTGAATTTCCACTGCCTTCTATAAATGTATCAAATGCTCTTAGACGAGCCAGAGATGGTATGCTGGAG
ATCAGTAATTAGGATTGGTTTAAACAGTGGCTAAAAAGCCTGGATGTGTTGGTGGCAGCCCAGCACTTGGAAGCAGAGGCAAACAAATCTCTTG
AGTTTGAAGCTAGCCTGGTCTATAGAGCAAGTTCAAGGACCCTGTCTTAAAAGAACACCCATCCCACTCCTACCCCTCCACAAAAAAGAAAG
AAAGTCAGATCCCTAGAACTAGAGTAATAGATGAAACCAAACCCAGGTTCTCTGCATGAGCAGCAAGTATTTTTTAACCACTGAGCCTTCTCTG
CAGCCCCTGCAGTATAGCTTAGGATCCCTTCATCTCATTCTCCTGTAGTCATTTCTTCTAGCACAGCTGCAGCATTTGCTACATCTGCCTAGTA
AGTGGGAGACAGGGAATAAGAAAAGCAGTATAAAGGTCTGGGGGCTTTGGGTTTTTGTTTTTGGTTTGTTTGGTTTGTTTAAAGATTTA
CTTGTTTTATGTGAGTACACTGTCACTGTCTTCAGACATACCAGAAGAGGATATTGGATTCCATTACAGATGACTATGAACCACTGTGTGGTTG
CTGGGAATTGCACTCACAACCATCTGGAAAGCAGTCAGTGCTCTTAACAGCTGAGCCATCTCTCCAGGCCCAACTCTTGAAGTTTTTAAGAAAC
AAAACCAAAAATATAGATTTCCCTGTAATGTAGACAAGCTGGGCAGTAGTTATAGCTATTCAGGAACTTAGCAGTTTAGAGACCACCTGGACTT
CATAATGAGACCTGGACACAAAATCCAGTAAGGGTAAAGAAAAATATAAAAGAGAGGCTCAGAATTCCTCCTGTGACAGAAACTCATTCAGGTT
TATGTAGAAATTTACTGCCTTTGACTCAAATGTTGACCTTGAAACTTGGTTATGATAAACTGAAGGTTTGTAAAAACATCTAGAATGCATTTCA
TGTGTATATTCTTGGTATACAAACTGACCCAGTTACTATTATATTTCTTTGTAGCTGATGAGAATGTACCAGCGAAGATTCTATCTTATAACCG
TGCCAATCGAGCTGTTGCAATTCTTTGTAACCACCAGAGGGCGCCACCAAAGACCTTTGAGAAGTCAATGATGAACTTGCAGTCTAAGGTATGG

TGGGTCCAAAGGTAGGGTAGCAAAGGGAGTCCATGTCTGATGTCTTCTGACAAGCAGAGGCTTCTGGAATCTGACATAGTATGGCCTGGGATAA
CAGCAGGCTAATCTGGGTCGGTTTAGAAAGATTTTTTTTCAACAAATGGAAATAATTTGATAGTATCATTGTTTTTTTTTCCTAAAATATTTGT
GCTGGAGACACAAGTTCTCTATGAGCCACTTTCTGTTTTGAAGTGCTAACTTTGACATACCACTGAATTGCTAGTTGTTGTCCTTGTTATACTT
AGGGAAAATGGAAATCTTCGTGGTAGAATGCTTGCCTTGTGTGCAGCATGCTCTGGGCTCCATCCCTAGCATGACAAAAATAAAGTCTCGGTGA
TCTGGCTAAGAAACATGACAGAAAGATACACCTCAGTGGCAGAACCCACCTTTGCTTGTCTACCATATGTGAAGCCCTGGGCTTGATCCCCAAA
GCAGAAGCAGGGGAAGGGAGAGGAATCCTGTTACATTGTTTGAAGTTTAAAAGATGGTGAAGCAATGGCATTTAATTCGCTCCTAATCCTAGAA
CAACTATTTACATCGGTTGAGGTGTGTCAGATATGACTGTGTCAGGTTGTGCCCTATTGGGAGAGACTGATACGAGAACAAGTTGTTGTTTCTC
TCTCGGCACTGGCTGCTTAACTATGCATTTAAATCCACAGTGAACATGTTAAAACAGACACACAGGGTTACAATGGAAAACATTTAATACACAC
AGTCTGTGGCTTAGGAATAAGTATCCTCATTTAAGATCTTGAGGTGATCCTAACAATTATAAAGTTTAAGACAATGATAATAAAAGTGACATTT
CCAGAGTTCTGCAACACTGCAATGCATAACAGGAAAGTATTCACCATCTGTTGGCAATAGTCACAAGACAAGTTATTTCTTTGGATTCTTGCTC
ACAGTTAAAGAGGAAATAATGTCAACTAGAGAGTAGCCAAAGTACAGATGCATTTTTTTTTTTAATCCAAATTTATAGAATTCTATACTTGGACA
ATTTACTTTTAGAAACTGCTTTGCAATGAAACTTAACACATATTTTCAGGCTTAGAATATTCCCCTATTGAGATTTCTGCAAGATGAGAACACA
GGCATAATGTATATTAATCTAAAGCTACAACCTAGAGATTCTGATACCCCTGGCCTGAAAGGATCTCCAGATCCACAGGGAGTGAATCTCAAAT
CTGCACCTAAGGTCAGCAAAGGACGACGGTCAGCAAGCTAAGAACCCCACAGACTGCCTTTTGAGCATGAGCCTTTGCTTTGCCCTGTTAGATG
GAGATCCTCTGATGCTGCTTACTTTCCTCATGTGTTGTCATTCCAAGCCCAGAATAAATAAAGTATGAGTACCAGGTGCTATTTACACAGTTCA
GGAGACCCTTCCTGGAGAATGAGGAGGTCATTTGTTGCTCTCATTTGAAACCACTGTTTGAGCAGCTCGGGCTGTCTGCCAAAGAAGCCCTCCA
AGTGTAGGAACCTTCTCCAGTGTGCCCACAAAGTAAACACACGCCCAGTTGCCTAGTCAGTCAATGGAGTCTTTGAGAGAATTTGACATAGCTT
GCCAGTTTAGCATTCACAGAAATGGTTACGACTGTGATTTGCTGTGTTTCTAGTCTAAGAAGCCTCTGCCTAGTTGTGGCTCCAATGCTTTTGT
GTGCAAAGTCAGTTCTAGTACAACATAGATAGTGGAAGGAAGCCACTAACAGTAAACATTTAATGATTCTCTCACAATGGTGAATTGTTTCTAA
TCTTGGGCTGCATTTTATGTGGGTCCCCTACCCCCACCCCCGGAAGGGTAGAGGGTGGCAATGGGTGTGGTGTTTTTCTAACAAATTTTAGGCT
CAGTCAACAACAACCCAATGTGTGTAAGTCAACATGTATTCACTCTGGGATATTCTCTTGACCTCATAGGTCAGCAGGGTGATTATGGGGATAG
GATTCTTTAGAATCCAGCAGCACAAACTCACCAGCATTAGCTACAATATCATCATATTGCTGTTTCTAAGCAACACCCAAAGCAGAATTTAGGT
TTTGTGGGTTCAACAAGCAGGAAAGAATGATGGAATTATTCTGTCTCTTCCTTGTAGATATGGATTCCATAAGATTTCCTCTGTGGAGGGAAAA
CTTCAATTGATGCTTATTGAATGATGACTAATTTTCTTCTCACTTTAGACTCCTTTACTTTCTAAAATAGTAAGCCAAGTTGAAGCAATTCCTC
ATTGATGTCTACTTGCCAGTTTATAATTTCCTGTGATATCCTCTTTAGTATATCCTTTCCCAAAGCTGGCAATTCTTTCCCAGATTTGGCAGGC
TTGCTTAGTAGATGTGTGTATCTCCTCTGGTAGTCTCAGAAGGAATGCTAAAGGCCCAGAGTGGTGGCCCACGCCTATAATCCCAGCATTTGAA
AGTCAAGGACAGGAAGATCACTGATCACTGAGTTTAAGGCCAGCTTAGTCTACAGAGTGAGTTCTAGTCTCTTCCTTCCTTCCTTTTTTTTTTT
TTGAAACAGGGTTTCTCTGTATAGCCCTGGCTGTCCTGGAACTCAACTCTGTATACCAGGCTGGCCTCAAACTCAGAAATCTGCCTGCCTCTGC
CTCCCAAGTGCTGGGATTAAAGGTGTGCACCACCGGCTCCAGTCTCTTTCTAACGAACTAACTAACTCATAAACAAACAAAAGAATGCTAAAGT
CTGGCATAGGATTAATTTGAAAATAGCTGTCATCTGGGTCCTCCTCTGTTTTCTAAAGCTAGTGTGTTTTCCTGAAAGAGTACAACCAGATTTC
CAGGTTACTCTACAGAACCTTATATTGTTCACCGAAGAACGTAAATGAGCAGCAGACAGCAGCTGGATTGTTTTCTGCAGTCACTGTCCACCAT
TTTCATAAAGCCTTTTTGTACTAGGAAGCACTACAGCTCCCAGTTTACGTTCTCAGATGAAGCTTCTTTCCCTCTCCAGGTCATTTTATTCCT
AACTGCACTGCCGTTTTTCTCTGTCTATCTAGATTGATGCCAAGAAAGATCAGTTAGCAGATGCTCGAAGGGACCTGAAAAGTGCTAAGGCTGA
TGCCAAAGTCATGAAGGATGCAAAGACCAAGAAGTATGTACCTGACACTGTACCAAGGGTTGGATAAGGGAGAACAGTTGGCACCATCACTCAG
AGGCCTGAGTGTTCCAGCTCACATGGTCTCATTATGTAGCCTTGGCTTCCTAGGATAAACCACCATTCTCAGCTGTTTTCAAATACTTCTTGAG
GAAATTTTCCATGATTTTCTCCTTTAAGCAGTATATAGGATACTTGTTTGTTCTTGTCCAGAGGTCAGTCTTAATGTATGATTCTGCCATTCTT
CCAGGGTAGTAGAGTCAAAAAAGAAGGCTGTACAGAGACTAGAAGAGCAGTTGATGAAGCTGGAAGTTCAAGCCACAGATCGAGAGGAGAACAA
ACAAATTGCCTTGGGGACCTCCAAACTCAATTATCTGGACCCTAGGATCACAGTGGCTTGGTAAGTCTTAGGCCTGTGTAGATTTCCTGCTTTT
GGTTAAGGAAAGGCAGAAAGTCTCTTGGATATTGCCAGCTCCTTCATGCCGTGTCTAAGTTTACATTTCTTCCAGGAGAGCCTACAGCTCTGGT
TGCTGAGGTACATGGAATATCCTAGGTGCCCCATGGGCACATTAGTATAGTAGCCCATGCCTGCTTTCGAGATCTCTGAGATAAAGAATGAGCT
GATAAAATAAAGTCCTTTGAATATTTTTGTGCACCAGAAAGCTCTGGACCCCTGCTATGGGTTATCATTGAGCTAGACTAATCTCCTTTGTTGT
CTCCATATTTATTCGTTTCTTTTTTCTTTCTTTCTTTCTTTCTTTTTTTTTTTACAGGTGCAAAAAGTGGGGGGGTCCCAATTGAGAAGATTT
ACAACAAAACCCAGAGGGAGAAGTTTGCTTGGGCCATTGATATGACTGATGAGGACTACGAGTTTTGACCAGTCTCGGCAGGGGTTCTGTGAAA
AGGAACAGTGTGGTTTGGGGAAGATGGATAAACTGAGCCTCACTTGCCCTCACACCCGAGGGAGAGGCCACAAGTCTTAACAAACCAACATCTT
TGCAAAAAGATAGACCTGGAGATACTATAAGGGAGAGCTGAGCCAGTTGTCCTATGGACAACTTATTTAAAAATATTTCAGATATCAAAATTCT
AGCTGTATGATTTGTTTTGAATTTTGTTTTTACTTTCAAGAGAGCAAGTGGATGGGAATTTGTCAGCATCCTGCCAGGCAAATTCAGTTTTGCT
GCAATGTTTGGATTCTCTCAGCTACTGTATGTGAAGTCTGATTATATTGGTGCGTTTTTACAGTTAGGGTTTTGCAATAACTTCTATATTTTAA
TAGAAACAAATTCCTAAACTCCCTCCTCTCCCCTATTTCAGGAATTTAAAATTAAGTAGAACAAAACAAAAACCCAGCGCACCTATTACAGCTG
TCATTCTATCGTCATGGGAATCAGTTTTCATTAAACTTGAAGCAGTTGTGACTTCGGCAGTGTTTTGGTTCAGACACCTATTCACAGAAAAGCA
TGATGGGAAAATATTTCCTGACTTGAGTGTTCCTTTTTAAATGTGAATTTTTATTTCGTTTTAATTATTTTAAAATATTTAAGCCTTCTTCTTG
ATCTTAAAGATCGTGTAGCTTGGGGTTGGGGAGGGATGAAGGGCGAGTGAGTCTAAGGATAATGTAATAATCAGTGACTGAAACCATTTTCCCA
TCATCCTTTGTTCTGACCATTCTTTGTACCCTTTAAGAGATCCATCTTTTTCTTTGGAAACCCCAGTCTTTCATTTGAAAGATGTTATTGTATA
AAAACTTCCACAGGTCAATAAATTTAGAGGAAAATGAGCATTTGGTCCAAGAAAAACAAAAACCAAAACAAAACAAAAAGGAAAAATAATCAA
GATTTTAGGGCTTTTATTTTTTCTTTTGTAATTGTGTAAAAAATGGAAAAAAAAACATAAAAAGGAAAATTTTAATGTGAAGACTTTTTTTTTG
CTATAATCATTAGTTTTAGAGGCATTGTTAGTTAGTGTGTGTGCAGAGTCCATTCCCACATCTTTCCTCAAGTATCTTCTATTTTTATCATGAA
TTCCCTTTTAATCAACTGTAGGTTATTTAAAATAAACTCCTACAACTTAACGGAAACTTAGCGTCTGCCTGTTTGTGAATGAGGCCCCAGGCCA
GAGTAAAGGCTCAGGGCTGAGATTTAGTGCAGTTCATGGTCTATTCATTCAGGTCAGCAAGGGTCGGTCCCTCCCAGTGGGAAGGTGGTATGGG
CTTGTCCTGGGAGTACATCTGTCCTGATGTGGGATAAAGAGTATCAGTTTCCATCCCTAAAGACAGCCCCAGAAAGCAAGGGAATGTACAATAA
ACCTTTAGGAACTGCCTAATCCCAGTGTGGGCAGTGCCTACTGAGTGGGACAGCCTTGTTTATTTGAGAAACAATCGTAGAGAGCTTTCCATGT
GTACTGAACAGAAACAGGATAGCTAGCTTATATGGAGAAGCCTCCAGACGGAATGAAGATTCTGAATTGATTGATTGAAGGACTTAACTGTTAA
CTGTAACAAGCCCAGAGCTCTGGATACCCCAAAGTAGCCATGATCCCTACCAAGTGTTCCTTCTGTTACCCTAAGTCTGAAATTCAAGGTGAGA
AAGTGAACTCCAGACTAAAGGGAAGGTCCGAATGGGCCACCAATTGAAGGGCCCACACCTGAGCTTGCTGGCATCCGCAATCTATTCAGAACCG
CCTTTCTTAGTGGTCTGCGTTATCACTGATGCTGGGACCACAGCAGCAAACTCTTGGTCCCTTGAAGCTTGAACTTCAATTGGCTATTGAAGGC
AGCACTTACTCCTGAGAATAAAAACAGTATAACCATCACTGTTTGGAACCAAGAACATTATAGCCAGGTGTTTTTGAATTCTGTAGTGTTAGAG
TTAGCCAGACAGAATGTTAAAACGGGAGGCCTTTGGTAACCAACCAATACTCTCTGGCTGGTAGCTGGTAAGAAATGAACCTTAGTTTTAGGAC
CTGGTAACAAAGACAACAGCAAATAGCAAAGTGCATTCCAGGCAGTGGTGGCGGGCCTCTTGAGGAAAGCCACAGAGCACACATGAATCTCAGC
TGATCCTGACTGGGACTGAGAAGAGGCTGCCAAGATTGGGGGAGCTGATGAGTTTTAGAGGTATATAAGGCTTGCGCTTAGAGAATGGGAGTAA
ACCTGCCATCCTTGATGACCCAGCACATCTCAATTGTAGCCCATTATGCAAGAGCAGAAGCTAGGTGGGCAGTATCTGGGAAGCCCCTTTCTGT
GGGCAAAGGGCAGTGCTTCTATGTGGCACCAAGCTACACATCATCCACACTCTTGCCATCTGTGCAGCAAGTGCACTGTCTCTTCCAAAAGCTG
GGACCTAACAACTGACACATTTAAAAAGTGAAAAGAGACACTTCACACACACACACACACACACACACACACACACACACACCTCA
GCCTTTCCAGCCACAACCTCTCTTCAGTTTCACAATCAAGTAAGTACCTGCGATGAGTCACCCACTGCACTGTCTTTTCCCACCCTCTGCATCC
AGTGTCTACCACAACCCTCTCCCTGGGTTCTAACCCTGGTCACCAGTGACCACGCAACAAGGAGAGAGTGCAGTCTTCATTCACCATCTTGCCT
AAGCTCTTTTTGGGTGGAATTGAATGCTGTTACTTTACATGCCATAAATGTAACATTTTAATAAATGATTTTTAGTAACTGCTGACAAGTTCAT

CCATCATCATGGGTCAGTTTTAGATCACTTTTCATCCCTCACACCCATTTGCAGCTATTCTGCACTCCCATATGCATCCTCCACTGGTCTCAGG
TTTATTCTCTAAACATGTCTTATGGATGTTTTATTTGAAAGAGCTCATAGTATATGTCCACCCCTTGTAAAAGTGCCTCTCTGGCTCCTGTAAT
GTCGCCCAGTTTCACTCCTATTTCTGTCAGGCTGTTTGTGGCTGAGACATTTTTAATGTAGCTGCCATCGTCCTTCTCATTTCATGTAGCCAAT
GCAGTCACACTCCTGAGCTCTGCACGCACAGTCAGCCACACAGTTCTGCAGGATATCCACAGAAACCTCTGGAGGACAACTCAGGACTCGCTGT
TCTAAGCCTGCTGGGTCTGGGTTTCCTGTGTGTGAAAAGCACCTCACTGAACCAGGCAGACTCAGCCCTTGGCCCTTCCTTCCAAGCTCATATC
TAGTAATTTGTCGACTTTGAAATTCTTTCCTAAATACTTGTACCACATATAGGCATTTTCCCAATTTTTAAAATTTCTTACATTTTTTTAAACC
TTTTTTTTTTCTAGAACTTTTATTTCAGCCCTTGCAGATCCCTCCTATAAGACATTTTCAATTTGTTCGGAACAAAAGAGCACTTCTTGGAGAA
CATACTGCCCTGAAATGACCTCAGTCAAGCTAGTTTTGGATGCTTATGAGTAGTCCCCTGATGACAAATCAGTAAACAGGGAGGGAGGGGAGAT
TTAACAGACTTTCCCCACAACCCTAAGGAAGCAGCCTTTTTGAAATTGCCATATAGATTTTTTAGGTTAAATAATTACGCTGTACTTACATATT
TTAAAAAATCTTTCAGAGAAAATATTCCTGGAAAACAGTGCTCATCAGTGCAGAGGCTGGGGCTAGTGGTGTAGGCCAGAGGCAGGGCCCGTGA
CCCTGGGGTCTGCCCATAACACTATAAAACCACCACCACCAAAACCGTCAATGTAATCAGTTCCCAAAGTTGGGTGGAGGCTCACTATACTAAC
TGTCATGCCTGTACTTACATTGGAAAATCCTTATAGCCGGGCAGTGGTGGCGCACGCCTTTGATCCCAGCCCTTGGGAGGCAGAGGCAGGCAGA
CCTCTGAGTTCGAGGCCAGCCTGGATGTTTAAATTAAGGCAATTATGCTTAAATTAAAATTCCCAGTGACCGCAGATCTGCCCTATATACTGTC
TGGGTAGAAGTTACAAGGAGTATATTTTTCAAACTCAAACTTCACACGTAAGATGGGTGCATCTTAGGGCTAGAGAGATGCTTAAGGGGTTAAG
AACACTTGTTACTCTTGCAGAGGATTGGTGTTTGGAACCTAACAACTACATGGTGGCTCACAGCCAACCAAGTAACAATTCCAGGTGATCCAGT
AATCTCTCCTGACCACTGTGCACCGGGCACACAACTGGTGTGCATGCGTATACACAGGCAAAGCACTCATACACAAAGTAATTTTTAAAAGGTA
GGTACAGCTTACGTGTAAATTATTCTTCAATAAGTCTGGGCTTTCAGAAGCAGTGGGGACGATGTGCTTTGATAACATTGGATGGTTCTCTCAT
GGTGAAAAAGACAGACTCAAGGCTGGAGAGATGGCTCAGCAGATAAGAGTCCTGAATTCCCAGCAACCACATGGTGGCTCACAACCACCTGTAA
TAATATCTGATGCCCTCTTCTGGTGTGCCTCAAGACAGCAACAGTGTACTCATCTATAATAAATGAATAAGTCTTTAAAAAGAGAAAAAGACAG
ACTCAAAGATTCATGCAAAGTTTACTGATAGGACTGAATGTAGGGAATCAATATTTATAAATAGTTTTTAACAATCCTATTCAAAGTATACACG
TGCCACTGAACACATACTTGGCATTTTAATCATTCATCTTTAAACCTTTGTACTTCCTTTGCAGAAACACTCCACAAAATACCTTGGGGTGACC
TTATTGTGAAAGGAATAGTTACCTCATTTGGAGAGGCTGTTTGTCATGAATACACAGCACCTCTCACTTTGTTCTCTTCCCATAATCACTAAAG
AATCTAGATAAGGTCCTTCTTGCTCCCTGTGCCTTTGTCAGACCAAGCATGGCCTGTTTCTGAACAGGCTTGCTGTGTTCCTGCCCTGCTGAGA
TTCTCTAGAAGGCACAGTAGGGATGTGTGCTGGAACAAAGGGGGCGAGAGTAAAAGCAAGTCCATGCTGGTCTCAGTTTCCCCTGTCTTCAGCA
CCACATGCTTGACCTCAGTGAAACAAGCACTGTACCGGCCGTTCCTGGCTGAAGAGAGCTAATGGTAACAGTCAGTAGTGAGGCAGCCAGGGCT
GTGGACACAAGAGGTTGTTGGGAACTGTTGGCATAGATGTGAGTTATGGAGCTTTTGTTCTACAAGACAGGGTTTCTCTGTGTACCCTTGGCTA
TCCTGGAACTTGCTCTGCAGACCAGGCTGGCCTCAAACTCATAAAGATCTGCCTGCCTCTGCCTCCCAAGTGCTGGGATTAAAGGTGTGCCACC
ACCACCCAGCAGGTACGATTTTTAACTTGAGTAAAAACAAACAAAACCCCTAAAGTTCCTTTAAGGGACTGAGAATGCAACTGACTTAAGGAAA
GGAGCCCGGAGGTTATGATGTCAGAAGGGATGGGGCCCTAGATAGGTTTGCAGGTCAGAGGACAAGGGCTTATACTGCAGGTTCACTGAGGTGT
GCACTTAGGAAGTGCTTGCTGCATGTACAGTTAACAGCAGAGGAAATAAGGGACGGAACACAGCTTGATGAATGGATTAAGCAGACACTTCAAG
TCTAAGTCTTTGTCTCCCTCTGTGAACGGAACATCACTATGCTCTGACATGATGACTTCTAGAGTCAATCATTATAACGAAGAAAAGTGTGTTA
GCACTTGGTACTAGCCTGCTAAGAATGCCCTCTGTTATTTTAATCACATACATAGTCATGTGAGAATATTTTCTTATAATTTAATTCCAGGAAA
ATGTTATTCCCTTTCCACAGAACTAGTTAGCAAACATTGAGAGTCACTACTTTAGCTACTATAGAGCTCAGCCACAGCTGCCTCTTAATCGCAG
CAGCTCCATTACCACTCAACCATACTGTGATTGCCCTTATAATCACATCTCCCATTTCAACCACACAGCATTTTTGTCCTTTTCTGTTTTAAGT
GCCCTCTATTTTTCCTAAAGAGCTTGGTGCAGTGGTGCCCACTGGATGTCTCAATTCTTGGGAGGCTGGGGAGGCCTCAAGTTTAAGGCCAGCC
TGGGTTCTACAAGCAAGACCATACCTGAAGAAAAATGCAGTGAACATAGCAGCGTACCTGCTTCCTGTTCAAGGAAAGACTTGTCATCACTTCT
GGAAGAAGTGTAAATAGAAATCCATCTGCCAGTCCGTCAGCTCACAAAGAGCCAGGAGGCTGAGGATGAACGTTTTGCAGAACAATGAACATCC
ATTCCAGGATAGCACTGCACAACACAGTTCCCTGGAAGTTGTCTGAGGCTGTTCGCACTCCCATCTCCTTCCTGTTGCTTCCACAATGCTGACC
TTAGGGCTGCTCCCTAAAAAGTATTCTACCCACTAACCTATCAGAGACAGCACCCTAAAACAAATTCCGACCTAGCCGGGAAGCACAGTAGCTC
ACATTTTTAATCCCAGCAAGGCTGAGTTGCTGAGTCAGGAGAATAGCTAAACTCAAGATGAGCCTGGATTTGTACAAACTTGTACAAAATAACT
AANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
CACTTAGGATACCCAAGATATAAGATACAATTTGCTAAACGCATGAAATTCAAGAAGAACGAAGACCAAAGTGTGGACACTTTGCCCCTTCTTA
GAAATGGGAACAAAACACTCATGGAAGGAGTTACAGAGACAAAATTTGGAGCTGCGACGAAAGGATGGACCATCTAGTGATTGCCATATGCAGG
GACCCATCCCATAATCAGCTTCCAAACGTTGACACCATTGCATACACTAGCAAGATTTTGCTGAAAGGACCCAGATATAGCTGTCTCTTGTGAG
ACTATGCCGGGGCCTAGCAAACACAGAAGTGGATGATCACAGTCAGCTATTGGATGGATCACACGGCCCCCAATGGAGGAGCTAGAGAAAGTAC
CCAAGGAGCTAAAGGGATCTGCAACCCTATAGGTGGAACAACAATATGAACTAACCAGTACCCCGGAGCTCTTGTCTCTAGCTGCATATGTATC
AAAAGATGGCCTAGTCAGCCATCACTGCAAAGAGAGGCCCATTGGACTTGCAAACTTTATATGCCCCAGTACAGGGGAACCCCAGGGCCAAAAA
GGGGGAGTGGGTGTGTAGGGGATTGGGGGGTGGGTATGGGGGACTTTTGGGATAGCATTGAAAATGTAAACGAGGAAAATACCTAATAAAAAAT
AAATTAAAAAAAAGAAGAAGCTCACAATATGCTTACCACTGTTCTAAGTAGTTATTAAACGCAATATGAGATCAGGCCCACAGGCCAGAGGGGC
AGCTGGGCAGTCTTTCCTTGACTCCAGGAACAGGCTTGGTATAAGCTAAGGTTGAAGCATGAGTGTTGCCTGAAATAAGCCCCAATCTGGGCTA
GTCGGGGTGACGTCACAGGCAAGTGCCTTGTGTGGGGGCTAGAGCACCTCCCAGACAGCACAAATGTATATACATTACCAGTGACACCTACACA
TCCTTATATATGCTGAGCTGGGGGAAGCCCATACTGGCTACACCCTGTGTGTGCCCTACTTTTCCCAAACTTCCTTGGGTAGAAGGAGACACCT
AAGGCCTAGGAAGCTAGGAAGAGGAAATGAGGCCCTGTTTCCCAATTATAGGCCTGGCAAACAAATTGCTGTTGGAAGAAATCATGGAGCCCC
TGGGGGTGGGGGTGGGGTCTTGTTACAGACACAAAAGCAAAAAAGGTTTGGGCTGAACACAAGGAAGCTCCCAGAAAATAGAATTTTAAAGCAT
ACTGTAGCCTCTAGGCTGCTGGAGTTGGCACAGAAAGCTCAACAACGATTACAACATTTTAAGAGGGTGTCTCCTGAGAGAACCGGCCAGACCA
GGCAGGCAGGGAAAGGCCCTGTTCAGCTCCATCTGCCCTCTCTGTCTAATCATCCTGGCTGGCCATTCCCCTCCACTGAGTAAAAACCCCAGGG
CCTTTGCACATGCTGTTATTCATACCTGGAAAGTACTTTCCTCCAGCCTTCCCTTCAAAATACATATGTCCATCTCTTTACACCATTTGGCCTC
TCTTGAAGTCCTACAGACATAAGACACAGCTCCTCTTACTTAATGATTGGCCAGCTAGCCAATGGCCACCAGGATTACCTCTCACCCAGTGGGC
TCTCTTGTGGAACACAGACACTCAGCTTCCCACTTATTACATAGCCTGACTTCAAGTCACGGGGCTCTGAAACCTTGATTAGAAGATAATTAGG
ATCATGAGTTGTGCAAGCCAACCTCAAGTCCAGTTTCCGCCTACATCAGAGGCCTGTCACTAGGTGGCAGTCAGTCTATCTCAACTCCCCAGTC
CCTCAGGACAAAGTTCCTCAGTGGTATACAGAATTCGGACGTTCTTGAGACCACCCTCAAGGGAAATAGCGCATCTGTCACTATTTGCCTGGCA
AAGCGAAGGTGGCCCAGGTGGGTGGGTTGTCCAAACCCATACATCACAAATTCTAGTCTCAGGAATCCCAGGGGAGCTTTCCTGCAAGGGGATG
TTGTGTGGGACTTCTCACCTCTGAAATGCAGATGCTGTCCAGAGCTGCAGGGTAGCTGTCCAACTAACTGTCTGCTCATCATTGGCCAGACGGC
AGGATCAAGGGATGCCCTCGGGTTTACCCGTGCTGTTCAGAGAACGGCTTTTGGAAGATTGATTTTAAGTTATTTAACAGTCACAGACAGGTGT
CATGTCTGGAGAATAGAGGCAAAGTCCGCGGTGAGGGATGAAGCAGGAGAGATAGGGGAAGGCAAGACAGGACTGCTGGGCCACGAAGCTGTGC
TGATTTGAAGCACAGTGGGAATTCACGTACGCAATTTCAAAGGCTTTAGTGGTAAATTCTGAAGCTCAGATGCAGGCAAGACCCAAGAGGATAG
TGTACACAGAGAGAAGAGGGGTCCTCAGGATCGTGCGTAGAGTGGAGAGAGCCCCAAAGGCAGGAGGGAAGAGCCTCAGTGGATTACTTAGGGA
TGAGGGAGAGAAGAAAAAAGGTTCTTGCAAGGTGTGGGGTCTTCCAAATTCAGGAGTTCACTGCCATATAGAGAAGGTGTAGCGGGTGAAAGGG
GCCATGTGATGAGGATGGCAAGCAAGGCTGTGGCGCAGATGACGAGATGCCTGGGTCGGGAGGTCAGGGGAGACCCAGGATTGGGGTCACCTGT
GTCTGCGCAGAGGGGAAGCCACCCTGCAACTGGCCCAGCACTGAGTCCAGAGGAAAATGAGGCAGAGGACAAACCAGAGCTTCGGAGACTAAGT
GCAGGTAGGGCGCGGGCGGAGCGTGAGGAGGGCAGCGGACCACGCGAGAGGCCTCGAAGGCCACCGGACCCGCGTCCGAGAGTCTGAGGGCCCT
GCCCACACCTGCGTGGCCCCCTCCCCAGAGGCCACACTCCAAGGCCACCCTAGAACCCGTCTGTCTGCTCAAGCCCTTGCAAAAGACGTCTGCG
CAGAGGGGGCGTGGCAGGCGTGCTGTCACTCACGGCCTGTTAGCCAATCCACGAGTGCGCCCCTCCCCGGAGAGGGTGCGCGGAGGGCCCGCCC

CCGCCGCCACCGCGGGTGTGAGGAGGCCAGGCTGGCGCGGCTCCCTCCGCCCGGCAGCCTTGCCAGGTAACCGGGTTCGGCGGGAGGGCTGGGG
GTCGCGCAGCCCCCTCGCTCCCTGGGAGGCGTGCACACTGCCGCGGCGGGTCCCGTGTGGGCCGGAGGCCCGTGCNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

CTGTGGGCTGCTGTTCACTTAGAGTGGAACACATCAATTTACACCCAGAATTGGATGTTCAGGAGTATGTGGTGGAATTTGACTTTCCTTGGAA
GGACTCAATCAGATACTATAACAAAGTCCCAGTTGAGAAACGAGTTTTTAAAAACTTACAACTGTTTATGGAGAACAAGCAGCCTGAGGACGAT
CTTTTTGATCGACTTAATACTGGTATTCTAAATAAACATCTTCAGGATCTCATGGAGGGCTTGACTGCGAAGGTGTTCCGTACCTACAATGCCT
CCATCACACTACAGCAGCAGCTTAAAGAGCTCACAGCCCCTGATGAGAATGTACCAGCGAAGATTCTATCTTATAACCGTGCCAATCGAGCTGT
TGCAATTCTTTGTAACCACCAGAGGGCGCCACCAAAGACCTTTGAGAAGTCAATGATGAACTTGCAGTCTAAGATTGATGCCAAGAAAGATCAG
TTAGCAGATGCTCGAAGGGACCTGAAAAGTGCTAAGGCTGATGCCAAAGTCATGAAGGATGCAAAGACCAAGAAGGTAGTAGAGTCAAAAAAGA
AGGCTGTACAGAGACTAGAAGAGCAGTTGATGAAGCTGGAAGTTCAAGCCACAGATCGAGAGGAGAACAAACAAATTGCCTTGGGGACCTCCAA
ACTCAATTATCTGGACCCTAGGATCACAGTGGCTTGGTGCAAAAAGTGGGGGGTCCCAATTGAGAAGATTTACAACAAAACCCAGAGGGAGAAG
TTTGCTTGGGCCATTGATATGACTTATGAGGACTACGAGTTTTGA

HUMAN SEQUENCE - GENOMIC
TTCAAACTCCTGGGCTCAGGTAATCCCCGCACTTCAGTCTCCTGCCTAGCTAGGACTACATGTGCATACTCCCATGCCTGACTAATTTGAAAAA
CATTTTTGCGGGGAGAGATGAGGTCTTGCTATCTTGCCTTGTCTGGTCTTGAACTCCTGGGCTCAAGCAATCCTTCCACCTTGGTCTCCCAAAG
CATTGAGATTACAGGTGTGAGCCACCATGCCCAGCCAAGCCTCAAGTCTTGAATACTTTAAATCCATTTTCTTTCTTTTTTTTTTTTTTTGAC
AGCGTCTTGCTCTGTTGCCCAGGCTGGAGTGCAATGGTGCAATCTCAGCTCACTGCAACCTCTGCCTCCCAGGTTTAAGCAATTATAGGTGTGT
GCCACCACACCCAGCTAATTTATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATTTTTAGTAGAGACGGGATTTCGCCAAG
TTGCCCAGGCTGGTTTCACACTCCTGAGCTCAGGCAATCTGCCCACCTCAGCCTCCCAAGGTGCTAGGATTACAGGCATGAGCCACCATGCCTG
GCCTGTAGGTAATATTTTCTAAAACACATATTATGTTCCTCCATTGCTCATAGCAACTCTCAGTGACTTCCCAGTGCTATGAAGATAAACTGCA
AATGCCTTAGAGACCCTGCATGAACTGGGCCTTGCTTACCTCTCCAGCTTCATCTCTCACTACTCCTCTTCACCCTCTACCCCTTAGCCATACT
GAATTACCAGCAGTTCCCCACATAAACCCTGCTCTTTCCAGTTTCCAAATTTTTGCCCATCTGTTCTCTTGGCCTTGAGTGCTTGTCTCCCTCA
CTTGCCTTCTTTATTCTCCCCAACCTTTACCTGGCTGACTTCTGTTTCCATTTTGAGACCTAAGTTTAAGTGCCATTTCCACTGGAAATCCGTG
CCTGACTCTGTAATTCTGGATGGCAGTTCTTCTAAAGGGCTCCTACCGCAAACACACTGTACTTTATCCTCGAGGCACTCATCACAGTAAGTGA
CAATTACTTGTTCCCTTCTCTGTCTCACCCACCAGACCTGAGCTCCTTGAGAGCAGGGGCCTTGTCTTTCTAGTTCACGGCTGAATTCCTAATA
CTAGCTTAGTACCTGGCTTATAGTTGATTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGATGCAGGGAAGCCAAAGAAG
GGTCAGGATGCAATGATAACCTGGGGAAGGAGGGACAATTACAAAGGAAAGTCTTGGGCAGATTCCATACAGGTAGTAGCCACCAATGGGATGT
GGAGGACAGGATCAAGGGTTAACTCAAGAGGCTTCAAGGTTCTGAGCCTGAGTGACTGGGAGGAATAGAGCTATTCACTAAGCAGAGACCATAG
AAGCGAAGGGCAGTTTCAGGAGAAAAGCTGAACCCAGGACCAAAGGGCTGTGGGGGTCATCAAGTGGACACATGAAATAGGCATATGGGTAAAT
ATTTCTATGGTTCTAAAAAGGAGTCAAGGCTGGAGACATTCATTTAAGAAGCTACCTGGCCAGGCACGGTGGCTCACGCCTGTAATCTCAGCAC
TTTGGGAAGCCAAGGTGGGCAGATCATTTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTAAAATCTCGTCTCTACTAAAAATATAAA
AATTAGCCAGGTGTGGTGGTGGGCACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTACTTGAACCTGGGAGGTGAGGTTGCAGT
GAGCTGAGATCACACCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTCCGTCTCAAGATAAAAACAAGGCTACCAAGATGGGGGCATATAGA
GAGAAGACAAGTGTGATGATATAATCTTGGGGATCCATTAAATTGTGCTGAAAGAAGAGAGGGAGAGAGAAATGGTATTTGGACAGGTAAGAAA
AAAGCCAGGAGAATTAATGGTCATTGGATCCAAATGCAAAGGACCTCAAAGAATGTGCTCATCCACCTCATTGAGTGTTGCAGGAAGGTGGAGA
AGAATAGGCTACTCTACTTGGAAACTAGGAAGTCCCTGATTAGAATAGAAGCCAGACCAACAGTGTTAAAGGAATGAAAAATAAAGCAGAAAAG
GCAGCACATGTAGACTGTCCTTTCTGAATCTTTCAAACACAGGTGAGGGCAACAGTGACCTAAGGACAACTTGGGAAGCAGGTTAGGGGTTCTA
AGACTGGGCTCCATACACACACTGCTTAAGTTCAAATCATAGCCCCAACACTCAATAGCTGTGTGACTTTGGGCAAGTTAACTTACTTAACTTT
CCTAAGTCTCAGTTTCCTTGTCTAAAACGGTGGGACAAGTAGCCCCTGTTTCATATGGTTATTGCAATGATTATATGAAAATGTATGTGAAGCA
CTCAGCACAGGGCAGAGACGTGGTAAGCAACCAATTAACGTGAGACATGAATTTTAACAGGGTCAAGGAGGAAAACTGGGAGGAGGAGAAGTTG
CCATGCAGGAGGGAGAGAAGATGCTCGGGTGAACTAGGCTTTGAGGAGGTGGAAGGGAGGGGACTGAGGACTTGGAGGGCTTGTGGAGAGGGAG
GATGGGGAAGTAGGCCTTTTCAAAACCCAACTTTGGCTAAAGGATCACCTGCTGGTTACTGAATGAAGCAGCTACTTCTGTTCCATTTTCTTGG
GGAGTCATGCTGAGGCATCTCTAGGAGCTTCTCTCACTCCTAGAATCTTCCAGTGTTTCCTGGAGCCTGGTCTCTGCCTCTATGCCTCCCACTG
CCTGCTGGTTCTCTAGCTGGAGGCAGCTGGACTCAGGCAGCCGCAGGATGTCCCAGCAGCACACATTGGGAGAGGGGGATTCAGAGAGAGCTGC
TTCACAACTTCTCTTTGGGCTATACCCTTGACACAGGCCAAATCCTTCTGTCCCCGTCACAGGTACAGATACTTTCTATCTTCAGGTATTCCAA
ATGATCTTCCATGATTAAGGTTGCTTCTGAAACACAATGGTCTCCCTGGACCTCCGAGCTAATCTGCCTATTTCCAGTGTCAGTTCCACCAAAC
TGTTCCCCCTCTGCTGCCTGTGATTGTTCTCATACCTGTTTAAAACCCTGTCATAATTCACCTTGCAGTATCTCCACCAGAACTGGGAGGGCCT
CTCCCACCTGCCCAGCCTACATTGGTTATATCTTCACTTTTACCCTCTGCTCCATCCTGACCAAAGCTATGGCTCTGCATATATTGCCTCTCTT
CTTGCAATATCTTTTCTTCTCTTCCACGGGCTAGCAACCCCTCATCTTTCAAGAATAGTGTCCAACTAGAAACCTTTCCTAATATTGCCCCCAC
CACCACTGGTGAGTTGGATGTGCTCCTTTACTCAAGAGTTCCCACAGCAACTGGTGGCTGGCCTCCTCTTCCCTATTATTCCTTATACCTTAGT
GTTACAGCTGGAGAATACCTCTGTCTCATTATCAGACTAGGCACTCTTCCAAAATGAGGATTAGGTCTTATAAATAGCTGTATCTCTAGGGCTT
AGTATAGGACCTACCAACCTCAAATAGGTAAGTAGTACCTATTTGCCTTCATTCCTCAGGGAATACTGGTTGAATGAATAAATGTCCTCATTTA
GGATGTATTCTGGCAGGAAGACAATGGAGATGCAAGTGGACTACTTTTCTTGCCCCAAGCCACATGGCCAGGATCCTACATCTTTGTTGCTTGA
CTGCCTCTCATTTCATAATTCAAGAGTTGCCAGCTTTCTTATTGATACTGACCTTTTTTTTTTTTTTTTTTGAGATGGAGTTTCCCTCTCGTTG
CCCAGGCTGGAGTGCAATGGCGCAATCTCGGCTCACTGCAACCTCCACCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCTAGTAGCTG
GGATTACAGGCGTGCAGCACCACGCCTGGCTAATTTTGTGGTTTTAGTAGAGAGGGGTTTCTCCATGTTGGTCAGGCTGGTCTCGAACTCCCGA
CCTCAGGTGATCCTCCCGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCGGCCTGATTCTGACCTTTTTATTCCACA
CATCTCAACTGTTGCTGAGCTGTTTCATTCTAGGAGGCAAAGAGCTTTTCTGGTTGTTCCTGAGATCACCAGCCTGAATCTCCTTTCTTGAGCA
CCCAGCAGTTTCTTTTCCAAGGGTATCGGAATCTTGAAAGGGCAGCAGATTCTTAGGCATGGGCGGGGAGAGCTGCTAGAAGACATCACTGTCA
AAGAATTGGCAAAGTCAAGAATGTGCCAGCATCCAAGGGTCAAAACGTCAGGTGGGACATCCTGTTCCACAGCATGATAGCCCCAGAGGGGGTG
CCAAAAGGATGACAAAAGCCTTGTGAGTGCCCAGGAATCAAGTAGAGATTAGGACCAACCCATCAGAGTGCAATTAAGCAAAAGGGGGAATCAA
TTTAAAGGTGCCAGAACAGGAACCATGCAACCAGGCTTCAGGAGAAAGTAGGAACGAGGGTCCTGAACTTCATTCATCAGGGTCCTCTCTCT
CTTTTTTAAGACAAGGTGACACTCTGTCACCCAGGCTGGAGTGCAGTGGCACGATCTTGGCTCATTGCTGCCTCAGCCTCTCAGGTGTTCCTCA
CCTCAGCCTCCCTAGTAGCTGAGACTGCAGGCACACACCACTATGCCCAGCTAATTTTTGTTTGTAGAGACAGCATTTTGCCATGTTGCATAGG
CTGACTTCAAACTCCTAGGCTCAAATGATCCAGCCGCCTCAGGCTCCCAAAGTGTTAGGCTTACAGGTGTGAGCCATCTGGCGGGAGGGACTTC
TATCTCTTATCTCTTCTCTTCCTCCACCCACTTTCTCCTATATCCTCCCCCACTTCCAGGTTTCTCTGGCCCTTCCAACAGCAAGTATCGCCAG
GAGCAGCTCCCTAATCTACATACTACAGATCTATCCACAAGAAGACAGATGGAACCACTCTTTTCTTCTGAATTCTAGAACCTTAAGGAAGTTA
ACCTGAGTGGCTCAGCTTGGATCAAGTGCCCATCCTGGTCCAAACAACTGTAGCAGCACATCTGTGTATTTGTGTATCTTGTTCCTCCATAATC
TTGCAGTCCGGGGAAAGTGTGCAGATGGATGGGTCCCTGAAAAGCAAGAGTTGTTTAGACAACGCTAGAGGTGTTCAGTTCTGGGAGACAAGAG
TTGGGCCAGGTTGATAACTAGCCTAAGAGAGTCGGAATCAGATGAATAAGAACTAGATCTTGGGTGACAACCTAGATCAAGAGTCTTGAGGTTC
AGTCATTTCAAAAAGCTCAAGTCTCATTGCTTCTTGGCCTTCTGGCTAAGATCATGTGCAGTATCTGTTCTTACCAGTTTAATATCTGATACAT
CCTCTATCTGAGGATAATATAATAAATAGATTTTTGGAGCAAGGAGATGGAATAGGAGCTTGTTCTGTCCACTCTACACATTGGCCTGGATTGC
AGTACCTCCAGGAATGGTGCACCCTCTCTACCACCCCCAAAAAGCCCAAGTCTCAAGAGGTAGTCTGGAAAAAAGTGTTTTTGGATTTACCTAC
ATTTTTTTTTTCCAAGATGGAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAGTGGCGCCATCTTGGCTCACTGTAACCTCTGCCTCCAGGATTCA
AGCAGTTCTCCTGCCTCAGTCTCCCAAGTAGCTGGGATTACAGGTGTGTGCCAACCATGCTCAGCTAATTTTTCTATTTTTAGTAGAGACAGGG

TTTCACCATGTTGGCCAGGCAGGTCTCAAAGTCCTGACCTCAGGTGATCTGCCTGCCTTGGCCTCCCGAAGTGCTAAGATTACAGGCGTGAGCC
ACTGCGCCCGGCCTAATTTTTGTAATTTTAGTAGAGACGAGTTTTCACCATGTTGACCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCAC
CCCCGCCCTCGGCCTCCCAAAGTGCTGGCACTACAGGCATGAGCCACCGCTCCTGGCCGGGTTTGCCTACATTTTGGAGATGCTGCACACCATG
TCCCTCTTTTCAAGAGTCACGTAAGTATTTACATATGGAAGACCCTGAGAAGGCACCTGGGAAAAAACCTGTTTAACTGTAAATATAATAATGT
ATGTATTTGTATGTGGAGCTCTTCTTTTAGTGGATTATCTATAAACCGTCCACTGTTCCCAATGCATACTTTGGAGACAGACCTACACTACCAG
TTTTCACCTGCTAGTTATTTTTATAAGGGTTGGGATGGTCCATGAGTGAACAGTCTTGATTTAAAGCAGTGTTTCCCAAACCTCATTTATTTGC
CTATAGCCTTCCTGGAGTTTGTCTTATATGTCCGCTCTGTGCACTATTCCTATATAGTTTTTTATGTAAATCAATCACTTTTTTAAAAAGCCTCAT
CCCAGTTATATCCTTAAAACAATGGTTATTTTTTCTCATACACATCGAAATACATATCTATTAGAATTAAAATGCTTGTCCATGCACTATCAAT
AATCTCCTCAAGTACCATATGGTGGGGACATGTGTTTGAAGTGTTAGGAGTCAGGAGTGGTCTCTGTAAGACAGAGTAAGTCAGTCAACCTCTG
AGCACTGCCAGCCACACATGCTGGCAGAGAAGTTCAGCCTGTGACAAGACTGCCCGGATATTTCCATGTCTGTGCACGGGGATGTCCTCGGTCT
GCCATTGTGAAGTCTGTGCTGTTTTCATGCCTACCTAGTCTTCTTTGGAGGGGCCTGGAAAGCAAATGCAGGCTGGGTACAGTGGCTCATGCCT
GTAATCCCAGCACTTTGGGAGGCAAAGGTGGGCAGATCACGAGGTCAGGAGTTTGAGACCAGCCTGACCAACATAGTGAAACCTTGTCTCTACT
AAAATTGCAAAAATTAGCTGGGTGTGGTGGTACGTGGCTGTAATCCCAGCTACCCGGGAGGCTGAGGCAGGATAATTGCTTGAACCCAGGAGGC
GGAGGTTGCAGTAAGCCCAGATGGCACCACTGCACTCCAGCCTGGGTGACAGAGACTCCATCTCAAAAAAAAAAAAAAAAAAGAAAAAAAGCAA
ATGCAGATTCTCCCTGGGAAACGGGGGGTTGGGAGAGTGGAGTAGTGTGGATGCATTGTTATTCCTGAAGGCCGTCCTCAAATTATCTTGGACT
CACTGCAGCAAGCAGATGCCTCATCTTCTGGCCAGGGATTGATCCTGAGATGGGAAGAGTATGAGAAGAGACACCAACAGCAAGGCAAAACTGG
CTCTGGCAGCTTGCTTCAGAGAAAGAGTATAGCTTTGGAGTCAGGCCGACCTGAGTATGAATCCAAGACTCAGCACTTACTAGGTGCCTGCCCT
CAAACCATTATTTTTTGATAGTCATTACATACCCACAATGATCACCATGGAGTGGATGAGGAAACAGGGACTCAGAGAAGTTAAACAACTTGCC
TGATATCACACAGGTAACAAACAGCAGAGCAGAATTCAAACCTAAGTTGATTTGACTTCCAAATGTGTGCTCCTAACCAAAGCAGGGTAACCTG
CTTTGATTTGCCCATTTCTTGAGCACCTCTTCTGTAGGAGGGCCTGTTGCTGGGTGCTGGGAATTCAGTGGTAGGCAAGATGGACAAGATTCCC
CCCTCTCACAGACCTTGCTTGCTATAGGGGAAATAGACAGGAAACCAATTACTACATTTGTAACTTAATAACAAGTGTCATAAGTGTTACAAAG
GAGATAGATACTATAAGGCACCTTTTATTTTTATTTGTTTATTTATTTTTTGAGACTCACTCGCTCTGTTGCCCAGGCTGGGGTACAGTGGTGC
GGTCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGTGTGAACCACCAC
ACTCTGCTAATTTTTGTATTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGTTGTTGAACTCCTGACCTCAAGTGATTGATCCCACAT
TGACCTCCCAAAGTGCTGTGATTACAGGCGTTAGCCACCGCGCCTGGCCTATAAGGCACCCTTGGTCAGCCAGTGGAAGCAGGGTCAGTAGTGC
GCCGGAGAGTCACTTTGAAAAAGTGATATTTAGGTTGATCTTGAAGCATTCACAAGATGTGGTAAACACATCTAATGGTAAACATGTGATGGTA
AACATTAGATGTGATAAAGATACTGATGGTCCACTGGATGAACAGTTTTCATATTTACTTCCAAATGATTTCATAGATATTATTTCACAGATAA
CACTTAGGATGAAGGTAAATAAAAAGGAGATCAATTAAAATATGAAATAATAATAGTGAAAGTGGTAATAGATGTGGCAATATCCACAAAGGAG
TAATGGTTAGATTAGCATATTGAGAAGATCACTTTGGCAATTGTTGGAATGCAGTTTACGAGAGGGCCAAGAATGGAAGCAGCAATCCCTGTTA
GAAGTGTAGTGTTTTGGAGTGCGGTGTTTTTTGTTGGTTTGTTTTTTGTTTTTTTTAAACCAGGTCTCACTCTGTTGCCCAGGCTGGAGTGCAG
TGCAGCCTCGACCTCCTCCTCGGGCTCAGGTGATCCTCCCACCTCAGCCTCCCGAGTAGCCGGGACTACAGGCACATGCCACCACACCCGCCA
GTTTTGTATTTTTTTGTAGAGTCAGGGTTCTGCCATGTTGCCCAGGCTGGTCTTGAACTCCTGGGTTCAAGTGATCTGCCAGCCTCGGCCTCC
CAAAGTGCTAAGATTACAAGTGTGAGACACCACCCCCAGCCAGCACATTGTATTAATCCAAGCAGGAGAACGCAGACTTCAAAGGCTTATGGGC
AGCAGAGAGAAGTAGATGAAGCAAAGAGATGCAATCAGCGGGACTAGTGGGAAATGAGGGAAAGGAAGGTGTCAGGATGGGGCTTTTCTAGCT
GAGTGGAGTTCAGTTCATTCCCAGAGAAGCTTGAGAGGTATCCAACTATAGATGCAAGGTAGCTGGCTGTTGGTCCCTTGTCTTTAGGACAGTT
TGACTTTTGTAATACAGGCGACCTCACAGAGCTATTGTGAGAATTCAGAGCTGGGCACAGAATAGATGCTCTATAAACGGTAGTTCTATTCCCC
ATTTGCCCCGTCCTCCCAGCATGCCAGGGATACAGGGGCGGATAGAGACAGGTTCAGTTCCCTTTGGTCTCTTGCATTCCCCCTTCCCTCAGCA
CAATTCCTGGGCTCATAGCGGATGCTCAATAAGTATTTGTAGAATGAACCAAAGAAATCAGACCCTTGGTGACCCAGGGCTACATGTACTCGGC
GGAAAACTGGGGTTAAACCGGACCCTTGGTTGGTTGAAAAATTAAAATAATTTTTAAAAAGTGGGCGTGAAATAATCCAGAAGTTGGAGGGCCT
GGACAAAGGCTGGGGAGGGGACTCCTCCCACCAGGCGGCCTCAGGGTCGGCTTAGCAAGAAAGGAGGCGCTGGGGAGACCTCTGGGGTCCCAGC
TGCCAAGGTACTCGCCGCTCCAAGGAGATGCGGACGCCGGATACCAGCTCTGCCCAAGATTGCTGGGTCCCGCCGCGGCCTTTAAAGGCCCACC
ACGTGGCTGCGCGGCCAGCCCTGGTCCGGAGGCGGTGCCCGGGTGGCGCCTGCGCACTGCCTAGCAGAGGGGCTGGGGTTCCGAGAAAAAGCGT
CTGGAGAGGAAGGGGAGGCTGCTTGGGGTGGGACGCCGTGGGAGGAGTCGGCTCCTTATGCAAATCACAGCGGAGCGCGCACGGTCCGGAGGCG
GGGCTTGCGATGCAAAGACAGGTCCGTCTGGCGAACAGCGAGGGGGCGGGCCGCAACCCTCTGCCTCTTTCCGCGAGCGCTGACGTCGCCGACG
TGTTGTTTAAAAGCGGCCGCGCAGGCGCAGTGAGCCCAAATGCGAACTTAGGCTGTTACACAACTGCTGGGGTCTGTTCTCGCCGCCCGCCCGG
CAGTCAGGCAGCGTCGCCGCCGTGGTAGCAGCCTCAGCCGTTTCTGGAGTCTCGGGCCCACAGTCACCGCCGCTTACCTGCGCCTCCTCGAGCC
TCCGGAGTCCCCGTCCGCCCGCACAGGCCGGTTCGCCGTCTGCGTCTCCCCCACGCCGCCTCGCCTGCCGCCCGCGCTCGTCCCTCCGGGCCGAC
ATGAGTGGGGACCACCTCCACAACGATTCCCAGGTACGGCCCGGCCTGACCCTGGCGGCCCCGGACCCCGGCCTGGCCGTCCCGCGACCCCCGG
CGCAGGCCCCGACCCCAGCCCCGGCCCGGCAGCTTTGACAGGCCGGAGCCCCCGGTGAGGGGCCGCCTGCCGGAGTAGATCGGCTCGCTAGGCC
GCGAGCGAGGGCCGCGAAGTTACAGTTCGAGGCAGGGATGGCTGCCCTCTGTGGCCACCCCCGGGTCCCCGTCCTCCCCGGGGGCGCAGGGTGA
GCCAGACCCCGGCCGCGCGCGCTCGCCGCCGGAGGGGTTAAAGTGGCTGTTGTTTGATATTCTCTCCTTTTCTTTTTCCAGATCGAAGCGGATT
TCCGATTGAATGGTGAGTGTGCCCCCTGCGCCGACTCCGGGGCCCCCCAGCCGCCGGCCGCCTCCCCCGCGCCCTGCCGGTGCCGGGCAGAGGA
CAGACATGGCGTCCCAGAGACTAAGTCCCGGCTCCTCGCTCACCGGCCCCATTGTTCCCATCGGGCCGCCTCTTGACCCCCTTTCCGGGGACCC
CAGCTCCTCCAGATCCCGGCCCTCCCAAGAGGGGACAACGGAGACCCCGTGTCGTCCGCCACCGGGCCTCGGGCGGTCTTTCCGGGCCGGGATT
CCTCCCGGGAAAGTCGCCTTGTCGACGGTCGGGACTTAGTCTCTGCGCCATTTTCTTTTTCTCTCTCCTCTCCTTTCTGTGCCTGTGTCTCTTT
CTCTCCCTCCCTCGGCTCTTTCCTTGAGCTGCCCAGAATGAGCTTTCTGCAGAGCAAAGCCGTATAAATCACATACTTCACCAGAGAGGGAAGG
CTGGGGGACTGAATTATTATTTTTTAAACTTTATTTTGGGGGTTATTCCCTTTATGCTTCATGTTTGTTTCCTTTTCTGCTTCCAGAATGAAAG
ATTTCCTTAAGCAACTGTTAATTTTTTTTTTGATAGGCTGTTTATGATAGGAATTATGGCTCTAAAACTAAAGCCACGCTTTGTGGAGTTCTTT
ATATTTCCAGGTTGTTTTTCCCAAGTTACGTTCTTTGCAAAGGTAGCAGTACCTCCCTAAAGAAAGTTTGCAAGTTCTCTGTGGGTCACCCAAT
GTAAATGTTGGATTTTTAAAAAATTATGTTAGTCACTGGAACTTTTCATTGTGGTCGAGGTTCCCAATGCAGTGTTTTTCTGGAAACGCAGTTT
AGTGTACTTGTTGGAAGGAAAGATTGTTGAGCATCTCTTGTGGACCTGGTGTGTTGGCCTTTTCGTTTGGGTTGTAAGGAGGAAAAAAAGATTT
TATTTATTGAAGCAAAGAGTGTCCAGTACCCACCCCTGCTTCCTGTTCATTCTTTTTCACGAGCCACTGTTTTTCAGGAATCAAGAACTGGCTT
TTTTTTTTTTTCCCAATTCTTTATGTTTTTGAACCCTTTTCAGCCAAATCAAGGCATTTATTCTTACTGTATTTCCACTTCAGTTACCCAGGGA
AGAGTCCTCCAATAAAAAGCTCATCCTTGCAGGCTTTCGAACAACCCTGTTGAAGGAGAAGTTACCTTCTGTAGTGTGCTGGGAATTCCCACTG
ATTTTGATGGTACATAATCCTGCTCAATTGAGTTTGGGTTCCGGGAACCTCTCCAATGGGAGAAGTTGATGAGTAGGTTTTCTAATGTTGTAAT
CAGCAGTCCATCATGTTAGCCTGCTCTACTGAGAGCAACCTTATGTTCAGAGTTTGAAGTGGGGCATCCAGCAGGAGATGGTACTCAGCCAGGA
GAGAATCTGGTTTAAAGTATGGCATTTCTTGAGCACCAGATATGTGCCAACCACTGTGCTTGGTGCTAGAGCTGATCCTGTAACCATAACACTC
CCTTGCTCTCAATTCAGTCTATTGGGGGAGACATAATTAGTTAATTATAAGGTAACTACTGGGGCATATGTGTACCCAAAATGCTTTGAAGTAT
AGGGGAGTTAATTTTGTCTGAGGGTGGGGAAATTTCTCAGAGGAGGTGACTTCTGAGCTGGGGGTTGTGGAAGACTGGGCGCAGAGAATTGTCA
GGGGTTGGAGTGTTTCTTAAGTACGTTTAACCAACCTATCACGATTTTAAAAGAGGGAGGAGGTGAGGCCTGCAGTTTAGAAAGCCACAGTATA
GACATGTTTCTTTGGGATACAGGAGCAAAGAAAGGATGTGCAGGTGAGGATGTAAGAAGTCCTTTTGACCTTGCTAGAGGAAGGTGGGATCTTT
AATATGGAATGTGTTCTTTTGGCTGTCAGGCTGGGCTGAGTAGGTAATGTAAGTAATGAAACAAAGTTTAGCCCTTTCTTGTGAGAAAGTTAAC
TTACATGGTTCTCACCTAAGTCACGTGAATGATTGTGAGCTGGCTAGGTTATTGATCTTTACTGACATTTTTATAGAGGCTGAAGTAATCTGCG

TATGTTGACTTTTAGAATGTGTTGGCTCACATTTAATAGCAATAATAGCTAATATTTATTGAATACTTACTGCCAGGCATGAATCTCAGCTCTT
TCCATGGATCATCTAATTAAATGTAATCCTTGGAAGGACCCTTGTGAGTTAGGTCCTGTTATTTCTGTTTTGTAGATGAGGAAACTGAGGCTTC
AGTGTATTTACTAGCTTGCCCAAGGGCTGTGAGTTGGCCACTCTAAATCCCATGAGCTGAGCCACTATGCTAGAGTGATACTATATGATACTAG
CATGAAAAAATAAAAAGCCACAAATCTCTATTTTCTTACAGAGCTGAAAAAGGAGAGAAGGAAGGATTTGATAATTTGTCATTTGCTTTTTATC
TAAACATGCTTTTTGAAGAGAATCTGCCACCATAAAGTTCTGACATTGGTGTAATTATTCTTTGTGAATATTGTCTGGAAGATGTGGTGTTGGT
AACTATGCTTGCTATCTCAAGTAATACATTGTTAACCAGTGATTGATTTATGTAACTATGAAAAAAACTTTAAAAAAAGTAGAAATCAATGTTT
AATTATGCCCAGACATGTCATTATTGAACTTTGTATTAAGAGATTGTTTAAGCGTGATTTTAAGAGGGCCTAACCCATCTTACAGATTAACTGT
ACAAGTTCATATATTAAAATCAAACGTCTCTCATTTTGCCTGCCCTCATCCCCTAAGATATAAAAGATTCCCCCCCGTCCCCCCACTTTGGAGC
TCATTCTTCGCAATATTTAAAATTGTAGCTCTTTGCATGTAATTTAGAACATTCTGACCCATACTCAACTGCTGGGAGACTCTGTTATTTATAT
TTAAAATGTTGACAGTGAGTTAGGAATTTGGAGCAGAAACCATATCTAAGTCTAAGTGAAAAGACTTCCTAAGTATTGGTAGAACTAACTGTAG
TGGGGCTGAGTCATTATTACAGTACTGTACAGGCTGCGTAGCTATCTGTAGAATTGATAATGGTAATACCAGGTTAAAGTGTTAGCGATTCTTC
TGCTGTTTCAGAGGTCTTGAAGTTTTTGCCTGTCTGCTATGGAGATAGGGAGTTCTCCCCCATTTGACCCCCTTAGCAAAGCACAATACTTGGC
TCCATCAGTCTTTAGTCTAAGAAGTGATATATAGGATCATGGTTTGACATCATCTTGTGCTGATTCTGGTTGGCTTAATGGAATCAAATTGGAT
GAAGGTAATTAAATATGAATTGTTTCTGATGCTAATAGATAGTTGTACTTCTGTCTGTTGGGTATGGGTTGGGATGGGCGGTAGCATAGCTGAT
TGCGGTGGGGGAATTTCAGATAGCTGATGATGTGGCTATCTGAAAATTGCCACTACATTTTTAAAACTGAAAAGTGATGGTACCGCCAAATGAA
ATCTGCAGCATCCTCAGACTCAATCAGGAAATACTTAAGCATTATGCTCCAGGGTGGTTTTCTTCCCTTACATTGCAACTGGACTCCTTGAGGC
ACCTTTTTAGAATTAGTGAGCCGCTAGGATTTTATACTATGCTTTGACATAAAAGAAAGTTGCTTGTCAATATGTGTTTTTTTAGTTTACCAG
CATATCAGATCTCACAAACAAATTTTAGGCTCGGATTGGATGTTTCTAGTAAAAACAAGAAAATCCAGGCATCACTAAAAGAATCAGAAATACG
TTGTGGCTTGAAAGGTGCAAACTAAATAATATAGCTAGCAGTAACGGTCACCAACTCCTGCTTTTCTTTGGTTCAGTAGATAGAGTAAAATGGA
AAATAGGAAACCAAGGTCAGTCCCCAAATCTCATTTTAACCAATAGCAGCAAAAAAAAAAAAAAAAAAAGGAATTGAGTCTGACTTTTTCCCCT
TGCTGTCAGCATAAAGATGGGGAATTGAGAGAGTTGGAAAGACATTCATTAGTTTGTTCAGATTATTAAATAACATGTCTTAAAGTTTATATTC
CAAAATTGGGCTGTGAGGTTTTTTTGTTTTGCTTGTTTTCAGTGCATGTGTGGGGTGGGGAGGTGCAAAAAAATGTTTGCCTTCTAATATACAG
CTTTGTTGTATATTAATTATATAGTAACAGTTGTCCCTGCTGCTAATGGTATGGAAAATGATTCTGTTGTGCTTTCTGAATACATATCATTTTA
GAAGTTTCAGATTATACTAAAACCATGTTATTTCATATTAGTTGGACATGAATGCATATTTATATGACACATCATTATCAACTTTTGCCTTTTG
CCATCTTTTTAGTGCAAAGTAAAACTGATATTCTTCAAATCCAAAGTCGTTTCCTCAGAAGTGTGTTTTGTGAGGGATTGCATCTTTCCCATGT
GAAACTGTGTCGAACTCCAGTAAACTGTGTTTGCTTGGGAAAATGAATTCAAATGTAATTAGTTTGAATGAAGCTGTGGAAATGTTTGAAATGA
GTATTTTGACATTGGACCTGGAGGTTTAAAAAAAAAAACCCTATTGAAAGAATAGTAAAATATATTGGATGTGGAGGTGAGAGTCAGTTGAGTG
AATTTTCTGTGTTGTATGGTTTAGATTATCTGACTATCCCTTAATTATTTTGAAACCATTAACTTTGGATAATAAGGCATTTAGGCAAACAGT
TGACACATGGATTTCTTAAGGTAAAAAGTTTAGAGACTTCCAAACTAGTCCTTAAGAGGCGAATGGGTATTGTGTTTAAAGGAAGCTTTCAGAT
TGTGTTTAAACTTCGAGTAGTAATATTTGGAACTGTCTTTTCTCCCTATTTCCATGCCTCATACATCTCAAGTTTGAGCAGCAGCTTTCCATCC
CCATGGCTCCAGGCCAATAGCTGCAGTAGAAAATCTAAAATAGAGGCCAGGGTTGGAATAATTAGCATTTTGCCAACCCCCACCCTCCCTGCCA
CCTGCCTATCTAGATGTGGACAGTATGTGCTGTGTTGATAGCATAGGGCCTGGGAAGGGTGTAAATGAGGGCAGGGTGGACAAA
GTTTGATTGGGGGTTGCGGGGAAGCTTGTAGAGGAATGTCTGTTAGATATTGATGGTATTTTGGTGGCGTTATGAGAAATGGCTGATAGTTTGC
TGAAATGATTTAATAGTAAATAGATATTGTTGAACATTTTCTGTGTGTATAGGAAAGATCCTAGATATTTTTCACACTGGGAGAGAAGTGATGT
TACTGGTATCTCATGCATATCTCTGGAGTATATAGATCGTAATATCAACTTTGGCTATCTGTATCGAAGTTTGTATTAACTGTCTTTATGTGTG
TCATTTATGTCTCTTAACGTTTAGTAAGAAAGAAATTCCAAGGAAGGTAGGCAACTTTTAATTTTAACTTCTTTCCTTTACTTTTTTTTTGGGC
GGGGTGGGGGGCAGACAGGGTTTCTGTTTGTTGCCCGGGCTGGAGCGCAGTAGTGTGATTGCAGCTCACTGCAACCTCTGCCTCCTGGGCTCAA
GCGATCCTCCTACCTCACCCTCCCAAGTAGCTGGAACTACAGGTGCATGTCACCACGCCGGGCTAATTTTTGCATTTTTTGTAGAGACGAGGTT
TCTCGCCATGTTGCCCAGGCTGGTCTTGAACCCCTGGGCTCAAGCAGCCTGCCCACCTCAGCCTCTCAAAGTGCTGGGCATGAGCCACTGTGCC
TGACCCTTAATTTCTTTTTGGTAGGTATTCATTTTTCATTTGTTGTCTTAAGCTTCTAGTTTCACTCACTTACCTGTCTGCTAAATTTTTCTGA
AATGTGTAATAAATGTTTTAATTTACCATCTCCCTTCTACCCTTCCCATCAGATTTGGGGTGGGGAGGCATCTCTACCAGGCAATTAATTCCCC
TCTGAGCCTTTGAAATTAACATTTTTGTTTCTGTGGATTCAAGGAGCCTAAAGAACACAGTTCATTAGCATTCCTAAGAAACACCTAGGTAAGC
TCCAACAAAAGATGTTAAAGCAATCAGTATTTTTAGGGACTTCAGATCTCCTGTATTTGTTGTTGTAAATGATGATGTTGGGAAAAGAATTTAA
CAGATCCCTGGGTATTCTGACGTTTTCCTATATTTTAAGAACGAAACCGACCCAGCCAGCTTGTGGTCCCATTATTCTTTATATTGTTTTTCTT
AGCACACGCTAGCAAAGATAGATGCCTAGGACTTTTCTTGGCTATTGGAGTTTATAGAAAAAAAGTTCTTTGTTGAAGGTTAGTCCTCCACCAG
AATAATACACCCTTTTTCCCCTTAGTAGAAGTCCAAATGTTAATCTTGCTATCATATATGTATGAATGCCCAGATTTATAAAGCTTTGTAGGTA
TATTACTGATTGTGCAGGAGACTAATCTAGGAGGCTTCAGGATCATTGTCATTTGTGGATCTCATTGGCTAAGACCTTTTACTTAACCTGACTC
CAGTAAGGTAGCCCCTTTGTTTCCTTGTAGTTGACTATGTGAGCTCTTGCCAAGCAGCAGAAGTGGGATGAAGGGAACTAATTTTGAAAACTTA
TTAGGCACCACATTTTTTATGTGCATTAAATCTGAATTGAATAAAGATAATATAGATTGCATAGGCTTATGGGGAGAACCAGAGACCAGGAAAGG
AAACGTTTTTTTTCTTTTTACCCTTTATGCCTTTTCATGTCCCCTTTTTGATAACATGCTGCCTTGGTCCAGATTCTGGAAACCCCACTCAGGCT
GTAATTGGTAAGCTTCTAGTACAGATGTCAGAACCTGCCCTTGATTATCTGCTGTTAGAGATAGCTTGGACCCTTTGTATGTGGAATGTTAGGT
CTAGGGGAAGAGTGGGGGTGTGAGGAGACAGCTGTGGTAAAATAGAAAATTGGTGTAGGATTCCGAAAAATCGAGATAAGTCCCTGTTCTTCCT
ATGAAACATGATCTGACCACTGAACCTTGTTTTCTTATCCATAAGCAAGGATAATATTTATGTTTCACAAACTGTTGAGAATTAGATAAGTATA
TGAAGGTGCCTCTCTGTCCTCATTGTAAAATGTAAACTTTGATGAGACAGCCTCTATTCTCAACTGGATCTTTATTTTGAATGTTAGGTTTGAA
ATAGTGATTGATGTTGGGGAGTCTGTCTTTCATTGGTATTCCCTGTTAAAGTTTTAAATCTTCTTGACATTTACACAGTGAATTGTAACATGTA
ACTAGTGTTGTTGAGTCTTTACCTAATTGAATCAGCAGAGCCTACACTGATGTCTTCCAGTTACAAAGCGGTCACTGTAAAGTAAAAGGTGTCT
TCATATCTAGGTTTGGGCTGAGAAGGATCCAATTGTATATCTAGTTCCTACTTTTCTTTTTTTTTTTTTTTTTTGAGATGGAGTCTCACTCTGT
TACCCAGGCTGGAGTGCAGTGGCGCAATCTCGGCTCACTGCAAGCTCCGCCTCCCAGGTTCACGCCATTCTCCTGCCTTAGCCTCCTAAGTTGC
TGGGACTACAGGCGCCCGCCACCACGCCTGGCTAATTTTTTGTATTTTTAGTAGATACAGGGTTTCACCGTGTTAGCCAGGATGGTCTCGATCT
CCTGACCTCGTGATCCACCAGCCTCGGCCTCCCAAAGTGCTGGGATTACATGCATGAGCCACCGCGCCAAGCCTAATTCCTACTTTTCTAAGAA
TGTTTACAGCAAAGTGGTCATTGCCAAAGGAACTTGTAGCAGTACAGAAGATGGGCTCAGAAATGAAAGAAGTCTATTGATGTGACTAATTTCT
CAACCATTTAATAGAATTATGGATTTTCTATTAAAAATAACTTGACCCTTTTCGATGCATTTAATAAAATGCCAAGTTCATTATTTGTTAATTT
TTTAAAACCACAAAATTCAATATGTCTTGTGTCAGCATATTTTTTCAAAGGCCACTATTTTACTTCTCCCCCAAAACGTTTTAAATTAAACAG
AGAACTCTCAAAGCACCTGAGAATTACTTCAGTTTTTCATTTATTCAAATAGTTGCTTAAAGTGACCAACTTGGTTTTCTTTGAAATAGTAATT
CTTGGGAATAAGAATACCTTAAATAATATAATAAAGCTTATGTGTGAGAATTTAGTACCAAATGCCGTGTTAACAGTTATGCGTGAGTATAGGC
ATTTGGGAGATTCCATGAAAAAATTTGATAAAGTCAGTAGAAATTTCAGTAATGGCTCATAAGTCTAGCTAATGCTGAATATTGAATTGCCTTG
AATTTGTTTTTTTTGGAAGTGTTACTTAAAGGAAATAAACAAAAGTCATTTAAGGATGTGTTCACTAGTGTTCATTAGGTTTAAGCCAAATGGAT
CTTAGTAGAGATCTTACGCCATTCAGCAAAAGGATTATCACAGAAGCATCACAACAGGCGCAGACTTAAATTCAATTAAAAGTAGGCAGGAGGA
CATAATTTTGTTGTATAGAAATTATGGAATAGGGCCTAATTTTAAAGAGTCTTCAAAGATAAACATATCAGGAAAAATATAGCTCATAAAATAT
GGGGAAAAAAATCTGGGAAGATGAGTATTTGTTAATGCTCTGTAGCTCCATTGCCCTCAGTATACAAGGAATGTGCCCACAATAGGGTTGGATT
TAAAAGTCTTCAAAGCTTTGGTCTCTTTTTCTTTCGTTTTCCTCTGATACAGAATGCGAATAGTCTCCCGGCCTCCAACCCCCTCTACATCCCC
ACCACCCCATAATAGAGACTTAAAGGGAATTTAAATTCGAGTTCTTGAGCTTCTGCTCAATGGCTAGGTCTTTGAACAAGTTAATATCAGAGCC
TTAGTTCTTCACCTATAAAGTAGGTTTAATACTTACCTTACAACATTGAGGATTAAAGAGCATGAGAGGATTACTTTATGAAAGGTGAAGCTTA

GAACAGAATTTTTAGTTCCTTGCCAATGCTAAAAAACAACAACAACAACACCTTTTTCAGAAATTGCTTTATTAGGCTTTTGTACAAAGGGAAC
ATCTTTACTTTCTTTAAATTTGCACATATATCTATTGTGAAATTTTAACCAAGCTGGAGGGGTCACTAGGGAGCATTGAGTATGATACTATTGC
TGTAAATCATAGAAAGGCTGGCTCAGGAGGGTACTGACTTGCTTTGACTTTGCGGCAACTTCAGTTGTCCAGTGACAAGGCTTGCTGCATACAC
ACCACTTTGTTTGTTTCTCATACCTTAAATTGTGGATTAAAAATCTTTGGGGCAGGCCTGGAGGCTCATGCCTATAATCCCAGCACTTTGGGAG
GCCGAGATGGGCAGATCACTTGAGCCCAGGAGTTCAAGATCAGCCTGGGCAACATGGGAAAAACCTGTCTCAACAAAAAAAATACAAAAATTAG
CCAGGTGTGTTGGTGCATGCCTGTAGTCCCAGCTACTTAGAAGGCTGAGGTGGAAGGATTGCTTAAGCCCCGGGAGGTGGAGGTTGCAGTGAGC
CGTGAGCATGCCACTGTACCTACCCCGTTTTGGGCAACAGAGTGAGACCCTGTCTCAAAAAAAAAAAAAAAATCATCATCATCTTTGGCAGTGAT
TAACTTTCTCCTTTCACACTTGGGATGGTGCAATATTTGGCATCTACTTAGGAAGCTAAAATTTTCACGTTTAATTGTAAATGGAAAAGTTTAA
GTTGCCATATTCATTCATACAAACATTCAGAAAGTGAATATTGTGACTAGACACAGATGAACAAGACAAACCCACATGCCTATCAGGATGAACT
TTGAAATTAGTACGTTGTAGGTATATACAGTCACTTCCTCTGTTGAGATTTTTCATTAGGCCTCAGTACAAAGGCTGCTGTCATACAACATGAA
TGGGGACTGGAGGTACTTTCTGGCAGTTAATATTTCACTATCAGTGCAAGAGAGTGACGTCTCCATTTAGTCCTAATCGTGAGTTTTTCCCCCC
TTAAAGAAATTGGAGACCTAGGACCTTGGATTTCCAAAGATTTCCAAACTCTTATTTCTTAAAATGTTACAAAAAATGGTTTTTTTTTGTATAC
CTATATACCCATTAAACTTTTTTGCCTGAAATAGGCAAAAAGATTTAAGTTCTGTGTATTTATTTCCTGTTATCTTTTTGTATCAGACATCCAT
GTTGCATGAATTTTAGAAAAATAGTTTTCAGCTGGGCTTGGTAATGGCTCATGCCTGTAATTCCACCATTTTAGGAGGCCGAGGCGGGCGGATC
ACGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGCGAAACCCCGTCTCTACTAAAAATACAAAAAACTAGCCGGGCGTGGTGGCGGGCGC
CTGTAGTCCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCATGAACCCAGGAGGCGGAGCTTGCAGTGAGCCGAGATTGCGCCACTGCACTCC
AGCCTGGGCGTCAGAGCGAGACTCCATCTCAAAAAAAAAAGAAAAATAGTTTTCACATTTCCTGAGCAGGTAGGTTGTCGGAATGGCTAGAGAT
GGTCACATTCTGTGTGAGAAATCATGTGACAATAGCTAATTCAAGTATTTGAAATAATTTAAATCCTTGAACTGAATTGATTGAAATAAAGTAT
TTAAAATCACCATCTTCACATATTTGAAGAACTAAAATCTTAGAGAATAAACTCTACTTAAAGTCCTGGGAAACTAATTTTATGAAACTATTGA
AATATTATTGCCCCTTCCTAATCCATGAAGTATCTTGATATGGGTAATACATAAAAGCTGTTAAAGCTCTTCAGAGAAAGATGCAGAGTACATA
GTGGTATTACTTACAGTGGTTTGAATACTAGAAAAGTGATCGGGACAAAATGTTAGACTTACTGTGCCTTAATCATACAGTCAGTGCATTTTTG
CAGGAATGGATGCAATGTAAGTAGTTCTTACTATTTAATACCAGAAATGAAGAAACAGTAGCTTCTTAGGAATTGATTGTGGCTCAGGATCTAT
TTCTTAATTTTTAATGCTTCCACTTAACCAGGAGAGGAAAGGGAGGAGAAGGAACACAAATTTGTTAGTCTTTATAACTACTGGCTTGTTACAC
TTGATTTCCAAACCACAAGTGCTCCAGGGCCAGGCACCCCACACTGAGAAGTCCCTAAGAAGTGCATTTATTGGAAATTTGATTTTAAAAAAA
ACCTCATCTCTACTAAAAATACAAAAGATTAGCTGGGCCTGGTGGCGCATGCCTGTAGTCCTAGATACTCAGGAGGCTGAAGCAGGAGAATCAC
TTGAACCTGGGAGGCAGAGGTTGCAATGAGCCGAGATGGCACCACTGCACTTCAGCCTGGGAGACAGCGAGGCATCGTCTCAAAAAAAAAAAAA
AAAAAAAAGACCATGTTAGGTTCTGTTTAAGTAGTATTTCTTATACCCTGGAATGAATGAATGCCTCTTAGTCTTTAGAATTTCATAAGGTTTA
GCTAGGTATACTCAATACTTCTCCATTTTACTACATATTTTTAGGAAGGCACTAGGTATTGTGAACTCCTTGAGAGTTCTAAACATCTCAGAGC
CTGTTTGAGTATTGATGGCATAGTCACAGATACTCCATTTCCTTTCTAGGGAAGTCTGCCTGCATTACCACGTAACCCCAAGCCAGAAGTGTAA
CCACTTTTCTCTGACTTGCATTGAGCTTTTGTTATCCTCTTTTAATATTTCATTCTGTAGTAGTCTGTATTTATGTGTTTTCCTTATTAAGAAG
TGGCCAGCACTTTGGGAGGCCAAAGTGGGTGAATTGCTTTAGCCCAGGAGTTCTAAAGCAGCCTGGGCAACATGTCGGGACCCCGTCTCTACAA
AAAAATAACAAAAATTAGCCAAGCATGGTGGTGTGCACCTACAGTCCCAGCTACTTGGGAGGCTGAGGAAGGAGGATCAGTTGAGCCTAGGAGG
TTGAGGCTGCAGGGAGCCATGTTTGCCCTACTGTGCCCCAGAACGAGACCCTGTCTCAAAAAAAAAAAAAAAAAAAAAAATTAAGAGCACTGTTT
CATCCTGTATGGTCAATACAGATGCTTTTACCAAATGTTTCAGTTGTGAAGTGCAAACTCCTTTCTCCCCCCAGCTGGTTGAAGATCAAGTGGG
AGACTTTTGAGAGCTTAACAGTAAGTTTTCCTTGTTTTTCTCAAGCTGATATGCCTAAAAGTCACCTGGGGATGATTGGTGAAAATACATATTC
CTACTCGTACACCTTGAAGTTGATTCTATAGTGGAAGGTACTGAAAATCTGCATTTTTAATGTATCTTCAACAATCCCAAATGATTCTGACTAA
TGCAGGTGACCCATAACCTCCTTTGGAGAAGTTGATCTATCTGAACTTTACTATCTTATTTGGCTAAAGATCTATATTTTGCTTCATTCAATTA
CGATACTCCACAGGTTAAGGTATAAAGCTTACAGGGTGATGATGATGATGATGATGATTATTATTATTTGGAGACAGAGTCTCCCTTT
GTCGCCCAGGCTGGGGTGCAGTGACACGATCTGGGCTTGCTGCAACCCCCACCTCCTGGGTTCAAGCGATTCTCCTGCCTCATCCTCCTGAGTA
CCTGGGATTACAGGCACACCACCACCACACCTGGCTAATTTTTGTATTTTTAGTGGAGACGGAGTTTTGCCATGTTGGCCACGATGGTCCCAAA
CTTCTGGCCTCAAGTGATCCGGCTGCCTCAGCCTCCCAAAGTGCTTAGATTACAGTAGTGAGCCACCGTGCCCAGCCAAGATTACAGGATATTT
TTAAAGGACCAGAACAGTATTTTTTAATATATGTTTATAAAAGCTTGATACTTCACTCTAAGTTATAGTTTCTACCTTTCAGTGAGCATTTACC
AAATAGCAGATATAGTTAACTGCCTTTGCAGCTGTTTTACTGTGTGTCAGAATCCTAATCCTTTCTCCTACTTCAGTGTTTAACAAGCCATTTA
ATTCTGATGTTACTTTTTCGGATTGGGTGACAAGCAGAGCACAATGAGCAGGGTTTGTTTTCATACTAATACTAGGATGGTTAAATCAGGACTT
TAGAAAGTAAGTGGAATAATTTAGTGGAATACTGAAAATCCAGTCTGTGGAGCTCACTGCCTTTAGATTAAATTAGTTGGGGACTTCAGCTCCT
GATGGTACTGATTGAAATGGAAGCATTTGAATAAAGCAGTATAGTTGACGCTTGAACAACACGAGGGTTAGGGATGCTGACTCCTATGCAGTCA
AAAATTCGAGTTATAACTTTTGACTCCTCGAAAACTTAACTAATAGCCTACTGTTGACCAGAAGCCTTACTGATAACAGAAACAGTCAATTAAC
ACACATTTTGTATGTTATATGTATTATATACTATGATCTCACAATAAAGTAAGCTAGAGAAAAGGAAATATTAAGAAAATTGTAAGGAAGAGAA
AATATATTTACCATTTATTAAGTGAAAATGGATCATCATAAAAGCCTTCATCCTCATTGTCTTGTTGAGTAGGCTGAGGGGGAAGAGGAGAGTT
TGGTCTTGCTGTCTCAGGAGTAGCAGAGGAGAAAGAAAACCCTCATGTAAGTGGACTCAAGCATTTCAAACACATATTGTTCAGGTGTCATCTG
TGGTTCTCAATGTGTGGTTTCCTGATCAGCAGAACTGCATTGTTTGAAAACTTGTTGGACATGCAGATTCTCGGGCCTCACCCATACCTACTGA
CTCTTAAACTCTGGGAGTAGGGTCTTAGCCATTTGGGTTTTAATGAGTGTCTACCAGGTGATCAGATGTGCACTGAAGTTTCAGAACCAATAGA
ATAGAGCAAGATACCAGTTTTGTAGTAATTCAACCTCTTAAGCAGTATTCCTTGTTCTTTCACAAGGAACCATGTATGGAGTTCATTACTTGTG
CTTTCTTACAGTTGTGAAGTTGGAGTAATTCATAATCGGGGGAGGATCTTCTGGAGTATAAAAAAATTTAAGGAGCAGTTATATGATTAACACC
AGAAAGGTTTCTTGTATTTCTACTGAATATATGCCACTTCAGTAGGAGAGGTGTGTTCAGTCTTATTCTTTCTACAGCTAGTGGCCCAGAGAAT
GGCCTGCGCATTTCAAGCCCTGTCAATGAGAATTGTCTAGACAAAGAAGGTCCCTTGGTTGAATTAGTAATAGGATACATGAAACAATGTGTCA
GCACACTTAAAGTCTTTATGGCCAGACAAAGTATGGTCTTAGTGTGTTTGGAGGCCCCTGACCATTGGAAACAAAGGCAGTTTAGGCTGAGCTG
TGGATCCGCACGTAGGCCAGAGGTTTGTAGTCACTCTCACTCTTCCCAGGCATTAAGCGTTCCTTAATGGAAGCAAAGGAGGACAAGCCTACAG
GAATGGGCCTGCCCTAATTGAGCTGGCCTGAGAAGATACATTTTCAGGTTAGACAAGTCCTTTTTCCCTTTTAAGTTCTGCCTCTTGGGAAAGA
AGATGCATTTGTAGTGCAGGGATGTCCTTGTGAAAATGTGACTTGTTATAGAGCAGTATTTGAAATGCAAGTGCCCAGCCGGGCGTGGTGGCTC
ACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGCGGATCACCTGAGGTCGGGAGTTTGAGACCAGCCTGACCAACATGGAGAAACCCCA
TCTCTACTAAAAATACAAAATTAGCCAGGCGTGGTGGCAGACACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACCC
TGGAGGCGGAGGTTGCAGTGAGCCAAGATCATGCCATTGCACTCCAGCAGGGCAACAAGAGCAAAACTCCTTCTCAAAAAAAAGAAAAAAAGAA
ATGCAATTGCCCATCTTAAGGGTCTTGTACTAGTTAATTACTTTCAGAGATAAGTAAAAAAATTCCAGTGTTGTCTTCTATTAAGAGAGCAAAG
GTAGTTAGTAAAAATGGGATTTGTTTGCCCTGCTCCCGAAGCTTAAAATAATTGCTCTATCTCAGTTTTGTCTTATGCTTCGGCAGACTAATAA
CTTCAGTTGAAATGTTTTCTGGGCAGGTGTTCATTGAGGGCCTGATTCTCCAGAGGTTCTGTGCAGAAGCAGGCTGCTTTGAGATAGCCAGCTT
AGCCAGGCCTGGGAACCACACAGAATAGTGCAGTACCATGTAGGGAAAAGTCCTTGACTGGGCTGCAATAGGCAGAGTGGAGAGTGCTAGGAAG
CAGAGTATTTTCCTGGATAATTTCATCCAGTAGAACTTTTTGTCATGATGGAAATGTCCTATATTTGTGCTGTCCAATATGGTAGCTATTAGCC
ATATGAGGTGTGTCTGTGTGTGTGTGAGTGAGAGAGAGAGACAAGAGTCTTGCTCTGTCATTCAGGCTGGAGTGCAGTGGCGCGATCT
CAGCTTACTGCAGCCTCTGCCTCCCAGGCTCAGGTGATTCGACCCTCAGCCTCCCGATAGCTAGGATTACAGGCGTGGGCCACCACGCTCAGCC
AGTTTTTTTGTATTTAGTAGAGACGGGGTTTTGCCATGTTGACCAGGTTTGTGTCAAACTCCTGGCCTCTAGTGATTCACCTGCCTCAGCCTCC
CAAAGTGCTGGGATTACAAGCATGAGCCACTGCACCTGGCCTATATGAGGTTTTGAGCCCCCTTGAAATATGTGGTAAGTGGGACCAAAGAACT
TAATTATTTTATTTTATTTTATTTTAATTTAAATATAAACTAGCCAATAGTGGCTACCATATTGGACAGCTCTAGATAAAATTTAGGTAAGACC

SAGRES DISCOVERY 02-31

CAAGAGATTGTGGTTTAGATTCTGCTTGGAATATGAGTGATTGGGGCTCTTGGAATTTAAAAATCCAAAGACACGTGTGAATTTGATGTTATGA
GTTTGAATAACAGCCTTCCTTCAGTATGTCTACATTGTTTTATCCTGACTGACATTGTAAGTCCTAAGAGGACTTACAACTGGTAAGTAAAGTT
GTGTTTACCAAAGCAGTTGGAAGTTCAGGCAGTTGTACGTTTTATTTGACCCCTTAGAGCTAAACAGGTGAAAATTTCAGGTCCTTTGGATGAA
GTAAGTTCTCATTTTATCTCAGCAACCCTATGAGGTAGGTTATGTCTGTTGCGTAGTTGACAAAACAGATGAACTTATATTTATGTACACCTTT
ATGGATTAGTAGCCTTTAAAATGGTTAGTTTTATCCCACAACTTCATTTGAAATTGTAAGTTTCTAGCATGTTGCCTATAACAAGAAGGTAATT
TATTTCTATTTGTTAAATTGTTATCAGTAATAAGTCAATATCCTACTATAAGTGGTAGAGAATCAAAGATTGTAGACTACCAAATAGCACCCAA
GAGGCTAATTCATGCAAGGTGTTGCTTATAGTAAAAGCAGATCAGAACTCAGCTGCTGTATGCCATCTGGGGTTATCTTCTCACTTGCACGCTC
ATGACCAGTGTAGGCTGCATCTTATAAGTAATCTGGCTCACAGTTAGCTAGACATATATTAGTCTGATGGAACAAAATCCGATTGTAGCTTTGA
CCACTATGAGGACCACTGTCATATAAGGTCTTAGATACCAACTTGAGTAAATTGCTTAAGGACTGGGAATAGATCCAGATTCCTCCAGGTTTAG
CTTCAAGTTGTGATCAGTTTTCGTGGGATGCAAGGAGAAAATGAATAGGAATGAAATAAATAGCTGATATTTGAACATTTTTAATGCCCTAGGC
AGCGTCTTAAGAATTCTAAGCTTTCATTTATCAATCCTGAGGTAGTTAACATTACTATTTCCAGTAATGTTCACTGGGCCAGTTTACTTTTGAA
GAAATTGAATCTCACGGTTTAAGTAAAGTAACTAGCTCAAGGCTATATAGTTATAACTAAGCCACAGAGCAGGGAGGCTAATCTAGGCCTACCT
CATGCCACAGCCTGAGTTCTTAGTTGTGATACAAAACAAGGTAAAGGGGGACCTGGGGTGACTTAGTTGCCTCCTGAGAATTCTGGGCTGTGGT
GGAATTACCCATCAGACTGGGGGCGCCCATCTCTTCACTTATGATGTGTCCTTAACAGACTAAATGCAGGCTCTGCTGCACTTTAATGTAATTC
TTTCCCTATTAAGGGAAGCTTGCTTGCCTTTGCAGCAAAGCCCCCTGGATAGTTTATTTTTTAGCAGTTCAGCTTGTGCTTGGACCCAGTTGTT
CCAGAAATCAGTAAAACCTATTTGAGTATTCAAGAAAAAGGATCTTTTTGTTAACTAAGGATTAACTAGAAACCTTATTTTATAAGGGTTCCTG
AAGTCTGCTTATTTACTAAGGAATTTCATCAGAGGTGGTTAGCATTTTGTGAACAAGTATGATGTTGTTCCCACTTCAAGGGGAATAAATAACA
AATTTAACCAGCTTGCTGCTTAAGAAGCAGAATTAGCAGTGGGCCAGTCATTGGCCTCTCTTCAGAGTTCTCATGTGACTCACTTAGTTTTGCA
GAGTGAGGTAGATTTTAACCACTTTCAAGTCAAGTTGATTGGCCATTCATGAGCTGTGTGCAGGGAGAGAAGAGAGACGAGAACAAGTTAGCAG
AAAGCTGAGGTGTGTTAGACGGGAGTTGTAGGTAAGTCAGGGAGGATATTCTTCATTTAGACCCTGAGCTTGAGTAAGACACCTTTCTACAGGA
GACATTGCGGATACTTTCTAGTTAGTACTAGCGCAGTGTTCTGCAAACTACACCTGCTTTTGTGTGGTCCACGAACTAAGAATGGTTTTGTATT
TTTAAATTTAGGCATGTGCCACATAACAAGATTTCTGTCAACAATAGACCACTTATATAATGATGGTCCCATAAGATAGAAGGTGGTATTTTTA
CTGCCTCTTTTCTGTGTTGCAGATACGTTCAGATACACAAATACTTAACACTGTGTTACAGTTTCCTACAGTACTGTAACATGCTGTACAGGTT
TGTAGCCTAGGAGCAACAGGCTATACCATATAGCCTAGGCGGTAGTAGGCTATACCATCTAGGTTTGTGTAAGCACACTATGATGTTTGCATGA
CAAAATCGCCTAATGACACATTTCTCAGAATGTAGTTGGAGGAAAAAAATTGAAAGGAGAGTATTACTTCATGACACAGGAAAATCATTTGAAA
TACAAATTCCAGTGTCCATAAATAAAGTTCACTAGAATGTGGCCATGCTCATTCATTTACATGTAATCTGTGGTAGTTTTTGTGCTACTGTGGC
AGAATTGAATACTTGCAGTGGAACTTGAATGGGCTACAAGGTGTATTTAGTACCTGGCCCTTCACAGAAAAAGTTTGCTGACCTGATTGAATGT
GCTTGTGTGTATCACAGGAAGCTCACCAGGACTCTTGGTATGTAGCCTCTAGCTCCCAAAGGCATCTGAGCCCCACTGGCAGGACTCAGTTACC
TGTCTCTGTCTAAGCATGACTCCACCCATTAGCGTCCAGACAACGAAGAAAACTTCTATTTTAAAGAGCTTGACTAACCCCCTCCTTATTATCT
AAGTTAGAGTAGCTGTGCCACCCCTTAAGTAGCTTTTCCTTCTTCCTTTCAAATAGGGGTTGGAAGAGTAGCAGGTGAGAACAACCTCTTTCTT
CCTCAATTGTAGAGACTCAATAGTCTAGGCTATAAATTAAAAAAAAAAAAAAAAAAATTCCCCAGAGGCTGACTCAGCACATGCCTGCCTTTTAA
AGGAACAGAGAGACCCAATTGGAATAGAAACTGAAAATAAAATCAGCAGCACATGAATTTTTGTAGGTGGCTCGTATTTGCTATTAATATTGCT
CAGAAGACTCAGGAATAAGAAATAATAATGCAGGGTTTCTTCAAAATATGGTTCTGGACAGTGGATTATAGTTACCTGGAGAGCTTGTGTTAAA
ATATCTGAGGATGATTCCAAGTACCAGGGCTTATACACAGGAATACTTGAGAACCACTGCACTCAAGCATTTAAAATTTTCCTTTTACCTAAAT
CCACATGGGCCAAGACAATTTTTAAAATTCATAGAATTCATGTGACCAGACGTAAGGGGTCAATAAAGGTCATTTTATAGATCAGAAAACTGAG
ACCCAAAGCTGAGAAATAAGTTATCTAAAACCCCACCAGGACATTGCATTAAAGGAGTTGCTCTAAGCGTGTCTTCTTACTATTAGAAAGTGAA
ATTGACTTTTAAATCTGTCACTTAGTTTTTGGCATAATAATAAAACAATGAACAGTCTGTTCTGGCTCTAATTGCGCCTAGAATCTCCAGATCA
GAAGACCTTCTTGTAGATCAAGTAACATACTTCTCTGAAAGACAGTTTGTCGGTCCTATCACTGAAGTCTGAATTATTTTTTTGATTTTTAAAT
ATAATTAATTGGTCCCTGGAAATGAGAACCAGAGGAAGATAAGAAGATGAACTTGAATTTAAGGACCATAATGGAAGGAGTGGGATGGGAAAGA
AGGCTGTAAAATAAGACAGTGGTTGTGGAGAGACAGATTAAGGTAAGGAGAGAAGGTTGTAAAATAAGACAGGAAGGGGTTGTGGAGAGACAGA
TTAAGGTAATTGTGGTGTTGTAAAGCCATAAAAGAAATTTAAATGCGGAAGTGGCCTGGAAGAGAAAACATTCTCTGATCATTTAACCCTTTTG
TGTGTGTGTCAGTTTGAGGCGTAAAGTAGACGAATAGCCTCCTTCTTGTGTGTCTTTTCCATGGCAAAGCCTTTAAGGATAATAGCTGACCACT
AATCTCACACAGCTGCTGATGTTTAAGAACCTAATTCTTGAAGTGTTTTTAAGTCAGTTTGTGGCATTTCTTCTGAACACTTGGGCACTTTGGA
AATTGTAGTGACAGGTTTTAGAAATTTGAAGTTGTGTTGCAGAGGTGATAACAAAATTGGGTCTTTGAGCAACTCTGAGTCTTTTAATGCAGTG
CACTTCTAAGTTTCCGATGGTATTTCCCCAAGTTTTGAATATTGAAAAGAAAGACCACACTTTGCAAAATAATTGGCAACTTTCATTTAATTCA
GTTTGACCCTGTCTTGAACTTGGTCTTTGTAACTTCTTATGAGGGTCTTTTCCAACGGTAACATTAGAGGCTGATTCTGGAACTTCATGGAGGC
AAGTCCAGTGAAACTTGGGCAGTTAGGGGGACCCTTTCCCTCTCCCTTTTCAAAGTTACTCAGTCAGCAGCTGCTACTGTTGGGATGGCGTGGT
CAGGTGGGTATTATGCTTATTATGAAACTTGATGAGGGCAGGGACTCAGTTTTGGGGCTGAGTTGTATTTCAACACTTAAGTGGCACTCAGTAA
ATACTTGAACAAATGAATATTGTGAATCCCAACTTCCTTAAGGACAGAAGAACTATTTATACTTGTCTGCCATCTTCTTAGCTAGAGATTTTTT
TTTTGTTTGTTTTGTTAGCTTTCAAGTTGAGGTCCCTAACAGGGGAATCCCATAGTTTCAATGATGAACAGGTCCATGACAAAAATTCTTGTTT
ATATGCAATACACATTTAGGGAGAATAAATGGTCATGTGGACTTTAAAAATTGGAAATGTTACTAGTCTCTTCTCTCATTCTTTTGTTTTGTTT
TATGTTGAGGCAGAGTTTCACTCTTGTTGCTTAGGCTGGAGTGCAATGGCACGATCTTGGCTCACTGCAACCTCCGCCTCCGGGTTCAAGTGAT
TCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGCATCACCATGCCCGGCTAATTTTTGTATTTTTTAGTAGAGATGGGCTTTCAC
CGTGTTGGTCAGGCTGGTCTTGAACTCCTGAACTCAGGTGATCCACCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCT
CCCAGCCCTCATTCATCAGTTTTTTAAGGGTTTCTTTAGAGCTGAATCCTCCCAGCAGTTTTCTTTCCTTTTGAATTCCAGAGCTCTTTGGGCC
TTTAGCCAGAAACAGTCTCTGTCCTGCTTACTTTGAAAGGCTGTTAACTATGCCCTGGAATTTTGGAAATGTTCTCCTTGAGAATTGCTGTAAA
GTAGTGATAAGGACTCTTCTGTAGGCTACAAATTGAAACCAGCCACCATTAAGATGGCTCACAGACAGGGTGTCCTGGATTGAAACTGGACCAA
CGTTGGTATAGTCTGAATTTGAGGAGTAAAAAGAAATATGCCCTTCCCTCTCCCCTAACAGTTGGGGAATACTTGTTTTTACTCCTCAACCATT
CCCCTTTTAATGATGACAAGTTTTCAGGCTTTTTCACTGCCTTTAGTTTGCATTAAGTTCCTGGGAGATTCACACACCCCTGATATTTACTGC
ACTCCTGGATGCCAGTTTTTTATCACTCAAGACCAGCTTGTTATCTGTCCTAGACAGAAGCCATCTTCTTTTAAAAGTATTAGAACATACTGGG
TATAGAGTGTTAAAGAGAATGTTGATTTTTTTAAAACTTCTGCTTTTGGGGATGTGATATGGGTTTGAAAGTCAGGGAGGAAGTAGAAGATGTA
AGGGTTTGCCCCAGTACAAGAGTTTTAATAATGAGGTGATAAATATTTTCTTTAAATAATTTATTCACCCATTGTGTTCACTCAAGTGGTTCTA
GTGTTCACTTTCCTTATGCGCTAGTTGTATATTTGTATGTCAGAGAAGAGCAGAGATTATCTTTGACAGAAGTTATATTGTGAGTGTCTTTTTG
GAGAAGGTAGGTTTTGATTGTGTAACTATGCCACACCTCCATTCCCCATACACTTGACTTGATGATTATCTTTGAAGGAGGAGCCCATCATATT
ATACAGCTGCCCTAAGTCTCAAATCTATCATCAAAAGGCAGTGTAAAGGGGACTGGCTCAAAACATGGCAAAGAGTCTCCTTTATATCAGAAAG
CTCTCTGCCTTTGCTTATAAGGCAGCAAAGGACTCTTCTTCCTGCCCTGATCTGATTACCCTAAAAGCTTTAAGATCATGGAATAGTTGATAAA
ACAGTCAGTATTCTGTGCTGATGACTTATCCTTTTCTCCCTTAAGAAAGAGTAAATGTTTTTGCTTGGATTGAGTTTAGAGACACCAGATAGAA
TAAGATTGGCAACACTGTTAGCCACCTGCTGACCACAGCTAAACAGGCATATGTGCTTCTGCATGGGGAATGCTATGGCGTTAACAGTGCCTTC
CTTAAAACCTGTAAGTTCGTTAGGCTTCCGGGTACCAGGGTTGTTAGAGTAGGCCACAGTTTACTTCCTTTTTCATAAGTGCTTTTCTTTCCTG
GATCTCAGTATAGGAAGGAAAATCAGACAGCATTTCTCAGTTGTTGGCTCGGTGGGCATTGTGAATGGGTATGGTTGCTGCCTCAAATGCACAT
ATACAACCTGAGCTAAGTTGTATGAAATGATTGAGTAGGCTGACTTCAGTTCTATGTAAATTAATCAAGGAGAAGGTTTAGGAATGGTTGTACC
GCATTGACAGTTGTTAACATGTTTATAATTTCTTGGAGATTAGCCAGGAATTCTGTTACAACTACACACAAATATTGATTGACTTTCAAAATAA
AATTCTTTAAAATCACTGAAATTTTCTGAGCCCAAGTTTCTTCATCTGTAAGATAAGCAAATTTACTAAGGTCATGGGTATCTAGTACATGATG

GACAGAGATTTGAAGCTCTTTACCACTGATTTATGCTACCTTCTCATAGATCTAGTAGTTAAGTGACTTTTACCCAAGGTCATACACTGAGTGA
TAGAACAAGGATTTTGAATAAGATATTTTTCACTGTTGCACTGGTCTGCTTTCTCCAGCTTCCTTCAGAGGTCCCTAAAGGGGACCTCTGTGCT
GCTCTGCAGTGCCTCTATCACATTAGGGTTTGGTCATGGTCTTTTGTGCTCATCATGTTTGAACATGTTTATCAAAGTATTTTACAGACTTGGT
TATTTCTTCCCCTCATGTAATTTGTGTATTTGTCTGTTTTCCCTATGGAGAATGAACTTTTTATCTTATATATGCCTGATGTGACATTGATTTG
GCCACTTGGGGTTGACCTTGTACTTGGTTTCCATATCTGCAGCTTCATTGTCATTTTGGGTTTAGGCCAGCTTTCAGGAACTTTTTAACAGTTG
GATCAAATTTTGTTGGATTCATTTGATACTGAGTTTCTTATTCCTGTATATTTTGTTTCCTTTCTATCTAAGCAGAGAACTAGGACTCTAGAGT
TACAAGAAGTTAGAGTATATCTATAACTTTTTTAAAAGAAAAAAAAAGGACCAGGCATGGTGGCTCACTCCTGTAATCCCAGCACTTTGGGAGG
CCAAGGCAGGTATATCACTTGAGGTCAGGAGTTCGAGACCAGCCTGGTAAACATGCTGAAACCCTATCTCTACAAAAATACAAAAATTAGCTGG
CCATGATGGTATGCACCTGTAATCCCAGCTACTCGGGAGCCTGAGGCAGGAGAATCTCTTGAACCTGGGAGGCGGAGGTTGCAGGGAGCTGAGA
TTGCACCACTGCACTCCAGCCTGGACAGTAGAGTGAGACTCTGTCTAAACAAACAACAAAAAAAAACTCTGTTTTGGACACATGACTTTAGGGA
GATAAACATAACTCTGGGATTTTATTTTTTAATATGCTCCTGAAAACAGTCAACTCTCCCATTTCCTAGCTGGGAGAAGTATGTCTCACTTAAT
TTTGCTCATTCAGGAGAGGATGAATTTTTCAGCAATGATAGTAATAGCTGGCTGTTGCAACTCATTTCTTGCTGCAGCGTAGCACATCCACCAA
GAATGCCCTTTCACCTTCCTTTGTCTTGCCAACTCCCTCTTAGCTTTCAGTAAGACTTGGCTCAAACTGCATCCTCCAGGAAGCCTATGTTAAC
TCCTAACTGCCACTCTTGGATCCAGGGTTTTTATTTCATCTTGTTCGCTGGTGGAACCGGGCTGTTTTATCTCATTATATTACTCTTCACTTTG
AAACAAGGAGGCAGTTAACCTAGATTCAGTATTTTTACTCTTAGACTTTTTTTCCCCCAAAATGCCCATAAATTAAGCAATCTTACTGCCTTAC
TGCGCTTACTGAAAAATAGCAGCACAGCAGAAAAATAGAAAATCTTGCTATCATGTAAGAGATGTGGAAGTAATGGTGCCCACATGCTTCATTT
GGAAAATGTCTATTACCTTTATAAAGAGTTTGTATAGTTTCTAAATACAGGAGCATTATGATGCGATAGAAACTGTTACTTTAATGTTAATTGA
CGTTCGAAAATTTGAGTTTCAAATGTTTCCTAAAACATTTTTTCTTAACCCTTTTGCTATTCCATTGATCTGCCATTCTACATTCTGCCTCCTT
TGTTTCCCTGTCACTTATTAAAAATACTGCCTCTTAACTTTGTTGTCATCCACTTATTTCTCTAGATACACCTTGGAGTGTTTTTTCAGGCTGA
ATTGTTAGGCATGGGATTGCTGGGTTTAAAGAGGGAGTGTGTGAGTTTGTTTGATTTTGCCAAATTCTTCCTTCATGGGGGTTATACCAACTAG
ATGCACCTTATTTTCAGAGATGGTAAAATGAGGCAAAAAGTATCTTAGATTTGAGGAAATCGTTACCACCCAGAGTTGTGAAACTTAGAGGTGA
TATATGTAATACTGCCTTGCACAAAATATACATTTAGTAAAGGATACTGATATGGTTTGGCTGTGTCCCCACCCAAATCTCATGTTGAATTGTA
GCTCTCATAATCTTCCTGTGTTGTGGGAGGGACCCGGTGGGAGGTGATTGAATCACCCGGGCAGTTACCTCCATGCTGTTCTTGTGATAGTGAG
TTCTCATGAGGTCCGATGGTTTTATAAGGGGCTTCCCCACCCGCCCCCGCACCTGCCCCACTTTGCTTCACACTTCTCCTTGCTGCCATCATT
TGAAGAAGGACGTGTTTGCTTCCCCTTCCACCATGATTGTAAGTTTCCTGAGGCCTTCCCAGCTCTGCAGAACTGTGAGTCAATTAAACCTCTT
TATAAATTACCCAGTCTTGGGTATGTCTTTATTAGCAGCGTGAGAATGGACTAATACAGATACCTAGATACCCATTATTATCTTTTGTGAACTG
GGACTATTTCTCTATCGTAAGAGTGGTAAGAAACTTGAGTTGAGATAGTGTTTGAAAGCACGCTAGCATGGTGCTGGCACCCGTATTAGTGCCC
TTTTCTCTTGTGTGCCTTGGGCAGCCAGCTACTTGAGATTATATCTTAATTACCTTAATGGATTGTAAACTCCTTGAGGGCAGAGTCCTTGTCT
GGTGAGTCTTTAGCAGGAAGCTTTGGACTTGAATATATTTGGTTTTAAATTGAATTAGTCTTCAGAATATTATTTCTGAAACAGTAGGAAAAGGA
TTTCTTTTTTTTTCTTTCTTTTTTTTACACATTAGCCCTCAACTCCTGTGTAATGCTACCTAACATCTATTCCTACAGTAGGAAAAGACAGAGAC
ACTTTCCTTTTGTCTGTCGGAAGCTTCTTTACTTAAAAGCTTTTTAAACCCCAGGGAATACGTTAGGTAACAATAGCAAAAGATGTTGATTCCT
GTTCTATCTGTTTAACTTATCTGTCCTTAGGGAGTAACTCCAGTTAAATTACAGTGAAAGGAGTTAGTTGCCATAAGTCTTCTGTTTTATCAAG
ATTGCTTTATTGCAGGGGGCTTCCTCCCATGTCTTCATCTAGAATTTTCACTAGGAATTAAAATATTTGTTACTAGAAAGCATTAGTTGGCCTG
AATTCACAGTGAATTAGGTTTTCTGATGATTTAATGTGCACTGGTTTGCATCTTTCATATCTGTCAGTTAAATTCAACACATTTCTTTTTGCAC
TTAACAGGTGCTTGAAGTGGCAGGGTCCTTCCTCTAAAACATTTTAAATAACACTAGTAGATGAATTCCAGTTAAGGGGAAAAGGTATGTGCTG
AAAGTAATCTTCAAGGCCACAGTATGTTCTCTCCAAACACATGTTTTCACCACGAGGGATGTAGATCTGTGTGCCCTTATTGGCTTTACTTTTT
CACTTACTGGCATCTCTTCTGACCAACATCTTTAGTCAGATGTCCCACTGTTACCTTAGATACAATATGGCTCAGGCTGGTCCATCATTTCTCC
AGTATTTTTCACCATCTTTATTCTGTACAAGTTTCTTGTTTTTGCCAAGGCCCCTTGTTCCCCCAGTCACCTGGACGTAAAGACTTTCTCTGAC
TCTTTATTACACTGCATTTATTACACATAGTAGTGAGTTCCTGGAACTGGGTTCTACTTCCATTTTCCCAAATGTGCTTTTACATTTTTTCCTT
CCTTCTTAGTTCCTTTGCTGTCACTTTTTTTGTAGATTGCTTCAGAAACCTCTAACTATTTATTTTGCTTTTACTTTTATCTCTTACTATGCCT
TAACACAAACCCTCTCTTGGAACTAGGCCAGTCTTCTTGCCATGCCCTCACATAATAACACAAAAATGAAGGGTTGGAAAGGAAGAAGCTTAAA
GATAATGTTTAACTTATGAAAAGTTTCAAGCATACACATAGAGAAATATAATGAACTCCCATGTGTCTGTCACTCAGCTTCAGTAATTACCAAC
CTTTTGCCAGTTGAATTTTGTCTATCCCCGTATCCCTTGGTGCTCCCCCAACCACCACCACCAGAGAGTATTATAAGCAAATTCCAGGCATCGC
TTACATGGAAGTACTTCAGTATTCATCTTTAGAGATTCTTTAATCTGTCAGTTTACCTACTGCAGAATATCTCTACAGTTTCCCTTTCAGTTGG
TTATTTAGTTTGTTTAAATGCTTTTGGCGTTCAGAAGGCATCCCATTCTTTTAGTGGTTAGTTCTTTTGTACTGACCTCAATTTGCCTCCCTAT
CATTTCTCAGCAGTAATATAAATTTATATTTACTCAGAAATTACAAATTTACTGAGTAAATTTATATAATACAATATAATAGTCATTAAGATAT
TTGAAGAAGTTGCCATGTAATACACTTTTTGACACACCTTTCACAGCACACATAGCACATGTAATAACTTTTATTTGTGTTTTAGAGAGAGGGT
CTTGCTCTGTAGCCCAAGTGGAGTGTGGTGATGTAATCATAGCTCCATCCTTGAACTCCTGTGCCCAAGCAGTCTTCCCACCTCACCCTCAGAG
CAGCCAGTATTACAGGTGCACCAAGATGCCCAATTAATTTTTTAAACAGTTTTCGTAGAGACAAGGTCTTGCTATGTTGCCCAGGCTGGTCTCA
AACTCCTGGCCTCAAGTAAGCCTCCCACCTTGGCCTCCCAAAGTGTTGGGATTGTAAACATGAGCCACCGTGCTCAGCCATTCCTTTAAAATAG
GAATACTTGGGGTTCAGATCTTTGACCTAGGTCTTATTTGTATCAATGAGATTAATGAGCCACAGCCCCGAGTTTCTCACCAGACATTTTTGAT
TTGCATTTTTAGACAGCAGTTGCTTTAAAAAACTTGGGGACCTGGCTTAAAATCAATTTTGAAATTTTGTGCATTAAAAAAAAAATGTGGCCGG
GCGCAGTGGCTCACGCCTGTGATCCCAGCACCAGACTTTGGGAGGCTGAGGCAGATGGATTGCCTGAGCTCAGGAGTTCGAGACCAGCCTCGGC
AACACGGTGAAACCCCATCTCTACTAAAATACAAAAAATTAGCCGGGCATGGCGGCATGCACCTGTAGTCTCAGCTACTCGGGAGGCTGAGGCA
GGAGAATTGCTTGAACCCGGGAGGCTGAGGTTGCAGTGAGCCGAGATCACACCACTGCACTCCAGCCTGGGTGACAGAGTGCACCTGTAGTCTC
AGCTACTCAGGAGGCTGAGGCAGGAGAATTGCTTGAACCCGGGAGGCTGAGGTTGCAGTGAGCCGAGATCACACCACTGCACTCCAGCCTGGGT
GACAGAGTGAGACTCTGTCTCCAAAAAAAATAAAAAAAAAAAAGTTATTGGCAGACTGTTATCTGAAACCTGCCTGGAATTACTTTCAATTTAT
CCTTTACTTAATTTCCTTTTTAAGTTTAGAGCTTTTTAGTGATTTAAGCAAATTTTCCTATGTACACTAGTATTTGTCAAGATAAATTTTTAAA
GCTTGGTCCATTTTTTACTATAAAAGTAATTGTGGGGAAAACTAGAAAACAAGATGAAGTATATGCACAAAAACTCAAGTTACTCATAAATTGA
CTACCCTAAGATAACTGCTTTTAATATTTTGATGTCTGTATTCCAGTCTTCTTCATATGTATTTATGCGTTTGTTGAATTATACACAGAGTAGT
TTTTTTTAATGTGATGTCCTTTCCATACTCTAGGGCTGTATTAGCAGATCTTGATGTTCTGAAGCTTGTTTATTGCATCTGGCCTGCAAACAAA
ATTAATTGACACACATGCTTTATTCCAGATTGTGGTGCTATTACATGTATTGTCATTATTATGATTTTAGCCATAAGTGTTTGGTTTGAGGCAG
AAGTAGTGGGATATTGCTGTCAAGTAAACTGGGGCCACTAACCTTGTGGGAATCAACTTAGCATTTTAAAATTATAGACTCGAGGTTTTTAGAA
GAAGCTGAAGGGTTCTGTATGCTGCATGGAAGATTGAGTTCAAATCCTACTTCTGACACCATATGAATATTATTTTCCCATCTGTAGGATGG
GAATTTCTTACAGTTAGTACTACGGTCATGCAGATTTCTATTTTCCCAGGGCCTGACACAGAATAGATGCTCAGCAGATTATGACACATGTGGC
TTCTTTTGCTGTGAGCCAGTCATGGGATGAAGACACATTGCCTATGCATTATTAATTGATTGCTATAAAACATGTTGCCTCAAAATATAATAGC
TTAAAACAACAGACACTTATTTTCTCATGTAGTTCCTGTGAGTCAGGAATCCAGACATAGTTTATCTGGGTGGCTTTGGCTTACCATCTGTAGA
TTGCAGTCAGTATGTCAGCCAGGGCTGCAGTCATTTGAAAACTTAATTTAGGCTAGAAGGTCCACTTCCAGGATGGCTCATTCACATGGCTAAT
TGGCAGGAAGCTTAAGTTTCTTACTACATGGGCCTTTCCAGAGGGCTTCTGAGTGAGTACATGACAGTGTGTCACTGGCCTCCCCCAGAGCAAG
GAGAGAGCAGGAAGGAAGATCTAATACCTTTTATGGCCTAGTGTCGGAAGTTGCCCCCTCACAATTCCACTTCATCTTGTTTGTTAGGAGTGAG
TCACAGTGTCCAGCCCACACTCAAGGGGAGGGGAATTAGGCTATACCTCTTGAAAAGCGGAGTAACAAACAATCTTATAGTCAAGATTGTGTTT
GTGTAAGGTTAGAATAGAGGGTCCGGAAATAGACCTATAATTATATGACCGCTCGAAAACGCCAAGACAATTTAATGGGGAAAGGGCCATCTTT
TAAAAAATAATGCTAGGCTATTCACAGTAGCAGAAACATGGAATCAACCTCAATTTTCATTAATGGTAGACTGGATTAAAAAAAAGAATGTGGC

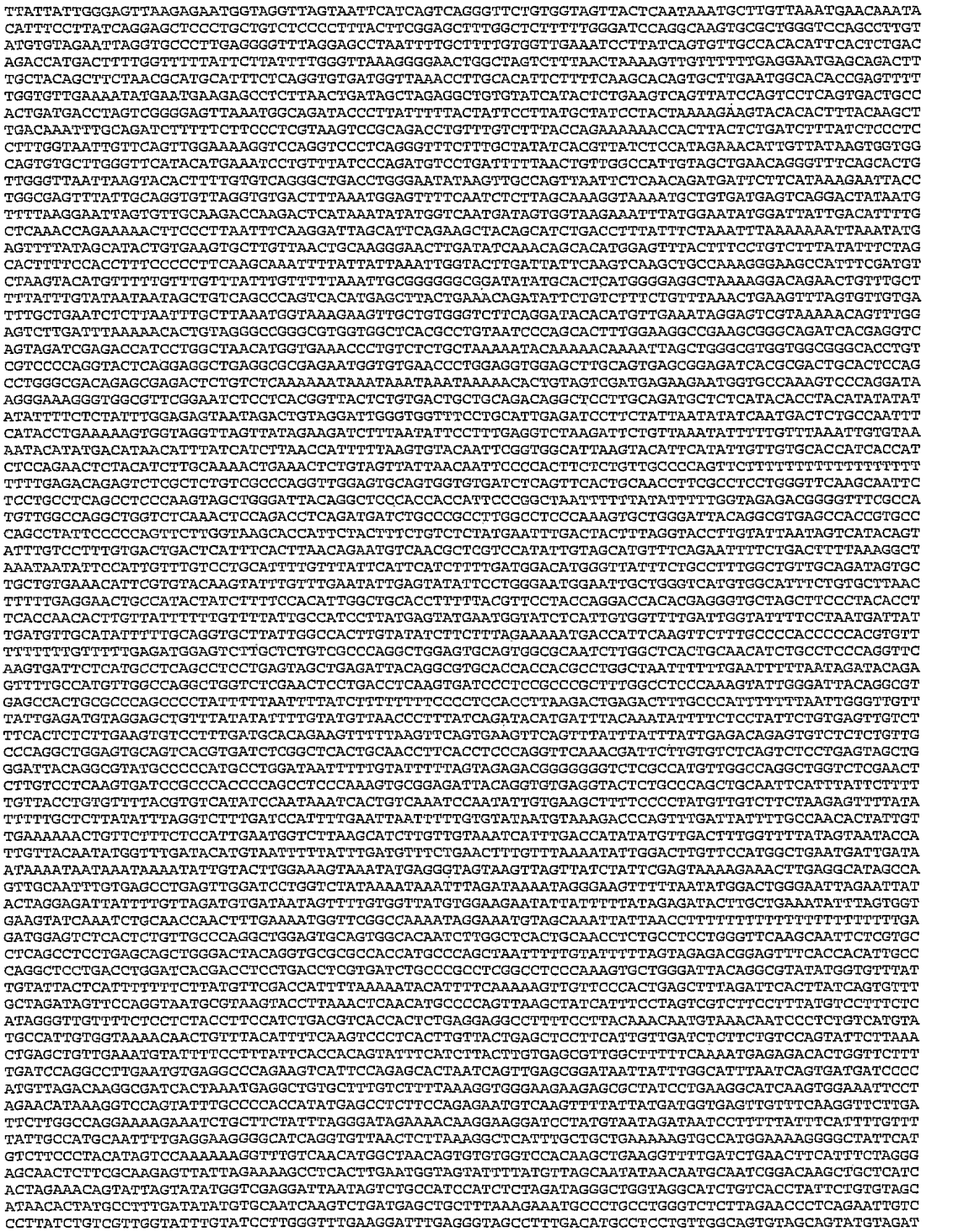
GCATGTACACCACGGAATACTGTGCAGCCATAAGAAGAACGAGATTGTGTCCTTTGCAGGAACATGGATGGAACTAGAGGCCATTACCCTTAGC
AAACGTAACAGAGGAACAGAAAACCAAGTATTGCATGTTCTCACTTATAAGTGGGAGCTAAATGATGAGAACACATGGACACATGTAGGGGAAC
AGCAGATACAGGGGCCTTTTGGAGGGTGGAGGGTGAGAGGAGGGAGAAAATCAGGAAACATAATTAGTGGGTACTAGGCTTAATTCCTGGGTGA
TGAAATAATCTGTACAACAAACCTCCATGACACGAGTTTACCTATATAACAAACCTGCACATATACCCCTGAACTTAAAAGTTAAAAAAAAATG
GTGTTAGAACAACTTGACGTCTTTATTGATTAGAAAAAAATGAACACTGGCCCTTAACTCTGCAAAACTGCTAGAAAATAAATAAATAAATAAA
TAAATAAATAAATAAATAAATAAATAAATAAGGTGGTGGTGGTGATATGCCCTTGTAATCCCAGCCATTCCAAGGGCTGTGGCAGGAGGATTGC
TTGAGCCCAGGAGTTCGAGAGGAGCCTGCGTAACATCGTGATATAAGAAAATGAGACTCTTTCCCTGCCTTTCCCTGCAAAAGAGAGAGAGA
AAATCTGTGTAGCCCTTGAGTAGGCAACGATATCTTGGGGCACAAAACATACAGACCCTAAAAGAGAAAATTGATGAAGTGGACTTGATCAAAA
TTTAAAACTTTTGCTCTTTGAAAGACACCATTAAGAAATAAAAACAAGAAAATGATGGGGAGAAAATATTCACAGTTCGTATAGCTAACAAAAA
ATTGGTAATCCAGAATGTATAAAGAGCTCTTACAACTAGGTAGTAAGAAGACCAAGAAAGATTTGAGCAGATACTTCACCAAAGAAGGTATATG
AGAGGCCAACAAGCACACCAAAAGATGCTTGTCATTAAACATCATTTAATCATCAGAAATATGTGAATTGAAACCACAGTGAGGTACCACTCCA
CACGTGCTAGAATGGCTAAAATTAAAGACTGATAGCAGATATTGGTGAAAATTTGTAGCAATTGGAATGCTAATGAATTTTTGATGGAGATATA
CAATGGTACAATTTGGCAATTTCCTGTAAAGTTAAACATACATTTTTTATATTACCCAGTAACTTTTCTCCTAAGTATGTACCCAAGAGAAATG
AAAACATGTCTATAGAAATATTTGTATATGAATGTTTGTAGCAGATAAATAATAACCAATGCCTGGAAACAACTAAATTGTCCAGCAGGTGAAT
GGGTAAGTTACAGTATATCCACACAATGTAACACCACTCAGCAATAAAATGGAACCAACAACTGATATATCCAACAATGTGGATGAATGTCACA
AATGTTATGCTGAGAGAAAGACATCAGACACAAAAAGAATAAATCCTATATGATGTTATTTACATGAAATCTAGAAATCTAGACAAATCTAATA
TACAGCACGATCAGATCAGTGCTTCCTTTGGGCAAGGGGTGGAAGATGGGGAATGACTGGGAAGGAGCACGAGGGAAACTTTCTGAGATGATGG
ACTTGTTCTAAATCTTTATTGTAGTGGGGATTGCACCTGTGGGTGTCTTTGAAATGTTTATTATTACAGTTATTTCTTAATATTTGTAGGGGAT
TGGTTCCAGGACCACCCCACCCCCTGTCCCTAGTATACCAAAATTTGCAGATGTTCAAGTTTTTTTGTATATAAAATGGCACAGTATTTGCATA
TAACCTACACAATCCTTATATATACTTTAACTCACCACCACATTACTTAGATTACCTAATACAGTGTAACTATATAAATAGTTGTTATATTGTG
GGGGGATTTGTATTTTTTTGGTTGTATTGTTATTACTATTTTTATTTTTCCTTGAATATTTTCAGTCTGCAAATGGTTGAATCTATGGTGCTGA
ACCTGTAGATATGGAGGGCTGATTGTATTTTATTGTTTAGACATTACACCTTATTAACATTCATTTAAAAACATCTGTTGAGGTTTGGATTTTT
CAGAAGTTATAACATCTGATCTTTAGAGTCAGTGTTCAATACTATCCCTTTGTTATCATTTATAGGTCAGGCTTAATAGTATTATGTCTAGGGA
GAAAAACGCCAAACTGTGGCTTCTTTCCACAGAATAATTGGCTCTCATTTCCTTATCCTCCCCATATTAGTAACTTGTCTTGATTGTAGAAGCA
GGCTAATGGGAGCTTTGTCTGGGCTTCTTTGTGAAAGCTTTTTTTTTTCAGTGGCATGTGCTATTATGCCTACCATGCCATTTGAATCCTGTCAT
TGTACTTCTTGACCAGCTTGTCAAGGTAGGCATACAGAAGATAGCTCATGACTCCTGTTAACTGACTCATCTCTTATGGTTGCAGATTCTCATA
AACACAAAGATAAACACAAAGATCGAGAACACCGGCACAAAGAACACAAGAAGGAGAAGGACCGGGAAAAGTCCAAGCATAGCAACAGGTAAGG
GTGGAATCAAGCAAGTCCCTCATCATTCAGCAGTGGGTTGGCCATTGCTTGGCTTACCTGGAATAGGTCTTAACTTGAGCTACATGTAAAGATA
GCAAAGTAAGTAGAAACTGTATTTGATCCTAGAGTTGCTATGAGGATGGCCATGATTTAGGCCTTAAATGGGATGCCATTGTTCAGATCAAGAT
GTATAAAGCAAGTATGTTTAATTTTCTTTTAATATATACCTCATTAAAAATACAGTTGTTCACTAAGATAGGTAAGGATTCATTGTGACACATG
ATGGCATTTAATCAAGTCTGTAGCAAGCTTGCCTTGATAAAAGGTAACTGGATTGGAGACCTGATTTTTTTTCTTCTTTCTATATTTTAAAGAG
TTTACATTAAAAATTCTTAACTTGGGCTTCCATGGTCTGTTAGCCCCTGAAATTATATGCAAATGGTTGAGTATATGAGATTTCCTGGAGAGAC
TATTTGTAGCTTTCATCATGTTATCAGAGGAGTTCGGCTCCCACAAAAGCCTACAATCACCAATATGAATGAAACTCAATAGTGCTGCCTTTTG
GGATGCAAGCCTCAAGAAGATGTTTCTTTTGTTCATTTTGCTCCCATTTTTTTGGTGTAGGAGGCAAGTGGTTAAATCTAGTTATTGAAAATGA
GGACTTGTACTTCCATTCTGATTTAAAGACAGTTGTTGGTGAGAAAGCCATATGGTATTCCCATTCCCATAGTGGCCTGAGCTAGGTTAGGGAA
TGTAAAGATCTGTCACACATTAGAACAAGTGTCTCCATTGTAGAGTTCTTAGAACTTCTTTATTAACTTGTCTGATTGTCTGTAGACAAGTTAA
AGTGAGAATTGCTTTCTAAGTCTGTTCTTTTTCGCGAATCATTAAAATAACCAGATTTAATTTTCTCTATTGGGGACATTTCTTTGGGAATCAT
GTATCATGCCTGTGGCCTTTTTTCCCTATCCCTCACTTATCTCTTATCACTTGATCATCTAGTTTCCATTTTCATTATTCTGGTAAATTTAATC
TCAGTAGTTGAATCTACTCTACATCTTTTCTAGTTTATAGTTGTCTAGCTTATGTTAATATCTACCGTACAGCAAAGAATATTGCCAAGGATAA
AGAAGTTCATTGCATAATGATAAAAGGGACCCATTAGGAGAACATAGCAGTTATAAATGTTTATCCACTAACGTCACAGCCTCAAAATACATGA
AGTAAATCTGATAGAGCTGCAAAGAGAAATAAACATTCATAATTATGGTCAGAGATTTTACTATCTTTCTCAATAATTTTTAGTCCAAATAGAA
AATAATTAAGGATATGGAAGACTTGAACAGTATCAACCAACTTGATCTAATCGACATTTATAGGTTTTTCCCATCCAACAATATTAGAATTTTC
TCTTTTCTTTCTGTCTACTTTTCCGCTTTTAATTTTTTTCAGGTTTTATTTTAGATTCAGTGGGTACATATAGGCAACTTTGTTACCTGGGTAT
ATAGCTGTGATGCTGAGGTTTGGGTACAAATGATCCTGTCACCCAGGTACTGAGCATAGAACCCAACAATTAGTTTTTCAACCCTTACCGCCCT
CTCTGCTCTAGTAGTCTCCAGTGTCTATTATTGCCATCTTTATGTCCATGAGCACCCGATGTTTAGCTCCTGCTTAAAAATGAGACCATGTGGT
ATTTGGTATTCTGTTCTTGCCTTAATTTGCTCAGGATAATAGCCTCCAGTTGCATCCATGTTGCTACAAAGGACATGATTCAGTTCTTTTTTTA
TGACCGTATAGTATTCCGTGGTAGATATGTACAACATTTTCTTTATCCAATCCATCATTGCTGGGTACCTAGGTTGATTCCATGTCTTCCCTAT
TGAGAACAGAGCTGCAGTGAACATGTGTGTACATGTGTCTTTTTAGTAAAATGATTTGTTTTCTTTTGGATACATACCAAGTAATGGGATTGCT
GGATCAGAAGGTAGTTGTTTTTTTTAAGTTCTTTGAGAAATCTCCAAACTGCTTTCCCTAGTGGCTGGACTAATTTACATTCTCATCAACAGTGT
ATAAGTGTTCCCTTTTTTCTGCAGCCTTGTGAGCCATCTGCTGGTTTTTGATTTTTAATAGCCATTGTGGCTGGTGTGAGATGATATCTCATTG
TGGTTTTGATTTGCATTTCTCTGATGATTAGGGACGTGGAGCATTTTTTCATACATTTGTTGGCCATTTGTATGTCATCTTTTGTAGAAATGTCT
GTTCATGTCTTTTGCTTGTTTTTTAATGGGGTTACTTGTTTTTTGCTTGTTGAATCATTTAGGTTCCTTATAGATTCTGGATATTATACCTGTT
AGACGCATAGTTAGTGAATATTTTCTCCCATTCTGTAAGTTGTCTGTTAACTCTGTTGATAGTTTAATTAGATCCCATTTGTCAATTTTTGCTT
TTGCTGCAATTGCTTTTGGCATCTTTGCTATGAAATCTTTGCTCGTTCCTATGTCCAGAATGGTATTGCCTAGGTTGTCGTCTAGGGTTTTTAA
CAGTTTTAAGTTTTACATTTAAGTATTTGATTCATCTTGAATTGATTTTTGTATGTGGTGTAAGGAAGGGGTCCAGTTTCAGTTTTCTGCGTAT
GGCTAGCCAGTTATCCTAGCATCATTTATTGAATAGGGAGTCTTTTCCCCATTGCTTATTTTGGTTGACTTTCTTGAAGATTAGATTGCTGTCG
GTGTGTGGTTTTATTTCTGGGTTCTCTGTTCTGTTCCATTTGGTCTATGTGTCTGTTTTTGTACCATTACCATGCTGTTAGTGTTTCTGTACCA
TTACCATGATGTTAGAATACATTCTTTTTAAGTGCACACGAAATGTGCCAAAATAGCTCATACTTTGGACCCCACTCTCCTTAAACCATCTTCT
TTGGCTTTAATGCTTCCATGCCTCTCCATCTTTCTGGCCACCTTTTTCACCTCTTTCTAATGCACAGTCATTCCTTAACAGTTTTTGGCTGTCT
TTTCTCTGCTACCTGTTTTGCTGTTTATCCTTATTTCACATTCCATATTTGGTCTTGTGAACTTCTTTTCAGTTCCTTAAACATAGCATGTTTT
CTGATGCCGCTAAGCCTTTAAACATGCTGTTGGTTCTGTAATACTCTCTTGCCCCTTTGCTGTCATTCTTTTAGTTGCAGCTCAGACTTGACTT
GTTCCAGGTATCCTTTCTACCCTCCTTCTCATATTAAATGCCACTTTTGTGTGCTCTCTGGTGCCTTGAATATATTCCTAGTGTAATAATTATT
ATATTTAATTGTGTCTTTACTTTTCCCTATGGCCTCCTGGACTCTAAAGTCCCTGAAAGCAGAATTGGGATCTTTTTTGTTTTTTCTGGGGTGG
GGCGGGGGGCTGGTTTTTTGTTTGTTTGTTTGTTTGTTTTTTGAGACGGAGTCTTACTCTGTTGCCCAGGCTGGAGTGCAGTGGTGCCATCTCA
GCTCACTGCTATCTCCACCTCCCAGGTTCAAGTGATTCTCCTGCCTCTGCCTCCCAAGTAGCTGGGATTAAGGTGCGTGCCCCGACACCCAGCT
AATTTTTTGTATTTTTAGTAGAGACAGGGTTTCACCATGTTGACTAGGCTGGTCTCAAACTCCTGACCTCAAGTGATCTGCCCACCTTGGCCTC
CCAAAGTGCTAGGATTACAGGTGTGAGCCACCACGCCCAGCCTTTTGTATTCATTTTGCATCCTTCAGGCTTAGTATGGTACCTGGCAGATAGC
TGGCACTTACTAGTCTATATTTATTGAATTAATGAGTGGATGATCTATGGGTACATTAATTCCCATCTCTCTTTCTTCTCACGTACTCTTAATC
TTCTATAGGATAGTTATTAAGTCACTTTGGCTTATCTCATTTTTCACACAATTGTGTGTGGTAAAATAAACATAACAAAATTTACTGTTTTAAA
GTAGCATTTAGTACATTGACAATAGTATGCAACTGTCACCACTATCTCCAGAACTTTTCATCATCCCAGTCTTTGAATTCACTAAATAATAACT
TTTCATTCTGTTCCCCTGTCCCAATATCTTTCTACTTTGTCTTTTTTTTCTCTTTCCCTTCTACCTTTTATCTTTATGAATTTGCCTATTCTAAG
TACTTCATATAAGTGGAATAATACAATATTTATCTTTTTTAAATCTGTTCTATATTCCCTTAATATGTTTTCAAGGTTTATCCGTATTGTAGCG
TATCAGAAATTCATTCTTTTTTATGACTGAATTATATTCCATTGTATGCCTGTAATCACATTTAAAAAAATCCATCTGTTGATGGACACTTGGG

TTGTTTCCACCCTTTGGCTACAAATACATGTTTGAGTTCCACTTTCATTCTCCGGGGGTGTATACCTAGGAGTAGAATTGCTAGATCATGTCCAA
CAATGGGTGGCTGCCTGCTATGTTTTTACTGTGCTAATTGATGTGGTGTGAAAAAAAAAATTAGATAACCTTTGACCGTGAACAGTATCATCTG
AGGAGGTGAGAGACCTGCTTACAGATCAGATGAAGAATGTTGATTTTTATATTACTAGGCTGTAAGAAGAAATTCCAAAAGACTTTAAGAAGAA
AGAGGTTAATATTTAAAACATAAGCTTTTGAAAACTTATCTTCTCTAACACATTCTACTTTGTTTTGGGAGGAAAGATACAGTAAAAGTGACAT
AAAGGGCTTTGAGACATATAAGTTTGGCCCTGTCCTGTTTTACAAAAATCTTCTCTTAAAAAAAAAAAAGGGATGTGATTTTTTTAGAAGAAAT
CCTCATCCTTGTACATCCATTTAAGTCTCGTGATCTTGGCTAGGTTACTTAACCTTCTTCAACTCAGTTTCTTCATCTTCATCTTGATACATGC
TTCACAGGGGAACCATGGGAGTCAATAAATATAGAAGCTCTTCAGTTGTGAACTGCTCTACAGATGTGCAGAGATGACACTTTTACATCTATTT
AAAAGCATACTTTTCCAAGATCATATTGTAGGTAAATTCAATAATTTGTTGTATGTACTTTTGTGCCTCTTTTCTTTTCTTTTTTTTTTTTTTT
TTGAGACAGTCTTGCTCTGTCGCCCAGGCTGGAGTGCAGTGACACAATCTCGGCTCACTGCATCCTCCGCCTCCCGGGTTCATGCCATTCTCCT
GCCTCAGCCTCCCGAGTAGCTGGGACTACAGGTGCCCGCCACCATGCCCCGCTAATTTTTTATATTTTTAGTAGAGACGGGGTTTTACTGTGTT
AACCAGGATGGTCTCAATCTCCTGACCTCGTGATCCACCTGCCTCGGCCTCCCAAAGTCTTGGGATTACAGGCGTGAGCCACCGCGCCTGGCCA
CTTCTGTGCCTTTTAATATTTTCTTCATTCCTATAAAAATAGAAGCCTTTTTGCCAAGAGCTATTGGAAAAACCTGGCCCGAGTTTCTGTTTAC
ATATGACATGACTAAATCTAGCCCTTGGTTTCTTATTCACATGAGTAAATTTTAACAGTTTAATCAGATGATCTGTTGTAAGCAAACTTTTAAG
TACTTCTTGTTTTGATGTCTACTGACACAGTACCTCTTTGCAACAAAGCAAGGATATTGGTTATATTCCAGTAAAATTATTTTATTATTTTTTT
TGAGATGGAGTCTCACTTTGTCACCCAGGCTGGAGTGCAGTGGTGTGATCTCGGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGCGATTCTCC
TGCCTCAGCCTCCCGAGTAGCTGGGACTTACAGGCGCCTGCCACCACGCCGAGCTAATTTTTGTATTTTTGGTAGAGACGAGGTTTCACCATAT
TGGCCAGGCTGGTCTCGAACTCCTGGCCTTGTGATCCTCCTGCCTCAGCCTCCCAAGGTGCTGGGATTACAGGCTTGAGCCACCACACCCGGCC
TCCAGTAAAATTTTATATACACTGTGATCCTTTTAAAGTACCTCTGATCTTTTTAAATAGTTTAGGGTTTCTTCGATTTCTTCTGTAGCAGATT
AAAGAAATCTGGGGGATTATTTAATCACATCTGAACCCCAGAATAATTAGTATTTAGCATGTTCTGTTCCAAAATGCTTTCATTTATTCCAATC
CTTGCTAATCAATTGTAGCTAATTTTGTGGCCATTTGTTAGGAGAAAACAAGTGTTTCAGATGTGTTTCTGTGTCCCTTCCTTCTCTGCTAGAT
ATTAGCACCAATCATTTGTCATCAGGCTATACTTAGGACCCAAGCCCAGGAGGCATTTACTGTCCTGTGCAGTAGCAATACTGCAGACTTGGAG
TGGGAGAGTAGCCATTATGTGCAGAAACAAAATGGGGCTATGGATCCACATCCCAGAAGATGCCATTTGGTTTCCTCTTTATTGTCCTCATGCA
AGGTGCAAAACAAGGGAGTAGGTATTAAGAATCATTTCATCTTGTCTTCTCTTTGTGTGGACAGGAGTCTGAGGTCACATGCTCTAAGTCCCAC
AGTGATGTGGTAGCAGAAAGAAGAGGATGTGAGACCAAGGATCCTGAGTCCCCACTACATTATTCCTTCCAGTGAAAAATACCTCCCTGTGTAA
AAAGAGTTAGTTTTGTAGCTAAACTGTCTGTTTAAATACAAGCACCCCTTACTTGTATGCATATGGTAGGCAGCTCAGGTTTAAAAATGTCAGA
TCACCTCAGGCACTGCCTTTATCTCTCTTTGTCCCCAAATCCCTGAAATCTTTGGCACTGAAAGTATTAATGTCATCAAATTCTGAACCTATGA
AAACTTCATCTCTGTCTTTCTCTTGTCTGGCCTGTAACATGACAAGAACAGCTCACACCAAAGTTAGAAGATAATTTCATCAGTCATCACTTAT
CTCTTGACACTGCTTCTTTCTGTTAGCGTTAATATTTTGCTCCTCAGATCCTTTTTCTTTTTTTTTGGAGTCAGGGTCTCATTGACTGCTAAGC
TTGGGCGCGGTGGTGTGATTATAGCTCACTGCAGCCTCCCTGGGCCCAAGGGGTCCTCCCACCTCAGCCTCTTGAATAGCTGGGACAATAGGCA
TGCACCACCATGCTTGGTTAATTAACTTTTTTGTTTTTAATAGAGATGGCGGTCTTGCTATGTTGCCCAGGGTGGTCTGGAACTTCTGGGCTCC
CACATTGGCATCCCATAGTGTTGGGGTTACAGGCATGAGCCACCATGGCCGGCCCTCTTTTAAAAAATACATAAATAATCTCAAAAGGAATACT
CTTCTAGATGCCAAGGAATTACGTAGCTTGTAGGATCTCACGAGCTACCTTTCTTAAAGGGTTACATTCTTATCCATTGTTTATCTTTAATAGT
AGATCTCTTGTATAAACAGAATATTATTAAAAGCAATTTGGGAGGGGGGCTTGATTTTAGAAAATAAGAGAATCGTGTGAAATGAAATTCCTCC
TAGTTTTCGACTCTGTGCATCTCTTGCCAATTTTAAACCTGGCATTCACACTGGAGTGACAAATTTGTGGAAAGCAAGGGAAGACAGAAAACTG
CTGTAAAATAGCAAGGGAAGTACTTTTCCAGCCATATTGGCAGTGCTATTCTGTACTGTCAGTGTGAGAAACATCTGAGAATAAGGATGCTTTT
GGCTTCTGCTTTCCTTTTAGTTCCAAATCCTACCTGAATTGTAATTGAGAGAATGTAGGATTTTAGGAATATGCACTTGAATTACGCATCTAGT
TCTCAGATTAGGGGAGATTTTTCTGAAATTAATAAAATTTAAAAGATATGTTTGCTGCTTTCCTTGTGAGTGGTTTGCCAAAGCCCTCCCTTTG
TCTACACATCACTATATCATCCTGTCTGTGGGAAATGGACAACTAACATGGGTAGGCAGAGAAGATTGAACAGTTTGGAAATGAGGAAACTCAG
TACCACCACCATTCACATGGGAGTCAGTATGATATATTGAATAGCACACTAAGATAAAAGTTAAGAGGCTGGGTTCTGTCATTTATAAGCTACG
TGTCGTGATCCAAGGTGCTTAACTTCTCTGGGTCTCATTTTCTGTTTTGGTCAAGGGTTGATAACAGTACCTGCTTTATCAATCTTTCAAGTTT
GTTTATGCACATGACAGCTCTTTGGGAACTGTAACATACTAAATAATTGAGATAATGATGGTGATGATGATAATTACCGCAAAGCCTAGTATAA
TATCATGCAGATAAATTGGAGCTCTTGAGTTTGGTAGTTGAATCTAATTCAGTAGTTATTGATAGCATTCAATTTGGAGCCCTGATATTTTCAA
TATTATATTTATCCCTATCATAGTACGCCATAATCATTGTTTTTAAGATTTCATGGTGGAGACAGCATTTGAGCTAGCCATTCAAAGATGGTTA
AAATTTTGCTAACGGAAAGTAATGGTTAGAAAGAAAAACATAAGCAAAACATAGAGGCATTGTAGTATATGCTTTGTTCTGGGAGGAATCTAGT
TAGGTGGGTTACACAGGGTGGAATAGTAGAAAATGAGACCCAAAAAAGTGGCTTGAGGCAAAACTATTAAATGCCATTTCAAAAAGTTGGAACT
TGTTACTTACACTAACTAAAAATCGGGGGGAAATGTTGGGACTCGATTCTGAGCTGAGCAAGAAGCCACTGGAAATACTTGAGCAAAGTGGATA
TAAGACTTAGCTACAAATGACATGAAGGGTCTAAGAAAAAGGGTTCCTGTCTTGGATAACTGGGTGGCTGTTCACGCTATTAATAGAGACAAAG
AACTTAAGGGAGGAATGGGAGTTAGAATGGGTATCGGTTTTGCCATCTTTGGGCACATCCTTTTATCCTCTCTGGCCTGAAAACAAAGGATTAA
ATAATTTCTAGGAAATTACATTTACCTTGAAGTTTTGATACTTCTATAATATAAAACGCCGGAGTCCTTGTGATTTTGTTTAGAGATATATAAT
CGGCATTGTAGTGTGTAATGATGATGGACATTAAGGAACCCTTGTTTCTTAGTGCCTTTTGGAAACTGGCTCATTTCAGAAGCTGCGCTCTTTT
CCCAGAGGCAACTTTTGAAGTTACTTAAATATTTAATTTAACAAATATCATTTAAGATTTAACTGTCTACTATCCTTGAAAGGGTCATGAGTTT
CCCTCCTAAACCAAGACTTTGAAGCTCTCTGTGCTGTCTCACAGGAATCCCCATGATCCAACTTCATGTGACCTGCAGAGGTCTGCTGCCTTGA
GGAGTAGACAGGTAGCTGGGCTGTTAGTGGCTAAGTCCTTTTCTCAGAATATGTGGAGGCTCCTTCTACCTTTAACAGTGCTTTTTTGCTTTGT
TTGGGAAGTAACAGAGTAGTCAAGTGCATGACCCTGGAGCCAGACTGCCTGAGTTTAAATCCTGTTTCTCTCTTTAGAGGTAGTTCCTTGGGTG
AGTTACTTAACTTGTCTGTGCTTCAGTTTCCACATCTGTGAAATGAAGATACCAGTAGTTACCTGAGTTTTGTTACCGATATCAAATGTGCTTA
GATGAGTGCTTGGCACTGGGTGCTACTCAAGTATCTGTTAAATACTTTTATGGGGGATAGAGGACAGATTTAAATGGTTTCCCATAGCCAACAT
TCTAGCTTTCCAGAATATCAGTATTTTGTTGTGGTAGCGGTGGTCTTTTTTCCTAAAGAAACAGTGCTTCGCCAGAAGGGAGACATTGTTCCCT
ACTGGCTCCCTACTTCCACCGTTTCTCCCACTCTTCTATATAAGTGCCTTAGAGAAACTCTGGTCACCCTTTTCTGTGGTCTGCTTAGCTCCAA
CAAGAATCATAGACCAAAGGTTTTGCTGTCATCACTTTAAAAATAGTGTAAGTTATTTTTTCTTTCCTTTTTTAAATTTTTTTTTTTTTGAG
ATGGAGCCTCAGTCTATCGCCAGGCTGGAGTGCAGTGGCGTGATCTCGGCTCACTGCAGCCTCTGTCTCCCTGGTTCAAGTGATTCTCCTGCCT
CAGCCTCCCCAGTAGCTGGGATTACAGGCATGTGCCACCACGCCCAGCTAATTTTTGTATTTTTAGTAGAAATGGGGTTTCACTGTGTTGCCCA
GGCTGGTCTCGAACTCCTGACCTCAGGTGATCTGCCCGCCTCGGCCTCCTGAAGTGCTAGGATTACAGGCATGAGCCACCACGCCCAGCCAGAT
TATTTTTTCTTTAGTGGAATTCAGCCAATTGAAGCATAACACATGGCATGAACACTCTGGAAAGGTGGCTTTGGATCTTTCCATTTGTTCTCTT
TAGCGCTGACTTTTGCTTTCTAGTCCCTGCTAGTGTGTTGGAATCTTACCCCATACAGATGCAAACTATGAACCAAGAAGTCAGCATCTATGCC
TAGCCAATAATTGGTTGTTTTCTCGTTCAGAGTTCCTCATGCCCATGGGGTAAATTCATATTTCATCCATAAGTGTGACCATTGCAGAAGTTCT
AGGACTGCTACTGTCTGTATTTTTGTCCTTCAGCATATCCCAGACTAAACTTACTCTTAAAATATGTTTGTCCAACCTTTGGTTTCCTTCCTAT
GGTTGATATTAAGCCTTTCTTCTACTCTTAGAAGACAAAATGGGGAGACAAAAAAGGCAACCCTGAAGGTTTTTATCCTTTCAGGGTATCTAGC
ATTTTTCTAATTTAGCCCTACTGAAGTTTCTTCAGTAATTAATCATCTGTTTTTCAGCCTCTAACCTGGCTAATATTATAGCCTACAATTGTAC
TTTTAAAGCCCTTTTGTGACTTTGACATATTGTGTCTATTGTGTATGGAAAAGTAGCAGGATCAGTATGAAGATAATACAGTATCTCTTAAAAC
AGGCAGCCAGCAAATGAACTTTCTGCATTGGTCAGAATTTCCATCATTTCACTGTTAATGAGGAAAGTACAGTTCTTTAGCTACCATGAAAGTC
AAACATATCCTAAGCCTTTTGGAAAAAGACATACATGTTAGAAAATCTCAAATGGATGAGTCAGCCTGACTGACCCCACATTGACTCCATTTTA
TATGCTGGCCAAATCCTGTTTCTGACTTTCCTGGCACAGCCCTGGACATGCTTCTGTATCATAGGACTTGTTCCCCAGCGCCTTTGCTACTTCC
TTCAGGCACATTCCTAGGAAAGATTGGCAGTGGGGTTTGCTCTTTGCCAGCACTCCTGCCGGTTTGGGGGTTATGGATGCCAGGTTGGGCTCCA

GGCACTCTGCTCTCCATTTGTGGAGGCAGGGACGGTAACAGCACCTGACAAGTAGGGATGATCACATTGTATTCAGAAGCCTGGTGGAGCTCTA
TAAACCCAAATTTCTAACAGTCTCCAATGTAATGCCCTGTAATAGAAGCTGTCCTTAACCCTCAATCATCTGTATTCAGCTAGTATAAAAATGC
AAATCTGCTCTTATGCCTAAACAGTTAGGAGTAGAGGAGACTTGGCTTCCTTTGGAAAGTCAGGATGATAGCTTCATCCCATTCTGGTTTTTGT
GATTAATTGTGACCTACAAAGGGGTTTACTACTCTAGCAGGAACTTTGAATTTCCTATATACATCTCTTTCTGGTTAGCAGGCAGAGGAAATAT
CGTTGACTTTTGGCTTCCTGGCAAATGTCTCATTTGCCTTGTCATTTGTTGATTCCTTTTCCCTGATCTCTGTTTGGTGTGATAATGTACAGCA
AAGCTGAAAACCGCAGGGCTACATGTACACTTGTAGGTACCTATGTTGTGATTGCCAAAAGGCTCAGAAAGCCAGTTTTCTAGTGAAAATGGCT
AACATTCTAAGAAATGCTTTCACTGAGAAAGAGAACGGGTCAGGGGAAGGTGGAACTTAAAGGAAGATGGAGTGTTCCTGAATTCAGATTCCTG
AATTAGCCATTTATAGTTTCATGGGAAGACAATGAAAAAAAAAAAAAAGAAAGAAAGAAAAGAAAAGAAAAGAAACAAGCAACCCCAAAGGTTT
TTATCCTTTCAGGTATCCAAACATCTTTATTCTAGAAAGTTTCTCCTCGATGGTAAAATAAAGCTAGGACCTTATAGCAAGTCTCAGACTCACC
ATGGCTGTTTCTTAACACCAGTATACCTTAAGCAGTAGGTATCAATTTAGTGGAAATATAAGGGTATTGATATGTAGTGGAGGCTGCTCTGAAC
TTGGAGGTGGAAATACTAAGTTTAAATCCCAGCTTTTCTTTTAACATTGCAACTTTGAGAAGTCTTTTAACCATTGTCTCCTGTTTGTATCAGC
ATGAGGGGATAGATAATAAAACCTGCCTCACAGGAGTGTTGTGAGAATTGAGTGAAATAATGTATGTGAAAATACCAAGTACAATGCTTGCTTA
GAAAGTAGAATTTTGTTTTGCCATCCCCTCCCCCACTATAGTTGGCAGGGCAGGGGGAGGCAGTATATTCATCCATCAATATTATAGATGCAAT
TGTTCCCAGATGTTTTGCTTTTAGGCAAAACCTTGTATAGATGACTGTATACCCTCTTACAGTTGATGCTTAATAAAACAAAACTACCATGGTT
TTATAATGGAATGGTAAGCTCAAACATTTTGCTGGTAGTATAAAAACCAAGTGCCTGTGATTACCTATACATTAACTCCTGAAGAATCAATTAT
AATCTCAGCAACCTTGCTCTTTGACCATTCATTCTAAAGCTTGGCGAAGTTAATGAGAACAGATAATAGGAGTGCTAATGCAATTGGAAGACTT
TTTTTTTTTTTAAACAAAGTAAGGAAGGGATACATTTTTAAATAAAACATTGCATTTTGGTAAAAAACACAGATTATGAGAACACATTGAGTTAG
AGGAACATCATATTGATTCCAAGAACAAAAAGCATGGTGGAGAAATTTTGTAACCATGCAAATCCAGTGTGCTCTGTTCTCATGAGTTAAAAAG
AATTTTCCTCCTATAGAAACTTGTTATTTAAATGTGTGTCACATGTAAATAACAGTCTAATGAGAGCAATATAGAGGGAGAAATATGTAAGCAA
GGGAAAGTGGGCATTGTTTTGTTTTTTTTTTTCTCCATCTATTTCAATACTTGGGTCTTTCCTAACCTATAGTGTGTCCTGTTTCTCCCTGGCT
AGATTTCTTAAAGTTTCTGCCTATTCATCACTCAAGTACCTATCTCAAGTTGTAGCTACTTTTGTGTGCAGGGTGTAATAGCAGATGTTCTCCT
GATCTAGATTTTGTTGCTCTGCCTAACTGCATGCCATCATTTGTTTCTCCCTTTGTGATCTTCTACTGTAGTCAAGTGTCCCTTTAGAACAAAC
TTCATGGGATGGACATAGCCTAATGAGCTCATTGCTGATGAAGTCTTTTTTTCCTGTGCATTGGTTAGTGCAGTAAGCAAGGCTCCTTAACTGC
CTGTCCCAGTGTACTGAAAAATAATAGTGTTCTCTCACCTTAAACTACAACTTGTGGTTTTGCTTATTGCTTCTTTAGTCTTTGACCACATGC
ATGTTTTTACATAGTTGCAGTTATTTTATTATATTCCTTTTTCTGTCATAAACACTTTCCAAATGTGTTTGTGGTACTCAAATTATAGCTTAGC
AGTTAAATAATTTGATATATTACAGTTTCCCCTCTTGTTAGGTGTATCCAATTTTGGGGTTTGTTTGTTCGTTTTTGTTTTTTTCTGTTGTTGT
TGTTGTTGTTTAAGGGAAGCACCAAAATAAACCTCTTTTTAAAATTAATTAATTATTTTTTGAGGCAGAGTCTCGCTCTTTCGCCCAGGCTG
GAGTGCAGTGGCACTATCTCGGCTCACTGCAAGCTCCGCCTCCTGGGTTCATGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAG
GCGCCTGCCACCACGCCCGGCTAATTTTTTGTATTTTTAGTAGAAACGGGGTTTCACTGTGTTAGCCGGGATGGTCTCAGTCTCCTGACCTCGT
GATCCGCCTGCCTCGGCCTTCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCCAGCCCAAAATAAACATCTTTATATGTAATGTTATTT
CCCTAAGATAAATTTCCAGGAGCTTGATCCCAGGGTAAGAAGCTATGAACATTTTCATGGCTCTTGCCTTATAATGTCATATTTTGCTCTTTTAA
CCTTTAACAAAGAACATTCCTATGCCCTTGCTTTCAGATGGGTCTTTTCTTATTGTGAGGAAAGGGCTAACGTAAGTCCCATCTAGAAGTGACT
AACTTGCCTAGTTAAAACTAGAAGGAAATATCCACTGTATTGGGCTGTTTACTCCATAAACCCTGGCTTGGCTACATGTGTGGTATGTTTCAAG
TCTGGCACAAAGCCACCAAACACATTTTTGGTGAGTTGGTTTTAACCTGCTCACATCAGATATGAATGCTGAAGTTGGAGCTTTCATTATTGTT
TTTGTGCTGGTAGAATGTTGCAGAAATACACAGGGCTGGCTGTGTATTCTTAGTCACTTTAAAAAAAATGTCCTGGTGTGTCTAGAATGATGGT
TTCTGTTCTTTGCAAAAATAAAAACATCAAACAAGATAAAGTCCGATGTAGCCAAGACCCTCTACTTGAACCTTCTGTCGGTACTGTTTGTTTA
AGTACTGTAAGTTTCCACGGTTCATGTTATCTTAGGATATCTTGTGAAACGAATCCTTGTGGTCCCTACTCTGGGCTAACGCTTTGTGACTTAA
CTTTTTACAGTGAACATAAAGATTCTGAAAAGAAACACAAAGAGAAGGAGAAGACCAAACACAAAGATGGAAGCTCAGAAAAGCATAAAGACAA
ACATAAAGACAGAGACAAGGAAAAACGAAAAGAGGAAAAGGTACAGAGTTTTCTAGTAGGGGAGGAAGGAACGTGGATGCACTTTTGTTTACCT
TTGAAAGCAGATATCTTAATTGCATAGTAAGATCCCTTGGTCTTGAAGTGAAAGGTTTCTTGTCAGGAGAATTTAGAGCAAACTGTAGTCTTAA
ACTATAAAAACTAAGCCTTTTACCACCATATGTTTCACAGTGGCAGATCTGTCCATATCATTACCTTTTTTTACTTTATATTGCCAATGAATACA
TTGAGAATGCATTAGGGAAAATTAATTGTTTTTGGGAGAAGGCCTAATGCCTTGATGGTCTTCTGTTCATTAAAGGTTCTTCCCGAGTGAAAAT
TTAGTGATGCTGGTGTCTTTTGTGGCATTTGGTTCCAGCATAACCAGTGCAAGCCTTCTAAAAATGACTAGGCTCACCCAGCTGAGAATGAATA
GTACTCTGTATAGTTTTAAAAAGAGATTGTTTTTATTTTAGCTTTGAAAAAGTAATTTTTGTACTTGGTAAATTCAGATACTATGAAATAAGGA
ATATGGTGAAGAAGACATCTCTTCACCCCTGACTCACTGTCTCCCATCCTTTCTCAGAGGCAACCGCTATACTGATTATGTTTTGTATTCTTCCA
TAGATACTCTGTATATCTGTATGTGTGTGTGTATCCCTTTGTGTGTATATATGAAGATTTTTTTGAAAGATAAATTTTCTGACGAATCTAGAAA
GCAGGAAGTCAAAGGGGAGGGGGTCATGAGTATACTTTGCCTAAGTAATAGAAGACAGGGCATAGACTACTTTTTTGTTTGTTTGTTTTTTAAA
TAAAGATGGGGGTCTCACTGTGTTGGCGGGGCTAGTCTCGAACTCCTGGCCTCAAGCAGTCCTCCAACCTCATCTTCCCAAAGTGTTGGGATTA
CAGGCATGAGCCATCACATCTGGCCCAGTTTATATGTTTTGTTTGTTTGGTTTTTGCTTTTGTTTCCTCTCTGCACTGCCAATGGCAAATTCTT
GAGTAGTGGAATGTATTTATTGGGGAAAAGAGACCTGCCACCACTTAAAAGTAAAAAGCTGCCATTTTTAAGGGAAACCTTTCTCAGTGAGTTG
GACAGTTTCACCCAGAAGAATTGTTAAAAACGAGTTTTGGACACATTTCAGGACCTTTAGTTCATCTGTTCAGTTTTGGTAACATAAGAGCCAG
CTTGTGATCATGATGTCCCAGGAACTGATGCTACATATTCTCAAAAAGAGGTTTCTTCAAATTTAGTCCTTTCAAGGTACTAGTTTACTGTTGTT
TTACTTTTCAGGTTCGAGCCTCTGGGGATGCAAAAATAAAGAAGGAGAAGGAAAATGGCTTCTCTAGGTAAGACTTTGCTGCTGCGTGGGCTTC
CCTTTCTCTGGGTGGACAGCAGGCCAGCTGCCTGTGTTGTAGTGTTGTCTGAGTTAACCCAAAACCCACTGACCTGGCCATCTTGATGGTTCCC
AGAAGCTCAGCAGTGAGAAGACTCGGTCTAAGCCAACCTGAGCCTTTCTACAGTGCCATATAGTGAGACTGACCAGCACATTTTCCAGAAGGTT
ATTTCGAATAGAGAAGGTTGACAGGAGAGATTTTTAAAAATTGAGATTTGACTTGCATATCACAAAATTTGTATTTTAATGGTATACAGTGTAC
CATTTTTTTTTTTTTTTTTTTTTTTAGTATATTCACAAGGTATTGCAGCCTCTTCACTAATTCCAGAACATTTTCATTTCTCTAAAAAGAAACTTC
ATATTCAGTAGCGATTATGGAGTTTTCTGAAAAATCACTTAGTCTGATTTCATCATTAGTAATATTGGGAGGCTTATATATAAAAGATCATTTG
ACCTACATGTTAGGGATGAGTGTAGATTTGGGTAGAATTATGTTATCTCTTTTCTAGAAGGAGAGGAAAATGCGCAAAATCTAGAGGTTACTTC
CTATACTGTTTTTACCTTTATAATTTTGTTTTCCTCAGCCTCAATTTCCTAAAATAAGCCCAGAGGTCCCCTCTAGTTTCGAAACAACTAGATG
TTTATTGTTACATATTCTCACTTCACTGAATGACAGAAAGGATTTATTAGAAATGGTTGTAAGTGTTTGCATTATTGACTGGGACAAAACACTT
TGAGAGTTTTGCTTCCTTGAATCTTTGAACTTTCAGTTTCATTTGTTAAAATTTTTGACAATTGTGCCTGGTACTCTGGGGTCCTTTAGACAAG
GAGAAAAGCAGGTGCCCTCTTCAGGCATGTTTCATAATTGTTCTAGGAATGCAGAATAATACAATTCAGGAAGCATTAGAGCTGCAAGCTGCCC
TAGGAATTTTGATTTCTGAGATAAAGTGACTGAGGAGGCACTGCTGGGCTAATCTCTGCCAAGAGACTGCCTTGGATTTTTATTAAACTGATAT
GAATAAATTTTTTGGACTTGGTGCATAGTCATGAATTCATTTTCAGACTTTTTGGGTTAGAAGATTAGGAACACAGCCTTCTTTGAGGCAGTGG
TCTCTATGTTCACTTTGCTGGACTCCTTGCTGGCTTGTGTATATGTCTTTGTAGAGAATCCAGATGCTTCACTGGAATACAGTTTTCAGGTAAA
TTGTTTTAGGACTTCTTCCTTCAGACCTAAGTAACCCTTCCCACAGTTTTTGTCTTCAGTGTGACAAACTTAGGATCTAGCATTTACTTAACTA
GTTGGGTAAATGATAGGCTTTCTTTCCTTCTGGACCCTAGGGTCTGTGTCAGTATTCAGGCAGGAGGGGGAACAGCTGTAGAAGCTGGCATTTG
GTTAGGGTGCTAAAATAAGTTCTTTAAACATTCAAATTCTATCACAAGCAAGGGGACCCAGTATGCTTTTTTTGGTCGGAGGTACTCTTGAAAC
CCTGTGAATATACTTTGCAGTGGGGTCGGGATTCTTAATCCTTGGATCCCTCCACAGGGGGCAGCTGCATGTAAGGAGGCCATTTCTTGTACTA
AGTTAAGGCAGTGAGGTTCTGAAGAGATGTGCCAGGCCAGGGAGCATCCCATGGCTGCAGTGATTGCTGGGCTCTATGGTGTTTTTTACTTGTT
CCTTCTCTGTTTTGGTTCAAGATGTTTGTCTCAAAGGATTGTCTTTTTATATTTATATTTTGAAGGTAAGATCTTAACAAATAGTAGTGAGACA
CTCTTCTGTATATAAAGTAAACCTAAGTTAGGACGTTGAACAATGAATAGATTTGGCATAGGATACCTTCTGTTTATTCTGGTTTAACACGTGC

CCTACTTTTGTTGTAATGTTGTCAGCTTGGTTATTTTTCCATGTAGCTAGATATACATGTACGTTATTGCCACATTTTTAGAACTTTAAGGTAC
TAAGTTGGGGAAATCAATGTTTATTCCTTTCCTTGTAAAAGCTGTACTTTAGCTTTTAGAGTACTGGAACAATCAGTTCAGATTGTGGGGTCAA
ATATATGGTAGGTTTCCATGTAAGGCAAGAAAACACCTTAGGTTTATTTCTGGAGTGGTTCGTGCCATGCTGGCAAAGATAGCTAAGAAATAGT
GAGAAAGAATTCTGACTTAGAATAAAGAGTCTTGATCCCAAATCCTGATATTGCCCATTCACCTGTACAATGAGGACAAATACTATCTACTTCA
CAGGATTGAAGTGAGAAAAAGTGCTCACAGAACATCTTCATGATATGTACGTGGTTATCCTTATTTCTGTTAGCTTCTTTTCAACGAAATGACA
TATTCCTTCTTTGTATTAATAGAATACAGATGTTCTAGCACTCTGACCAGCAATTTTTTTTCTCTTTAGTCCACCACAAATTAAAGATGAACCT
GAAGATGATGGCTATTTTGTTCCTCCTAAAGAGGATATAAAGCCATTAAAGAGACCTCGAGATGAGGATGAGTGAGTATTTTCTTAAAACTTTG
ACTTTTGAAAACAAAAAGGAGGAGTTTAAAGAATAAATGTGATGTGTTTCTTTATAATACATATAGAAACTGCATTAATTGGCTTTTACTCATT
TGGAATTTGTGATTAATGGACTGATTTCTCTGAACTATGAGAAGTAGAGTTTGCTAAACAAGTAGTATACCCAAGGCTTACATGAAGATTATAT
AAATTTTTATTACTGAAAAGGCAATAGATATTTATTGTAGAAATTTCAAATAATACAGAATTCATGAAGAATAAATTATTTAAGTTACTTAAAA
TTTCTTATTGCCTACCACAGATAACTTAAAGCAGTTTCTCTTAGACCTATTCCTGTCAGACATTCTAAGTGAAGTTTCAGTGTGTAAAAATAAT
AAAACTGCTCATAAAACGGTCGAGGCTTACATGTATCTCTTTCCCCAGATTCAATGAGATTAAATTATATTCATTATTTTCACTCTTATATAGC
TTACTATGCTATTGTTATAGTAGAAATTGGATGGAAAGGGAGAAGGGAAATACTTAGTGAACTCATTTGTATTCATTCAATATAGAATTTCTTT
CCTCCACATTCCAGTGAGTTACTGCTATGTGGTAGCTAGTGTGCTGTGTGTTTGGTTCCCAAACTTTCATCTTTTATTTTTATTTATTTATTT
TATTTTTTTTCCCAGACTTTCATCTGATAATGATATTTATTTCTGCATATATCCCCCCACCCTATTTTGCTTCCAGGCCGGTGTAAGTGGTTTG
TTTTGTTCTATATAGGGCTATAACTATTACTCTTTGGTCTGACCTTCATTATTTTCTCTATTTCTGTTAGTCTTGACCGTAGAATGCCCAGCCA
AGAATAACAGTGATTACTCTTGCCATGGAGGCATCCAAGAGTTTGTAGGTCTCCTATGAGTGAGAACTCCTGAATCATAATTATGTTAACTGTG
TATTCATGTTCCCCTTTCTAGTGCTGATTATAAACCTAAGAAAATTAAAACAGAAGATACCAAGAAGGAGAAGAAAAGAAAACTAGAAGAAGAA
GAGGTTAGTAAAGAGACTTAGGTCCTTTGGGGCTTGAGTTTGGAAGTGGGAGTTTTCCAGTAAGCAACTTCTTAAGACAAATGAGTTTTAGATA
TTTATTGGCTTGTTATAACATTAGGGAAAACAAATTTAATAAGTGGTGGCTGTGGCACTGGTAGTTTTAAGATCTCTGTGAATCCCCACAGTGT
CTTAAGTTAACCACAACCAGCAGTGATTCTGCTCTCAGCCTTCCTGGGTGTCTGTCTACCCACAGCTAGGCTGCCAACAGATGTTCTTCCAAAA
ACTATGTCATCTTCATATATACAGAGGCAGTGTTAACAAGAAACCACATTTTGGCTTATAACCCTGAAGAAATTTCCCTAAGAATTTTTTGCTG
ATCATTCACTTTAGGTAACCATTCCTATCTAAAGTTCTTTAATGGGTACCCCTTTGACATATAATTGACACCCAAACTCTTTACTGCAGCTCCT
CCCAATCTGGCCCCTGCATCTTGTGTCTCTCTTCATCTTGTGCCTCTTCTCTAGCTTACTTGTACCAGTCACACTAGCCTCCTTTGTTTCTTTT
CCACACCAGATTCTTTCAAACTTCCGAGCTTTACGTAGCACCTGCTGTTCCTCTATCTGGAACACACATGCTCCCTTCTTTATCCTTTTGGCCT
ATAACCTTCCTCAAAAAACTCAGTTCCGTTTAAATGCTTTCCTAAATGTTCTTGTTGATGCTTGTGGTAGATTGAAAATAGAATCATATGCTTC
CTCCTTTTGACACTTTTGAGTTCTTGTACCAAAAAATTGTTAGCAGGTAATTCAAGAAAAGATGTCAGAAATTCACAGGGGTCTTAATGATGCC
CTCCCCTAAGACAAGAAGGGGTTGGGTGAGTTCTTAGCTCTTATGCTAGATTTGAGGTTAGCCACTGTCATGGGCAAAATGGGATCACAAATGT
AAAGTGGACAGTTTGAAGTACCAGCAGTAAAGAGAATGATAGTGAAGGGGCAGGGAGTCTTAAGAGGATAATCTATCATAATAGAATGATGTTA
ATAATCACAATTAAATGTAATAGGTGCTTACCATGTGCCAGGCACTCTTCTATATATGTATCATTTCATTTAATCCTTACAACCTGAATAGGTT
GTTACATCCCTATTATCATCTCCATTTTGCAGATGCAGAAATAGAGTATAGAAATATTTAATCATTTGCCTGAGGTCACATAGCTACTAAGGTG
GAAAAGCCAGCATTTGATCCCATGCAGTCTGACTTCAGTGCCAGCACACCAGCTACTATATTATCCTACCTCCCCTGGGACTTTGCTGATGCTC
TAATTCTGCAAGGAGGGAGAAGAAAGGTCTTTAATGAAATCATATGAAGACCATTAGTGAGTGAGTTGAGCCATAGAGAGATGATCAGGTCCTG
AATTTAGAAGGTTGCCGTTTTTTTTGACAACTAGTCTATTCTTGGCCGAAGTTCAAATTAATAAGCACTAATTCAAGGAATTGAGAGTGAAATGT
TAAGTAGTGATTATGGTAGCCAATCACTCCACTTTGCAGATGCAGAAATAGAGTATAGAAATATTTAATCATTTGCCTGAGGTCACATAGCTACTAAGGTG
TGTTTTTTTTTTTTATGTTTATATTGCATTTATGCAAAAATAATACTCTGAGTTTGTTAAACCATTGGGAAAAAAGAACAGTTGACTTCATTTGT
TATTATTCTATTTAGCAGCCCTACCACATAGGGGGAAAAATGCTGGCTGAAAGACTGAATTAATACAATCTTACTGTGGCAGGGACCCCAGATG
GCAGAATCTGTCATTAAACCTCACTCGCCAACTATAGTTTTTTTGTTTTTTCTCTTGTTTTTGAGAATTGTTCTGAGGTCTCTTAG
TGACTGACACCCCAATTTGAGGCTTGAAAACATACAATGTAGCCAGTAGTTTCCTGATGGGACCAGCTGGATGCCTGCTCAGAAGCTGTTTAGA
GTATCTTCACTGAAAAACATTTCCCTTTCCTGTGGTGTGTTTCACCCTAAATAGTAAACATTATCTGAATTAATGTGATCCTGTAGTACCTTCT
CCCAAACATACCCACATATTTATATTCTCCGTGCCTGTTTTAAAATATGGATGGTACTGTAAGCTTTCCTCTTTTTTCTATTCCTATCTTGATT
GCCATCCTATTATGAGGATCTAAAATGTTTATTCCAGTTATTCCCATAAGTCACATTCTGTTATTTTTCTCATAAAGTTAGGCTCTTATCATAG
TTAATAACAGCTATATGACCTTGATCAAGTGACAAAATATGTTTCAAAGTCCTTGATTGTAACTGGAAGTGGTTAAATGAACCCATCCATACAC
TTTCCAGCTGTGCCACTCTTTAATTGATTTTAAGATGGTTCAAAACCACCTTTCATTGCTATATAAAACTTGTTGAATAAAGACTGAATAAGTA
GTTAAATTATGTTGAATAGGCAGGACAAAGGAAAATATTCTTCAAAAGAGTTCAGATTCTGAGTGGGATCTTCACTTGTTGAATATTACATTTT
TGTTTGGGTTTTGTGTGTATGTTTTGAGATTCATCTCCTGTATTGGTGAATTGTGCCTGTTTAGGTTTGATGCCCGTTTATTGTGTCACTGTGA
TCAGCTCATTTACATTCAGAGTTCAAAGAAGAGCCATAAAGAAATACCACCATAGGAATTGGTGTCATTTTAGAACCTATCAAATACTTGCTTA
CTGCATCATGACTTTGTGTATACAAGCAGCAGCGATAGTACTATACTCCACTAAATCAACTGGGAATTTTCTTTCATCCTGAATACTAAATATC
TAATGCAAAGCCCCGTCTAGCCGTTATTTGATTGTACTGGAAGAGGTTTAAAGATGAGTAGGATTAAACATAAGTGAGGAAAATACACTCGGAT
TACTCTCTAGAGCAGTACTTTTCCAAACTCCTTTGAGGTTAAAAAAAAAAAAGTTTCCCAGTCTCTTCCCCTGCAGAGTGTTTTTTAACTACTT
TCTCAAGTAGTTGTTTGTCAGGAAATTTTAGGAAATACTGCTGTAGAACAGAGCACCAGTACATTGTTATTCATCTGTCAAATGAGAGGAGTAC
TAAGATCTTCTTTAGTTCTAATACTCTATGATTACAATTTTTCTTCCTCATGGCTCCCAAAAACTGCCTCCAGAAGTGTGATCAGTCTTTATTT
AAGTGCTTTCTCACCATGTTTCTTTGTAGGATGGTAAATTGAAAAAACCCAAGAATAAAGATAAAGATAAAAAAGTTCCTGAGCCAGATAACAA
GAAAAAGAAGCCGAAGAAAGAAGAGGAACAGAAGTGGAAATGGTAACATCTCAGCACTGGGTTAAAATGCCACCTTTTTTATTGCATATCCTTA
CGAAGCAAGAGTATTGAGTTATTAAAATTAATATCCTGATATTTGGGGGGAAATACTTTAAACAATTTCTCTAGAGTAACTTTCTGAAGTAAGT
TTTCCAACTTCTAGTGAAATCATTAACTGGTTCTAAATCTATTGGATCTCAAACTGGTTTCCACCACTGTGAACAGAATGGACTGTAGAAGCAG
ACCTATGTATAGGTGGGAATTTAGCATACGAAGAGAGTACAGATGCATTTAAAACCATACGGAAAGGACAGATTATTATGTAAGTCGTGTTGGG
AAAACTGCCTGTTCAACAACAGAAGAAACCTCAACAAGAAAACGTGGGTGAATATTTTTATAATTGTGCAGTAGTGAAGATCCTTTGAAGCAAG
ACATAACCAGAGCCATAAGGAAAGGTGTTTTACATTTGATACATCAAAGTTCAATTTATGGCAGGTGGACACCTTCATGCCATTTAAAAAAAA
AAAAAAACTCAAGGCAAAATATTTGCAATACAAAGGGCTGATATTCCTAATATGAAAAAAAGCTCTTTTAAAACAAATATGAAAGGAATGATCT
AATCAGAATGTGAGGAACAGTCAGTTTAGTAAAATAGTTAATAAGCATCTAAAAATGTGATCAACTTCATAAGTAATCAAAGATGCAAAAAAAA
TGATAAATCTTTTTGTTTAATGCCTCTCAGATTGGGAAAGATTAATAAGTGAAAATATCTAGAGTTGCAAATGTAAGAAAACAGGCATTCGCCT
TCCCTATAGGAGTGAAAATTCAGTCTTTATGAAGGACAGTTTAGTCATAGCTGGTTGCTCTTGAGAAGTGTATTTAGGTGGAGAACTTTTCTAC
TTTTGCTGTTTAGAATCTTGAAATAAACATGTTTTTAAAAAATACTTATTTCTGTTAACATGTTCTATTTAACTACTATACCAGCAGTACATGA
TTTTGTGTTTATGATGAAAAAACTCAAATGATTGACAGATTTAATAGTTAGAATAAAAATCAAAGTCACCTTTACCTGTCTTCTCCCATTCTCA
TTTTCCTTTCCAGCTTTCCAGCTTTGAGGTAATCACTGTTCATAATTTGATGTATAGCCTTCCAAACCTGTTTATGTGCCTTTATGGCTTTTGT
AATTTAGAACTTTGATGTCCACAGCACCTCTGAGGAAAGGGAGAAAGAGCACTGACCAGGAAGGTGGCAGAGGGAAGGAGAGCCACAGTGGCAG
AAATGTGGCCACACGGTGACAGCTATGTGATTCGCATGTTGCTATGGCATCATGGGATTAAATGGGAAGTATAGAAAAGGAATATCACAGAGCA
GAGCAACCCTGCCTCTTTCTAGAGGTCAGAGTCAGAAAGTAAAAGGCCAGGCACAGTGGCTCGTATCTGTAATCCCAGCACTTTGGGAGGCCGA
GGCTGGTGGATCACCTGAGGTCAGGAGTTCGAGACCAACCTGGCCAACATGGCGAAACCTCATCTCTGCTAAAATTACAAAAATTAGCCGGGCG
TGGTGGTGCGCACCTGTAGTCCCAGCTACTTGGGAAGTTGAGGCAGGAGAATTGCTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCTGAGATCA
CGCCACCGCACTCCAGCCTGGGCGACAGAGCGAGACTCTGTCTCAAAAAAAAAAAAAAGAAAAAAAACCCCACATGGGTTTATTTTCCTCATTT
TTATTTCACTTTTCTTAAGAACTAATACATTTTCAGTGATCTTGACCTTTAAGAAAATGATTTTTAGAAATAAAGTGATTGTGTAAATTAGAGG

SAGRES DISCOVERY 02-31



GGTAATAACTGATTTTCTTCATTCCATGAGTTTTATCCAGAAATGGTTAGAGCATTGTTCCTCATACCCTTATGTGCTTATGACTCACCAAAGT
GGATCTGAGCCCATTTAACAGTTGTGGGGTGGGCTTCTTTTCCCTTTCCCCACCGTCCCTCTTCTTCTTTCCCCTTTCCCAACCATCCTTCCCT
CTTCTGTCCCCTTTCCTGACAGTCCCCCTTCTCCTTTCCCCAGCATTCCTCTTCCACCTCCACTTGTCTTACCACCGTCTTTTGGCCACTGTTA
TTTCACCACCCCATTTCTCCACCATTTTTCCCACCCTCAGCCCCCCACTGTTTTCTTCTCACCCATCCCACCGCCCGCACTGAAAAGAAAAAGT
TCTGGGGTGGGATTGAGTACTTCTGAACCAAGTGGTCTGCTGACCAAACTTTGAGAAACACTGGGCAGGATAACTGCTGAAAAGCATCAGTGGT
GAACACTCAGGCATTCTGGTGCATCTCTCTTCCCACCAGTAGTGGCCTTAGGTCCACCAATGCTTGTAGGCCTAGGTAGTAGTTTACACTAAAG
GGCTGGGTCTGCAACTGAAGAAAGTGCCAAACTTGGCAAGCTGAAATTTGTTTTTTTAAAATGCCATATTTATTAGCCAAGTGTGGTGGTGCACG
CCTGTAGTCCCAGCTACTCGGGAGGCTAAGGTGGGAGGATTGCTTGAGTCCAGGAGGCAGAGATTGCAGTGAGCCTAGATCGTGCCACTCCCCT
CCAGCCTGTGTGACAGAGTGAGACCCTGTCTCAAAAAATAAAATAATAAATAAATAAATAAAACATATTTATTGAATGTATTTGTGGTCAGACA
CCAAGACCCAGCAGTGGATAGTACTACTGACTTAGACCCTGATCTTGGGGAGTTTGCAGCCTAACAGGACTCCATAATCTCAGAGGCAAATGCT
TATGTTATGTAAACATTTTGACCTGTTGACCAGAGAGCCTAAGACAGTTCTTTCAGCCCTCACGCTGGTCATTCCTGGAGACTCTTAACTATAA
CTCAAAGCCAAAACTCCTAATTAAGAGAAAGGGCCTAGAACCTTGAAGAGCACCATCTCAAAGCGTAGGTATTCCGTAGGCCTGGTCTGGACTT
ACCAAGAGCTTTAGGATGCTCAGCTGGTAAAGCCTCACTTTGAGGTTCAAAGTGATGGGAGGGAAAGCTAGATTCCCTAGTCCTGTGGTTTCTC
TTCCTTTTCAAGATAGGAAGCAGAGGCCTGGTCTAGTTCACAGGTTGCCATAGTCCTTTCCTCCCATTCTTGCCCAGTCCTCCTTTACAGGATC
CTGCTTTAGGGCTCCAGCATTTTCTCAGCTGGTCCTCTGCTGGGATTTCTTCTCTTTGATTGTGTGAACTCTTACTCTGCAGTAAGTCAAGAAG
TCATATTTGACTTTACTTCAAACTGATACAGTAAGTGCTGCCTACTCTCTGGGGAGGAGAATTCTTAGACTCCTTTAGAACTTGCCAGGGAGGT
GGGGCATGGGCTAGCTGAAGCAGTGAATTACTGCCTTCTCTGAGGACCTTCAGTTTACAGCTTTGATTCAGCAGTTTCCTTTTCCTGGAGCTCA
GCCTTTTCCACAAAGTGTTAACATTGCCAGGAACCTTCCAGTCATCCTCCCACTACTCTGATGCAGGGAGCCATCATTTCATCTTTTGACAGCT
CATCTAAAATAGGAGGAGTCACAGTTGCTTCTCCCTCTATTAGGACAGAATTCAGTAAAACAGCCCAAAATCTCATTTTTTTTAAATTTATTTT
TATATTTATTTATTTGAGACAGAGTCACACTCTGTCACCCAGGCTGGAGTGCAGTGGCACAATCTTGGCTCACTGCAGCCTCCACCTCCAAGGT
TCAAACGATTCTCATGCCTCAGCCTCCCAAGTAGCTGAAATTAACAGGCACGTGCCACCACACCTAAGTTTTGTATTTTTAATAGAGACAGGGT
TTTACCATGTTGGTCAAGCTGGTCTGGAACTCCTGACCTGAAGTGATCCTTGCACCGCCTCCTAAAGTGCTGGGATTACAGATGTGAACCACCA
TGCTCAGCCACATTTTTTTTTAAATGGTGTTAACAGTTTACATTTTTTTCTTGCCATTTTATTTCATTTATTTTATTCCTAATGACTTAATGTT
TTCCTTTATATTGGAAACATGTTACAGTTTTCTAAAGAAGTTCAGGGAATCTTTTAATACACAGCCTATCTTCCCCGAAGTGTCTTTCTTCCAA
AGCAGAAGCTTGGGGGTTGATGGGGGCAGCTGCGCCACCTGTTGGCCTTTTAAGTTAATGGCGTCCAAAGTGGGTTCTTTCTATTATAACTGTT
TCAATATTGTGCTACAGTTCTCTACACCCCTGCAAAGTCAGATTGCATATCATTATGAGATAAGATGTCTTCTGAGTTTTGAAATAAATGGATT
TCTGGTTAAATTTTAGTTTTCTATAAAGAATGTGGGCAGCCTTGGTGAATTATTAATACCTGTGTAATAGTAAGGTGGTGGAATTATAGTTAAC
CTCATTTTAAGTATAGCCAAATGCTCTTAGTATAGCATGGATTGGTTCGAGGTGATGTTGTAAAGTTGGATTTTTAAGAAAGAATGGAAATTGG
CACTAAGAGTACTGTCAAAAGCATTTGTTTGAAAAGTGGATTAAATTCCCAAGTACTTTTCTTTCATTGCTTTATTAACTAAATCAGGTATATA
AAACCCATAGGCCCTATTCAGATTTTCTTTACCAGTTAGCAGCTTTCATTGTGAAAACATCTGAGTCCCTTTAGACAGCTTTTTGTTTATTTGA
GACAGTCTCAGTCTGTTGCCCAGGCTGAAGTGCAGTGGCGTGATCTTGGCTCACTGCAACCCCTGCCTCCTGGGTTCAAGCGATTCTCATGCCT
CAGCCTCCTGAGTAGCTGGAGTTACAGGCTCCCACCACCACGCCCGGCTAATTTTTTATATTTTTAGTAGAGATGGGTTTTCGCCATGTTGGCC
AGGCTGATCTGGAACTCCTGACCTCAAGTGATCTGCCTGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCTCCCAGCCCCT
TTAGACAGCTTTTACATAAACAATTGGATACACCAGGAACCCCAGTCATCCCTTGTGCTGTGGATGCATCCTGGTTCCCTGAAAGAGGCAGCAT
CATGGTACCCATGTTCCAGAGCAGTGTGTCGCAAACTCTAGTGTGCATCCAAGTCTTGTTAAAAATGCAATTTCTGTATAGGATTCAGTAGGTC
TAGGAGGGGGCCTGGGATTCTGCATTTCTAAACTCCCACATGATGCCAATGCTGCTGGTCTGTGAACCACTTGTTGAATAGCAAAGTTCTAGAA
GAAGGTCTTATTAGGCTTTTCATATGGGAAATCTGGGCTTGCCTAGTATGGATATATATTTTTTTATTCATATTCCACCCACCTAACTTTGAAG
AAGAAAGATGCCTATTTCTTTTCCCCACAATTCCTTTCTTCCACTCCCTGCCCTATCCCTTCCTCCCCTTCTTGAACAGAGGCTGCTTAGCTTA
GCAGTGGCAGGAGTCCCTCTGAGGATTTGATTTTTAAAAACCATTGAAGAGGTGTAAAGGACCCTGCTTGCTGAAAGGAAAAGGAAGAGTGACT
GGGCCTCCCCCAGGTCATCCCTGTCCTGAGCAGGCACCTGGGAACAATTAACTGGCATAGTCTCCAGAGAATGACCCAGGTAAATATATGCTAA
AGAGAAGGAGAATTTGTACAAGTAGATATAAATCAGTATGTTGTCTTTGTTGTTGTTGCTACTATGTGTCACCAGACCTTTATATACCATGAGA
AGGCAAACCATTATTAAAGAGAATTCGCTAGCCCTGGGTATTTATGCTTAGAACATGAATACTATACCTCACTTTTTGGAACCACTTTTTTCTC
TAGGTAAAGTCATGAAGCTGAGCCCCAAAGCAGAGGAAGTAGCTACGTTCTTTGCAAAAATGCTCGACCATGAATATACTACCAAGGAAATATT
TAGGAAAAATTTCTTTAAAGACTGGAGAAAGGTACTGTAGCCCATGTGTTAATATCCTAGTACCTTGCAAAACAATCAAGTACTAAGTAATAAA
TTATCATTTTGCAAAACATTTCCTGATGTAAAATTTGAGTTGTATGGATTTTGTTGTATTTAAACTTGCGTATTTTTTGTCTTCATTTACTATA
TTATGTAGGGTTTCTGTCCAACAAGAGTACTTGTATATCTTTGCTATTGGCTCTCATGTGATGGCAGGTAGGTGGGGGTTATCAGATTAGGCCA
AACAGAAAACCTCAACTCCAGTTGCGCACAGGAAAGTTTGTCGCTGCAGGACTGCCCCGTGTCTGCTGTTGCAAAGAGAAATGTTAATCTGATG
TCCCTCTCGCTGTTAATTCTTGCTCATTTATTTTAGGTACTTTCTACTCTTGAAACCACATATACTATATTTGCCTAGGTGATTTTTTAAAATC
TCATTATTCTCAATTTGGATAATGTGGACAGAGGCAGCAGTAAAGTTTACTTCCTGAACTAGCTCAGAAAAAGCAGACTTAATAAATGAATAGA
ATAGGGGTAATGTTTCCAAGAGAGAATCAGTATGGGATTTCAAACTTGTATTCATAATGCCTGGGGGCTGTGTGCCACGGAGTCTAAGAAACCA
CATAAGAATTCATTTTTTTCCATGATAAGTCATTTTAAAACATTTTAATATTAGTAAGTACATATTTTATAATAAAGTAATACAACTGTATTTT
TTTGTTTTTTCAAAATTCATTAATTGAGATTGGCTACTTCCAGAAACCTTTGACTGAAAAAATGGTGCTTGGGTGTATTTGCAAAGAAACCCAA
GGACTTATTAGTGTATTTTCGTTGTTTTTCTTTCATCTCCCCATTTTCTTTTGACTAGGAAATGACTAATGAAGAGAAGAATATTATCACCAAC
CTAAGCAAATGTGATTTTACCCAGATGAGCCAGTATTTCAAAGCCCAGACGGAAGCTCGGAAACAGATGAGCAAGGAAGAGAAACTGGTACTAC
AGAATTTATTAAACCTCTGGAGAATTCTGGAATTGTGATTGGTTCATTTAACTTTCTTCTTGGTTCTTATGACACAACATTAACATCAGTAATT
TCACATCATTCTATGCTAAAGACTTAGAGTTCTCAAAGTCTAAATTTTCTTAAAGGTTTTAGTTAGACTGAAAATTGTGAACAAGTACTTTGCT
CAGTAGCTCTGTACAGGAATCTTGGTGCTTCAGTGACCTAAAAACCAGTCAGTAACTCCAGCCAATAATATAGTAATTAAGGATGGGCAGACCT
GTCCCACAGTGGCTACTGGATATTAAGGATTTAAGACAGATGAAATCATATTGGCCATGTACCTCCCTGCTCTTTGATCTATTTTACTCTGGAA
TCTTGTGATGCTCATCCATCTCCATCTTCCAGCCTTGGCCATCCTCATTACTGAAGGATCTTTCTGGTATCCAGCTGGGATGTCATTTTCTTC
TACAGGCTGCCTGTTTTTGTAAAAAAAAAAAAAAAAAATTTATTGGAACCAGCTGCCTCTACTTGTCTACATATTATCTACGGCTGTGTTTATG
CAACAATGACAGAGATGAGTAGTTGCAAAAGAGAGTAGTTGCAAAAGAGACTGTGTGGCACTCAAGCCTAAAATATTTTCTATCTAGAAAAAGT
TGTCAGCCCCTGAACTAAAGGAATCCAGGCTAGAATTTCATTTTTACCAATCGGAAGTCCAGAAGTTAAGGATTTTAAGGAATTCTTTGCACTT
CAAATTCCTGTAGTTTCAGTATTTTAAAGGACTTGCGTGTTTACGTAATTCAGACCATTGTATTGATATAACTCATTGTTTCATGGTACTTATT
TGGTCACTAGTTTAAAAATTAATGCATTACTATAAGAATGTTAATTGCATCAGACTTTGTGTCTCAGGTAAATCTTATCCTCAATATTCCAAGT
TAGTGAAATTTAGTATATTATTTACTTCAGGGGCATTTTGAAACTTAAAAGATCACTTTGGAGCTTTGTTCTTAGAATATTGATCCAAAGATAG
ATTTTATAAACATCCCCTTGTCAGAGCCTCTGCCAAGGACACCTGCTGCCAGCAAGGTCTGAATCTGTTCCCACCCACAAGGCAGCACAACTTA
GTTAAACTGAATCAATAAGTATATAAAACGCAGAGTCAATAGAGGGTAAGGAGGCTCAAAATCTCCCCCACCATCCCTCACCTTTTTGGAGCAA
GGATCATAGTATAGAGTGTATATACCTGTATACCTACAAAAAAATTAGTGACAGATCTGTCTGAGCTTAAAAACCCACGTTTTTAAGCTGTTTA
ACTGCTGTTTAATTAAATGGCTTGAGCTATTCTTTTATGAGGCTCTATCAGAGACTCTTCTCCATTTCCTGTTTTGATAGTACTCAGTAAAACA
GTATGAATTTTTAAAGTACATTTAAAAACACCCAAATAACATTTACAAACATATATCCTTTAAGACACAAGAATCAGTTTGAATCTAGTTGAA
ATCAATCCTTATAGGCAGATCTTTTTGGGGAATTTTATGATATTTAAGTTTGAGAAAACCACTAGAGGTTTTCCTTTATTTGAATTTATTTTTT
AGTGATTTTTCAGACTTTCCTCTACCTTGACTTAGTCTCCCACAAGAGATAAAATGCATTAGTAGAGAACAGCAATCTGAATCTATTTTGAGTA
CTTTCTTGCTGTCTTCCAGAAAATCAAAGAGGAGAATGAAAAATTACTGAAAGAATATGGATTCTGTATTATGGATAACCACAAAGAGAGGATT

GCTAACTTCAAGATAGAGCCTCCTGGACTTTTCCGTGGCCGCGGCAACCACCCCAAGATGGGCATGCTGAAGAGACGAATCATGCCCGAGGATA
TAATCATCAACTGTAGCAAGTGAGCTCGCACTTCATCCTATGGGCCAAAAAGGGGGTGGAGGGCGTCCTTTATTGTACTTGGGAATATTTCCCA
GGTTACACAGGACTGTTTGGGAAGGGAGATACTTAAGAGCAGGACAGTATTTCATGCGTAGGTCTCCAGATGTTTTTGAGGTACAGTTGTCTCC
CCTCATCCACAGGGGATATGTTCCAAGACCCCCAGTGGATGCCTGCAACTTCGACCCAATTGCTGTCACTTGGAACACATTTCTGTTGATGTCT
TCCACCCCCAAATTTAATGTCTTTTCCATGTTTATTAAGTACTTATCACATAGAGTGGCTATAACTTTTGCAGTCTGAGGCACAACAGCAAAAC
TAGCACGACTTTCTTTTTCCTTCTTCACAATTTCACAGATGGAAGGTTAATTCTTACCTTAGATCTTAGCAACTTCACCATACAGTTTTTTTTA
TTAAGTCGATAATTTCCACCTTTTCATTTAAAGCACTCTGTGCAGCTTCTGTATGGCATATCCAAATTGCCAACATCACCACTTTCACACTTTG
GGGCCTTTATTAAGTAAAAGAAGGATTACTTGAACACAAGCAATGTAAAACCATTAAAGTCAACCTGATAAATAAGGCAGCTACTAGGTTACCC
ATGGGCAAGTGACATATACAGCATGGTATGTTGTATATATGGTTCACGCATCCCAGGTGGGACTACAAGAGATTTCATCATGCTCCTCAGAATG
ATGTGCAATTTAAAACTTACAAAATGTTTATTTCTGGAATTTTGTATTGAATATTTTCGGATGACAGTTGGCTGAGGGTAAGTAAAACCATGCA
TAAGGTGGGACTACTGTATTGACTGTTAAGAAGGAAACTTGGAAAATTATGCTCAGCAGATAGGTCCACTTGGGGTCATGAAAGGTGAAATTAT
TCCTCACATCTTATTTCACTATCCTCGTGCTCTGTTATTTCCAGAGATGCCAAGGTTCCTTCTCCTCCTCCAGGACATAAGTGGAAAGAAGTCC
GGCATGATAACAAGGTTACTTGGCTGGTTTCCTGGACAGAGAACATCCAAGGTTCCATTAAATACATCATGCTTAACCCTAGTTCACGAATCAA
GGTAAGGGGATAGTTGAGAGCTGCACTGGTTCATGGTGCTGATAACCTTTTTTTGTTGAAATGTAACGTTCTCGTCCTCTAGAATCACTTTGAC
AAATTAAAAATCCTCCCCATTGAAAGAAGGCAAGTACTTTCATAGTTAGCATTATGGTGATCTTCCTACAGTGCCTCCATTTTTTTGGTCACAT
TGTAATCTTATTTATTAATTCACAAATATTTACTGAAATCCCAAATGTGCCCCACACAGTATACATTTGATGCTAGGAATTATGTTGGTAAACA
AGATAGACGTAGGCCCTGCCTTCATATTGCTTAACGTCCAGTGGTCAGAATGTGTTGAAGTATGGTGATTGTATATTGGCCTCTGCAGATGTCT
TCTACTTCCTCACCTCTCTTGGTTATGAGAAGGGAATGTAGTTTCTGTATATCCTGAAACAAGTTGTAAAATCTAATGTCTTACATACTTCTGG
CTTCCTGCAGTCTCATCTGGGTAGGTTCACCAGGGCCAAATGAAATGTGTGTGAAAGCACATCATAAAACTGTGTTACATACCTATGCACTGTT
ATTTATTGATAGTGTTATTGCAAGGAGATAACTGCCTTGGGGGAAATCAGTTTTTGTTTCGCCAGATAGCTATGTATATCTAGCTTTGGAGAGTC
CCACGAACTTCTTCCCTCCAACATACTATGAAATATAAACCTAACAGAGACAAAAACACAGTCAAGGAATTAGTTCTATGTAGACTGTTAACTG
TTTTATGTGCAGGAGACCTGGGACTAAAGACCTTCTTGATCCTCGTTCATAGGTTATAACATCTGTTAAAATGTGAAAGCCACAGCTGAAAAGG
CTATGTGAATAGGCAAGACTAAACTGTACATTTTCTGGCTTGTAGCCCTGTGTTCTTCTGTATATCACTACTTTTCTAATGAAAAATACCTGTT
TATATATTTTCTCCAATTATAAAATATACTTTTCTGGCTGGGTGTGGTGGCTCAAGCCTGTAATCCCAGCACTTTGGGAGGCCGAGATGGGCGG
ATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGACAACATGGCGAAACCCTGTCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTAGTGG
GTGCCTGTAATCCCATCTACTTGGGAGGCGGAGGCAGGAGAATCGCTTGAACCTGGGAGGCAGAGGTCGCAGTGAGCTGAGATCACGCCACTGC
ACTCCAGCCTGGGCAAGAGACTTAGACTCTGTCTCAAATAAATAACTAAATACATAAATAAAAATAAAATGTAGTTTTTGTAGTTTAGATAAGT
ACAAAATCAGAAAGCGAACACTTATGTTGAGCAGACTAGTCATTTAAAGAAACATGTATTCCTCTTCTGAAGTATCGCAAAGCTGTATATATGG
CTACAAAAGCAGAAAAATAATAGTTTTAGCCCTTAAGGAACTTATAGGCTGGTGGGCAAATCAGGTAAGAATTCAGTTGTATTAGAAGAAAGAT
AAAAGTAAAATGCATTAGATAAACAGAGGAGTTATTTGCAGCACCTTAGAGATCAACAATAACTTTATGAAGAAAAGTAGGTTATGGTTGGGTC
TTAAAAGTAGTATTTCAAACAAGAGAGAACTGTGTCGTGGACAAAGGGGAGGGTGGTAAGCAGAGTATGTTGAGGATAGGGGTTGAGAAAAGGT
GTGATAAAAAGAATTATCAAGTGGTGACAGTTGCACAACATTGTGGATATACTACTAAATGTCACTAGTGGTAAATGGTATCAATGCATATTTT
ACCACAACTTAAAAATGATCAAAATAACAGAGTTACTATTAAAAACATTTGCACATAAGTTAACATTTGGATCTTCTAAGCATACCGCACATAC
ATATACTAATGCCACCATTTATAGATGAGTAAATTTAGTCTCTGGGAGGCCCAAAAATTTGCCCAAGATTCAGTGGCTAGTAACTCTAACTTAG
ATCTTCTTAGAATGTAACTTAGATCTTCAGTCTCTGCATGCTTTCCTGTGACATCCACTGCTAAATGTGGCCAGCTTTAAATGCCATGTTAAAG
AGACTGAGCCCTTAAAGGACTTTGAACAGTGGAGTGTCTTGAACACAGCTTCACTTCAGCAAGATTTACAGGCATTATATGTAAATCACATCAG
TAAATATGAACTGTTATAAATGCTGCAAAGGAAAAAGTACAGGGTGCCATCTGAGAGTATACCAGGGTACCTGATCCAGCCTCTGGGGTTCAGG
GATGGCCTTTCTGAAGAGGTAACATTTAAAGGATAATGTAAAGAAAAAATTTTTTTAAATTAGTACCTGAAGATCTGGCTGGCCTCACTATATA
GCTTCCTCTCCTGCCTCTTTCTTCCCTCAGAACGACCAAGCTCTTGCTCACCTCTGGGATTTCAAAAGGCTACTTTATTTTCTCTATTAGAAAC
ACCCATTCTCCTATTCTTTCCAGGGATACAATCCTATTCATCCTGTAAATCTCATCTTAAATGTTAACTCTTCAGAAAGGCCATCCCTGAATCC
TAGAGGCTGGATCAGGTACCCCGGTATACTCTCAGATGGCACCCTGTACTTTTCCTTTGCAGCATTTACAGCAGTGTAAATCTACTGGTGTGAT
TTACATATAATGCCTGTAAATCTTGCTGAAATGAAGCTATGTTCAAGACAACTCCACTGTTCAAAGTCCTTTAAGGGCTCAGTCTCTTTAACAT
GGCATTTAAAGCTGGCCACATTTAGCAGTGGATGTCACAGGAGAGCATGAGGAGCATACGCTCTAAGAAGATTGAAGAGTTACTAGCTGTTGGA
TCTTGGGCAAGTTTTAGGGCCTTTAAGTTTAAAAGGAAGCCACCAACCTGGGATTTAAAGAGGGAAATGACACCAGATTTGTATTTTGGAAACT
CGTTACATAATTGATCATTCTGACTGCTGCTCTGCGGAGACTGGATTGGACACAAACAAGAAGTAGAGAGATCAATGGGAAGCTGTTGCATACT
CCAGGCAAGAAACAGCGATGACTTAAGACAAATGATGGCAATGGGGATGGAGAGAGGTGACAGATACATAATGTATGCTGAGTACTTGTACAGG
TAAGGATTAGAGTTAATTAATTGTTGGAGCCTCTCTGAGGGCTGAGATCCTTGTTAGATAGACCAGGTGAAATGCCTCAAGAGCAGAGAGCCAG
TCAATTTTATTCCAGACAATATCCAGCTAACTGCTATACACAATAGACATTTGTGCAAGTTTCTGGATGATGATCATGGTAGTGAACCTAAAAG
TCACCCAGAGTTAGACTCTGAACCTTATGCTCAGGAGAAAGTGCCTGACTTGAACTGCAATGGGATCCCAATAGGAGTCATTAAAGGCCTGGAA
AAGTGGTGCCATTAGGAGAAAAAGAAATGATTTCTTGAGCTTGCTCTCAGTTCTCTTTTAGGCTGTCTTGTACTCAGCAGAATAGTGAGATCTT
CAAAGGTTGGGGTTTGATAGTGCCTTGAATAATTTTTAACTTTATATTGCCAGCGGAAGAAGCATTCTCTTTTTAGATTTAAAAAATGTAGATA
CAAATATTAGGGGTTTTATTTTTAGTGAAACATTTCAAACATACAGGAATAGATAATTATGTAATGAACACTCGTATGTCCACCATCTGGCTTT
GTAAAATCTTAAAATTATGTCTTATGTGCTCAATTGTTTTATTTCATAAAAGATACTGATAAACATAGCTGAAGTCACTTGTATACCATTCACC
TTCTTCCCTGTAGATTACTATGAACTCGGTCTTTTTATTCTCATACATATTTTTTGTATTTTTGCAGTATATTTATGTGTTCATAAACAATATG
TAATTTTACAATATGTAACACACTAGTAACATACTAATTTAAAACTTGTTTTTAGTTTACAATATGTTGTAAACTATTGTAAGCTAAAGACATA
TTGTACAACCTATTGTAAAATAAAAACAGGTTTTAGTTTTAAATTAGGTATGTTACTGGGATCATTCTGCAACTTGTTTATTCCTCTCCAGCTT
TGATTTTGTGGTTTTATTATCTTAACCTACACTTTTAATTAATCCATTTTATTTGTTACATGGTATTCTATTATATCATAAAAACTTATCTATT
CTGTTGGTTTTTGTTGTTGGTCATTTGAGACCATGTCTTCGCTCTGTCACCCAGGCTGGAGTACAGTGGCGTGATCTTGGCTCACTGTGACCTC
TGCCTCCCGGATTCAAGTGGTTTTGGTGCCTCAGCCTCCTGAGTAGCTGGGATTATAGGCGTGTGCCACCATGCCCAGCTAATTTTTGTATTTT
TAATAGAGACGGGATTTCACCATGTTGGCCAGGCTGGTCTTGAACTGACCTCAAGTGATCTGCTCACCTCAGCTGCACAAAGTGCTGGGATTAC
AGGTGTTAGCCACCATACCCTGCCTCTATTCTCTTGTTAAGAGGCATTTAGCATGGTTATACAGTCTCTTGCCCTCATAAACAGTGCTGGAAGA
AACACATGTTTCTTGTGTATATGAATGAAAATTTGTTTTATACATTAGATATTTCCAAATTGTTCTCTTAAGTACTTCAGTTTACATCATTACT
CTCCTCCTCCCTCCCCTCCCACCCCCACCCACAACAGTATTCCTCTTTTTCCATATCCTTGCTAATGTTTCTAAAGTTTTGCTTTTTACATTTG
GGTCTTAGATCCACTAGAATGTATTTTTGCATTGGGATGAAGTTGAAACCTAATATATTTTCCAAATGAGTAAACTGTTGTCACAGAACTATTT
AGTTGTATTACCTCCTCTCTTGTATATCAGATATATCTACATATATGTCAGACTGTTTCTGGGCTGTCTGTCCTCTTTAATTAGTTCGTGTATC
TGTTTCTGCATCAGTAGCATACTGTCTTAACTACTGTAGCTTTATAAAGTCTATTGAGTAGGACAAGTTTGTTTCATTCTTCAAAATTGCTTTG
GCTATTCTTGGCCCTCTGCTGTTTCATATTAACTTTCAGATAAACTTGTCAAATTCTAATGAAAACTGTTGATAAACTTGTTGATTAACAAATT
CTAATAAAAACTGTTGAGATTTTTATTGGAATTGCAATACATTTATAGATTAACGGAGAAAGATATTGACAATACAATTGAGTTTCCAATTCAC
GAACATGTTATACCTCTCCATTAATTCATGTCTTTTGAATGTATCCACCAATATGGTTTTGTAATTTTCTTCATAAAGGTTTTACATTTAAAAA
ATTCTTATTTTTAAGTGATCTTATAGTTTTTATTGCTAATGTGAATGAGATTTTTTTCCATTATGTTTCTGTTGGTTATTCCTGAAGTGGTAAT
GCTTATAATTTTGGGGTGTTGGTCTTGTATCTGGCAGCAGATACAAGAGGTGCTCAGAGTTGTTCAGGGTTGCTGAACTCTTAGTTCTAAAAGT
GTCTGTCATTTGGGGTTTCTATGTAGATAATTTAATTATCTATAAAAACAGTTCTTCATTTTCAGTTCATATATTTCATATTTCTTTAAGTTTT
AATTTTTATTTTTAAACACAATTATCCATAAAACCCTAACCCTTTCCCTAGTCAACAGCAGTCACAGCCAAATGTTTTATTAATTGCTATACTC

AGTGTTTCTTGTATCTCATACCTTCTGGGGTTTCTTGTCTTGTTGAAATACACCCTTTAATGTTTCTTTAGTGAAGACCCAACAGTGGCACTCA
CTCACCTTTGTTTACCTGAAAATTTCTTTATTTTCATCTTAATTCATAGTCTGTCTTTTCTCCAGTCAAGGAAGTGTCTTATAGGGAAGATTCT
GGTTTCACTATGCTGTATCCAGGGATATATATGTATTTATAGATAGACTTTTAATCTGAGGACTAATGTATTTTATCCTACAGTATTACCAATC
ATTATTTCTTCCATAACTTCTAGACCATTCCTTTTGTACTTCTTTTTTAGAGTCCTATTAGATGAGTGTTGACACTTTTCAATCTAGACATCTT
TTTTAAACTATATTTTCATACTCTTTGTCTCTTTAGGTCTGATTTTTTAAGTTCAGGGGAATATTTCATTTTGGGTGAGTTGTAGCACTCACTT
CCAATTCACTAATTCTAATTATATTTAATCTACAAGTTATTCCATCTATAATTTATTTCAATTACCACTTTTTGTTTTCAAAATTTCTAATTTT
ATATCTGATTTTGTTTCATTTTTGTTTTATAATTTCATGTTCTTTCTAGATTTTACATCTTTTTATGCATACTAAACATACTCACTTGAAAGTC
TTTGTAAGATTGTTCTATAAAATGTTACCTGAAGTGAATTCATGTGCTAATTACTGTTGGCAGTTTTTCTGAGCCATTTTCCTTGTGTCTTTTG
AAATTTCTGTTTGTAAGCCCTTTTAACTGGGAGGTGTTTTTTGCTTATGTACTGTTCTCTTTTCTTCCCCTTCTTCTCCTTCTCTGTTCATTAC
TTTTTGTCTTGGAGGGAGTCTCTTAGCCCAGCTCAGCCCAAGCTAATAAGGCCCCTGACTTCAAAGTCCCCCCTTCTTGCATGGAGCAAGAAGTG
ATCCTCCTGTCTCAGCCTCCCAAAGTGCTGGGTAGGCGTGAGCCACCACATCCAGCCTAGAGCACTTACATTGCTACATATTTGGAGCAAACAT
AATTAAAGTATGACTTACTGTGACCCAGCAGTCAATAACAGATACGTTTTTGTAATAGAATGTTGAAGGGTGGTAACTGGTGGTTTTACTTCAT
GGAGGGCTTTAGGTCGGCTATATGGGAAGCTGCCATCATGATGCTTTTGTTCTACACATTTCTGCTCAGCCTCCAGAGATGTCTCCTATTCTAA
GAGTCGTCTTTGTTTACTCTTGTGTCTATATTTTACTTACTTAATTCCCTCACATAATAGTGTATCATTGTATCCCATCTGTGCTCTATCAAGA
AATGTAGCACAAGCATGATGTGAACTATGAATTTTCGACAATTTAAAAAATTAAAGGAATCATTCAGGGGTAAAAAGCACAAAGTTGTAGAACA
GCTGAAGTGTGTTCTTTTTATGTATCCTGTCTTTGCCCCCTTTCTGGAAACTTGGATTGGCCTACTTGCAGTCACTGTCACAGTTACACTACTT
CTAGCCTCAAAGGTCATTGAAAGGATTGGGATTTTTGAGAACCACAATAACACTTGCTCTAGGTACTGAAAAGGTTGTCCTGAACTCATTCATA
TCTTTTTATGTTCATCCCAGTTTGTTTTTGCTTTTCCCCCCAGGATTTTGATTACACAGACATCTTGCAAGCATATTTCCATTCTTTCTCTCCC
ACTCTGTGCCTGGTGCCCGTAGGATCTGAAATAGCATTGGAATGACAGCTAGCCTTCTGGAACCTGCAGTTTCAACCAAAGAAACTCTGATTCC
AGATAACCCAGGAGTTTCTTATCCTGCATAATCTAGGAGTTTACAAAAAGGCTGCTTATGGGTACTCACTGCTAAGTACAATCCACTGCCAAGT
TTGGAAGCATTACCTGCTCTCACAACCCAGGGAAAGTAGCCCTTAGTAAAATTCAGGTTTTTTCAAACCAGCCTTAACCTTACAAACAGAATTT
ATCATCATGATTTTTCTTTCAAATGCAGTACAGCAAACTTTAGGATCAATGTTGACATCGTATTGCGTTTAGTCCTGTTAAAATACTCTCAGTG
CCAAATACACACTTCTGCCTTTTTTCTCTTTAGAGTCTAGAATTCTGTGGGGTTCCAAAAATGTATGTGCTTACAACCTTTTATATGTAACCAC
CTAGGGATTAAAGGGCTAAATGTGAAGGAAAGTATCTTTACAATATTCATCTTGGGAAGCTCTCATTTTGGTGAGTTCTATTAGAGAAAATAAG
ACACAAGCTCATTAAAAATATATATATTCTGAGCCTGGCATCTTGGTATAAAATTCAAAACGTTTTAAATCTATTTATTAGTAAGACTAACA
TAGACCTAAGTGTGAAGACTAAAATATTAAAGCTTGTAGGTGATATCATGGTTGAATATGACCTTAGAGTAGATTCCTTAGGACAGAAAAACAC
CAACAAGAGAAACAATTGACTAAATGGACTTCATTAAAATTAAAAATTTATGTTCAACAAAAGACACTGCTAAAATAAATACAGAATTTACAGA
CTAAAAGAAAATATTTGCAACATGTTTATCTGAAAGGCTTATATCCAGACTATACAAAGAATTCCTGTAGCTCCATAATAAAAAAACAGACAT
CCCATCCGCATAATAAAAAGAGCAAAAGACTTGAACATATACTATACAAAAGAAGATACAGGAATGGTCAATAAATAAGCAAATGAAAGAGTGC
TCGACATCACTAATTATCAGTGGAGTGAAGATTTAACCACAGGGAGATACGAATTCCAGTTCTAGGTATTTTTACCTCAAGTGAAATAAAAACA
TTTATCCATGAAAAAACTTGTACAAGAATGTTCATAGCAGTGCTCTATTCATAAGAGTGCAAAACTGGAAACATCCCAGAATAGATAACACATT
ATGGTATAGTCATAGAATATACTATATTTATCAGCAGTTAAGAAGGGAACTACTTATGTATTCAACAACATGGATGAATCTTAAAAACATGGTT
AAGGGCCAGGTGCGGTTGGTGCATGCCTGTAATCCAAGCACTCTGGGAGGCCAAGGCGGGTGGATCACTTCAGGTCAGGAGTTCGAGACCAGCC
TGGCCAACATGGCGAAACACCGTCTCTACAAAAAAATACAAAAATTAGCCGAGGGTGGCGCACACCTGTAATCTCAGCTATTCAGGAGGCTGAG
ACATGGGAATCGCTTGAACCTGAGGGGTAGAGGTTGCACTGAGCCGAGATTGCATCACTGTACTCCAGCCTGGTGACAGAGCGAGACGCTGTCT
CAGAGGGAAAAAAAAAAGTTAAAAAGGCAGACAGAGGAGTCTATATTGTATGATTCTATTTATATAATCTAGACTAGGCAAAATTTATCCATGA
TGATAGTAATCAGATTGAAGGATCAGTGGTTGCTTGGTGGAAATTGACTGAGAAGGGAAATAGTCATGTAAGAATACTGGCAAATGTCCTCTTC
CCCATTACAAACGTCTGAGAAAGTTACTAGAAAACAGAATCCAATTTGCCTTCTCACCCCCAACTTTGTAATCTTGAATCCAGATCCTGATTCC
ACCCAACCACTCTGCTGAATGGATAGCAGCTATATTAGAGAGACAATATAGTGGGCCTACTAGTTTTAAAAAGTCATCCAAAGAATGTCATCTA
CAATCAGTTAAATTAGATTTTTACCCATTACTGAAGTGTGATTGAATTAGGGAAAGAGGAGAGGTGGTCAAAGGCAGCCTTCTCCAGTGGATTC
CTTGTCTTCTTGAGATGGTTTTGTGAGACCTTGCCTGGAAGACCTAGGTGGATAGTTTATTTTCTAAAAGTAGTCAAGAAAGCTTGTTCAGGGC
ATTGAACACTGCAGGGACAAGCATACTTCTTGGAGGCCAGCCATCTCCTGCTGGATCTAAGCGGGGTGGCTTCTGCCTCCACCTCCATCTCAGC
TTATTTGAGAGAATCCTAGATCCTTGGTGCAGAAGCCCAGCCAGCCTGTGAAGAAAAGTTGGTCTGGTAGTATCCTGTGAATGACGTGCGGGTT
GGGTTTTTCTAAATCTCGTTTACCTGACTCCTACCTTACATTCCAGTGGTGTGACTAAGGAACTGAGCAAACGTAACCCTAGGGGACTTTGAGA
CAGGCTTTGGTAGTCCATGTGCACTAGAGTGAGGGGAAAGAGGCCACTCCAGAGTTGGGTACTCTACTGTTGAAGGTGAGCCTTTTGTGTCCAA
TTTTTCCGTGCATGTGTAAGAACAGTTGTCATGGAGATTTACTACTGACTTGTGCATGAGGACAGCTTATATCTCACCTTTTCTTATTCACCCT
GTTAAATGTCAAAATGTACTAAGACTTAGGTATTTTTTCTGTGTCACCAACTACTAAATCACCCACCCATGATAGCAGGTAGTTACTGAAACTC
TTGTAGCCAAACAAGTGCATAACACTGGTACACATGATGTGAGAGTGCAGATGACTCCTTAGCTTAACTGTGTAAGCTTTTAATTTCTGAGTAC
TTTTAGGATTGAGAAGTGGAAGACATTCTTGCTCTAGGTATCTCATGCTTCTGCACACCCAGAAGGCTGGTTGCGCCCCCACCCCACCCCCGC
CCCCTTTTTTTTTTTTTTGATAGGGTCATGCTCTGTTGCCCAGGCTGAAAGGCTGGTTATCTTCACCACAGGTCTTATGTCTCAAGGACCACGG
GTCCACGTCATAGTCAGGAACCAGGCATGTGTGGGCAGAAATCACTACCACTTTCCTTTGTTGCGGGTGGGGAAATTAAGAGCAGAGATTCTTG
GATTCTTAAATTCCTTCTCTATGTTTATGTCATCTAGTCTGTTTTATGCTGTTTTATGTAATTCCCTGCTTCTGGATTTCTTGAATTTTTTCC
CCTTCTCACTTGTCATAATTGGCTCTTGCTTGTGAGTCTATTTTCATTCAGCTTGGTAGCAGAAGTCTTCTTCACTATTGTTTAGATTCAGTTT
TCACATGGTTTTAGTAACCCTTCATTGGGTTTAGAATCAACTTTTAACCCTTCCACCAAAAGCTCTTATTTTTTTAAAGGCTTCCCAGAAACAT
AGTTTCTCTCAATCTCATCAAGAAATGCTTTTAAATGCAGAAGTTAGAAAATGGTGAATAATTATGGCTGTTCCTGGAAGTCATTGTGTCCTTA
GTAATTACATGTTGTAGTCTTTGGTTCTGCTTCTTTGACAGCTCCACCACACTGTAATTTAATGGAATTCACTTAGATTTAATGGAATTCAGTC
CTGGTAGAAAACTGCTATTGGGTCACAGAGTTGGCAGCAAGGCTGTGAAATTGATGTGGGAATGGGGGTGATTATGTGCTTTGTGTTGACAGAA
GTTAGTTTTTGGGACATCCCATGTGGGTTTTTCCCAGGAACATAAACATTTTAGAGAATTAGAGCTAGAAACTTTCTTCTGGGAAAGCCTTAGA
AGTCAGTTGTGCTTGGCAGTGAGATGGGACAATGTGCATTCTTAACAGGTTAAATGTGCCAAACTCTCTCTTCAGTACTATTCTTTTTTACGTT
TGCTTAAGGTCAAGTTCCTGCTCTTTTGTTCAAAGTCTTGCTTTGTCACCCATGGTGGAGTGCAGTGGCGTGATCTTGGCTCACTGCAACCTCT
GCCTCCTGCGTTCAAGCAATTCTTGTGTCTTAGCCTCCCTATTAGCTAGCTGGGATTATAGGCTTGCGCCACCTTGCCTGGCTATATTCAAAGT
CTGTCTTTACTACACTGTCCCAAAGTAATCTACATTTGGGTTTGGGTCTTTACAGGGTGAGAAGGACTGGCAGAAATACGAGACTGCTCGGCGG
CTGAAAAAATGTGTGGACAAGATCCGGAACCAGTATCGAGAAGACTCGGAAGTCCAAAGAGATGAAAGTCCGGCAGAGAGCTGTAGCCCTGTACT
TCATCGACAAGGTGAGAGCATCTTCCCATCGGCATTGTCTAGTGTTGAGCTTAACAAAGGGAGTTTCTGCTCTGCCCCAGGCCCTGTGCCACAT
ACTGTATATCACAACTCAACATACATATATTTGTATGTAAAACTGAATCAAAAGTTGCACAAAACAATGCTTAGCCTTACTGTGAGCAGTAGAT
TCTGATCTTTTTTTAACTCTATTTCATTCCTTTAGAAAGTTGGTTATAACTTATAAAATTGTTTAAATAAACCATGCAGGTATCACCATTATAT
AGTTTTAAAGACCACGCTCTAGAGGAGATCAATTTCTTGGTACTCACGAGAAGAAAAAAAAGTTCATGTTTTTCCCCCAGTCTTGTATTTTAAC
ATAAGTTCTGAATTGTCTCAAAATTCACACTAGCTTTTTGAGTTTGATTGCCCAGAGTAGCAGCACTCCCTCATTTGCTGCCTTATTTAATTTT
TTTTTTCCTTTTCTCCATCCCTATTTCAGAGGACAGAATAGAAAGAAAAGGAGCATGAATATTTAACATCCCTATAGATTTCATAGTGAGTGGG
GGAGGAAGTAACACTGCAGAATCCAGAGTTCCCAGGCCATGCTGACTGATGCTGTGGCTTCAAACAGAATTGGGAGGCTTCTGTTTTGGATGCC
TAGAAATTGCATAAGGGTCAAAAGGCTGGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGTGGAACACGAGGTCA
AGAGACCATCCTGGCCAATGTGGTGAAACCCCATCTCTACTAAAAATACAAAAAAAAAAAAAAAAAATAAAAATTGGCGTGGTGGCGGGCGCCTG
TAGTCCCAGCTACTTCGGAGGCTGAGGCAGGAGAATGGCATGAACCCGGGAGACGGAGCTTGCAGTGAGCCAAAATTGCGCCATTGCACTCTAG

CCTGGCGACAGAGCGAGACTGTCTCAAAAAAAAAAAAAAAAAAAACACAGAACGAAATTGTGTAAGGATCATGTCTCTTCCATTCATGCTCATC
TTTTCTTTCTTTCCTGGGCAGCTTGCTCTGAGAGCAGGCAATGAAAAGGAGGAAGGAGAAACAGCGGACACTGTGGGCTGCTGCTCACTTCGTG
TGGAGCACATCAATCTACACCCAGAGTTGGATGGTCAGGAATATGTGGTAGAGTTTGACTTCCTCGGGAAGGACTCCATCAGATACTATAACAA
GGTCCCTGTTGAGAAACGAGTAAGTTAATGTACCTGTACTGTCTGACTTGTTTTCCATTATTCAACAAGCATGGGTTGACTGCTTTTTTGTGTG
CTTTGCACTTTGCTGGGCACCAGCAAAAGTGACTTGAGACAGGCAACATGGCACATGCCTGTAGACCCAGCTATTCAGAAGGCTGAGACAGGAG
GATCACTGGAGACCAAAAGTTTGAGGCTGTAGTGTGCTGTGATCACACCTGTGAATAGCCACTGTACTCCAGCCTGGGCAAAATAGTGAGACCT
TGCCTCTCATATTAAAATAAATAAAAATAAATGACTTGAAAGAGGGGAGAGGTATTATTTGATATCTTGTGTACCTCCTTTTAGTCACTGTTCC
GCCCTGTGCTACCTTCCTGGTAAGGAGTGGCCTTCTCCTATAGCAGTATTCAATGGAGCATGCTGTAGAATAGGCCCTTAGAGCAAACTCAGCA
TATGATTTAACTATATCTTAGTATCCCCTGGTCATGTGGTACATTTGTCACTTTTCATCTTTGCTCAGCCTTTCTCCAACTCCTGACTGAGTGA
AAGGTTAATGTTAGTCCCCAGATCTCTGAGCCCATCACTGAAGAGGGTACTATAGCTCTGTAGTCCCAACCTAATCTTTTCCATAGTATTGGGC
TTGAACCAGAGACTTACAGTGTGCAGGATCCTAATAATCCAGCCCACCAGCAGTCCTCTTCTTATAAAGACACCTCTTCTCATAAGGACACCAT
AATCAGTAATCAGGTTTTGCTGGCTGTGGAAGTACTCTGGACAGATTAGATAACAGTATGTATCAATGTAAATTTTTGAAGCTGATACTGTGTA
AATGTAAGGGAATATCTATTTTTAGAACATACACACTGAAATGTTTAGGACCATATTATAAGTAAGTACTTATAAATGTACTTTAGGACCATAT
TATAAGTAAGTACTTATAAATGTACTTTAGGACCATATTATAAGTAAGTGCTTATAAATGGCTCAGAACAAACAATTATGTATATATATCTGTA
AATATACACATGGAGAGAGTGAGCATACATGCACACTGTGCAAATGATGAATGGGGTAAAATGTTAACAGTGAATCTCGGTGACGGATGTATGC
GTGTTCCTTGTGCCTTTTTCTTTGCAAGTTTCTTTAAGTTTGGGGTTATTTCTAAAGTTAGGATTTTTTTCAAGAGTAATAATTAGGATTCACT
TATATCTTTTAGGTTTTTAAGAACCTACAACTATTTATGGAGAACAAGCAGCCC

HUMAN SEQUENCE - mRNA
CAAATGCGAACTTAGGCTGTTACACAACTGCTGGGGTCTGTTCTCGCCGCCCGCCCGGCAGTCAGGCAGCGTCGCCGCCGTGGTAGCAGCCTCA
GCCGTTTCTGGAGTCTCGGGCCCACAGTCACCGCCGCTTACCTGCGCCTCCTCGAGCCTCCGGAGTCCCCGTCCCGCCCGCACAAGGCCGGTCG
CCGTCTGCGTCTCCCCCACGCCGCCTCGCCTGCCGCCGCGCTCGTCCCTCCGGGCCGACATGAGTGGGGACCACCTCCACAACGATTCCCAGAT
CGAAGCGGATTTCCGATTGAATGATTCTCATAAACACAAAGATAAACACAAAGATCGAGAACACCGGCACAAAGAACACAAGAAGGAGAAGGAC
CGGGAAAAGTCCAAGCATAGCAACAGTGAACATAAAGATTCTGAAAAGAAACACAAAGAGAAGGAGAAGACCAAACACAAAGATGGAAGCTCAG
AAAAGCATAAAGACAAACATAAAGACAGAGACAAGGAAAAACGAAAAGAGGAAAAGGTTCGAGCCTCTGGGGATGCAAAAATAAAGAAGGAGAA
GGAAAATGGCTTCTCTAGTCCACCACAAATTAAAGATGAACCTGAAGATGATGGCTATTTTGTTCCTCCTAAAGAGGATATAAAGCCATTAAAG
AGACCTCGAGATGAGGATGATGCTGATTATAAACCTAAGAAAATTAAAACAGAAGATACCAAGAAGGAGAAGAAAAGAAAACTAGAAGAAGAAG
AGGATGGTAAATTGAAAAAACCCAAGAATAAAGATAAAGATAAAAAAGTTCCTGAGCCAGATAACAAGAAAAAGAAGCCGAAGAAAGAAGAGGA
ACAGAAGTGGAAATGGTGGGAAGAAGAGCGCTATCCTGAAGGCATCAAGTGGAAATTCCTAGAACATAAAGGTCCAGTATTTGCCCCACCATAT
GAGCCTCTTCCAGAGAATGTCAAGTTTTATTATGATGGTAAAGTCATGAAGCTGAGCCCCAAAGCAGAGGAAGTAGCTACGTTCTTTGCAAAAA
TGCTCGACCATGAATATACTACCAAGGAAATATTTAGGAAAAATTTCTTTAAAGACTGGAGAAAGGAAATGACTAATGAAGAGAAGAATATTAT
CACCAACCTAAGCAAATGTGATTTTACCCAGATGAGCCAGTATTTCAAAGCCCAGACGGAAGCTCGGAAACAGATGAGCAAGGAAGAGAAACTG
AAAATCAAAGAGGAGAATGAAAAATTACTGAAAGAATATGGATTCTGTATTATGGATAACCACAAAGAGAGGATTGCTAACTTCAAGATAGAGC
CTCCTGGACTTTTCCGTGGCCGCGGCAACCACCCCAAGATGGGCATGCTGAAGAGACGAATCATGCCCGAGGATATAATCATCAACTGTAGCAA
AGATGCCAAGGTTCCTTCTCCTCCTCCAGGACATAAGTGGAAAGAAGTCCGGCATGATAACAAGGTTACTTGGCTGGTTTCCTGGACAGAGAAC
ATCCAAGGTTCCATTAAATACATCATGCTTAACCCTAGTTCACGAATCAAGGGTGAGAAGGACTGGCAGAAATACGAGACTGCTCGGCGGCTGA
AAAAATGTGTGGACAAGATCCGGAACCAGTATCGAGAAGACTGGAAGTCCAAAGAGATGAAAGTCCGGCAGAGAGCTGTAGCCCTGTACTTCAT
CGACAAGCTTGCTCTGAGAGCAGGCAATGAAAAGGAGGAAGGAGAAACAGCGGACACTGTGGGCTGCTGCTCACTTCGTGTGGAGCACATCAAT
CTACACCCAGAGTTGGATGGTCAGGAATATGTGGTAGAGTTTGACTTCCTCGGGAAGGACTCCATCAGATACTATAACAAGGTCCCTGTTGAGA
AACGAGTTTTTAAGAACCTACAACTATTTATGGAGAACAAGCAGCCCGAGGATGATCTTTTTGATAGACTCAATACTGGTATTCTGAATAAGCA
TCTTCAGGATCTCATGGAGGGCTTGACAGCCAAGGTATTCCGTACATACAATGCCTCCATCACGCTACAGCAGCAGCTAAAAGAACTGACAGCC
CCGGATGAGAACATCCCAGCGAAGATCCTTTCTTATAACCGTGCCAATCGAGCTGTTGCAATTCTTTGTAACCATCAGAGGGCACCACCAAAAA
CTTTTGAGAAGTCTATGATGAACTTGCAAACTAAGATTGATGCCAAGAAGGAACAGCTAGCAGATGCCCGGAGAGACCTGAAAAGTGCTAAGGC
TGATGCCAAGGTCATGAAGGATGCAAAGACGAAGAAGGTAGTAGAGTCAAAGAAGAAGGCTGTTCAGAGACTGGAGGAACAGTTGATGAAGCTG
GAAGTTCAAGCCACAGACCGAGAGGAAAATAAACAGATTGCCCTGGGAACCTCCAAACTCAATTATCTGGACCCTAGGATCACAGTGGCTTGGT
GCAAGAAGTGGGGTGTCCCAATTGAGAAGATTTACAACAAAACCCAGCGGGAGAAGTTTGCCTGGGCCATTGACATGGCTGATGAAGACTATGA
GTTTTAGCCAGTCTCAAGAGGCAGAGTTCTGTGAAGAGGAACAGTGTGGTTTGGGAAAGATGGATAAACTGAGCCTCACTTGCCCTCGTGCCTG
GGGGAGAGAGGCAGCAAGTCTTAACAAACCAACATCTTTGCGAAAAGATAAACCTGGAGATATTATAAGGGAGAGCTGAGCCAGTTGTCCTATG
GACAACTTATTTAAAAATATTTCAGATATCAAAATTCTAGCTGTATGATTTGTTTTGAATTTTGTTTTTATTTTCAAGAGGGCAAGTGGATGGG
AATTTGTCAGCGTTCTACCAGGCAAATTCACTGTTTCACTGAAATGTTTGGATTCTCTTAGCTACTGTATGCAAAGTCCGATTATATTGGTGCG
TTTTTACAGTTAGGGTTTTGCAATAACTTCTATATTTTAATAGAAATAAATTCCTAAACTCCCTTCCCTCTCTCCCATTTCAGGAATTTAAAAT
TAAGTAGAACAAAAAACCCAGCGCACCTGTTAGAGTCGTCACTCTCTATTGTCATGGGGATCAATTTTCATTAAACTTGAAGCAGTCGTGGCTT
TGGCAGTGTTTTGGTTCAGACACCTGTTCACAGAAAAAGCATGATGGGAAAATATTTCCTGACTTGAGTGTTCCTTTTTAAATGTGAATTTTAT
TTCTTTTTAATTATTTTAAAATATTTAAACCTTTTTCTTGATCTTAAAGATCGTGTAGATTGGGGTTGGGGAGGGATGAAGGGCGAGTGAATCT
AAGGATAATGAAATAATCAGTGACTGAAACCATTTTCCCATCATCCTTTGTTCTGAGCATTCGCTGTACCCTTTAAGATATCCATCTTTTTCTT
TTTAACCCTAATCTTTCACTTGAAAGATTTTATTGTATAAAAAGTTTCACAGGTCAATAAACTTAGAGGAAAATGAGTATTTGGTCCAAAAAAA
GGAAAAATAATCAAGATTTTAGGGCTTTTATTTTTTCTTTTGTAATTGTGTAAAAAATGGAAAAAAACATAAAAAGCAGAATTTTAATGTGAAG
ACATTTTTTGCTATAATCATTAGTTTTAGAGGCATTGTTAGTTTAGTGTGTGTGCAGAGTCCATTTCCCACATCTTTCCTCAAGTATCTTCTAT
TTTTATCATGAATTCCCTTTTAATCAACTGTAGGTTATTTAAAAATAAATTCCATCAACTTAATGGAAACTTAA

HUMAN SEQUENCE - CODING
ATGAGTGGGGACCACCTCCACAACGATTCCCAGATCGAAGCGGATTTCCGATTGAATGATTCTCATAAACACAAAGATAAACACAAAGATCGAG
AACACCGGCACAAAGAACACAAGAAGGAGAAGGACCGGGAAAAGTCCAAGCATAGCAACAGTGAACATAAAGATTCTGAAAAGAAACACAAAGA
GAAGGAGAAGACCAAACACAAAGATGGAAGCTCAGAAAAGCATAAAGACAAACATAAAGACAGAGACAAGGAAAAACGAAAAGAGGAAAAGGTT
CGAGCCTCTGGGGATGCAAAAATAAAGAAGGAGAAGGAAAATGGCTTCTCTAGTCCACCACAAATTAAAGATGAACCTGAAGATGATGGCTATT
TTGTTCCTCCTAAAGAGGATATAAAGCCATTAAAGAGACCTCGAGATGAGGATGATGCTGATTATAAACCTAAGAAAATTAAAACAGAAGATAC
CAAGAAGGAGAAGAAAAGAAAACTAGAAGAAGAAGAGGATGGTAAATTGAAAAAACCCAAGAATAAAGATAAAGATAAAAAAGTTCCTGAGCCA
GATAACAAGAAAAAGAAGCCGAAGAAAGAAGAGGAACAGAAGTGGAAATGGTGGGAAGAAGAGCGCTATCCTGAAGGCATCAAGTGGAAATTCC
TAGAACATAAAGGTCCAGTATTTGCCCCACCATATGAGCCTCTTCCAGAGAATGTCAAGTTTTATTATGATGGTAAAGTCATGAAGCTGAGCCC
CAAAGCAGAGGAAGTAGCTACGTTCTTTGCAAAAATGCTCGACCATGAATATACTACCAAGGAAATATTTAGGAAAAATTTCTTTAAAGACTGG
AGAAAGGAAATGACTAATGAAGAGAAGAATATTATCACCAACCTAAGCAAATGTGATTTTACCCAGATGAGCCAGTATTTCAAAGCCCAGACGG
AAGCTCGGAAACAGATGAGCAAGGAAGAGAAACTGAAAATCAAAGAGGAGAATGAAAAATTACTGAAAGAATATGGATTCTGTATTATGGATAA
CCACAAAGAGAGGATTGCTAACTTCAAGATAGAGCCTCCTGGACTTTTCCGTGGCCGCGGCAACCACCCCAAGATGGGCATGCTGAAGAGACGA

SAGRES DISCOVERY 02-31

ATCATGCCCGAGGATATAATCATCAACTGTAGCAAAGATGCCAAGGTTCCTTCTCCTCCTCCAGGACATAAGTGGAAAGAAGTCCGGCATGATA
ACAAGGTTACTTGGCTGGTTTCCTGGACAGAGAACATCCAAGGTTCCATTAAATACATCATGCTTAACCCTAGTTCACGAATCAAGGGTGAGAA
GGACTGGCAGAAATACGAGACTGCTCGGCGGCTGAAAAAATGTGTGGACAAGATCCGGAACCAGTATCGAGAAGACTGGAAGTCCAAAGAGATG
AAAGTCCGGCAGAGAGCTGTAGCCCTGTACTTCATCGACAAGCTTGCTCTGAGAGCAGGCAATGAAAAGGAGGAAGGAGAAACAGCGGACACTG
TGGGCTGCTGCTCACTTCGTGTGGAGCACATCAATCTACACCCAGAGTTGGATGGTCAGGAATATGTGGTAGAGTTTGACTTCCTCGGGAAGGA
CTCCATCAGATACTATAACAAGGTCCCTGTTGAGAAACGAGTTTTTAAGAACCTACAACTATTTATGGAGAACAAGCAGCCCGAGGATGATCTT
TTTGATAGACTCAATACTGGTATTCTGAATAAGCATCTTCAGGATCTCATGGAGGGCTTGACAGCCAAGGTATTCCGTACATACAATGCCTCCA
TCACGCTACAGCAGCAGCTAAAAGAACTGACAGCCCCGGATGAGAACATCCCAGCGAAGATCCTTTCTTATAACCGTGCCAATCGAGCTGTTGC
AATTCTTTGTAACCATCAGAGGGCACCACCAAAAACTTTTGAGAAGTCTATGATGAACTTGCAAACTAAGATTGATGCCAAGAAGGAACAGCTA
GCAGATGCCCGGAGAGACCTGAAAAGTGCTAAGGCTGATGCCAAGGTCATGAAGGATGCAAAGACGAAGAAGGTAGTAGAGTCAAAGAAGAAGG
CTGTTCAGAGACTGGAGGAACAGTTGATGAAGCTGGAAGTTCAAGCCACAGACCGAGAGGAAAATAAACAGATTGCCCTGGGAACCTCCAAACT
CAATTATCTGGACCCTAGGATCACAGTGGCTTGGTGCAAGAAGTGGGGTGTCCCAATTGAGAAGATTTACAACAAAACCCAGCGGGAGAAGTTT
GCCTGGGCCATTGACATGGCTGATGAAGACTATGAGTTTTAG

TABLE 32

MOUSE NOMENCLATURE
ICSGNM Dusp10
Celera mCG15978

HUMAN NOMENCLATURE
HGNC DUSP10
Celera hCG25031

MOUSE SEQUENCE - GENOMIC
GAGAGAGATCAGTTCTTTGTCTCAAGCAGACCTTTGGCTTACTGGATTAGGCTTGTCCACACACTTGAGAGTGGTGGTCTCTTCATTCAAAGTC
TGTCAATTCAAATGTTAATCTCATCCCCAAACATCCACACACAGAAGCAAGCTGAGTCACATCTGCTCACACATCTGCCCCTGGCGGGCCTGTT
AACACCGTCTGGGGGGAAGATGGCACTGGCTTCAACTGAAGGAAGAGAAATCTGCATCCTTGTAAGCAGGCTGCAGTGTTTGATTTTGGACTTC
TAGGTTGGGGATAGAGTGTCTCTGATGAGCATGTCTCTAAACATCTGTCAGCATTGATACCCTCAATTTCCCTAGAGGTTTCTGGCCGTTTTTG
TCTCAGAAGCCCTAAGGTCTGGGTGGATAAGTGATGACTGTCATTTGAATCAGGACACTTGCCCTAAAAACCCACCTTCCTGAGTGTCTGTTGA
GTACCATCGCACTGAGTGTCAGATACAAGAATGCGTAACCACCAAGGACTCAATAGACCGGTCCATCCTTCTCCAGGCCCCGTGATAGTCAGTT
TGACTCAAGACAGATCTGAGTTGGATAACATATCTTCCACTTGTATCGACTCCTTGCCTTCTGCATTCTCACATATATCCTTTCTAAGCCAGGT
ATTAAGAAATTAAAAACTCAAAAAACAAGTCCAGTGCTAGTCAGCTTTCCTTTGTTCCTGTGACTTGATGCCTGAGAGAAACAGGCTAAAAGAG
AAAGGCTTGTTTGGCAGGTGGTTTGACTCTACCTTGTTCCTGGGCCTGCGGTTACCTCAGAAGGCGCTCACCTCTTTGTGGCCAGGAAACAAAA
AAGAGAAGACAAAAGGAACTGTCACAAAACACTTCTTTTAATGGCCCACTCCTAGTAACCTACACACTCCAACTAGACTCCACACCAACAAGTT
TCTCCCACCTTCAGGCAATACCTTAAACTTCTAAGGAATAAGAGAGTTAATCTGGATAAGAGGTCAGGACCCCTACAATCCAATCACCTCCTCA
AAGCTCTTGGCCCTCCAAGATCAGAAAACAAAAGAAAAGTAGACAATTTTTATAGAGTCAATTTAAGGAACCCTGTAGGCTGAGAGCTAAGGAC
AACATCCACAAAATCACACAGAGGATGAACTACACAGCACAGGATGCTCGCGGGCAGTTGGTCTTATCTCGGGGTCACTTGCTGGTTCTGCTGT
TTTCTGGCTGAATGCGCTTGGGTAGAACACTTTGTCTTTGCCGATCCCACATCAGTCTTCAGAAGAGAGCTACTTGATCTCTGATGCTAAGGTG
GAGATTTAAATGTCTTTGTTTGTAAAACAATCACATGCTGCTCTCAGCCCAGAGAAAGGAGGAAGTCCCATCAAACTTCTTCTCCACACCCTAG
ATCTTTAGAATCAGGTAGTGTCTTAGTCAGGGTTTCTATTCCTGCACAAACATCATGACCAAGAAGCAAGTTGGGGAGGAAAGGGTTTATTCGG
CTTACACTTCCATACTGCTGTTCATCACCAAGGAAGTCAGGACTGGAACTCAAGCAGGTCAGAAAGCAGGAGCCGATGCAGAGGCCATGGAGGG
ATGTTCTTTACTGGCTTGCCTCCTCTGGCTTGCTCAGCCTGCTCTCTTATAGAACCCAAGACTACCAGCCCAGAGATGGTCCCACCCATAAGGG
GCCTTTCCCCCTTGATCACTAATTGAGAAAATGCCTTAGAGTTGGATCTCATGGAGGCATTTCCTCAACTGAAGCTCCTTTCTCTGTGATAACC
CCAGCTGTGTCAAGTTGACACAGAACTAGCCAGTACAGGTAGGTTGATAACTTGCTTGTAAAGACAACAGAGCACATTGAGGCATACTGGACA
TCCTAAGAGTCTGCTATATCTGCATCCCAAGCAAGAGTTGCTAAGATTACATTTGCAAATTTGGAGAANNNNNNNNNNNNNNNNNNCCACCC
CCACCCCTAGTACACATCAAGTCCCTTCAGACAAGATGCATCCTCCCCCACTGAGGTCAGACAAAGCAGTCCATTTAGGAGCACAGGATCCATA
GGCAGGCTGGCTGGTAGGCAGGCAACAGACTAAGAGACAACCTCTACTGTTTTTGGGGAACCAGCATGAAGACCAAGACCATCTGCTACATATG
TGCAGAGGGCCTAGGTCAAGTCAGTGGTCACACTCTGATTGGTGATCAGTCTCTGGGAGCTCGTAAGGGTCCATGTTAGTTGACTCTGTTGGTC
TTCCTGTAGAGTCCCTGTCCTTTTCAGGTCTCTCGGTTCTTCCCCCAACTTCCCCCAAGCTCCATCTATTGTTTGGCTGTGGGTCTCTACATCT
CTTTCATCTCTTTTTGGCTGCTAGGTAGATCCTCTCAGAGGACAGTTATGCCAGGTTCCTATCTGCAAGCATAACTGAGTATCATTAGTAGTGT
CAGGGACTGGTTCTTACCCATGGCCTGGATCTCAATTTGAGACAGTCATTGGTTGGGTATTCCTTCAGTCTCTGCTCTATCTTTGTCACTGCAT
ATCTTGTAGACAGGACACATTTTGGGTCAAAGGTTTTGTGGGTGGGTTGCTGTCCTTCTCCCTCCACTGAGAGTCTTGTCTAGCTACAGGAAGT
GGCCACTTTAGGATCCATGTTCCCCACTGCTAGGAGTTTCAGTTAGAGTCAGCCCCATAGACCTTCTGGAGCCTCTCCCCATCCCAGGTCTCTG
GTATGTCCTAGAGATTGTGTCCCCCTCCCCCCACCCTTCCTTCTCCCTCTCCTTTGCTCCACTTCCTGTTCGCTCATTTGTGTATTTATGGTTA
ACTATGTGAGCTCTCCACTTTCTGTTCCTGCTAAGCCTGTGGCTTGCTTCCATGCCTCTCTGTTCACCACGGTGGACTTTTATCCCTTTGGAAC
TATAAACCCAAATGAACTCCACTCTTCTGTAAGTTCCCTCCGTCATGCTGTTGGATCATAGCAGAACCAAGAGGGCTACATTTCTTTCTTTACT
GTGTGTGTACACATGTTCACATATGGGTATACTCATTCCTGAGGGATGTGTGGAGGTCAGGAGTGAACACTTGGGTTATTATTATTTTTAAAAT
ATGTGTATGGGTGGTGTGTGTGTGTCTGTGTGTGTGTGTGTATGTATGTATGTATGTATGGCATGCCTGGAAACAATGAAGCCCAGAGGAGG
GCAGTGGATTCCCCTGGGACTGAAGTTAGGATGGTTGTAAGCCACACTGTGGGTCCTGGGAATCAAATCCAGGTTCTCTGGAAGAGCAGCCAGA
GTTCTTCCTCTTTGGTCTCTGGGATGCCATCTTAAATCCTTTCTCTACCTTACTTTTTGGGGTAGGGTCTCTCACTATCTCTCCAGCTCACTGC
TTCAGTTAGACACACTAGGAAGTAAGCCTCTGGATTGGCCAGTGTTCCTCCTTCAGCTTACACAGTAAGTGCTTTCACCCACTGAGCCATTTCC
TCAGCTCTCAATTACGATTCTTAATTTTTTTTTTTTAAAAAGAATATGTGTGTCTTTGTGGGAGTATGCGCATGTGAGTAAAGGTGGTCTTGGAG
GTCAGAAGAAGGTACCTCAGCATCTGGAACTGCCACTAAATTTGGTCATGAGCTAATGAAAGTAAATAAAACTTGAGACATGTGATTCATGTAA
TTTATGTCAAATAGCCCAAAGAGTTGTTTGTGAGCTTTAAAACCTGGGGCTGAAAACATAGCAGAACAGGCCAGGACATGCCCGGGCAGGCCCG
TTGTTACATGTCCTGACTGGCCTAGTGCCTCCCTATCTCCTGCCCTTCTGACAGTCTGTTGATGTTTAAATGGACCAATCATGTGAAACCGAGC
CAATTCCTCCCCCAGCCCCACCCCTTTTCTATAAAATCCCCTAGCTTCCAAGGCTCGTGGTCGAAACCACTGTCTCCTGCGTGAGATACGTTTC
GAGCCAGAGCTCCGCCATTATGGCTCCACCATGTGGTCGACACCTCTGTCTCCTGCGGGAGATATGTGTCAGCCCGGAGCTCCGTCATTAAACT
ACCTCATGCTTTTACATCAAGATGGTCGTCTGTTCGTGATTCTTGGGTGCATGCCGAACGGAAATTGAGTGGGGGTTTCCCCACTAGGTTCTTT
CACTACCACGTGTAGGTGCTAGGGACAGAACTCAGGCCCTCTGCAAGAACAGCAAGCATACTGTAGCAACTGAGCCATTGCTTCAGTTCCCTCA
TCTATGTTTTATGTAAACCTTATACATATAACCTTAAAGATTTATTTATATATGAGTACATTCTTCCTGTCTTCAGACACACCAGAAGAGGGAA
TCAGATTCCATTACAGATGGTTGTGAGCCAACATGTAGTTGCTGGGAATTGAACTCAGGACCTCTGGAAGAGCAGTCAGTGAGTGCTTTTAACC
GCCAAGCCATCTCTATTTTTTTAATACTTTTTATTAGATATTTTCCTCATTTACATTTCCAATGCTATCTCAAAAGTCCCCCATACCCTCCTTC
CCACTCCTCTACCCACCCACTCCCACTTTTTGGCCCTGGCGTTCCCCTGTACTGGGGCATATAAAGTTTGCAAGTCCAATGGGCCTCTCTTTCC
AGTGATGGCCGACTGGGCCATCTTTTGATACATGTGCAGCTAGAGTCAAGGGCTCCGGGGTACTGGTTAGTTCATGATGTTGTTCTACCTATAG
GGTTGCAGATTCCTTTAGCTCCTTGGGTACTTTCTCTAGCTCCTCCATTGGGGGCCCTGTGATCCATCCAATAGCTGACTGTGAGCATCCACTT
CTGTGTTTGCTAGGCCCTGGCCTAGTCTCACAAGAGAGAGCTCTATCTGGGTCCTTTCAGCAAAATCTTGCTAGTATATGACATGGTGTCAGCG
TTTGGAAGCTGATTATGGGATGGAACCCTGGATATGGCAGGCTCTAGATGGTCCATCCTTTCGTCACAGCTCCAAACTTTGCCTCTGTAACTCC
TTCTATGGGTGTTTTGTTCCCAATTCTAAGGAGGGGCAAAGTGGTCTTTGTTCTTCTTGAGTTTCATGCGTTTAGCAAATTGTATCTTATATCT
TGGGTATCCTAAGTTTCTGGGCTAATATCCACTTATCAGTGAGTACATATCACGTGAGTTCTTTTGTGATTGGGTTACCTCACTCAGGATGATA
CCCTCCAGGTCCATCCATTTGCCTAGGAATTTCATAAACTCATTGTTTTTAATAGCTGAGTAGTACTCCATTGTGTAAATGTACCACATTTTCT
GTATCCATTCCTCTGTTGAGGGGCATCTGGGTTCTTTCCAGCTTCTGGCTATTATAAATAAGGCTACTATGAACATAGTGGAGCATGTGTCCTT
CTTACCGGTTAGAACATCTTCTGGATATATGCCCAGGAGCCATCTCTATTTTTAACATACCTGCATTTAGAGATTTCCATTGGTAACATGATAT
TGGTGCTCAAAATGCGTTGAATTTGGAAGCATTTTGCATTTCCAGATTGAGAATGTTCAACGCCTGTTTAGACCTGAAGTCCTGGGATGGTTAG
CAATGTCACACAGTGCTTGTTTCCCTTCCAGTACCCTACCTCAGTAAGATCACCTGCAGCTCCGAGCCAGACCTTGGCAGTGACTTCTAAGGTT
GAAACTCAGTGGTTCGGCTTGTTGGGGGGGCAGGAGGAATGTGGACAGCGTTTAGTGTGGCAACACATCGTACTCATTAGAAGCCATCAGTTCA

CTATGAACTGGCTCATACGTTAGGCATTATCAAGACCGTTGGGCCTACCAGAATGCTCTTCTGACAAAGAGCAGCAGATATTTGTGACATCACA
AGGCAGTGGCAGTCCACGGGGCAGGAGCAAAGACAGCTTCAGAGAAAGGGTCTTGCTGCCTAAGTGAAGACAAGGGGACTGGGCCTCACCTGTC
CAGCCAGTCACCTCTGTGCGGCCAATGGAGGTCAGGCTTGAGTTTTGAAGAGATGTCTGGGCCAAGTCCTGTATCAAACATGGTTTGGGCTTAT
GCTATCTTTATCTCTGGGCCTCTAATTGATCTCAAAGATACACAGACAATACAGATGGAGCTGTCAGGCTCTCTCTCTTATGACAAAAGATGGC
TTTGTGGTCTCTTGAGTAAAACATGCCCCTGGCCCCCATCTGTAGATCTATATACCTGTGAGGGAGTAAGGGTGTGGTCATATACAGCTGGTCT
CCACTCCCAGTCACAAGGCCCCACTTCCTTCTAGTTCATCTTGTCAGATAGCCTAGAGGGCCTCTGAAATCCTAGTAGAGTGGTTATCTTCAAC
ATCCAAGTGGCTTCAGATGAAAGCAGCCGTGGCAGGTTCCAGAATGGTGTCATCCAGCAAAAATGGAGTAAATAAATCATCTTAGGCGCTCTCC
TAGTCACATGTGAACTAAAAGATGAGTGAAATTGATTTTAATGACATGCTATGAAACCTAGTATATCAAAAAACATAAGCAACACAGACATAAT
ATCCTTTATGTGTTTCACAGGTTTTCAAAATCCAATGTGTGTTCTAGACTTGATGTGTCTTGGTTCCAACCAATCACATTTCAGGTGTTCAAAG
TCACATGTAAATGGCCACCATTCTACACTACAAATGTTTGCTCCTTACAGGTAGTAGTGAAGATAAACACTCCTGCCTCTAGGGCTACAACTTA
CTCCTAATGACAGAGTGCAAGATCTGACGACTAATTCAGTCTCAGCAGTTAAAAACAGAACTTCACTTCCCAGAGTTCTTGAGTCTGAGGAGAC
AGATTAAGGCCTCTGGTGAGGGCCTAGCCTCTGCTTCCAAGATGCACTGTCACCGTGTAACTGGGAAGAAATGAACACGACATATACACAGGGC
AGAGAGGACACAATAATTCCCTTCCCAGTTCCATCTGCAAAGGCCCTGCCCTCATGGCATTACCACCTCAGACAAGTGTCTATCCCTTAATACT
ATCACACTGAGGACTGAAGTTCAACATGCGAGTGGACCTTCGTGGCCTCTTTCTCCAGGGGCTGCTCCTAGCCCAGGTCTAGGCTGGCGAGGGT
TGTGAAGTATTTCCCAGGCGTACTCCTGGGACTTCATCTCCTACTTCCTCCTTTCTATTCCCCAGTGCCTTCCCTATTTGCTGATTGAATGCCA
CCTTACCTGGGGATTTAACTTTGCCAAACTCCCTTTCCCTAACCGAATCCGGGAATCTATCTTGGCCTTCAGGGCTATTGAAGACCTCACCATT
CTGCCACCAAGCACCTGACTTAACCTCTTGAACATGCCCTGTATCAGTCTGTTTTCTGTCTCTGATCTTGGCCACAATTAGCTTTGTCCTTCAG
CTCTAACACACAGCACAAGGATCTGGTAGAAACTCTATGCTCCTTTCAGTAGCAACAAAGTCACAGACCAGCATAAGTGCACTACGTGGCCCAA
GGGCAGTAAAGAGGCTTTACTCTTTCTCTGGGACAAAAACTAAACAGCAAGGTGTTCCTGGGTATCCGATTGTGTTCATGGCCCTTTGCTGACT
GACTGATCCCATACATTTAAACTTAAGGGCTAAGTTTTAGAAAGTATTTTTACATTATGACTCCAAATTAGTAATTGAAATCACCTCCCTTGGC
ACAAAAGCATCCTGGAGTAGTGAGTGGAAAAACCTACCTGGAATCTGACTTCTTTGAGTATAGCTACTCAAACTGCTGCCTAATTTAAAAAGCC
TCCGGATCTTTAGCATATGTTAATGGCTGGTAATTACCATGCATATGTTAATGACATGGAAATTACTCAATGCTTCGGGTTTGATTGATGAGTA
ATTTTGTCAGTTTTCCCAATTTTTCAGCCTGGATGACAGACTTTTAGTTAACAGAATTACTATAACTTATTAGTCTGAAACTATAATAATCATC
TCATTAAATGAGTTACATTTCTTTCTCACATTGCCGGCATCAGGCTTTGTGAATCACAATTTACAGGTTGTCAGTACCTTTAGACAGAGGCTCC
TCCAGCCTAAAGCAAACACAACCTTCCCAAAGCCTTCGGTCAATAGAGAACCTCGCTCTACTATACCCCAACCACTTCCACAAGCATCTTTTCA
TCTTTTTCGGAGCAAGGACGGGAGTTTGCTGTTTACAAATGTACACAGTGATGAACACAGCAAATGTGGCTGGACAGACAAGCATCAGACCTAA
TACCTAGAACTCAAACCGTAAATGGGAACCCCAGCATACATACATCCAGTAAATATTCAGGGATATAGATAACCTACAAAAGTGCTCTGGGAAA
TTCTTTTCTGGGTTCCACGGAAAATGCGCACAGCCTACCTCCTCCACTAGCCTGATCCTGCTAATCCTCAAAGATCTAAGGACCAAAGGGTGCG
ACCTGGACACTCGTGTGCAGACATTCGGGTGTGGGTGCTGTGTATTTGGGTGTGTAGACAGAATGGGGCTAAAGAAAATCCTTTTCCAACCCCA
GTGTGCACTTGTGTAGAAGTGCTCAACTCAAGGGAGATCATGCTGAATCGACAGAGCTAGTCAGCGAAGGTGATGATGGTTGGACACCTTATGA
TCCTAGATCAACAGCAATGGTGAATGTCTGGGGCCTAAAGCAAACGCCTCCCATCATTAAGGACATCTGAACCTGCCACGGAGCTGATAATGTT
TTATTCCACTTCAATTACTTCACATTTTGGTCTTCCTCTCTGAGGGGGTAGGGAGGTATAAAAAGCTCTATTGCTTTAGGATTCTTTAACGCAA
NNNNNNNNNNNNNNNNNNNTTTCTGGCAAGGTCGCTAGCAGGCTTGCTCAGCTTCCCACTTCTCTTCACCGGTGACATACCCCGACCAGTAGT
GACCCCTCTGATGGACAAAGTTCGGGGAATCGGGAGAGCTGGCGTGGGCCCTTCCATGCTCCTCAAGCGCCGCTCATTCTGGCTGTTCAACCCG
AGCTCTGGCTCCTTCCCGCCGGCGCTTGCTGTTCCAGGCTGGCGCTCCTTGGCTCGCCGAGGGCCCTGCGCCACTGAGGGCCGGGGGCGGCCCA
GCACCGGGGGGCGGATGGACTGCGGGCTCCAAAACATCGCACAGGGGGAGGTGGCCGCGGGAGAAGCGGGGACCGCGTTGGGAGGAGGTCGGTG
CCTGGGCTGCGGGGCTTGTGGGGCGTTCGGAGGGCCCGGCCACGCCCAGCTCTGCGGGACGGCGCCCACGCTGCCCTTCAACACCGGCCCCCAG
TGGCTGCTCTCACAGAGCCAGGCGTCCTCCTCCGAGTAGCTCTCCGGAGTGCCGCCTTCGGGATCGGAGTCGGGCTCCTGAGAACAGAGGCTCC
ACGGCGGAGGAGTGACAGGGTCACGGAAGTAGGGGAACAAGAGCACGGCGCGCAGCCGCCGCGCGGGAGAGCAGTAGGGCAGCCGGAGGGGCAG
CGACATCTGCGGGCCGGGCCAAGCGGGGCTGCGGGGAGGCCGGCCCTGTGCACGCTCACGTCCCGCGCGGCGCAGCCACAGCCATGGAGGGACC
CGGCTTCGAGTCGTCTCCGGCCTGGGGAAAGTTGGATGGACACTCCACCTGGAGTCAAAAGGCGGAATGGAGACCCCGCGAGGCTGATGTCCTC
AACAGGGGGCGGGGGAGGGTCAGAAGAACCAGTTTCAGCCGGAGCGACCAGAGCAAGCCATTGACACTTCAGTCCCAGGAAGGGTTAACCGCGT
CCTGCTGCCTAGGTTTACATGTAAATAGAGAGCCGCTGCTCCAAGCGGGCCCGGGCTAGCACTTTTAAGTTTTTGATTGGTTGCCAATGACATC
ACCACCCGCGCGTTCTAACACACCAAACCCACTAGCGGGTCCGAGCCGGCCTCCCTCCCAAGGCGAGGCCTCGCCCCTTTCTCCGCCCTCCTCG
GCTTCTTATTGGTCAGAGACCACTGTGATGTAGCGGGCGGCAGCCTCTGGGTCTTCATTGGCGTATCGCGCCGTCGCTCGGAGGCAACCCCGCC
CCCTCCAAAGCTTACATTTACGCTGTAGCAAAAGAGAAAGTAACTCTGTGTTGCTGCTGGGGATCAATGAAGCTGAGTGAATGGGGGCGCACTG
CGCGAGCGCATAGCTGGAGCGGGCGCCAGATGGTAGAGGGCTACGCTTATTGATGAAGTAAGTGGAAGACATCACGGGTCACTCAGAGCCGGAG
GGTGGAGGGTTCCGTGTGTGTGTGTGTGTGTATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGAGTGAGAGAGAGAGAGACAGAG
AGACAGAGAGAGAGAGACAGAGACAGTGTCAGAGAGACAGAGACGGACCTACGTCAGGTAAGGAAGATCCTAAGGTTTAGTCTTTTGGCTCT
GCTTGCCCTGGGATGAAGAGGGGAAATGAGTTTTGGTTTGGTTAAGATGCTTTATGGCAGTTTTCAAAGCCCAAGGCTTTGCTCATGATGCTCA
GTGGTGGCACGGAATAGGGATGCTACGTGCCCCAGGAGTGGGGAAGGAGCATTCTTTAAGCACTTGGTTTTTCTTCAGTCCCTGTTAGTGGTGG
AAGGAAGATTAGCGAGAAAGGGGGTAGGGGGTTCGTGCTATTTTTGTGGGAGGTTTCCCGGGCCAGACTGGCTTTGGAGCTATCTGCTCAAGG
ATGCAGATCTCAGTGCGCTCTGTGCCCGTGTGTGAGCAGCAGCACAGTGAAGAGGTACCGGTCCCAGCCTGTGTCTCTGGAAAGTCGTTCCCGG
GTTCTCCTCCTAGGGAATAGGCTACTAATCCTGGATGTCCCCTTACCAGGTAGCAAAATAGCAAAGACTTTGACTGCATTCATGTTCCAGCTGG
GACACAGTTAACAGTTTTTGGAATAGTACTCGCTCTGAAAAAAAAAATACTACGCAAGGGAGAGGGAAGGAGGGAGGGAGGGGAGGGGAGGGGA
GGGAGGGAGGGAGGCAGGCAGAAGGTTTGATCCTTTGCTCCCAACCAAAGGTGGGTGAGAGAAACCCGAGTCAGTGGGGATATGCCTACACGGG
TGGGGACGTGCTCCTGGGTGCGCGTGTGTGGATTTTGCTGGTGACACTTTGGCTCGGTCTCAGAGAACAGTTACGGTCATGAATAGACCGATGA
TCCTTGATGTTTTTCCAGTCAGCTCTTAAAGTTCGTTTAGATGAGTGGCTCTTGCTTGGGGTTTGATTTCTCTAGTAGAGGAGTCAGAATTGCT
ATGTTATAGGGTGGCCTTGTGCCTACCGGGAGGAGGAAAGTGATCCATTGCAGGCACCCTTGGAGGAGGCAAAGGCAGCCCCCGTGGGCTCTAG
GTCTGAGCTTCCCAATTAGCCTAACTGTGGTAAAGGGACGAGTGAGGTTGCCCTCTTGGAATCCACACTGTTTCCAAGAAGAATATCAGTATAG
GGTTGAAACATTTTTTACAAAGTTGCCACTCCAGTGGAGATGCAAAGTCTGTCTGTATGACCAGATGAAACACATGCTCTTTTTTGCTTAGGGG
CACAGCATAGAGAAGTGTAAGGATGAGTGGGGTCACAGAGGAACGGGCCATGGGTCAGCCTGGGGTGGGGTTCCTAGATCTGACTCCTTGGAAA
CTTGGTTTCTGGATAGTTATTCGTAGTGTAAGTGTGTGTGTGTGTGTGTGTTGTGGTAATGGCTTGATTTGATTTGGAA
GAGTCTAATGTGAGCTCTGAATAGGATGACGTTGAGCTTTTCAAAGGACCCACCAGAATGGAAAGGAAGATTAGCTCCTAGCCATGGAGGCTGA
CTTAGGGAGACACATTCCTTCTGATATGCAGAAGGTTAACATCCAGCCCCCATGTAAATATAGCTAGCTGCCAAGCATCTCCGTGCATCTCTGT
GAGCTCCAACAGTGCTCTTGCTTGTCTCTTTGCCTTGGCTCTGGGGAAAGAAATGAAATACAGTACATGCCAGGGTGGACAGATGCATCCATCA
CAGGTGAAATAGACTTCTCTGCACAGGAGAGGAGGCTCAGAATAAATCTAAGAGCCTCCCTGTCTGCCTTCACTGTTTTTCAGGCCTCTGTGCC
TTTACCTCCACTAAGGCTGAACTTGGATGCATGTCTCTAACATTATGTGACAGGAGGTCTCTTACCGTTTCTAATGTCAAGTCTAATTTTAACC
TTTGACTTAGCATCAGAATGGATGGGGCCCCTCAGGTATGCATCCTCTCTGAACAGATCAAAGTGAATTTTAGCCTTTGATAGTATCACAACCT
AGGGCACCTAGAAGGACTTTGACTTTGCTCAGAGATATGCAGAGGTCTTCCCCCGGGGATTGGATGAGACTGGCTTTGTTTTCATGTGACTTTA
TTTTTTTCTTTCTTCCCCTTCTTTCCAGACTCTTGACTTCTTGAATTGCCAGTTTTCAGCCTCCTCATGCCTCCATCTCCTTTAGACGACAGGG
TAGTAGTGGCACTATCTAGGCCTGTCCGACCTCAGGATCTCAACCTTTGTTTAGACTCAAGCTACCTTGGCTCTGCCAGCCCAGGTAGTGGTAG
CCACGCTCCTGTCCTTGCCACCGCCGTTGTGACCCTCAAGGCTGCGAATCTGACGTATATGCCCTCATCCAGCGGCTCTGCCCGCTCCCTGAAT

TGCGGATGCAGCAGCACTAGCTGCTGCACTGTGGCAACCTACGACAAGGATCATCAGGCCCAGACTCAAGCCATTGCTGCAGGCACTGCCACCA
CCGCCATAGGAACCTCGACCACCTGCCCTGCTAACCAGATGGTCAACAACAATGAAAACACAGGCTCTGTGTTAAGTCCATCGGGTGGGGTGGG
CAGCCCTGTGTCAGGGACTCCCAAGCAGCTAGCCAGCATCAAGATCATCTACCCCAATGACCTGGCAAAGAAGATGACCAAATGCAGCAAGAGT
CACCTGCCCAGCCAGGGTCCCGTCATCATCGATTGCAGGCCTTTCATGGAGTACAACAAGAGTCACATCCAAGGAGCTGTCCACATTAACTGTG
CCGATAAGATCAGCCGGCGAAGGCTGCAGCAGGGCAAGATCACTGTCTTAGACTTGATTTCCTGTAGGGAAGGCAAAGACTCTTTCAAGAGGAT
CTTTTCCAAAGAAATTATAGTTTATGATGAGAATACCAATGAGCCGAGCCGTGTGACACCATCCCAGCCACTTCACATAGTCCTCGAGTCCCTG
AAGAGAGAAGGCAAAGAACCCCTGGTATTGAAAGGTAATGACTCTCCCTTCCCTCCCCACCCCCACCCCCCACAATTCCTTCCTCAAATAATGTC
CTGATCAGCTAGGTTTCCCTATGAGATTCTCTTACAAGTGGCAGCCTTCTTCTAACCCCAAGGCACCATGAACCAAAATAAAATAGCCTGTCTT
CTTGTCTCTACTTCGAACTTTTTCTTACTCTCTTGGTACATTAAGAAAGTCCAAGTAGCAATGAATTGATATAAGATCTGAGTCCCAGCTTTGA
TCTGGCTGCCACTTTGGGTTGCCTATGACATTTTACTTGAGATGGTTTGCAAAAGGCACTTTGTACAACCAAGATGGTATCTCAAGCCATGCCT
TCTCTGGTAGCTCTGTTTCAGTCCTCGAGTGGGTTGGAACTTTTTTGATCTCTCAAGGCCTGACAAATGTCGATGGATCAGAGGAAGCTGCGTC
TACAGGTGCCAGTACTTTGTGGGAGAAACTCTTGCTGTTTCTCACCTGATTGTCTTGATGTTCTTATTGCTTCTAGTCATCTTCAACAAAGGCA
TGCATCTTTATCTTAAAGCCTCATTGAAAGTGTGAATTCTCCAAATGCATCCATTCCTCTGAGGAAGCTGCAGGGGATAGAGATGTGAACCGCC
TACAACCATCCTTCCTGGTATCACCTGACAAGAGTTAGCTTCTGTCTCTTCCCTAGAAGGAGTCATACATCATTTTCCCCTAGTGTAGAATAAC
TGATGACTGGACACCCCCCCCCCCCCAAAAAAAGGAATAGATGACCCAGTCTTCTCTGAGCTTCTAACATACAGTGTTGTCCTGACCATGGGCAC
AGTCCACTTGCTCATCTTTGTCCTTTTGGGCTTTGAGCATTACTCTTCTGATAATATCTACCTAGTCATGATGGAGAGTGATAACTATCTTCGT
TTCGAATTTTGAGCCATTGTGTGCATGGTGGGTGGGGTGGGGTGGGGTGGAGTCCAGAAAAAATAAAGGACCTGGGTAGTCATCTGTCCACCTC
ACTGAAATACTGACTCTTTTCTAAACATTGAAACAAGAAGATCCTGGAAGCAGCGAAGATTTTCCTATTGCTTTAGTACTGATGTCAGATCACT
GTATGGAACAATGCTACTTAACAATCCTCATTAAAAAAAAAAAAAAGAAGAAGAAGTAGATGGCTTATTACTATAAATTATTTTGTATTATAAT
TATGTTGAGTTTTTAATCAATATCACTCTTTACAGGCCAGACATCATTTATAGTACTTAAATAACCAACTATTTAATTTATCTTCCCTTGGCCC
CATCCCTTGCCCCCACCCCACGTGAACATCGTCATTATCTCCATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTAGCCTGTTGCACTTCCCTTGGTCCCATCTTGTCTTTCTTTTCAC
AGCTGAGAAAACACCATCTACAAATCCCCACACCTGTAACCAATAGCTTTGTAGGCATCTTTTCTGCCTCCTGAAGATAGGATAGGTTTGGTAA
AAATCAACCCCTTTTGTCTGTGTCATCTAAGAAGAGTAAGCAGACAACGTAGTTTATGATGGCTCTAAACTCGAACACAGGGCTGATTACGATG
CATAGATCCTATCCTAGCTCTTGCTGTGGAGCTTGGTGGGTAGAGGGATGGCCCATCAGTTGCTGAGAAATGTCTCTCTTGGGCAGTGCTGAGG
AAGAAGAAGGGATTCCTGTACTCTTCTCCCATAGGTACATCTGAGGATCCCTGCAGCCTGGGTTTGCTCATGGGAGTCAGTGTAAAGACTGCCT
CAGTGGGGCGGGGCTGCTGACCTCACCACCAGGCGCCCTGGGCAGCTGCGCTGAGGGCTCATCATTTCGGATTGGTTCGACCCTGGCGGCCGGC
TGGGAAGACGCTCTGGTGGTAGAGGTTGGGTTATTTGTAGTTTTCGGGGGGGTTGTTCCTTCAACTATCTTGGAATTTGGTTGAAAATACATAG
TTCAGGAGTAAAAGGTCTGGTCGTCTACTTTGTTGTCATTATTAAGTGGTACCTTTGTGAGGAATGGCCTAAAATCAGGATCAAGTTAGGGAAG
AGCTAAAGGAGATGGGACATGGAGTCCCCTGTTAGCCTCTTCTCTGCTCAGACCAGAGGTTAATGTCAGAGCGCCCTTGAGGTAGAGATGAGAG
GTGCTTTTCTCTCAACAAGTATGGTGTGCAGCTTCTCCTAGGTTCTTGAGTGGATCAAGCACACCATCCTGGGCTGGCTTCTCTTCTGAGGTTT
ATTTTAGGATTCACCTTGTTGGTGAGCTGAGATTGTATTTCAGCTAGTGGGGGAGTGGTACCATTTTGGAGTGAGTGAATTTTGTAGGGAGCCT
GTGTCTGCTGGGGTGGGGTGGGGGTAGATGGTTTGACTATATGGTTGTAAGTCCCCAGGCCTTCTTGGTTTATTTTCAGAGATTTTTTTTTTTT
TCCCAAAAGATGCCTGATCCGTCTGAGGTTCTGGTTCATGTTTGTAAACACCGGTTGCTACCCTCCCGTTCCAACTTTTATGTCCCTCAGTTTC
AATGCCACGGTCTCCATTTTTGGAGCTGCCTGTCGGGCCCGGTGGCGGCTGGGTTGCCATTTTAGTTAAGCAGTGTCAGGTTGGGACGAAACTG
ATCGGAGGCACAGAAGCCCCTGGGATTAAGTTACTGTTCTAATTTATAGTCCCCGCCCCGCTGTGACCTAGGTCTGAGACGGTGTAGTCTCTGG
CTTGTTCTTACCCACTGAAGGATATAGAGCACCAGGCCCTTGTTTCTGGTCAACCTCCTCTGAGTGAGCCACATGAATAGCTCTTTAGAGACTC
AGTCTTTGAAAGGATTGTAACCTTTCCCAACCAGTGTTGATTGTTGTGATCATCTGTAACTTGCTCTCCAACCTCAAGGCTCGACAGTCCTTGA
CCTTCTAAGACGAGAGGTGCTGTTCTGTTGTCACATCTGTCCTTTTTCACATCACTGGGGTCAGGGAACTTATTTGTCCTTTATATATGTGGGA
AGGGCATGTTTTCTACAACTCTTTCTTGGTAGCCGTGGCCTTTAAACCGTTATGATCACAATTTTCAAAGTGAACCCCTTTATTCCCAACCAGA
TTAAGTATATGCTTCACCTATTGGCCTTCCCTTCCTTGTTTTTGAAATATTTTATGTCTTATGCTATAGTCTACTGTTTAGAGTTAGTGTTATA
TATTTAATTGAGCTGGGAGTATTTTACAGAGTGGTGTAGACATTTTTTTGTTTTTTTGCCCCCAAGTTAAACATGTAGTGTCATATACCTGCCC
AGGAGTGTTCTCCAAATGTGGAATGCCACTGTTAGTGACTGGGTCTTGAGTCTCAGGAGAGGCCTCCCTCCCCTTCCTGGAGACCCTGTTTCAG
GGCCTGTCTCTGCCTGTGCAATTGTTATGTCAGAGTCCAGGCCTGTACTTGCTGCATGCTCTCACATGCAATGGTAGACTGTCTGCTCTGGGTT
TCCAGAGTTCTGCTCTATACCAGAGGCTTTTTGAAGGGGTTGTGGGGGTAGGGGTAAGGATGAAAAAGACGGTCAGGGAAGTAGCTTTGAAAGG
TTGATGCAGAGGGGAGAAGTCAGGCAAAGGAGTGAGATTTACACTAAAAACTTCCCCCTGATCTCCACTGTGCATTTTCGTATTAGAAATACTT
TCTATTAAAATATGCAAACATAGTTGAACTATTTTCACTGTAAAGACGGCATGAAAGTAAAAATATGTAAGTTCATGTTATATACCCACCCGGA
GCTCCCAAACCTTCCTCTTAATTCCCGAATAAAGAGCAAATGTGGTCTAACAGTTTCTCTTAATTAAAATAGATTCTGAAATATTCATTAGAAA
GCAATACCGACTCTCACGACAGCGAATGGCTACGCCAGGAAACTAGAGACCCTGGGAAAGTCTCCTTTGTCTGCTTTCTTCTGGGGGAGTAATA
TATCCGTCTTTGCTTTGTCTGCTCTTGTAAGACACATCTACACTGCAAACTTATTTTATTCTTGTAACTGTAATTCCAAATAGATCTGTAAGAA
AAAGCAGAGAAATGTAGGGAGAACTGCAGATCAGCAGGCCTGAGGACACTGGGTCCCTCCATTCAGTGTCCTTGGGCAGGCTGCCTAAGTTTGC
CTAAGCCTTTAGTTCTCTGGCTTCCTCACTGGTCACAAGAAGGCGCAGCACTGGAGTTGCACTTGGGATGTTCACTCAGGAATTCAATAAGCGG
AGGCTTGCAGAGTGTTCGGCAGAGCACCCTCTCCACCGAGCTCAGCAATATTTCTGTGCATTGAAATGTGTCAGTCAAAAGGTAGTTTGTCCTC
TTTGCTCCCAGGGGTACAACAACCTCGGTCTAGCTGTGTGCCTGCCTCTGTGTGTGTGTGTGTGTTGCTAGGGCCTAAAAATAACTTGATGACT
GTTACCTAATTTAAGTAGCATACAGTTGTGCCAAGTAATTGCAAAAACATGTTAGGTCAAGGGGCTGAGTAATTTGGGCATACCCTAGAATTAT
TCATTTGTAGGGGAGCTTAGGAAAATGGGATGATAAATCTGTCCAGCTAATGTCCTGGATAGGATAACAAAAGTCTAAAACTTTTCAACTTTGT
CTTCTCTGGCCTCGCTTCGGATTTATTTTTGGAAGGAGGATTGTAGTCTGACTATAAAAGGGTAGGTGGAAGGAGGAGGGGTGTGGGCTGCTGC
AACCCTGAGTGCCAGAGAGGAGCTGGAGTGTGAGGGAAGAAGAGGAGCTGATGCTTGCTCATTTGAGTGGGTCCTGAATGCTCCCCCCGAAGGA
CTACAGGCTTGCCTGCCCTCCTTCCTTCATTGCAATCCAAGTGAAAGACAAAGGGACTTGAGCCCGCCCCTTTCCCATCCCTATTCTTACCCCT
CTGCTCCTCATAGGTAGCTTTTCCATGACACTACAGTGCATATAGCCCCTATGGCTTTGAGATGCTTCGCTGCTTAAACAGAGGGGAAGGGCAA
ATTGGTCTGAACCCAGGACTCTGGATCATTACCAGGTCAGATCTATGAGCCAAACTGGGTTGAAATGAACTGGGATCAGCCAGCTGGGTTGTCA
AAGATGAGTTCAGGAAACTCTTGACAGTGTGGTGGGTAGTAGTCACGGATTGCAAACCGAGAAACTGACAGGAAAGCAGTCCTCCTCGTTACAT
TTCTAAAGCACATTTCTCCAGGAGGCATGAGTCGGGAGAAGGGTGACTGGGTGTTTCCCCGCTTAGTCTGTTTGTGCCAACCCATCAGGTGGTC
TGATGAGATCACGAGGGCAGAAGAGGTTCCTGGGCGGAGGCCTCTGTAGCAGGCCGTGTTTCTCTATATCTTGTTGGCTGTGATCAGCAGTTAT
CTCCATTCTCCAAGATTCCTGGAGAGCAGTTTGAGTGTAAATTAGGGCCACACGACAGTGCTTAGGCAACTTTATCCACTTTGGTACCAAATAA
CTAACTACACACTTAACGATATTCTGTTTGTTTTGAGATGGGGGTGACTGTGGAGTTCAGGCCAGCCTGGAACTTGTAACGGTCATCTTTCCTC
TGCTGCCAAATTATGGCCAAGTGCTACTACGTCCAGCTTAAGGATAGAAATTCTGATCCTCAGAGCGGTCTTCTAATCAATTCTGGAAGGCTGT
TGATTCTATGCTGTCACTAGTGGATGATTGACACTCTCTGGNNNNNNNNNNNNNNNNNNNNCCAAAAGATTTTGATTCATTTGGTCTAAGGTAC
AACCTGCACACATGCCAAGATTTTGAAAAGCTCCCCAAATGATTCTCCTGCACAGTGAAATTGGAAAACCATTGATCTAGTTCGAGCTCGTTAT
GCAGTTATGGAAATGAGGCCTGGAGAGGTTTATGACTAATCCAAGGTCACACGCGTGATTAATTTCAGAGCCTTGGTCCTTTGTGCTAAAATAG
GTCTTGTTAGGGCTATAGACTGATGTATGTGTGGTACATTATTACCTCAGAGCCTCCCATGTATAGTGTAAGACATGAAATAAAATAATACACG
TAGTCATTTTGAATACTAGTACCTTTTTGGTTTTCAGGTTTCTATTCAGAACAACAACAATAAAATAGACTTAAGTCAAAGGATTTTGGAAAGC
CGTCCCTGATGGTCGAGATTTTACCTAGGTCCTGGAATATGGGCCAACTATTAGCATCGATTTAATCCCATTTTCTTAGGAACCTAATATTTTA

AGGGAGAGCTAAAAAGTAATGCCAAGGTACATCCAAATAAAGGGTTGGGGAAGGGCTATCTACATGGAAAGTACTTGCTCTGCAGGTGCAAGAG
CCTGGGCTTGATCCCCAGAGCCACGAGCTAAAAAAAAAAGACAGTTCAGCATCTCAGATGCTAACAGCTCGTTGGCAGGTAGCATCATGGAGTA
CAAACTGGTGGGTAGAGAGGTTAGACCATAGGTCGCATCACTGCTAATAGTCCCGTCTGTGTGTGGTGTGTGAAGCACTGTGTGAGTCTGGAGA
CTGTGTTCTGTCAGTGTTTGGTGAGCTTGTGCTTCTTTTCATCCCCCCACCCCCACCCCCACCCCCAGCTTGTTTAGAGAATGGCTTA
TCTTCAGGAGATGTTATTCTGCTAAGTATCTTTGTGCCATTTTTCTCTGCTTTCTTTTTTCAAGAATGTTTCTAGTTTTCTCGACGTTCACTAAG
GGCCTACAGAATTTCTTTCCAGGGCTGCAGTAGGCAAAGGAACGATGTATCATTTTGAATGGAAAGGGAAATATCACATGTTCTTTCTGCTTCT
GCAGTTGTGGCAGACAGGGCCCCCCTGTGTAGCAGAGTGGAACTTTGTCATTTGAGCCTCAACTGTTTGGACATCTTTCTGATAGGAACAAGAC
CTGTGTTTAATTTCACCTCGTGTCCCTTGTGAGGAAATGGGCAAAATGGGCACACGAAGTAAACAGACCACTCAAACGGTGCTTCAGAGACTAG
GTTTGGGCCTGTTTTGTTTTATCTTTTAATTTTTTAAAAAAAATTTATATTTTAAGGACCATTCTGAGGTATGAGGCTAGGATGAAAACAGTTC
TCATTGGTTCCAAAGCCTTTGCTCTTTCCCCTATAGGATGAAATTTCTCTGTATGAGTTTCTTTGTGCTGTTGCTGTGAGAAGATGCTCCAGCC
AGAAGCCAGGAAGGGTTTCTTGGTACTCACAGTTTAAAGGGAAGATGTGGTGGCCAGTGCGTGAGGCAGCGGGTTCCATGGTGTCTGCAGCCAG
GAAGCAGAGAGAGATGCTTGCTTTCTCGCTTTTCTCCTGGGGCCCAGCCCCACAGGAACGGCGATACCCACATTGCATCTTTTCAACTTAACCG
AGTCAAGTAATCCTTCACTCGCATGCCTGGACACTTTTATTTCCTTTTGATTTTAGGTCCCTTCATAACCCCTCTTTGGTAAATTTCCATTGGC
TACATTTACCATATACCATATGTGCTATGTGATCTTACTAATTGAGAAAAATTAAAGAGGTGAACAAACAATGAATGGCCATTTATTTTCAAAG
CCTCTTGTTGATGGCTGAGCCCCTGCCTTAAAACAAACTTTTATTGTAAAGTAAATGAAGGCACATTTTGCATTCAGCTTGCTAGTGCTTTCTA
ATCATGAAGGGTTTTTGTTTTTGTTTTCTGTAGATGTTTTCATCCAGAACTCAAGAACAAAATCTCCATGTTATGTTTGTTTTCGGAATATATC
TATGTCAGATATCATTACTTAACAGTTAGCAAATCTGTATTCCCCTTTCACCGGCAAGACCCGTATTTTATGTAGCTTAAAGAAAAGGAAGGGT
GATTTGTCCTTGCATAGGAAATCCGCTGTGCCTGCTTGAAACTTACACAGGAGAGAAAGGCAGTGCCCTCTCAAGTCTTTGCTACCCTTCCCAC
TGCTGTGCTGAAATTCCCAGTGGAAAGCAGGCTAAGGGAAGAAGGTTTTATTCTGGCTTAGGGTTTGATGGGGAAAGCCCATCATGTTGAGCAA
GGCCATGAGGACGCTTACTCTTGTCTGGGCTCACCAGACTTTCTCCCTCTTTAACTTGGAGTGGACCTCCAGCCTATGAGGCAGGACCCTTACA
ACTTTTTGCAGCATTCTTATAGACACATCAGAGGTATGACTCCTACTGAGTTTCAATCCAGTCAAGTTGACAAGATGAGAGACCCTACCATAGG
TCTGTCTCTTGTCAGCTGGGCATCCAAACACATCCCTAGCAAACCATCAGTCCATGTTCTGCCCTGGTAAAGTAAAAGTGCCTTTACAAAGAGA
AAGTTGGTGTAGATTCAATACATTATCTGACTTCTTTAATGTTTTATTTTTGACAAAAGCCGCCTCACAGCCCCACCCCAGTCTTGAATTTCAT
GGAAAAACAAACCGAGTCCAGCTGTTCTTTGTGTTTCCAGAAAGGCTTTGCTTCTTGTCTTACCCAGGGAGTAGAATCCCACTGGGTATCTGCT
GCCCACTCCTAATATCAAGTATGTAGAAGAAACACACCTGATCCAGGGATGGTGTCAGGCCCATGTGACTTTACCTTGTGTCTGAAGTAAGCAC
TGTGAGGGGTAGGACACTGCTGCCCAGATCAATACCTTCTATTTTATTCATTCCATGGAAGGAATCATTTCACACCCTTTGAATCATGGCCCTG
AGCTCCACTACCAACCACTGCACTAAATAGTACCAGATGTTGCTACTGGAAAGAGAGAAGAAGAAAAAAAAATCAGGGGTGGAGAGGGGCCAG
GAGGTGTGGGGGCGAGGGGGGTGGCAGGAGGGAGGCAGCAGGAGGAGCGCAGTCGTAACCTGGGGATCAGGTGACAGCTGCAGACTCCACCCTC
AGGCAAGGGTTCAGTTCCAGACTGCTTTCACTGGTTCCCTCTTGAAACCGAGAGCAGACTTCATGGAGGACAGTGACTGAAGAAAAACGGACCA
TTTTCTTGGGTTTTGTACTTCCATGCTTATAAAGAAATCACTTTTTTTTTTAATGCTAAGATTTTGAAAAGAGTGAGTCATACGATTCTCTCAAT
GTGATATTTTAATGCACCATTCCAGTCGTTGACTTCAGGAAAAAAAAAAAAAAAAAAAAGAGCAGGAAAGCCCAGGGGTGGGATGTGTGCTTGT
TGAAGGAGCACCTGGCCCAGTAGCGGAGGACCCAGAAGATGGGCAGACATAAAAACTGATCTTTGATTTCAAGTCTAAGCACCTTTCAGGCTG
ATCACATTGCTATTTAAAGATGGGCCTTGGGTCTCCTTGATGAGTGCATTGTCCTGGAGGTGCATCCCATTAAATACAACTTCCCTTCCCCCAA
GTCCTTGGCTGTCTTCAAGTGAAAATTCCATTGGTTTTTAAGAAGAGTGTCCTGCTCTGTCCTTAAAGCTGACTTTGCAAGTGATCTTAACCCC
GGGTTGTGTCTCAGACTCTGGAAACTTTAACGTATGTATAATGTGTCAGAAGTTTTGGGTTTTCTGACTGTTTTGTTTTTAGTTTAATTCAATT
AGAGAAACCTTTGAAAATGGTGATGTTATTTCTGGTATTTAGGAAGCATTTCCGTACTGTCAGTGTCTTGTGTCATCAGAATACCGGTGGCTTA
GAATCAGAGATTCAGGCCTTTGGCCTGGTACACGGTGAACCCGGGCATCTTATGATGGAGCTTGTTGTTAGTATATATTTAAATGTCTGGAACC
TTAATAGTAGAGAGGTAGAGGTGTTATGTATTAATCTATCCCACTCTCCGTAGTGGGAGCTAGATGCAGGAGAAGAAAGGCAGGTGTAAATCTA
GGAAGAGTGAGTCAGCAGAAGATGTGCTTGGTCCCGGTGACTCCATCCATGAGTGCTCACATCTCTGGCTTTTGCAGTCTAGTTAGTGGGGATT
GGGATGTTAATTACACATTTCCCATCCTTCCTGGCTGTCTCGTAGGCCTTCGTTTTGCTTTGAGAAATGGAATCCTCTGAGACAAGCCCACAGA
CCCACCATCGGTCTGTTGCCTGGTTGCTGGGTTTTGACCTCTCCTTTCCTGTTCTGTCCTGAGATACTGCGAGGGGTTGGAGGGGGTAGG
TAGTTAAGTGACCTCAGGAGCCTGTTATAGGGAGTAGCATGCTCTTAGGCAGGATCAGGTACCCAGTTTCACCTATTGGAAATTCGGAAACTCA
AAAGCCTAAGGTATCGCCTCACCCCAAACATCTCAGGTCCCTCTCCTCCCTTCTCTCCCCTTCACTCTCCCTCCCCCACTCCAAGTCTTCTTTT
TTCCATTCTCTGTCTTTTTGACAGGGTTTCATGTGGCCCAGGCTGGCCTTGAATTCAGTTACTGAGGATGTCCTTGTGTTTCGACGACGTCCTG
TCTACCGAGGCCCCAGTCATGCACCACCACACCACACCCTCCTGGGCTGTTTGGTGAATCTGTGATTCTGCCTTGCCTTATAACATACTCGTCC
TTCCTATTATAAATAGACTTTTTCTCTTAGAGGAAGTGGACGTTGGTCACTCGGAGACAAGATTCCAGGGCGGATTGATGACTTGGAATTTTGA
TCTTGTCATTTCAACACTTGGACAAGGGAACTTTGCTGTGCCTCAGTTCCCCCAGCTGTGAGAATGGAGATAATGACGATGTTCACGTGGGGTG
GGGGCAAGGGATGGGGCCAAGGGAAGATAAATTAAATAGTTGCTTATTTAAGTACTATAAATGATGTCTGGCCTGTAAAGAGTGATATTGATTA
AAAACTCAACATAATTATAATACAAAATAATTATAGTAATAAGCCATCTACTTCTTCTTCTTTTTTTTTTTTTTAATGAGGATTGTTAAGTAGC
ATTGTTCCATACAGTGATCTGACATCAGTACTAAAGCAATAGGAAAATCTTCGCTGCTTCCAGGATCTTCTTGTTTCAATGTTTAGAAAAGAGT
CAGTATTTCAGTGAGGTGGACAGATGACTACCCAGGTCCTTTATTTTTTCTGGATTGGTGCTATGTTGGAAAAAAAAATACATGCAATTCCTCT
CAAAGAAAACTGCAGAAAATTGAGTGCTAGTAAAAGCTGTTAATATACACTTACTGTTAGAACATGAAGAACATTTCACAATGGAAAAAAAAAA
AAGATGTACGAGCCCTGCCCTGCCCACCCTGGTTTCACTTTTACATAACCTCTCCATCCCTTACCCATATATGTGCATGCTTTGCAGAGTCTCA
TATAGAAACTTGAGCTGATTTTCACTTTGTGCTGCAGGGTCGGTCCCTTGCTTCCTGCATGGTTATTACAGATTTTCTTCTTCAATGCTGTCAT
TTGTCTAGTGGCCACATTCTGCTCAACCGACGACCTCCTAATGGACATTACACTTGCACCCAGGATCTTAAACCCGAGCAAGGTGTGGGGGGGT
CCCTGCTTCAGAAACCACTCAGTCTTCCTCTGACCCCCTTTAGAAGAATGAATGCTGGCTGTCAGCCCGTTGGGAGTTATCTTTTCTGTTGTCC
TAATTCACTTTCACTTTTTAGATCCTGCTGCCAATCAAAGTCCTCAGAGTTAAGGGAAGTCCCTGTCCTTGACCCACTGCGCCTTGGCTCTGAC
CTGTGTGTGTGCGTGCTATATATGTCATTCGATACATGGGCTGTGATCCTGGGTTTGTTCTTTGGTTGGGGCACGATGAGGCAGTTTGGAAACT
CCAAGCAGCCAGATATTCTATGGAACTAGAAGATTAGCCAGGGCTACAAACAATCCACTCTCTGAATCACTCACAGTATTACATTGTTGATAAA
AATATATTATTACCTTTGGGGCGTGTGTGTGTGTGATGTGTATGTGATATATATATAATATATAACAGCACCAGTGTGGAGGTCAGAATTCAAC
CTGTGAGACCCTGTTCTCACTTTCCACCATGTGGCTCTCAGGATCTCACGTTGCTGAGCTTGGCAGCAAATAACCTTTGCCTTCTGTGATATCT
CACTGGCCTTGATAAAACACACTAAAACATCAGTCACCAACAGAAAAAAGCTAGACCCTGTAGATGCTAAGTATATACATTTATTTCCCCCATG
TCCCATTTTTAGGTCCACTAAGGTCCCCAAAATCTTTAAGCAAACTCAGAAACACAGGGCCATGATATAATCAGAATGGGAAGAACTCCCACCA
GTCCTTTCCTGCAAAGGTAAAACACCCTTTAAATAGGAGTTAATTCTCTAGCAGATAACTAGCTTGTCTTCCTTGATAAAGTACATATTGGGTT
GAAATTATTATAATTAATTTTGCATGTCATATAAAAGTCCACTATGCCTGCGCTTATTCCATGGATCTCTTTATTCTTAGCCAAGGGAGAGCTA
GACGCCCAGTCCACTGTGGTGAGCTTTCGTGGAACTAGGGAGATGCCCAGATGATGATGCCTGGCAGGCTCCCCACAAGTAGGGGATGTGACTG
TGAAGTACCACCATCAACGGGCATTGAGCTTTCAGATTGATGAGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGATAAAG
ACCAAAAGCCAACATTGCATGTCTATCTGTACTCTCCTATAGTTTTATACATGTAAGTATGTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
TTTGACTACTGGGCGGTCTCCCCAGCCCACCTTCCACATCTTCTATAAAACGTTTGGAAAACGTTCTGAGGCCTGAGAACCAGATGCTCCAAAG
TTGTCCAAATCATGACCTTGACATTCATCTCCGAGGGACCTCTGCTTTCCTGGTTCTCAGTGAACAGCTTTTCCACACTGTGGAGTGGGATTCC

TGGCTGGCTGGGACTGACTGGTGGTGGCTGGTGGCTCTGACATTAACCCTTGAGGTCCATGGACATCATTTTGTGACTCAGCAGGTCCCAGCTC
CTTCCTTCCTTCAGCTTTTCTTCCTTACCTTCCCAGAGCTCTTCAGAGCTCTCAAATCTTTCAGATCTGGCCACATGGTGTCTTCCAGGGGTCT
TTGCCCATCAAAAGCCATTATCCGTGGTGGCTTTGTTTTGTTAAGGATTGCAGTGTGTGCTGATGTGATGTACAAACTTGGGAACAGAACTCTT
GTCAGATAATGGGGGTGGAGTGTTCTTTTCTGGAGAAAAGTGGCTATTTCATCTATGGGGAGACAGCTCACTTTCTGGTGCAATGCAGCTTGTAG
AACCATCATTTTCTGTTACTGGTTGCTAACTCTGTCCATGTGAACACATGCTTGCACATACAAACACATGCTCCTTTCTGTTAACATGGCCAGA
TAGTAATGACTTTGGCACTCAGCAGGGACTCCTTGAATGGGGACATCACCTTTACCTGAGCTGTTGTCTCCTGGTAGCTATGCCCTGCCTGATT
CTGGTCGCTAGAGCTAGTTGAAGCAGCTCTGAATCATACTTATCAGATTTCAGAAACCCTTCTTGGGTTGCAGTGTGAAAGACTCAGCTGCATG
TTGAAACCATAATTTGGTCAAATATGTTATTAGTGTTAATTTTGGCCTGTTTCCCTTTACATTTCAGGGTAGTGACTAGAAAAAATAGTCTTGC
CATGTAGTATCCTGCTGACATTTCTATCCAGTGAGGCCAATCTTTGTATAATGATAAGTTATCATTTCTTTCTAAGATGAGAAAATAGAGGCTG
AGAGTGGTTCACAGAATCACTTGGAGTCACACCGAAGTCGCCTGAAGTCTAGGCTGACTCCCAGGTCCACAACATTTATGGCTATGGACTTGTA
AATTGATTTTTTTTTTCTGCCCTCTGTCCCTGAGTTGTGGGAGATGATCTCTCACCCTCTGGAATCTACAGAGAGATAAGAGTGCCTGAGCTGC
TCCTGCAGAGCCCCTTGGCTCACACCTGAGTTTATGTTAATGAGATGACTCAGGGGACAAGCTGGTCATCTATCAGAAGGGCCAGCCCTGTGAC
TGGCCCGGAAGCTTGGAATGTAGCCAGCCTCCGCAGAAGAGGCAAGCTGGACTGAGGATTAAGTTCAGACACGGGGCTGATGATGAATCAAGTC
CAGTTGCACCTAGTGAAACATGATCCTGAAGAACACAGAAGCCTGGCCCTCGAAGCTCAGGCAGGCATCCTCCTTGCACACAGGGACATGCCAG
CAGGGTAAATAGAGTGTCTTCATTTCACACGACTGAACAGAGAAGTGCACGGTGTGGAATACTAGGGCCTACGTTGTGCAGCTTTCATTTTGCT
GGCCCTGGCTTGCATCCTTTATAGTGAAGCCATTAATTAGCACAAACAAAAGTGCTTTCCTGAGTTCAGCGAATCATCCTAGTGGATTCTTGAA
CCCCGGGTATTATGGGGAAGCAAAGAACTAGTGACAATTTAGTCAGAGGTGTCAGAGGCCTGAGAGACACCACACTTACAACTGGCAGTGAGGC
CAACGCTGTTGGGGATTGTGGTGGCTTTCTGTAAGAGTCAATCTTGGAGTCGCTGTCAGAGCTGTGTCAGAGCTGCATTGCAGTATTCTGAGAT
GAAAGCACCCAGTGTCTGCTTGAAGGCCCTGGTGGTGAGAGAACACCGTAGCACTTGGTAAGATAGCAAGACTTGTTTCCCTAACCCCATTTCC
TTGGAGACAAGAGGCAGCCTTCACTCTAGTCTTACAAAATGATGTGGTCTTGGGAAGACTGCTTTAGACTGCAAGGCTTCCAGGTCAGCAGGAA
GACCTGTGATATTTCTAGGCCCAAGACCTTCCCACCTTTGGAGGCCCCCTCTATTTCAACTCCTAGGTGTCACCTGAGGGGGTGTGGTGGCCCA
ACATGCTGGCCTCTTTCTTACAAGAAATTCTTGAATATTGATGTTGAGATTTTGTTCCAGTAAGGAAAGCACTGTGTGGGAAAACCCTAAGTAA
GGGATTTGCATTACTTGGTCATTTGCATTGTTAGGATTCATACTTGTGGCGTGTCTCACTTTGTTTCAAAAATATGGTGTCATATCCAACAGCG
CCTTTTCTGTGGACACCCCTGTTTGGATATTTTAGCCATGGTCTTGTATGGTTATTTTTGGTCTATTTTGTTTTGCTTTCTCCTTCCTGGCTTA
AAATAGACAAGGTCCCCCCACCCCCACCCCCACCTCCAAGGCCATTAGTTTTTAGCTTTGCTCAGACTAGTCCAGTCCAGCAAAGCCTTCTTAG
GTCACCAAGCTCCTAGAAAGTTTGACTCCTCAAGGCACGTGATAGGGCCACCCTGGAAAATGGGTTTCTAAGAAAAGAAAACTGTCATTACTTG
GTGGGAGGGGTTCTACAAGAAACGGGAATGAAGCAAAGAGTATGAAGAGTTGTGAAATCTCCTGAAATCTGTTTAACCTGGTCTGGCCCTGGGC
TCTCTGCACTCTGTCACCAACGCAGGCTTGCTTATTAGAAGTTTAATGGTGGCGATAGTCCAGCCAAATAACTGACAGTAGCTTTCACTGAGGG
TGTCAAGCAGCTCCCTGCCCCCTCAGTAAGGGTGAGGATGGAATGTCAGCCTCAGTTTCTAAAAGAGATAGAACAGATGCTTAGAACTGACTGC
CCTAGAGTTGGGTGCTCCCTTCCCCTGAGGTACTTCCAAATGTTTGCCTGTGGACTACAGGGTTCAGAGTACACCTTTCAAGACATAAGTATGT
GCTACAGCCCTGTGAGAGAGCGAAGGATGTAAGAATCCCCTTCAGGAGAGAGGAAACTCTCGCCATTTAAGTCAAAACTATTAGGGGATAATCC
CGGTGTCTTATTTACTTTTATTTTTGTGTGTATGTGTGTGTCTATATATGTCCACTTGTACATGCCTGCTCTTGGCTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTGTGTGTTCCTGTGCTTACCTGGTATATATCCAGCGAGCCCCTTGGATTCTCCTGTTTCTGCCTCCCAAGGATGGCTGGATT
CTTCTGTGGGCATTGGATCTGAACTCACACTCTCATACTTACCCACTGAGTAAGCATTTTACCCATTGAGCTGTCTCTCCACTTCTTTGATAAT
GTGAGTTTAAGTGACCTGAAATGTAAATAACTAGCCTGCCAGTTCAGAGTTAATAAGACAAATAAGAGGGACTCGAGAATGCCTGATTGTAGAG
CTGGTATTGTGGGAGAAACAGAGCCACTGGGTCAGTGAAGACCCTGTCCAAAGTATCTGTGATTGTTGATCCTATTTAGATGGAAGGGCTGCTG
CCAGGTCTAAGGGCCAAACCAGACCTTTCTTAGGCATATGCCTGGGACAGAGCTCTCTATCCCACTGTGAGCACTTCTTGAATGCATGCTGACC
TGAATTCAGGCAGGGCCTGTTTCCAGACCTCTCTCGCCTGGGTGTCCCTCTTGACCATTTTTCCTCACAACTCTTTTTCATTCACTTCTGTCA
ACATTGCTCATAAGGGAAGTACAGAGATGGGAGCATGTGAGAGGAGGGACAGGCTAGAGGCCGCCAAATGTGACAGATCTTATTCTCAACCTCA
CCTATGGGCCTATTTGTCACATGTAAGGTCCAGCAACTGTTCTTTGCCTCTTCCTCAGCCTGGTACCAGCAGAGTTCATCTTCCCTGCACCAGC
TTCCATGAGCTGTGACCCGTGGTGTCATCCAGGCGAGTCTCCCAGTGTTCTCAGAACATTCTGGCATTGATACTTCGCTACAGTTTTTTCTAAT
GTTTCCTCGTCCTCATCCCTTCTTTTTCTCTCCAATTAGATTTATCTTTGGGGACTATTTTTAATCTCCCAAATCCCTACCATAATGCGGAACA
ACACATAATTAATGGCTCTTTCTGGCTCATTCTGATGTTCATCTCATCTAAAAATATTTAACGAGCACTTGCTATTCAGAGCAGACGGTACAGC
CTGAATGAATACAATTTCTCTGAATAACTCATTTAGTAGTGGTTCATTTAATTATTGTATCAACTCTGCTGCCCATTGATGCTCTACTTTACCC
AGAAGTAAACTAGGATCTAAAGATGCCAAACAACCTTCCGGAGCCTGTACCGCAGAGGCGCAGGGCAGCCTGCCACCATTTCCCTGAGCAGACA
TGCCTTGCCACCTAATAGCACCTTTGCTTTCCTGGGCTCCACTTTTTTTTTTTTTTAATATTTTTTATTAGGTGTTTTCCTCATTTACATTTCA
ATGGCTATCCCCAAAAATCCCCCATACCCTCCCCCCCCTCCCTTAACCACCCACTCCCACTTTTTGACCCTGGCGTTCCCCTGTCCTGGGGCAT
ATAAAGTTTGCAAGTCCAATGGGCCTCTCTTTCCAGTGATGGCCGACTAGGCCATCTTTTGATACATATGCAGCTAGAGTCAAGAGCTCTGGGG
TACTGGGTAGTTCATAATGTTGTTCCACCTATAGGGTTGCAGATCCCTTTAGCTCCTTGGGTACTTTCTCTAGCTCCATTGGGGGCCCTGTGAT
CCATCCAATAGCTGACTGTGAGCATCCACTTCTGTGTTTGCTAGGCCCCGGCATAGTCTCACAAGAGTCAGCTATATCTAGGTCCTTTCAGCAA
AATCTTGCTAGTGTATGCAATGGTGTCAGCGTTTGGAAGCTGATTATGGAATGGATCCCTGGATATGGTCCATCCTTTTGTCACAGCTCCATAC
TTTGTCTCTGTAACTCCTTCCATGGGTGTTTTGTTCCCATTTCTAAGGAGGGGCAAAGTGGTCTTCGTTCTTCTTGAGTTTCATGCGTTTAGCA
AATTGTATCTTATATCTTGGGTATCCTAAGTTTCTGGGCTAATATCCACTTATCAGTGAGTACATATTGTGTGAGTTCCTTTGTGATTGGGTTA
CCTCACTCAGGATGATGCCCTCCAGGTCCATCCATTTGGCTAGGAATTTCATAAATTCATTCTTTTTTAATAGCTGAGTAGTACTCCATTGTGTA
AATGTACCACATCTTCTGTATCCATTCCTCTGTTGAGGGGCATCTGGGTTCTTTCCAGCTTCTGGCTATTATAAATAAGGCTGCTATGAACATA
GTGGAGCATGTGTCCTTCTTACTGGTTGGAACATCTTCTGGATATATGCCCAGAAGAGGTATTGCGGGATCCTCTGGTAGTACTATGTCCAATT
TTCTGAGGAACCGTCAGACTGATTTCCAGAGTGGTTGTACAAGCTTGCAATCCCACCAACAATGGAGGAGTGTTCCTCTTTTTCCACATCCTCT
GGACTCCATTTTTTAGCAATAATAAAAAACTAAGGATGACATTGATGATTTCGGATAGTGGCAGATGTTCTGATATGTGGTCAAGGAGTTAGCT
GAGAGAATACTCATAATATCAGGAAGAGCCCTTCTGGGAGACCACAGTCACTGAGCCCTGCGTGCTGTCTGCAATGGTTAGGATAGGAT
GGAATGTGGCCCTCAAGTGTCTATGTTTTGGAAACGATGTTTTCCCGACATGGTGATACTGCAAAGTTTGATACCTCATAGGAGGTCAACTTGT
CACTGTCCCTGGTAGAGCATGAGACTGGTTTTGTGGAAACCTGACAGCAGAGTTGTTATTTAAAAAAAAAATGATGAGAAAAGAAGTGGGTAGT
CCAGCCCAGCTGTTACCCTGGTTTTCTGTCCCCCCTATTTCCCATCCCAGCTGTGATGCCACCTGTCATGATGTGACACAGCCAAGGTGACCTT
CACCAAAGTTAGCACCATACTGTAAGAGCTTTAGTCTCTGAAACTAGGAAGTAAACAAATCTGTCTTTGTATCCCGCCTCAATTACTTTGTAAT
GGGAACGGAAACAGATTCCTGCACCCTCCCCATATAGAATAATCCTGTGGAGGTTTCTTCTACTCCTTGAATAGTTCCTCAGCTGACAGCAGCA
GCATGTCCTAACATTTCACTTGGAAATCATGTAAGATTCTCCCAGGCCAAAGGCTCAAATGCAGCAGAACTCCCAACTCCTGGTACTGGTTGCA
AGTCCCAGGGTGTCACTGCACTTCTGACCAACTAGCTGGCAATAAAAGTTCTAGAACTCATTCTCTAGATTTGATTAATTTGCCATGACAGCTC
ACAGAAATTGGAGAAACATTTAGTGAATTTGCTTAATATAAAGGATATTATAAAGCGTGCACATGAACAGGCAGACAGCAGAGGCCATGTAAGAC
GATGTGCAGGTCTTGTGTCATATGTAGGCATGCTATCCCTCCAGTCACTTCCACATGGCCCAGCCATCTGGAAACTCACCAAACCTTGTTCTTT
TGAGTTTCTATGGTGTTTTCATTAAGTCTGAATGATTGATGACATTTTTGGCCATAGGTGAGCAATTCACTTTCATCTTCTCTAGATCAAGATT
GAGGGCTAGAGCCGAAATTCCCTAGCCTCTAACCCTGCTTTCTACTTTCTGGTATCACTTCCATCTGGAAGGTGTTAAGGGCTCCCAGACTGCC
ACTCACCTTGTTGGCATACAAACAGTCACTCTTATCTCTTTGGAGATTGCCAGGGTCATCTGGGTGTGCGTTGCTTAGTATCACAGTATCACAC
TGAGGGAATGACTTGAAAGAGTGGTTAAACACAGAGAGCCTTGGAATAGATCATTGATGTCTCACACCTTACCAACGGACTGTTCTTGCTGTGA
CTCACCTCTGTCTGCTTTGTGTTGTAGTAGGGCTTTGTTGAGCTTAAGGAGTGCTCGAGGGGTGGGGTCAGGAGGGAAGAATGAAAGAATTAAC

CAATGAGCTTGCATCCAAGAGGTTGGCAATAAATGTCATAAGCAAGAAGCCGAGTCCCTTTAGTGTGGAAAGAAGAGCTACTCTGTGATTCCCT
GCCCTCAGGAGGTCTTCCCCCCGCTGTACCATGTTGGATATGGCCTTCAGGGAATGTGCCTAGGAAGTCCGACGGTGCCAGAGGTGGAGTGCAA
ACAGGGTCAGGTTTCTGTTCTTCCCTCCTGGGCTGCAGGGATGGTTACTGGGATGGTTCTCCAGTAACCTTGAGCTTATGTTTATAATCTATGA
TCCCACTCCAGACCAGCAGGCTGTATTGGTTGGACCATAATGTGGTCTACCAGATGGGGACACCTCAGCTTTTGACCCGTTACTATATCCTGGC
ACTACAACAACCACCTCCAGAGGTTTCCAGACCCTTTCTCCTATCTCTTCGTGGGAATGGAGACCATGCCTGGTTTCAGTTTGACCTTGCAGAG
CTCAGCCATTGCGGGTGATTTGACTTTGGCATGTGGCTGCAGAGGCAGCTCCTGCCTTCCCTTCCAGGCAGTTGATGGTTAATATACTTATCGT
TGCTAACTATTCTTGCCAAATATAGACTTATAGCTCTGACTTACAGAAGTCAGAAGTAGAAGCTGTTGCGATATATTTTTTGCGGACTGAAAAC
ATTGGCTAAAGAAAGCATTCCAAATTGTGATAGGAGCAGTGGCGCTTCTCCCATCTCGCTTCCTGAATTCCCCAGGCCAAAGCCCTTTGACCTG
CAGATCATTACAAAATCCATGGCTGTAAACGCTGTTGTTTGAGTGTGGGGTTTCCTTCAAAACAAGTTGAGTGGCTTACGGATTTGACTGGCCA
GTTCTGTTCATCACCATTAGGCATGGGTCCCAACCCCAGTCTCCATTGTAACCCTCGTCTTTTCCTCCCCTCTCCTGACCATAGATGACTTTTT
TGTTTGTTTGTTTGTTTTTTTGTTTTTTTTTTTTTGTTTTTGAGACAGGGTTTTTCTGTATAGCCCTGGCTGTCCTGGAACTCACTTTGTAGAC
CAGACTGGCCTCGAACTCAGAAATCCGACTGCCTCTGCCTTCCAAGTGCTGGGATTAAAGGTGTCACCACCGCCCGGCCCATAGATGACTTCTG
ATGACTTTCTCTGAATATAATTTCCAGTGGGAATGCTTCATGGTAGAAGAATGTAGTCTTTTGAAGCTTGCCCTTGATGTTTCTAGAGATTTAT
TGGATTTTACTTAAATCCCATTGGGAAACATATTTTCGCTGTGAAGTTGTGATGTGTTTAATTTGGGGTATAAGATAAATATGGTCCTGGGGTG
GAGGGATACATGGATAGTGAAGTAAGTTTTTCTTTTGTGCCATGCGCTGGTTTAATGAGTAGCTTTATCTGTTTGCTTAGCTATGTTTGATTAT
TTAGGCTTCTTCTGCCTGAAAAGTAAAGAATATTTGCCCTGCCTTCAGAGAATTAAATGAGCAGCATAGAGTATGTGGCTCACTCTTGGGAAAA
ATATGACTTTGTTTAATAGCACTACACTATTAACATTCTTCCTCTTCAGCTTTGCAGTGCCATCTCAGTGTGTCCCCCCATCCCTTCCCCTCTT
GATTAACCAGAGAATGTAGGGTTTCCCAAACACACAAAGGTCTCCAAGGAAAACAGTTCTTGGCTCAGAAAGATACCTCAGGGTGAGCTTGAG
CCAGGTCTTGTCCATAATGAGGTTGAGGGATTCTTCTGAGAAAGGATAACTTTTGTGAGTGCTGCCGGCGAAGAGAAGGTTCTACATGCTTGCT
TCTTATGGCTTGCCTGGTGGGTTAGGCAGCCTCCCACCCCCACTACCATCTCAACCTTGGACCATATCTGGCTTGACTATAAGGTAATGATATC
CTTAGGTTGGCTCTCAGGAGCCTTGTCTTAGGTAGCCCACAAGTTCTGGCATGACTCTTGAATAGCAGATATTCTAATATACAGACACTTATAT
GGAGAGAGTTAAACTGAGAAATAAAATGTAAAGTGGCTCTATATTAGCTTGCTTGGGTTACGTATTAGTCAGTTTTCTGTTGTGATAACAAAAG
TCAGTGCTGGATACTTTATAAAGAAAATATTGGTTGCTTTCGTGGTTTTAGAAGTCAGGAGTGTGAGATCCAGTGCCTCTCTCTGTTGGGCCTC
TGGTGAGGGCTTTGCCATGGATTACGTGGATAATATTTCAGCTGTGGAAGTATGTGCCAAAGAGATCAGATGTCAAGAGTGGAATCCAGAGACA
CTCAGGGCCTAGACCTGCTCTCATTGGTACTCACATGGGTCATATAAGAAATGTGTTCACCCCTTCCAAGCCCAGCACCTGTTGACCTTACGAT
CTCCCACTATGCCCCACCTGTTAAAGGTTCTAACATCTGTCAACATCACCACCCTACAAGGCTCTTAGTATTTGAACTTTTGATTCCTTGCTCA
AAGAACATCCAAACCACAGCACGTTGCTATAACAAAACACCCCAGGCTGGGTAACTTAAGCAACAGGAACTAGCTCTCCCACAGCTAAAGGGCC
CAAACTGTAAGACTTGTAAGATTGGAGTAGCCAGAACGTAACTGTCCTTTTACCTTCTCTCACCCGCTCCTTCACCCAACCTATTTCTTGTTGT
TTGTGCGGATGGCAGGCACGCACATGTCACAATATAATGTCCATGTCAGAATAGGGGAAAGGGGTGAAGCAGGAGGCAGAAGCCAGCTGCAGGT
GCATGGGAAGGAGCCCGGGGCTGCTCCCCCTTGGAATCACACTGATTTGTGCAAAGCCTAAGCCGGTTCCTGGCACGGGACTCAAAGATCTTAC
AGTTTGAATCCGGTTCACATAAAAGTCATAAGCACGAGAAAGCAGGCCCAGAGCGCTTTAATTGTCATCGTTGTGGAAAGTTACATGACTGTCA
TCAGCTGTTGCTTCTGGCAGTGCTTTCTGGACTAATGTAAATAAATGAGCTAACAGGTTTAAAGAAGCAGCCTGTATTTACATACTTGTGAAGT
AGCCTCAAACAATCAGTCTGTGCTATTCAAACACACACACAAACACACACACACACACACACACACGCACGCACACACACGCACACACACACAC
ACACACACACACACACACACACACACACACACACACGAAATGTGTGGCTTCCTCAATGCAGGCTCCTCATGAAGGCCTGAAGTCTG
AAGGTTATGATGAGTAGTGTGAGTAGTGGAAGCCCTGCTTTTCCCCTTCATGGGGTTTTGACCTGAGTCTGCCTTTTTGATGAGAACAGGCTCT
CCTCAGCAGGCTGAAGTTTAATCTTCAGCCATTTCTATAGCACTTCTTTAAGGCATGGACTTGGGAGAGCCCCGGACTGCTTCAGAGGAGGGGA
GAGTGAAGTGGCAGGGGCAGAAAGGAATCCCACACCCTCTGATAAAACACTCCAGAGTCACCATGTCTTGGAAGTCTTCCAAAGGAAGCTAGAT
TTTCATTTTTTTTAAAAAAATCATAAGGTCCTTTTGACTCAGTTTGACATTTGTAGATAAATATTTAGGCAAGCATATTTTGGGTGTGTGTGT
ATATGTAGCTCTGTATGTGTGTGTGTGTGAAGGTCAAAGGTTGACATTTTGAACATTTTGTGTCTGATTCAATTACTCCACATTACTGAGACAG
GGTCTCTTGCTGAACCTGACGCTCACCAACTTAGCTCTCTGTTTGCTAGCCAGGGAACTCTGGGGACCCTCCTGTCTCTGTCTGCCCAGTGCTG
GGACTTGGGGCATCCAGCCATGTTTCTTACATGGGTCCTAGGGAATCCAAACTCAGGCCCTCATGCTTGCAGAGTAAGGACTGTGTAGTGACCA
AGCCATCACTCAACACCCCAGGCATGATTGTTTAAAAGCACATTCCTCTGGAGGGTACTAATGATGCTATCAAAGGAAACAGCTGAAGAATCAT
GAACAAAACATAAGCAACTGGCCCTCTAACTGCTCGTGGATGAGTCCATTGCACCACAGATTTAGAAAGAAGCCTCTTACTAAGGGCACAAGGA
AATCAGGAGGGAGCAGTTACTGGTTTGGAGTCTCTCAGTGCCTTCATAGTCTGGGATAGCTTCTTTCCAGAAGGCTAGGTTTTGTTTGTTTTTC
AACACACAGCATGATTCAGGCAGAGGAGTGGTAGGCACCAGGAGGGAAGCAGAAATACCCATGCTTAGAAGATTGTGCAGAGGTGTCTACTTCC
TGTAAGCATCTATGGCCTGTCATATTCTTTTGTCCAACACAAGAATCCAAAAAAAAGATTCAATGAGTTCCAAATTCAAGCAAATTCTGGTATA
GGTTTACCAGATTTTTCTCCCTTTACCTCTCTAAATGTTATGAAATCCAACTGAGTCAGATTCATGAACACAAAGAAGAGAAATGACCTTTAGA
CCGAGGTCCAAAGATAGTTTGTGATGGGTTTTGTTTTTCTTTCTGAAATAGGATTTCATGTAGCTTAGGCTGGCCTAGACCTTTCTATATAACT
GAGGCTGGCTTTGAAGTCTTGATCCTCCTACCTCCAGGCTCCCCATTGTGAGGGCAAATATTAGGTAAACATGCCTGGCCATACATGGCATTTT
TGAAGTGGCCTCTACCTAGGATTTGTCACTAAAGTAGACAGGGAGAGAGAGGTTTACTTTATGTTTTAGTGTTCACAAATGGTTTTCATAAACT
CAAACCATAGTTCCCTACTTCTTCTGTGGCTCCTGTGGTACCATCTCACCAGGTTCCATGCCCCCTGTGGGAGACCCATGTGCAAGGGGACTTA
AGAGTCCCTCTCCCCAAGAACAGATCTTCCACCAAAGCTATTAACCTGGAAATATAAACATGAAGTGATAAATTCAAAACTAGAATATTCTAGC
ATTGTTTTAGTTCAAAGTTACACACAGGCATGCATCTGGTTGCTAAAACTTTTACAGAGTAGTTCTGAGAAAAATTGGTAGTCATCATCAACTA
TTGAGGCATATACTACATAATAAATACTTTGTATATGTAAATAGTGTATTTTTGTTTACCCTTTCTATAGATTACCATTTCCTTAATGAACTGA
ATTTATCACAGAAGTTTTTAATTGTTGGTGTGTGTGTGTCTGTGTCTGTGAAGTTCCGTTTCCTAATTTCCTGTGTTTGTTTGTGACAGAGTCT
TATGTGGCTCAGGCAGAACTTGAACTCACTCTGTAGCAAAGAATAGCTTCGAACTTCTGATCTTCCTGCTTCCACCTTTCAAGTATTGGGATTG
TAAGTATATGCCACTATACCCAGTTTATGTGCTGTCGGGTATTGAACCCAGGGCAGTGTGAGTTCTAGGTAAGCCCTCTAGCACCTGAGCCATC
TCCCTACCCCATCATAATCTTATTTCTGGAATTTCTAAGACTATATATCATATCCTTACATATCATTTCTACAAATACACACATACTTCTTTCA
TATAGTCTGAGCAAGTTTGTCAGGATTGCACTTTTTTTGTTGCTTGCCAATCTGAGCTGTCTTCCCCTTTCCTTGGTTTCTCGGAAACAAACAG
TCAGACAGAAAGGGCTAGCTGGTGAGAGAGGGAGGGAGGGAGGGANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNTTCTTTACCTAGTACTCACAAAACCACTGGGACTCAGCCCCTTGCCCCTCCTTTCCTTTGCCTTGGCCTTTCCTCCATCCCTTATGTG
CTAGAAGACAGCACCTTCGTCCCTCTTCTCTCTTGCCAATATAGCTTCCCACAGGGCTGGATCCTAAGATAATTTAATCCATGCCTCCTTGTAC
TAAACTTGAAGTCACTTGTACTGTCAAATGGCCACTCTCATCTATGGGGTATGTGGATAAGTTCATAGGAAATGAAATGTAGAAGCCCCCTTTG
ATGGCTGTAGCGGCTGTTCCATGTACTTCTCATATTAAGGTGCTCTGTCCCCATCTCCGGACATTTTGGCCTTAGACACTTGACATCAGCTAGG
TCTTATTCTTTCGCCTTATCTTTGTGCCTACAGAACCTCAGGATACTGCTTGATATAGTATCATTTCCACTGGGGGAGCTATAAAATAATATTT
ATTATATGCCAATAATTCTGTCGTTTGTGAGCTATATTATATAGAACTGTGTCTGTGTGGAAGTCTGTGGATGAATATGTCGAAGTTACTGATA
TGGGAACTGAGATGCGGGTATACTAAATAACCCACTGGAGGTGATGCAGATGGTGAGGGCTAGGACCAGACCGCGTTTTACTACAGACTTGCTC
CATCCAGTCCCTATATTCACTGCTGCCAATGCCCTGCCTGCCTAGTAACCCAGGAGGAAAGCAAGGCTGTCACTAGTCGTCATCAGCATTCTTG
CAGCAAGCAGTAAGAGTGCCCTTTTAGAGTAGGCAACACCCCCACCCTCCTGTAGATACTAATTCTATCTGCTGACAGTGTTCTCCTTACACTT
CTAAGGCCACTTCTGAGCTTAGCATGAAGCCTGTGTCTGCAAGGTTCCTCTGTAAAACACCGGCGTTTCCTGCTTATGGGTTAGGCATGTGAAT

GTTCGTTCTTTAGCCCCACGGCCAGAGAATCAGATCCCAGAAGGCACTGCGGCAGCTAGCAAGGACTGGGGCGGAAGTGTGGCTACAGACAGGG
GTTTCTCCTGAGAAAGTCTGGCACTTCCAGAGGTTGCCATTGAACTCATTTGGTCTCTGCAGATGGCTATTAAACTGTGAAAATTCTAGAATGT
TCACTTGCCAAAGTTTTTGTATGTCTAAGGCTTTTCTTTTCTGGTTACTAATAAAGCGTTCATCATGTACCCCATATGGTTTCAGCAAACTTTA
TGTTTGTTAACTTATTTTGTTCTTAGAATAGTATTGCATAGGCACTATTTTCTACTCATCGGTAAGGGGAAACCAAGGAAGAGACGCATGAGAA
GCCTGCTTAGGATCTCATGGCAAGGGTTTATCAGGGCCGGCTCAGCCTCCAGCAGCTTCTCCATTACTGAATGGAGTGTAGGTGGGGTCATGGT
GCTGATGAGGAGTATAATGGGGTGGGATGTATGGGATGCCATGTGATGTATCTGTAAACCTTCATGTAGGTGTCCTCTACCCCAGCCCTGTGCA
TAGGGTGTATTATGAATGATTATGTATTATGTAAGACAGTAAACGGAGCTTTCCTAAGGGAGAGGGATTCAACAAGTTCCTCGGAGGCTGAGAT
CTCACTGGAGGCTGGGCCCATGTGTCTCCACCCATCATTCCTCTTCCTCTACTCCAACCACGCCAACAATGTGTTAATGATGCTTTTATTGGGG
TGTGTGTGTGTGTGTGTGTGTGTGTGTTTTGTTTATTTGGCTACTCTGGCTGGCCAGTGCGGTACCAGGAATCTCCCCATCTCTTCCTCC
CCAGTGCACATATCACAGACATATACTATTGTCCCTTGCTTTCTCAGGGACACTGGGGATTCAAACCCTGATCCTCATGCTTGTGAAGTGGGCC
CTTTACTGACTAAGCCATCTTCCCAGTTCCCACCCCCGTGTAGTATTCTTCTGTTATCAGGCCAAACAAAATTACCCCCTCCCCTCATTAGGTA
ATCATTTGATATGGTCTGCAGGGCCAAAAATGACCTCATGAGCTCTACTCTTACCTTCTGCTGCTCCCAATCCCATACTCACCCCTAAGAGGTA
CAAACAACCCCTACGCAGATCCCTCTGAAATATCCCTGTCAGATACTGCTATTTCACGCAGCCTCCGACTCCACCCAGGAGAGTCTCCGTTTCA
TCGTGACACTGTACAGCACTCTTGTGTGAGGACGGACGCCTGACATGAGCAGACAGAGCTGGATGCTGTCTCTTCTGACCCTCAGTGAGAACTT
CCTTGTCCAGCTGAGATTTCAGTCACATGCGGCCTTTCTCTTTCCCTCCCTACAGATAGTAGTCCACAAGGGTCTTTCCCACATGGCTCAGACA
TATAATAACACACATCATTTCACATAGATAGGCACACAGCACCCCATGGTAGAAGCGTTCGGTGTGTCAGTCTCGGACTCTCTCTGATCCACCC
TTCCCCCATGTTTTTTCCCCCCACTAGGCAAATGGAAGGCCCCTTGCCACCTGTTAGCATTACGTCATTGGCTCCCCAGAACACAGTTGTACCC
AAGGCCTTAAACAAAGTAGTTCTTCTTGTATTGTTTGCATTCAAAGAGCTGATATCATGCCAGCTGATGTCATTGTGTGTCTTTGTGTGAGTGC
TATGGCAACTGGGCAGGTGGGGAGCCTCCGGCTGATGTCATTGGGGAAGGAGGGGCAGAGACTGAATTTTAAAAAGCTCTCTGCTGAGTTGTTT
TGTGTCTGGGGGTGGGAGGGTGTTTTGGTATGCCTTTATTTTTTATTTTTTCAAACTAGCTGCTTTAAGACAAATTACAGCTCGAACACACTAA
ATAAGAACAGAGACGCCTCTTCCCCCTTCCAGCCTCTTTTGAGTTTAGCTTCCCAGTCCTTCCTCCCATCTTACATGGAAAAAAAAAGGTTGCA
AGTGCCTTTTTCCTTCAGAAAGAAGGGAATTCGGTTCCCCTGGCAGGATCAGCATGGGGCTGTTTACTGGGGGCTTTGTGGAGCCCAGGAGATT
GCCACACAGCTCCTCCCTGTGTCCTCTGTGGAGTTTGCCACAGTGGCAGTGGGTAGTTTTGCCACTCTAGTTGTTAAGTGTTCACTGGTGACGTG
GTTTTCCTCGTGTCTTGCATTTTTCTTTGTAGTTGGAAGGCTTCCTTTGGGCTAGCCACCCGGCTATAATGATTTCACCACAGAAGACAACAGC
AAGGGCAGAGTGTAATTACAGAAATGAATTCAAATGAAGTCAAAGCTCTGACATGCTCTCCTAAAGACATGTTTGTCCCTTCCCGTATCTCCTT
TTTGACTGGTAGACTAGACACAGGATGGCCCTCCCTACCAAGTGGACTGTGAATTGTTGCTATTCCCTTCTGAAAATATGATCTGTGCTCTGTT
ATACAGCTGGCTGTGTGCATCGGTTCGGGGACACACTGTGTTCAGGTCACCTGCTCTAGTGGTCAAAAATGAGACTCGTGGTTTGAAAGGATGT
GGTTTCAGTTCAGAAGCTGGTGGACAAGTGAACTTCCTGTCCTGGTAGCAGAGCCTCACTCACTCTGTTCAGGCTTTGTGCTTTTAGCCTTAGG
CTTTGGGACACTCAAGACCTCTGTTACTGGGAAGACATCGCTTCTAGGAACTTCCCAGGGTCTCACCCTTTTCTAGAAGACCCCACGTGTCCCA
CACTCCTTTGGTGACCCCTTCCCAGGTTTCCTCAATGTCTCTCTCATATACGTAGTAGAATTTGAGCTCCACAATCCTTCAGGTTTGTTTGTGTA
TAAATATGTGTAGCATAAGTAACAAACTCTGACCCGTGCATTCCCTTAACCGTTCTTTTTTGTATGGCTAGGCATTTTTTTTCCAGAAAGTTTT
AAATTAGCTCTTTTTCCTTTAGCATTAAATAGAATCATTTTCTTTGATTTTATAGTTATTCCTTTAGTGGGTACATAACATCCCATGGATGTAT
TTAATAGTTTTATTTTTGGTATTTACTCAGCCTTTTCTTTCTTTTTAAAAAACTTACTGTTGTTGAGTGTTTGTTTGAGGTGATTGTGTTTGTG
TATGTGTGTGAGTGTGGAAGCCAGAGGCTAGCTTTGTGGAGCCAGCTCTCAGCTTCCACCATTAGACAGATGGAGTTGCGCGAACACCCCACGT
AGCTGACTGCACAGCTGTGCTTGTGCGAGTTCCTTGAGTGACTCTGTACTTATACAAGGCCATGTCTGCATGCTAAATGTGGGAAAACTGGTGC
GGCTTTAACCTCAAACCTTTAAGAGTTCCAAACTCAAGCCTTGAAGTTAGAGCGGAGCCTTGAGCTCGGAGTGTGCCTTGTTAGATCCATCAAA
GGTCACTGTTAATGGGTTAGTGTACCCACAATCCTCTAAAAGCTAAGTACAGGAAAATGGGCCACTCTCAGATGCCACTCTCTTGGAAGTCAAG
ATCTACAAATGTCAAGGACATGTATGGAAGAAGTGAAAATGTAGATCCTGAGTCACTCTTCCAACCCTACGCTACATTAGCCAAGCCGCCCTCT
GCGTTTTCTACCTTTGGGCAGTCGCAGAAATAAGATGAATAGAAATAGCTTGTTCTTGCATAGTGGCCATGCAAGGCTGGGGGTTGGGAATATA
CTAAACACTTTATCTGTGTTTATCTCCATCTCGGACTCACACTCAGAGAGACATGCTTGTGCAACTCAGGTCAGTAGTGCAAGCCGAACACTAG
CCTGTGTAACCTGGCTTTTCCACAAGCCCTGCTAGTAACCGCTCTGCTACTGAGTCGACTTGTCCTTCTGTAAAGTGAGTCATAGAGGGACAT
GACATGTGTGCACAGTGCCAGGAGACAAACGGAAGTCCTCTGCAGGGCGATATCATCCCTGATTTTCTCAGCTCCCAAAGTACGAGTTCTATAT
AGGCCAGGGACCATATGTCTGTTAGAGGCAAATCAGATTTTCAGTTGATGAAATTACGGGGTGCTGTGTGGAACTTGTTCCCAGGCACCTTGGC
CCAGTTTTGCAATAGGGGTCACAGTGTCCTCTGAAGCTGGCTCTGGGTATCCAAACAGGCTTCTGGCTCTTGTGTTTTATTTTAGAAATGTTAA
AGTACGCACATAGCCATAGTGACACCCATTTCCATGGGAAAGCCGACATTTTTTAGCCCTTCCCCTCTCCTCCCCGACTGTGGGCTTCACTCAT
ATGTGATTTCTGTGTTTTCCTTCTAGGGGGACTCAGTAGTTTTAAACAGAACCATGGAAACCTCTGTGACAACTCCCTCCAGCTCCAAGAGTGC
CGGGAGGTGGGGGGTGGTGCATCTGCGGCCTCGAGCATGCTACCTCAGTCTGTCCCCACCACCCCTGACATCGAGAACGCAGAGCTAACGCCCA
TCCTGCCCTTCCTGTTCCTCGGCAATGAGCAGGATGCTCAGGACCTAGACACCATGCAGAGGCTCAACATCGGCTATGTCATCAACGTCACCAC
GCACCTTCCTCTGTACCATTATGAGAAAGGCCTCTTCAACTACAAGAGGCTGCCAGCCACAGACAGCAACAAACAGAACCTGCGGCAGTACTTT
GAAGAGGCCTTCGAGTTCATCGGTAACTATCTCTCACAGCAGGGCGGGCGGAGAGCTTCCTCTTGGCTCTCTCTTCCCTCTACTTCTGGTTTTG
ATATAAGGTCTGAAGTGTATTCCTATGTTAGGGAAAACAACAACAACAATAACAACAACAACAACAAAACCTACCTAATGCATAGTCCTTCCTG
TTAGTCTCAGAACTACCTGGATGGGCATAATTGAGATAATAAGCTTTCTGTTGCCATCATTGAAACACCTGAAAGGTTGTCTTAAACGGAGGAA
TTATCTTGACTTATGATCTTGGAGGTTTCATGTCTTGGTGCTTTGATTCTTGGCCTGAGGTGAGACAGAACATGGAAGGGAAGGAGTCAAGGTC
AGCTGGAAAGTTCCTATACTCAGCTTCTCATCAGAGATGCCAACTGTCATCAGTGAGGCCTGTAGAGTACTGGTCTACCTCATGGCCCTCGGCA
GCAGTGTTTCACTCCTCACTTCCACATACCCTGACCCTCCATGGCCATCATCTGGAAGGCACGGTTCCCAAGTAGCTCAGAATAGAGAGCACCA
GAAAGTGTTGAGTTTCATATTAAAAGCTTTGGATGCCTGTGAGCACTGGACAACAGTTTTTGTGACATTTCTAGATTAAAACACATCCCCCAGG
AAGTGTCCCCAGAGGAATGCAGGTCAATGATAAGGTAGAGGAGAAGGGAGTAAAGAGACTTGTCCCTTAGCTTTAATCACCCACACTGGCTGCT
TCCCAGTAGACAAAGAAACAAACAGGATGTAACTATCTCTCTCACCAGTCTGTAGACAAGCTTGCTTTGAGAGACCCAAGAGTAATGCTTCAGG
AAAGTCTCCCTTTGTGAACACTAAATGACCTCCCACACCAAGGCCGTAGGACATGGTGGATAAGAATGAGTGAGGTGCCCACTGCCATGTTCTG
TGTCACCCCATGAAGGCTACTGACTTTTTGGCAAATAGGAAGGGAGGGACCGGGACAGCATTTAGCCTTGAGTGGCACAGTGTCTGACCTACTT
CCTCAGGCAAGCCTCTACCTTCTAACATTTTAGAAACCTTTGGAAACAGTACCACCAGCTGGGGATGAAGCATTTGACACATGAGTCCGTGGGA
CCATTTCACATTCATATTAAAGCAATAATCATCCTCTTTGTCCAACATCTGTCAACTGGAAGTCCCTATCCTCCATCCTCCGTTAACAAAGAC
GCCATGGCGGAGGTTGGCACTTAGACACTGTATGACCAGAAGATTAAAAGGGAGAGTGCAGAACTGCTCAGAGCTATTCCTGCTGCCTAGTCTA
TGTCCTCCAAGCCCTGAAGGAAGCACCAAGTAGAGACGTGATGTCACCTTAATTATTCCTAAACCTTCACATAGCAAATTGGTCAGCTTTATTC
ACCCAGCATAGGGGAAGAGATTTCCATTGGGCACAGTGAGTTATAGTGAGTCACAGTGTATGGCTTATTCACTTGAGGTTGAGGCAAAGGCAGC
ATCGAGAAAGGGCTGGCTCTGAAGAAACTTCTTCAGAAGCAGGCCATGCTGTGGTAAGTTTCTCCGTTCACTTTATCCTTGCAGAGGAAGAATG
GAAGGATGGTGTGAATTGTCTGTCATCTTCCACCCAAGTGATCTCAGTTCTTAAACACTGAGTGACAAGGACTGATGTTAGTGCCCATGAGAAG
AAGGTATATGTTTCCTTTGCCAGTTTGTCTCCTGCTGAGAGAAGCAGGAAAGATCAACCCCCCCCCCCATAGGGCCCATGAAGGAAAATTCTTGC
CAAGTAGGCTCTAACCTCAGAAGGAAGCAATCACCAGCTCAATGCTGAAGTTAGCCTTTGTAGCCTTTGTGGCACTGTGGCTAGACTCAGGATA
ACTAAGACAAGAAGAGCAGGTGGCAGATGTTCAACATCATTTCCAACAAACTCCAGCCTTTATCAGCACAAAGAGGTAGCCCAATGCTCTACAC
ATTAGCACCTCAAGTTGTCACAGGTCTCTGTCTCAGGAAGAAAGCATCCATGGTTGTTGCTCGTTTTGCCAGAAAAAAAATGTCACAAGTTTAG
CAGCCACCAGGGTGATGGGACTTTTTTTTGGCAAGTTGGCAGCTCTGAACTGCCTGTGTTCCTTTCCAGCTTGTCCTTCATAGCTCGGCCATCC
CATGGACTCTCTGGCAGGACAGCCAGAGCGGTCTCTGAACTCAGAAGTAAAGTAACCTTTCCATGTCAGAAATTCTAGTGTCAGGAAGGAACTG

GGGACTGGGAGGAGACACAATGGGGAAACTGTTTGCTGCTTAAGACTGAAGACCTGAGTTTGAATCCCATAGAATCCATGGAAAGTCAGATGCA
AGAGTACACATCTGTAATGCCTTCTCTTCCGTAACAAGACAGGAGGCAGAGCACCCCTAGACACTCACAGGACAGCTAGCTTGGCAATCTACAG
CAGCACAGGAAATCCCATCTCAAAGGAGGTAGTAGGCAAGGCCCCACATTGACCTCCACGTGTGTGTCACGGCATGCCTATACCTGTGAAAACA
GAGGACCTAGTGTTCTTGACTTCTGGCCATGACTCTTTCCCGTGTTTACCATGCGTGCCCCACTGATTAGTTCCTAACACTGGGTACAAAGATG
CCCTGGGTTCTTTATTCATAAAATCTGAGCCAAGCCTTGTGTCCTGAGCAAGAAATGCCCGTCACCAGGGCGATGAAGTTCCTAGTTACTTGAG
GCTGTTATAAAGAAGAGTCCCACCTGCTTAATTTCAGGTGGAGGAAGTTGGGAATTTGTTTTCCATTTAGCAAGTGGCATGGGATAGGCTTGTT
CTAAGAGATTACAGCCACAGTGCTTACATTCCTTCTGGATTATTCAGGCTTACCTCCTCTTTTAGAAGAAAACAAAACTAATGACAAGCAACA
TTTATTTAGCCTGCAGAACAACTCAGGATCACGTGGGTGGGCATGGTTTTGTTCTCTGATTGGATAAACTGAAATTTTATAGTGTGGCTTTCAG
GGGGCACACAACAAGGTTCACAGCATAATAACATTCACCTGAGTTTAATATAAACTAAGCAATGTTCAGGTTTAGAGTTTAACAATGCCAGTTT
AACCCCAGAATCAAATGACTTCATCTCCAAAGATCCAGAGGCTGGCTAGCTAGTGTCCTTTGCATTATCCGAGCAGGAAGACTGAAGTTCTGGG
GGGGTCAAAGGACTCACAAGGTCACTCAGCTAGTGTGTTAGTGGCACAGATGGTCACACTCAGGGTGCACCTCACTCATTCTCACCCACCATGT
CCTACGGCCTTGGTGTGGGAGGTCATTTAGTGTTCACAAAGGGAGACTTTCCTGAAGCATTACTCTTGGGTCTCTCAAAGCAAGCTTGTCTACA
GACTGGTGAGAGAGATAGTTACATCCTGTTTGNNNNNNNNNNNNNNNNNNNNCAGCCAGTGTGGGTGATTAAAGCTAAGGAACAAGTCTCTTTA
CTCCCTTCTCCTCTACCTTATCATTGACCTGCATTCCTCTGGGGACACTTCCCTGGGGGATGTGTTTTAATCTAGAAATGTCACAAAAACTGTT
GTCCAGTGCTCACAGGCATCCAAAGCTTTTAATATGAAACTCAACACTTTCTGGTGCTCTCTATTCTGAGCTACTTGGGAACCGTGCCTTCCAG
ATGATGGCCATGGAGGGTCAGGGTATGTGGAAGTGAGGAGTGAAACACTGCTGCCGAGGGCCATGAGGTAGACCAGTACTCTACAGGCCTCACT
GATGACAGTTGGCATCTCTGATGAGAAGCTGAGTATAGGAACTTTCCAGCTGACCTTTAACCCTTCCCTTCTATGAAGTTTTAGTAAAACGCCA
TGCATTAAATGCTAACTCTTATAGAGAACAATCTGTAGGATAAAGGTGTGTGTGTGTGTGTGTGTGTGTGTCTAGCATGTGGAA
GATATTGCTAATAGCACTGCATGTATCATGTAGTCATATAGCCTGGAAAGTGGTATGAACATTGTTAATCAGAAGACCTTTTTCACATGCCCAT
TTCTGTGCATGGCATAATCTCCATTCCTTCTCTCCTCCTTTCCCTACTTTTTCTTCCCTTTATGCCAGTGTTAAGAAAATAGAAAAGGAACAAG
GTTGTCCAGAAAGAGGTCCGATAACTATGGGGTGCACAGTAGCTTGCTTCTCCTGAGTGTGTCCTGTTGTAGGTATAGCTTCTGCCTTCCCCAT
CTCCTGTGACATGTGCTTTTCCCACCCATGACTTCCTTGCTCTATCTTTCTAAATGTAGAGCTGTAGGGGACTGGGCAGATGGTTCAACAGTGA
AGCACTCATGACACAAGCGTGAGAATCGGGGCTAGGATCCCCACAACTCACGTAAAAGCCACATAGCTATAGCAGCTTGCCTGGAATCCCATGG
CACAAGAGACTGAGATGGGGTGCCCCAGAGCAAGCTGGCTATCCTGACCAGCAGAAATAATGAGCTCCAGATCCAGCAAGAGATGCTCTGTCGT
GTAACATGGAGGGTGATCAAGTAGACACATGATACGGAACATGGTCTTCCACAGACACACGTGAACATGCATCAGCACTTATGCAAACATGCAT
CCATACCCACATGTACATTATACACACACATATACATACACACACATACCCTTCCCCCCTCAAAACAGTAAAGGGCCAATGAGATGGCTCAGTG
AATAAAATAAGGTACTTGCTGCCAAGACTGACACCCTGCATCCAGTTTCTACTAATTCATATTGTGGAAAAACAGAACTGACCCTTACCAGTTG
TCTGCTGACCTCTCTATGCACACAGTGGCATGTGGACCAACCCTGATTTTTCTTTTTTTAATAATTTAAGAAAATGTAGACCAACAGCTCCAAT
TTCTGATTGTGGCCCAACTCTATAGCTCGAGATTTGAACATGTAGAATCCATCATGCTTTGGAACCATTGAAATCCATTCTCTCTATGCAAAAG
GAACCACTGTTGACTCAGGCAGAAGTTAAGCTTCCTCTGTCCCCCTTTCTTACCACCTGTCTCTCTGTCCCACAGAGGAAGCTCACCAGTGTGG
GAAGGGCCTTCTCATCCACTGCCAGGCCGGCGTGTCCCGATCCGCCACCATCGTCATCGCCTACTTGATGAAGCACACACGGATGACCATGACT
GACGCTTACAAATTCGTCAAAGGCAAACGACCAATTATTTCCCCGAACCTCAACTTCATGGGGCAGTTGCTGGAATTTGAGGAAGACCTAAACA
ACGGCGTGACGCCAAGAATCCTTACACCAAAGCTCATGGGCATGGAGACAGTTGTGTGACAACGGGCAGGACGGAAAGGGCTGTGCTCTCTCAG
GAGACGAAAAGGAGGGAAGGTGGATTCTAGCTTGTCGCTCTTCTTTCCTTTCCTTTTCTTTTCTCTTCTCTTCTTTTCTTTTCTTTTTTC
TTCTTTTCTTTCTTTCTTTTCTCTCTTTTTTTTTAAGGTTGGGAGTGTTTGTGAAAGTAAACAAACTTGTCTAAAGACTCTATTTTTAATAAG
TGTAAGAAGACTGTAACTTTTGATGCGAATGAGACCCACTTCTCTTAAACTGGTATTGCAGTTAGGTTAAAGAGGTCTTTTTTGTTTTGTTTTG
TTTTTTTAAGCCAACAAATAAAAATATTATAAAACTTGTTTCTTCCCAGTTTCCCTTGTAAGCTTATTGTAGAGTTTTGAGTAAATAGTCTGTG
CGGGCTCATAGACCGAAGATACCACCCTTCAATTACAAAGAACCAAAAGGAAATGGAAAAGACTCCAGACCTGGAACTGACTGCACAACCATGT
CAAAAGCAAACCCTGCCAAACCGTGCCCAGTTGTGCTCACTGGTGTGAAGAAAGGGCCGGCAAGCTCAGTGGACTCGGCTCGCCTCACACCTTC
TCTGGGGAGACAGGCTAGTGTCGGTTTTGTGTGTTCTATGCTCCGGATATCTTTTCCCCTTCTGTGGGTCTGAGAGAACTTTTTGTTTGTTTGT
TTGTTTGTTTGTTTGGCAGAAGGAAACTGACCATTCTACCATGTGCCTTTGCTGGCACTCGTGCAATAAAAATGGTGTTTGGAGTGTGCAGCTG
AGGGAGAGCTGGCAGCTGAGTGAGGAGTGGCGTTGGAGACAGGCATTCAACAGTACCAGTGGCTTCCCCTCCCTCCTTTCTCCTTCTCCCCCCC
CCCTTTCTTCCTCATCCCCTTTTATTTGTCTTTCTTTTGATTTGATTCTGGTTACAGTGCCATACACCTTGTTACATATGTATATCAGAATGTA
AAAAAACAAAACAAAAAAAAAACAAAAATTTATTTAAAAAATATTTTTCGCAAAAAAAAAATATCCTTGGTGTGTTTTTGTTGATGGTGTAAGA
ATTTATTTTCATTATATAAATGAACCTCGTTTGGGGATGTGTCATTCTTTGTACGTGCCTGTCTTCTCTGGTTAGGCTCATACCTCTCAGCACG
GGTTTGTATAAAGAGATGGGGATGAGAGTGTAAAGCGGGAGGGACCGCTCACGGAGGGAGGCTAAGGATCCCAGCACTGATGCGGTCCTCTGCT
TCCTCCCCATCCTCTTTCTATGAGACAGCAGACTCATGATTGAGCAGCTTCCGCCAGACCTGATAACCAAATCACAGCCAAGCCGAGGATTTAG
AATATACAGTTGTCTCCCTGGTAACTACATGTAAATATCAGTGACAATCTGCCTTGTATGGTTTTCACAGTCCCGTCTCAATTGACACTAGCTC
ACATGACACTTTTTAGGGACATTCACCCTATAGTAACAATAGTACAAGCTGCAAAAGATGTACTCTTCCAGTGTTTTTCCCAGTCAGTAGAAAT
CAGCTCTGTGTGCACACGGACTTTGACAGTGCTGGCTATTCAGCCCACAGACAGTTGGAAGTGGTGTGGGAAGGATATATAATCCTACGGTTTT
GTACGTTTTATTAGAGAATATGTATCTAGAGGGACTTAGCCACTGGGAAGATTTGTAGTGCCCCAAAGTTTGCCTGGTGCGAGTAAGCGCTGAA
GAATTCTGGCATGTCTGGCTCCCAGTGACTACATTTGACATAAATATTTTTGTGAACATTTGCTTACAAATGTTACACCAGAAATATTTTGACA
TTGATTTCTTTATTCAAATAGCTTGCCTGCCAAGAGTCATTTAAATTTTTCTTTCATTAGAAAAGTGGAAATTGAACATAATAGGAACTGAGAG
CTAGCTGGAATTACGTTAGTCTGATATAGAATATGAAGTAGTCAAAAAGTAAATCTCTTTTTTTTGGCATTTCCGTACTGTCAACAGTCTTTTTG
TTTTGTTTTGTTTCTGTCAACTAGAGCAAACTGAAAGAGTCTGATACACAGTGACTTGGGATGCCTGGCAGGCTTGTCATTTTCTAAGTCTAAA
AGTTGGAGTCCTGGTGGGGTATAAAATTCTCTCTCTCTCCCCTCCCTCCTCTTCTTTCTCTTTGCTTTTTTATCATGTCTTCTGCAAACG
AAGGGAAGGACTCAATAGCTACATGGACATGATTTGTGTGTTTGGAAGTTTATGAGCTTAGAGGAGAAGGTCTGCCTTGGGGCAACAGGAATCC
TGCCAACCAGCATACCAAGAATTCTGAGAGGGACTCCAGTCTTTTCTCCTAATCTGCTCTGAGTCACTTCACCTTCGTTTCTTCTTGAGGAATG
TTAATCACTTCATGAACCCACTGGATCAGCAGAGCCAAGGCTCTGGAAAGCAGAGTCCCCAGCATTCTGAGCCTCTCACTAGCTGCCTGCAACC
TTCAGGATGGGGTTGGGAAGTGACTGTGTCTTCTGAGAATGCACAGTCTATCCACCTCAAGAGTCATCCCCAGGGCCTGTGCTGAAGGAATGCA
GTGAGCTGGTGGAATGAATCCAGAGTCTATCTAATGCCCAGTAGAGTAGGCGTCACTGCCTTGGTCTGAACAGAACAACAACTCCAGATTGTCC
ACATTTATTTCAATAGCTGATAGTTGCTTTTCCAGTGTCAATGAGTCTAGACAGCTTAGTTCACAGATGAGCTCCTGCTGGTGACATTTGGACC
AAGGTAGATGGAGTGGAGAGCGAGGACGGAAGCTGACAAGAACGTGTATGCAAAATAATAGAGGAAACATTCTTAGGCTGCAGCCATCACTGAT
TTCTACTGACTGGGAAAAACACTGGAAGAGTACATCTTTTGCAGCTTGGACTATTGTTACTATAGTGTGAATGTCCCTAAAAAGTGTCATGTGA
GCTAGTGTCAATTGAGACGGGACTGTGTGGGCAACAAATGAGAGATGACCCAGAAAAGCTAAAGAGAATAAACAGGGGGAAATGGGAAAGTAGA
GTAACGAGAGAATGAGTACTCGTGTTGAATTGGGATCCAAATCATCTGAAAACTGAGACATAGAGAAGCAGTGTTGATCTCTTTGGGTCTTCTG
AGGGGTAAGCATGGTGAGCCAAACAAAGATCAGACTGTCTTAACTTTCACCTTATTTGAAACCTGTCTCTTGGACATGAACTATAGAGATACAT
GTGGAATTATTTCTAACCTCAAATCTCAGCTGTTCTGGGGCAGGGCACAGTAGAAGATATCGAAGCTCTGGTACTCCAAAGAATGAGGAATAGC
ATATTCTAGAACTATAGTGGTGCCAGTTTTACCCACCTGCCCTTTGGAGGCAGCAGGGACTGACAGCCATATTGTCAGTTGTTCCTGATTTCTG
TCTCTGGTTACCTTCATCAATGGTGTGAAATAACCAGGCTTTGGAAACATTGGAAGACTCACTGGCAGAGTATTGCTTCTGTGTGACATGGCCT
GAAAACTCTGTGTCAATAAGGCCATGGGAGAGAAAAGCTGCACATGAAATAGAGGGGTGTAAAGATGAAATTACAAAGGTGCTGATCATGTGAC
TGGACGGTTGAGGAGGAGAACAGGGGAGAGCGTAAGAGCTGAGCTCATGGCTCCTGCTAAGTCAAGGTAAGTCACAGGGTCAAGGCAAAAGCAT
GCTCACTATAATTCTCCCCATTGCCCTTCTAAAATGGGATGGCTGCTATTTGTCTTTGTTTGTTTGTTTCCCCCACAACTTGATGCAAATTTCC

TCTCAGACTTAGTAACCCAATGTGAAACAGGCAAGGGAAATGTGGGAAAGGCAGTTCATGTCTAGGATGATTTTGTCATCGACGTCATCGCGTT
TGGAACCTCCCTTTCTCACTGTTCATGCTGTTCCTTGTCCTCAGTAAGCACATCCTTCATCATGGTTCTTTGCCTTCTGAATGGCCCAGACCT
TGACAACTGGGCTTGTATTAGATTGTTTTCCACTCATTTTATTATAGTAACAAAGGCAACTACAAAGCACAGCAATCTAAGCGACACTAGCATT
CCAAATGGACTTTTCCTTAACCCAGTACCAGCCCAGGTTACTCGTGACAATCACAACCATGTCAGTCAGTATAGTAAAATATATTTTTGCTTGT
TTTTGAAAAGGTTTATTTCCGTTTTAATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTAGTATGTGTATGTGAGTTCAGGTACCTTCAGA
AGCTAGAAGAATGTGTTCGATGCCATGAAGCTGGAGTAACAGGCAGTTATGAGCTGGCTAATATGGGTGCTGGGAACCAAACTCCAAGAGCGGG
ATATGCTTGAACAGAGGAGCAATGTCACTAGCCTATGTCTGATTCTTAGTGTAAGGCACCCAAGGAAGTTTTAAGTGTCAACTTCTAGCACAAT
GGATCCATATAGCATCCCCCAGTAGAGGTGTCTTTACCTTAGGAACTAAAACTTCTACATTCCAGGGTAGAAAGAACAAGCTGTGTAAGTGGAT
CATTAATGACATTTGTAAGAGACGTTTGTCCTGTTTCTGTCCCTTGATTCCTGCATTTAAGTATTCTTAGATAAGTGTTGGGGGTTGGTCTGGT
GCTGCTATGTATTCAAATGATAAATACTGGCCCCAAGATCTGGTTTATACCCCCCAGCTGATCCTAACATCAAATGATGCTATGAAAACCTTGC
TCCCCAATTTAAAATATTGGTTCAGTAAAAATGGCTACAGTCAGTTACTGAGGAGAATAGAAAGAGGCAGCGTTTCCATTTACTGGGGCTGGGG
GGTAGCAGGTAGGAGGGAAAATGAGTAAGAAAATGAAGATGGAGAAGACAGAAGGTCTCCATTAGATGTGATGGACCAGGAGCAGGTGCCTGAG
TGAATAGTCCCCCTCCCCCGCAAAGGACAGATTGCTGGAGCAGAAGTAACTCAGGAGAGACTCAAACAGGAAGTATTTGGGGAGAGGTGATGGG
GAAGTAGCCAGTCTAGCATTTGAAAAATAGATTAGGGGTAATCCCCCACTAATTGCGCAAGAGCTGATTAAATAAATCCATAGGACTCTGCCTC
AGTTACTGGCAGGCTGAGTGGGTCATATTAATAACTAATAGAGTTTATTAAACTCCATTGACAAGGAGAAACAACAACATATACTGACTGATGA
CTCTGACTTTATTGCTTCTTAGGGGACATTACTCTAGCCCTGTAACATATTTCCATTCGTCCAGCATAGCAGTAGACTTGTTAGAACTCTCTGC
CTTTCTACTGCTTGAAAGTGATAGATAACATGGTAGGACTAATGAACATGAATCTGTTTCCATACACAATTCACCACAAAGGAGGTTCCTTAAA
GGCATAGTGTGGTATGTCGTGGTGGTGTATAAGAAGTACTCTCTGAGTGGCCAATTGCTGGGTTTGGCAAGGTGTTTAGTAGGAAAGACAAACC
CATATGAAAAGTCAGTTTCTATGAAATGAGAAGAAACTTGCCCTCCAAGATAGAAGTGGTTTTGTCATCAGATAGCTGAGTAATTCCCCCAGAG
GGTGGTTTGCTAGTCCAGGAAATGAGTGCTGCCTCATTTGGAGTTGGTTGGACATGTATTAGTTGCTATAACCCAACTAGACTTTGATGAGTAG
ACAATCATGTGCCTAATTGCAACCCCATGTTGACCAGCATGGGGACTTTGATCAGAAGATCATTGATCAATAGAGAAGGGAGGCTGACAGAATG
GCTAAGCTTATCTAGTCTTAAGATACTTCTATCCTAAATCCGTGTCTTGGTGGGCAGGCAACAATCCATCCCACTAGGAGAAACTGATTCCTTG
CATTCGTTTCAAAACTTTCCAATCTGATTTACTCTGCCATGTTTCTTTAAAGTCTTTAATAAGCAATGAAAACTGTCACTGCTGCCCATAAAGC
AATGTAGGTTCATATTGTTGCTCCTCTCTGTGTTTAGAAAAAAAAAAATCAACAATGAGATGCAAAGTTCTGCCTACTGGAATGTCTTTCCTTTA
CCTCTTTTTCTGGATCATCACAGAGTAGAGATACAATGATGTAGCCTTTCACTCTGGATGACAAGCTAGTATGCAAAGCTTTCTTTAAACAGGG
TTAATTTGTTTTTCAATGACTAGTCCCCAAGAAGTTCCCATGACTCTAGAGGTATAGGTTCTAAGACATATTGGAGCAGACAATGGGTCTGTGG
GTCAGTGCTTATTGATTGGCTTGGGCTTGAGAGAGTGTATTCCATGCCCATTGATAATGAAATGATACTGTTCATGCTCTATGTAGATACATGC
TGGGCTCAATAATGCTTAGCTCATAATGGGAAATTTGGGTTATATTGTAACTTTATGGTTCCAGATCAAGCTTCCAGTATCAAATGATATCTAA
AGAAAGGATAGATTTTCTGAAAAAACAAAACAAACCAACCAAACAAAACTACTGCCATAGTATTGCTCCTGAATTCTAAATATCTATTCTGGCA
TCTATTTTGTGATTTGCTTACAGGGAAATGGCTCCATGCAGTATTGCTGTCACACAGAGAGACCTTTAGTGCCACCAGATTTACTGGATCCGGG
TGTTAAAACATCTAACATGGTAACCTTGAGCCGCAATAGAGACTCCATAGTTCTGGATTTTACTCAAAAAAATGATAACCTTTTATCACAGTAA
ATGAATTAATTTTCCTAAATCTAAAAGGGCCCTTATGTTTTCTTCTCTGTGGTAGGAAGTACCACAGATGGTAGAAATTTGTTACTTTGTCCTT
AAAGAAGATGTATTAGCATACTTATTTTAAAAAGATGTATTTATTATATTTATTTATTTTTTTAAAATTTATTTATTTATTATATGTAAGTACA
CTGTAGCTGTCTTCAGACACTCCAGAAGAGGGCGTCAGATCTTGTTACAGATGGTTGTGAGCCACCATGTGGTTGCTGGGATTTGAACTCCGGA
CCTTCGGAAGAGCAGTCGGGTGCTCTTACCCACTGAGCCATCTCACCAGCCCCTTGTTATATTTATATGAGTACACTGTAACTGTTTTCAGACA
CACCAGAAGAGGGCATCAGATCCTATTATAGATGGTTGTGAGCCACCATGTGATTGCTGGGAATTGAACTCAGGACCCCTGGAAGAGCACTCAG
TGCTTTTAGCCATCTCTCTAGCTCCCTACTAGCATTCTTAAAACCACTAGACGTCTATACATTCACTGGTGATAAGCCCCTGAGTGTTTCAGAA
TGTGTTTCTCAACCTTTTCATTACTAAGTAGAAGATAGATAGGTTAAGAGCCAAGCTAAGCTCATTGAGAAAGAGATGACTCAGGTACCCATGG
TCTCTGACAAATCCCTGTGTTATCTCAGCAGCATATCTACATCAGTTATTTCATTGTGCTCATCAGGCACAGTGAGTGCTATCATCCATGCATG
GTGTCTGAGGGGATGGATACACACCTACGATCCCTGTGTACTCAATTATGATACAGGGATATCAAGTTGAAATGGACCTAAGGTAGGATAGTGA
TGGTTACAATATTATTCATTCTGAAGGCAAACTGCTTCTAATGGCCTTAACTTGTGCTTCAGAAACATTTTATGTAAGGGAATAATAAGTAATG
TAGGATTAGAAGGTGATATAGGCTGGCTAGCGAGGCTACTCTAGAGTTGGAGTACAATTACAGTCATAGACAATATGTAGAGGAATGGGAGTAA
CTATATACTGTAAATACAGCCATCTGGATTTCGTCCATGCTCTATAAATAGCTAGTTCCTGGTCTTTTTAAACAGGTATACAACAGCCATAGAG
AGCTAAACATTTGCTTTACCAATAGGTACTTATGGGTTACCAGAGCCATGTTGAGTGGCTCCATTAATCAAACCATGTCTGGTATAACATCTGT
AACAGAAACCAACAACTGAAAGACATCTTTAAAACCTACTGTTCCTTAAATTCATCTCTTTTTTTGTGTAGGACAAATTATTGCAATAAAGGAG
GAACATGTAAGGAATGCCATCTTTGCGTTTTGTCTCAGTTCCTGTCGCTGTCACTAATCTGTTCCATTCTTTAAGAGATCAGCATTGCTCTTGT
GTTTGCTACCTTAGTAACTTGTAGCTTCATAACAAACTATATCAAAACCTAGTGGCATAAAAGAATTCAAATTGTTGGGTTTGTTAATGAATTT
GTTTCAAGTGTGTTCAACAGACAGGTCACTTGAACTATAAACTCAGAACCAGAAGTGAGGCAGCTTGTTGGGGCTGGAGAATGTGTTTCCAAGG
CCTTGCAAGTGCTTTTCTAACTGACTGGGAATTCAGCCAGGGTTGTCCACTAAATACCTTGGATCCTCTCCTCGAGGATGCTTGGGCTTTCTCA
TGGTAGCTGCTTTCCAAGTGACTGAGATGAAAGTTGCAAAGCTTCTAAAATCGTATAAACACGGATGTCTCAGATCACTTCTGCAAAATCCTGT
TACTAAATAATTTACAAGCTCAAGTTCAAGGAGAAAGCAATTGGATTCTACCTCTTAATAGCAAGAATAGCCAAGGATCTGCAAACAT
TCTTATCACACTGTAGCCCCCTTTGCACAACCAAATCAGTATGTGAAAAATAGTTTACAGGAGGCAGGGCTGTTGGAATGACAGTAAGTCAGGC
AATGACATCAGCTTCCTCCAAATATTGCTTCAAATAGTGTTGTAATTCAAAGCTAAAGTTGAACTGTTTTTTTTTTTTTTCTCCTCCCAAACCAA
GCCCTGAGGATAAGGATAAAGATCACAAGGGGAAGGTCGCATCAGCTGATGACTGCCGCCCTCCTGCTTCTGATGGTATGCCAGCTCTCAAGGC
CACACGACTCACAGTCTTGTCTCATCCAAATTGTATTTGGACAGTATACTACATTTTTAAAGTTACTGATCTAAGAGGCATGCGATACTCCATA
ATTCGTGCCCAAATCCCTGGGCATCGTTGTGACCTTTAGCTTGCTATATTTCAACGAGAAACATGAATGCACCCAAAGACAGACAGACAGACAG
ACAAACAAATAAGGAACATTATGTGGATCTGTCCTGTCTCTACATATCATGTGATGCCTAAGGATTTGGGAACCAAAATATAGGTCTGCCATTG
GCTTTTGGATTGATCCCTTGCCGTCACTGGGAGATAACTGTCAGATGTGTCTTCTGGCGGGGGGGAGGGTGTCTCAATTTTTTTTTATTAACCC
ATTGTGTGACAGTTGAATTAAGCTTTAATTTCTCTTTGTCTTGTTTTGTTTTTTGTTTTTGTTTTTCTGAAGCAGATCTCAAGGTAGGGGTTTT
AAAAGAAGCAGCTGATGAAATGATCCAATAAAACTGGCAAGGGAGAGTAGAACTGAGGCCAAGATGGAGGGAAAGGGATGGATAAACAAATTGG
AAAGTAAGATCTTGTTTCCAATGTAGAAAGTGAAAGAATTATCCTAGTGAGGGTGGGAGCTGTTGCATTTGTTCATCAAGGTTCCTTAAGTAGA
CAGATGATGGATGCCAGTCCCAGTACTTCCAGTCTTCTTAGAGGGAAGCCACAGAGGCCAGAGGAAGTCCTCAGGGAATCAGAACCACCCACAC
TTCGTCCTAGGAATCATAAGTGATACAAAAATGAACTGAACATGAGTGTCTGGGCTATAGGCCTTACAGCAAGTAGAGTTCCTCTGAGCCCTTC
ACTTCTGACCACTTTCCCAGTCCCATTGAAAAGGATAAGGAGAGGACTTGTGGGAGGATAAGGATGGGTTGTGTAGGAAACAGATCTTGTCTGC
TTCTTTCCTTTCTTCTTGAACTCAAAGACATGATTTCTTACCAGCTGGACTCTGAACCCTTTATTCTTTCATGTCCTGTCTTTTTCACCCTCTC
ACTTTTCTTTTTTTATTGAAAGAGTTAAACTTGCTGAAAACCCAGTGGGCTTCTGAAGAGTCTCTAGTCTCTAGTGTTGCCTTCCTACGTTCCCA
CCCTAGGCCTCAGATTCTTCAGTTTCTCACTCATCCCACACCCATTCCCTTCGTCTGGCCGGTGTGCTTTCGGTAACTTAGATGTCTGTTTGGC
AATATTGAAAGAGGGTAAATGGGGAAATGGGCTGAAAAAGAATTCATCAGAAAAAAACACTCTAGGTTTGGTACTAAACTCAGACCGAAGTCTT
GCTCATCAGGCTGCTGAGCACTCCACAGGCATGCATATCAGATTGATGATTACTTTAAGAAATGATTAAATTATAATTTCCTCATGACTCA
AGTGTGGATGAATGTGAAGTTTAAAGAGAAGCATGAAAACCCCAGTCAATGATCTTTTCTTCATTATCACGTT

MOUSE SEQUENCE - mRNA
AAAGTAACTCTGTGTTGCTGCTGGGGATCAATGAAGCTGAGTGAATGGGGGCGCACTGCGCGAGCGCATAGCTGGAGCGGGCGCCAGATGGTAG

AGGGCTACGCTTATTGATGAAACTCTTGACTTCTTGAATTGCCAGTTTTCAGCCTCCTCATGCCTCCATCTCCTTTAGACGACAGGGTAGTAGT
GGCACTATCTAGGCCTGTCCGACCTCAGGATCTCAACCTTTGTTTAGACTCAAGCTACCTTGGCTCTGCCAGCCCAGGTAGTGGTAGCCACGCT
CCTGTCCTTGCCGCCGCCGTTGTGACCCTCAAGGCTGCGAATCTGACGTATATGCCCTCATCCAGCGGCTCTGCCCGCTCCCTGAATTGCGGAT
GCAGCAGCACTAGCTGCTGCACTGTGGCAACCTACGACAAGGATCATCAGGCCCAGACTCAAGCCATTGCTGCAGGCACTGCCACCACCGCCAT
AGGAACCTCGACCACCTGCCCTGCTAACCAGATGGTGAACAACAATGAAAACACAGGCTCTGTGTTAAGTCCATCGGGTGGGGTGGGCAGCCCT
GTGTCAGGGACTCCCAAGCAGCTAGCCAGCATCAAGATCATCTACCCCAATGACCTGGCAAAGAAGATGACCAAATGCAGCAAGAGTCACCTGC
CCAGCCAGGGTCCCGTCATCATCGATTGCAGGCCTTTCATGGAGTACAACAAGAGTCACATCCAAGGAGCTGTCCACATTAACTGTGCCGATAA
GATCAGCCGGCGAAGGCTGCAGCAGGGCAAGATCACTGTCTTAGACTTGATTTCCTGTAGGGAAGGCAAAGACTCTTTCAAGAGGATCTTTTCC
AAAGAAATTATAGTTTATGATGAGAATACCAATGAGCCGAGCCGTGTGACACCATCCCAGCCACTTCACATAGTCCTCGAGTCCCTGAAGAGAG
AAGGCAAAGAACCCCTGGTATTGAAAGGGGGACTCAGTAGTTTTAAACAGAACCATGGAAACCTCTGTGACAACTCCCTCCAGCTCCAAGAGTG
CCGGGAGGTGGGGGGTGGTGCATCTGCGGCCTCGAGCATGCTACCTCAGTCTGTCCCCACCACCCCTGACATCGAGAACGCAGAGCTAACGCCC
ATCCTGCCCTTCCTGTTCCTCGGCAATGAGCAGGATGCTCAGGACCTAGACACCATGCAGAGGCTCAACATCGGCTATGTCATCAACGTCACCA
CGCACCTTCCTCTGTACCATTATGAGAAAGGCCTCTTCAACTACAAGAGGCTGCCAGCCACAGACAGCAACAAACAGAACCTGCGGCGGTACTT
TGAAGAGGCCTTCGAGTTCATCGAGGAAGCTCACCAGTGTGGGAAGGGCCTTCTCATCCACTGCCAGGCCGGCGTGTCCCGATCCGCCACCATC
GTCATCGCCTACTTGATGAAGCACACACGGATGACCATGACTGACGCTTACAAATTCGTCAAAGGCAAACGACCAATTATTTCCCCGAACCTCA
ACTTCATGGGGCAGTTGCTGGAATTTGAGGAAGACCTAAACAACGGCGTGACGCCAAGAATCCTTACACCAAAGCTCATGGGCATGGAGACAGT
TGTGTGACAACGGGCAGGACGGAAAGGGCTGTGCTCTCTCAGGAGACGAAAAGGAGGGAAGGTGGATTCTAGCTTGTCGCTCTTCTTTCCTTTC
CTTTTCTTTTCTCTTCTCTTCTTTTCTTTTCTTTTCTTTTTCTTCTTTTCTTTCTCTCTTTTTTTTTAAGGTTGGGAGTGTTTG
TGAAAGTAAACAAACTTGTCTAAAGACTCTATTTTTAATAAGTGTAAGAAGACTGTAACTTTTGATGCGAATGAGACCCACTTCTCTTAAACTG
GTATTGCAGTTAGGTTAAAGAGGTCTTTTTTGTTTTGTTTTGTTTTTTTAAGCCAACAAATAAAAATATTATAAAACTTAAAAAAAAAAAAAAA
AAA

MOUSE SEQUENCE - CODING
ATGCCTCCATCTCCTTTAGACGACAGGGTAGTAGTGGCACTATCTAGGCCTGTCCGACCTCAGGATCTCAACCTTTGTTTAGACTCAAGCTACC
TTGGCTCTGCCAGCCCAGGTAGTGGTAGCCACGCTCCTGTCCTTGCCGCCGCCGTTGTGACCCTCAAGGCTGCGAATCTGACGTATATGCCCTC
ATCCAGCGGCTCTGCCCGCTCCCTGAATTGCGGATGCAGCAGCACTAGCTGCTGCACTGTGGCAACCTACGACAAGGATCATCAGGCCCAGACT
CAAGCCATTGCTGCAGGCACTGCCACCACCGCCATAGGAACCTCGACCACCTGCCCTGCTAACCAGATGGTGAACAACAATGAAAACACAGGCT
CTGTGTTAAGTCCATCGGGTGGGGTGGGCAGCCCTGTGTCAGGGACTCCCAAGCAGCTAGCCAGCATCAAGATCATCTACCCCAATGACCTGGC
AAAGAAGATGACCAAATGCAGCAAGAGTCACCTGCCCAGCCAGGGTCCCGTCATCATCGATTGCAGGCCTTTCATGGAGTACAACAAGAGTCAC
ATCCAAGGAGCTGTCCACATTAACTGTGCCGATAAGATCAGCCGGCGAAGGCTGCAGCAGGGCAAGATCACTGTCTTAGACTTGATTTCCTGTA
GGGAAGGCAAAGACTCTTTCAAGAGGATCTTTTCCAAAGAAATTATAGTTTATGATGAGAATACCAATGAGCCGAGCCGTGTGACACCATCCCA
GCCACTTCACATAGTCCTCGAGTCCCTGAAGAGAGAAGGCAAAGAACCCCTGGTATTGAAAGGGGGACTCAGTAGTTTTAAACAGAACCATGGA
AACCTCTGTGACAACTCCCTCCAGCTCCAAGAGTGCCGGGAGGTGGGGGGTGGTGCATCTGCGGCCTCGAGCATGCTACCTCAGTCTGTCCCCA
CCACCCCTGACATCGAGAACGCAGAGCTAACGCCCATCCTGCCCTTCCTGTTCCTCGGCAATGAGCAGGATGCTCAGGACCTAGACACCATGCA
GAGGCTCAACATCGGCTATGTCATCAACGTCACCACGCACCTTCCTCTGTACCATTATGAGAAAGGCCTCTTCAACTACAAGAGGCTGCCAGCC
ACAGACAGCAACAAACAGAACCTGCGGCGGTACTTTGAAGAGGCCTTCGAGTTCATCGAGGAAGCTCACCAGTGTGGGAAGGGCCTTCTCATCC
ACTGCCAGGCCGGCGTGTCCCGATCCGCCACCATCGTCATCGCCTACTTGATGAAGCACACACGGATGACCATGACTGACGCTTACAAATTCGT
CAAAGGCAAACGACCAATTATTTCCCCGAACCTCAACTTCATGGGGCAGTTGCTGGAATTTGAGGAAGACCTAAACAACGGCGTGACGCCAAGA
ATCCTTACACCAAAGCTCATGGGCATGGAGACAGTTGTGTGA

HUMAN SEQUENCE - GENOMIC
TACATTTTTAGTAATACAGGACAGGATTGCAGGACACTTGGTACAATTCTCATCTTTTAGGCTATGCTTTGCTCTGTCCACCAAAGGGGAAAAA
GGGTGTATTAGGATTCTCTAGAGAAACAGAACCAACAGGATGTGTATGTGTATAAATGGAGATTTATTCTAAGGAATTGGCTCATGCAATATGG
AGGCTGGCAAGTTCAAAATCTGCAGGGTGGGCAAATGGGCTGGAGAGCCAGGAAAGATCCAATGTTGCAGTTAAAGTCTGAAGGCTGACTGGCA
GAATTCCCATTGCTCAGGGGAAGTCAGTCTTTTGTTCCATTCAGGCCTTCCACTGACTGGATGAGGCCCACCCAAATTATGGGGGGTAATCTGC
TTTACTTAAAGTCCACCCCTTTACATGTTAATCTCATTCAAAAACACCCTCGTACAAACAAACACCTTCACAGAAACAAGCAGAATAACACTTG
ACCACATATCCCATGATCCAGTCACGTTGGCCACAGAATTAACCATCAGAAAGGAAGATTGCACTAGCTTAAACATACAAAGGGGAAGTTCTGC
ATCCACACAGAGAGAGACACAAACTACTCCTTATACCATGGGACTAGCGGAACTTGTCTTTGAGGTTCTCCTGGGTTTAAAAAGAGGGGCCCCA
GGTGTGTGCTTGACATCCCTCAACTGTACAAAAGCAGTTGGCGCCTGTCTAAGCCAGTGCAGCCTTCCTTAACATGCACCAACACAGACAGCCC
TATTCTTTCTTTTCTATCCCAGGAGGTGGTGGGGCCCAGTGTCTGCTGAAGTCAATCAGAATGAGTTTTAGTAATATCACATTTTTTTTTTTTG
CCAGCAAACATTCAACAACCCCTCTGTAACCAGATCCTATTCTATTTAATAGCTTGTGAAATTGTAAATTTCTGGAAATAGCAAAATACCCTCT
ACTTGTCTGCTCTTTGCCTTCTTTCTGCCCAAAGTTACCCTTCCCAACTCTGGAGTCAAAATACAAACTAAATTTTAAAACAAAAGCAAACAAA
ACAAAACAAAAAACCCAGTCAGCCCACTGTTCTTTTTGCCTGCCTGCCTTACTTCTTTCAGTCCTTCTTTAACATGCTGGGCAAGTTTGATGAG
TTAAAATGTCTGCCTTTAACTCCTCTAATCCATATTCGGGGGGACTCATGTATTACATGAAGATTAGGACTGTGTTGAAAAGGGAGTCCAAATC
TATTGGCATTTCTATTCTGCAGAATATAGAAAAGACACTTCATTGGACTGTTTGCTATTATTAATCCAATTTAAGGTTTAGAATGGCGGTTCAT
AGAGTTGCTTCAGTTTTCCTAATTACTGGGAATAGGAATTGCAAACTGAAGCATGAAGGAGCTAAGAGTCCTTGTGAATTATACATCTTAGTTT
ACTACTGTAGAAAAATGATACAGTTTTTCTGTCACCATACCTGCGATGGTGAGCACTGGCAGATGAATGAAGCACAGCGCCAGCTCTCTGGCTA
CTTTCTGATCCAATCTATTTATCTTTCTTGCATTCTAAATTTTTGTGACCTGCAAGTTAATGGCAAAAATAACATTTGCTTCTTTTCTAACATT
TCTACTTGAACTAAAATTTAGCCAGTTCCAATAAGGATTTTTCTCTTACCTGTTGAATAACTCGAATTGACTAGACCTGACCTGATTTGGATT
AATTTGAATACCCCTACTATATGCCTGAGTGGTACTGTGGGCTCAGTATTTAGCATAGCATAGACACTTAAATTCACCCAGAAAGGGTTTCATC
CACCATGTTTGTACATTCTTGGCCCTTGCTGGTCATGAGTATAATTACAAAGTGTTTGCTTTATTTACCAGCTAGACCAGGGAAAACACTGAAC
CCTCCCCCTGGGTGTGAAATCCAGGTGGACTTGGGCCCATTCACAGAGCATTAGAAACAGGACTTCTCGGGGTGCTGCTCCCCACCTAACCCAG
AATCAGTAGTGGCATTTCCTTTCAGAGCACAACCACCAGGAAGACGAAGAACTCACTGATGTCCAGGCTCAGGTCCTTGATTAAATGCCTTTCT
GAAGAAAGCTATTTATTGGCATCAGTCACATGCTAGAGAAAATAAACACTGGACAATCCGTCTGTCAGGGAGATAAACACCAGGAAATGCATGC
CTTTGAGAATTACAAGAAGGAAGATGTTGAACGAGAAAAGGAAGATACCTTCATCCTCCTGAAACTCAGTGAACAAGAAGAGGAATTTTTTCTA
AACATTGAAGACAATCATAATTGCAAAGAGCATTGACCAAAACAAAAATCAAGTACGGTATGGAGTATAATGAGATGGATTATAATGAGAAAGA
TGCTGATGTTTTCTAAATTCTATGGGAAAGAAATGGAGTTAAACTGTAAAGAGGGAAATATGATCACAACAAAACAAAACAAGTGGTGTGTAAA
CAACGTAGCTCCCCAGAGATAGACACTTGGTTAATATCTGCATAAATAATTCAAAAGAGTAGTGAATTTAGGGACTTTGGAGGTTTCTAAGTTT
CCAGCTATTACAGAAGGCCAAACCAGTAGCTAGAAAGCTATCATCAGATGGACCAGGGTATGCCTCTAGAAAAATGAATAATTCAAAGGTACGT
TCTTGCTACAACCTGAATATTTGTGTCCCCCCAAAATTCATATGTTGAAATCCTAAGGCCCAAGGTGATCATGGGGGCAGAACCCTCATGAATG
GGATTAGTGCTCTTATAAAAGAGGCCCTAGAGAGAACCCTCACACTTTCCACCATGTGAGGACACAGCCAGAAGTTAGTAGTCTGTAACCCACA
AGAGAGTCCTTATCAGAACCTGATCATGCTGGCACCTTGATCTTGGACTTTCAGCCTCCAGAACTGTGAGAAATAAATTTCTGTTGTTCGTAAG
GCATTCAGTTTATGATATTTTGTTATAGCAGTCTGAATGGACAAAGACAGTATGTTTAAAAAACATTCTCAGTTCATTCATTCATTCAGTCACT

SAGRES DISCOVERY 02-32

CACTCACTGAACCGAAGCTTAATGAGTTCAAACTACGTGCTAGCTCCCGGGCCACCGGCTAGGGATGGGACGGCAAACAAGACATGGTTTTTCT
AATAGAAGTGTCATAGGCTCTTCCTTGAATTTACCAGTCCAATCCGCAGTAGCAACCAAGCCATTGACACAATTTAGGGCAATATTTGAGACTG
TTCTGGAAATAAAGTGGAGGTCTGGATCCATTCCCCAATGTGGAGGCTGCGGTTGTAAGAGTGAGACCACATGGAGATTCACGTCATGATGGAC
TTAGAAAAGTTCAGAAGAAAACAAAAGAAAAAAACAGCAAATTCTTATGAACAGGCAATTAAAAATATACTGCAGTCTGGAGACTGAGGGGGAC
ATGATAGAAGTTTATAAAATCACAACAAGAGTGAATGAAATAACACAAAATGGTTAAAAGCAGATGCTCTGGTGCCAGATTGTCTGGGTTTAAG
TGTTGACTCTGCTGCTTTCTAGTTTTGTGACCTTGGGCAAATTATTTACCCCATCTGTATTTCTGTTTTCTCATCTTTAAATTAAGCTAATAAA
AAAGTACTTACTTATAGATCGATGTGGCTGTGAGGATTTAAGTGAGTTAATGCATGTAAATCACTTACAGCAGTGCTTAGCACAGAACAAAACA
CTTAGTAATATGTTACCTATGATTATTTTTTCCCAAATTCTAGATCTTTAAAATCAGTTCAGTTAATATTCAATTGTAAAGATAAAGTACGTTA
TGATGCACTTTGTTGTCTAAAGGAACTTCTTATATGTAGAAGTGGTACAGTCTGAACCTACTAGGAGATGCTGAGAACGTTAGATTAATTCTTT
AGTGTTAGACCTGAAACAAGTCTTGAGGGGGTTTATGAATGCTTTGCGTGCATGTTTACCTTATAACTTTGCATCCTTCAGTAACACAGTTGGA
CCCAGCCTCCTGGGGTTGAGAAACTGGCGCTGACAGCATATCGTAATGATAAAACATGATTGCTCAGTTTAGTGAAGGGGAAAATGTTAACAGT
CTTTGATGTAGCAACACATAATAATAACAGGCCATCCGCCACAGAGGAGGGCATTGTTGGAGACCCAAGGCCAGTGAATGTTTTGTGTGTGTTA
TTTTCATAAAGAAAATAAGTTTACATCCATGGTCCACACACTTGGGCCTGAGGCAAAATCCTCTTCTGAGAAAGAGCAGCAGATGTTTGTGGGG
TTACAAATAGGGGAGCAGTGAAGGGGAAGAAAAAACTGAAAGGGATCTGCTTGCCTAAATGAAGACAGGGAGCATATTAATTCCCCTAACCAGC
CAGTCACCTCTGTGTGATCAGTAGAGGCCAGAGTGAACCTTGAAAAGAGGTCTGAGATCAATCATGCTTTGGCCATGCCATCCAGTGAAATTGC
TTTACAGGAAAAAAAAAAAAAAAAAAGAGAGAGAAACAGGATTAAAAAACAAAACAGAGGATGGGCGTGGTGGCTCACGCCTGTAATCCCAGCAC
TTTGGGAGGCCGAGGTGGGTGGATCATGGGGTCAGGAGTTCAAGACTAGCCTGACCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAG
TTAGCTAGGCGTGATGGTGCATGCCTTCTAGTCCCAGCTACTCAGGAGGCTAAGGCAGAATTGCTTGATCTCAGGAGGCGTGGGTTGCAGTGAG
CCAAGATCATGCCACTGCACTCCAGCCTGGGCGGCAGAGTAAGACTCCATCTCAAAAACAAAAAAAACAAAAAACAAACAAACAAAAAAACCAG
AACCACCACAACAAAAAAATCCCAACCAGGATCCTTTCTTTAACTGAAATTTTACTTTGGAAGCCCATGAATAAGACATATATCTATCCATAGC
TATATCTGCATCTGTCAAGTGTGAAGGTGTGGAGGACAAGATTGTGGTCACAGAGGCTCCACCAGTTCACCCCTGCTCCCATTTCTATTGCCTC
CCACTTGCACTGATGTCTTTTACCCTTTGTATATAAAGTTTTCAAGATCCAATGTGTATTTTAATCTTATGGCACATCTTAATTCAGACTAGCC
ACACTTCGAGTGGCCGACACATGTGTCAAATGACCACCACACTGGAAAATACAGATATAGAGCCTTAAATGGCTCAGAGCCTTTTCCTGAGTCA
CAAGCACACCTGCCCATGAATTTTGTAGGAAAGAACTGCAGGCCTCTTGTGTCCAAACTCATAGATAGTGGGACAAGCACATGGCCCTGCCTCT
GTTTCCATCATTACAGTAGCCACTGTCTTAGTCCAGTTGTGCCGCTATAACAAAATACCTGAGACTGGGGAAGTTGTAAGGAACAGAAATTTAT
TGCTCACATGAGTTCTGGAGGCTGGGAAGTCCAAGATCAAGGTGCCATCTGCAGGTTCACTGCCTGGTGAGGGTCCAATCTCTGATTTCAAGAT
AGCACCTTGTTGCTGTGTCCCCACAGGGGAATGGAAGAAAACTAACTCACTCCCTGAAGCCCTTTTGTAATGGCCCTAATCCCTTCCATGAGGC
CTCTGCCCTCATGACTTAACCACCTCCAAAAGGCCTCATCTCTTAATAGTGTCACACTGGTGATTAAGTTTCAACATGTATTTTGGGGGAACAT
TCAAACCATAGCAGCTCCTTCCTTCAGGGAACACTTCTTATCAGCCCTTCCCTAGGCCTGGAGAGTGTTGCTGGATGTTTTGCCAGGCTGGTCT
CAATGACCTCAAACACTTACCATGCCACTTTCCTATTCCTCAGCTTATTCCCCACTCCTTCTGGTATAATATCATCTTTATCCTGGATGATTTT
TAAGTTTTCTCCAAGCCATTCTCTGCCTTAATTCTAGTACCTCCAGAAATCTATCTTGACCTTGAGGATTATTTTGAAGGCCCCACCTTCTGCC
ATTACCCCACACACTTAACCATTTAAGTGCACAAAAAAGAAGTAATTTAATTAATACATTTGCTAAATACTATCCATATTATATCTTATATGTT
GGCCTAAGTTATTGTCATCTTTTGACTTTAATACATAGTACTTCAGCTGAAACAGTCAATATTTTTCTTATGATGTTTGTGGGAACAAAGATAT
GCTCAATACAATCATGTTACAACATCCAGACTGAATGAAGATGCTTCACTCTTTCTTTGGGACTGAAACTAACATTAACGCTCTGCTGCTGGTT
ATTGATATACAGATCAGATTTGTAGCCATTGGCTGACTAGCATTACGAATTTAAGTCTCAGGGCATTATATTTCAGTGTAGTATTTTCACATTT
ATCGCTCAAAAACAGGAATAAAATCACTTCTTCTTGTCCAAAAGATGTTCTGAAGAGTAGTGAATGGAAAAAAATTCCATCTATAATCTGATTT
TTTTCACCAGTCTTATGACTTGAATATAAACTTAGAGATGCCTAACTTAAAAAATAACTACAACTTTGCTTATATTCATAATCTGGTAATTATT
CCACATTTCAGGCTTGATATATGATAAGGAATTTTGCCATCTTTCCCAATGTTTCAGCCTGGATGGCTTAGTTCTCAACTAAATTATAA
TAATCTACTACTTTGAAACTATAATAAAACAATCATCTCATTACAAGAGTTACATTTCTTCTTGAAATTACTTTTCCATTTTGGGCCTTGTGGG
AAAAGCTGTTAAGAACTCTTCTGCAATTGTATAAATCTATACTTTGGGCTTAGATGTTGAGGCATTAGAAATGAATTCATCATTTATAGATCAT
ATATACCTTTAAAGATAGGCACCTTATTTCCTAAAGCAAGTAAATTAATTTTTTTTTCCACTGAATGCCTTTTATCAGCAGGGGATCTTTTTTC
CCCCCTGAGCGCTTGAATGAGTTCCCTTTTTCTTCTGAGTTGGGGTATTACCATTCTATGGATAAATGAAGACAGAGACTGGATGAACAGATAT
AACAGATAGAGTCAGAATCAGAACTTAGAACTCTCAAACTCTGAGTTAATGAAAAATTTTCCCATAATTGTCTATGTTTAGGGAAAGGTAAGCT
TTCAGCCTTCCAGCTCCAGATAGATCAAGGGTAGAACCTCTGGGAAGTTCTTTTCTGATTTGTATAGAAATTACCCAGAACCCAAGTTTCCTGA
CCATAACCTGTTGATCTTCAAACATTTAAGAACCAAATGGTGTGCCCTAAGCACTCTGCTATTATCAGGAGGGTGAATTGACGTGTGTGTTGGT
GTGTGGATGGAGAGAGGTGTAAACCAAAAATAAAATTCTAAGCACCCCCCACGCCCCACCCCCTGCCCACCCCGCCTTCCCAGGCAACCCTCTG
AACGGACTAATTTGTCAACCAGGGCTCTTGTAAAATTTATCCTGAAAGACTGGTTCAGGCCATGAAGGGATGTGAGGGTGGGACGTGCCCCATT
CATTATATATCAACCAACGGACTAATTTCTCAACCCAGGCTCCTGTAAAATTTATCCTGAAAGACTGGTTCAGGCCATGAGGGGAAGTGAGGGT
GGGATGAGCCCTGTTATATATCAACATGGAGTTCAAGTCTGATAAGAAACATTTTACAACCTATTCTCTCTGAACCTGCTGCCTGGAGACTTCA
TCTGCATAATAAAACTTTGGTCCCCACAAGCTCTTATCTTAACCCATACGTTCCTTTCTTTGATCTCAGGTCTTTAGACAAACTCAACCAATTG
TCAACCAGAAAATGTTTAAATTTACCTATAGCCTGAAAGCCCACCCGCTCCTTAGAGTTGTCCAGCCTTTTTGGACCAAACCAATGTATTTCTT
AAATGTATTTGATTGATGTCTCATGCCTCCCTAAAATGTATAAAACCAAGCTGGACCCCAACCACCTTGGGCACGTGCTCAGGACCTCCTGAGG
GCTGTGTCACAGGCCATGGTCACTCATATTTGGCTCAGAATAAATCTCTTCAAATATTTTACAGAGTTTGACTATTTTCGTCAACAGACGTTAC
ACAAAATCCTCTCCTATGTAAGACTATCGGATGTGTACGTGATGCCCGTCGTAACACTGGTGTGAAAAGCTGGACTGGGGGGTATGTGCCTGCA
TGTAAGTGGAGGTGCCCAAGGGGATTTCTCTTCACAGCTCATTGAGCATAGCTGACTTGCTAGCTATGGTCTGACACCTCCTGATTTCAGATCT
GCCCTGAAAACAATTACATGAATATGCCCCTGCTACTCAGTATACTACTAGGCTTGGAGTCTGAAGTAGACCTCCAAACCCCATCCAATCAGGT
AAGGGAGAAAAACGATAGCCCAACATTCCCTAGTGCTCATAATGTATTATTCCATTATTTCACTTTTTATCCCTTCTCTCACAGATAAGAAAAG
AAAAAGCTCTACTTCTTTAGGGTTCTTGGACGTAGACTCTCCACAGTTCATCTGGGGTTGTTCATCTCCACTTCTTTTTGTATCCCAGGGCAAC
TTTCCTGCAGTTTCCCTAATGAGAATATTTTCCGGACTAGGCAAGGGGCGGCTTGCCCCGCCCCCTACTCTTCTCCCTGAACAGGNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNGGAGAGGCGGCGTCACCTCCTCCACGCTCCTCCGGCCCCATTCAATCTAGCTATTTGCACTCGGCTCTGGCTCTTTTCCGCC
AGCTGCGGCTGTTCCAGAAGCGCCGGGCTGCCGGTCCTGGCCTCGGCAGGGGCCGTGCGGGACCGAGGGGTGGCGGCCGAGGCATGTGGGGCGG
GTGGGTTGCGCGCTGCTGGCACGGCGCGGGGACCCAGCGCGCCAGGCGGGAAAGGGGGCGGCGGGCGGGGACCCAGACCCGGAGGGGCAG
CGGGCGCGTAGCGGGCCCCAGGACGCCCGGCCAGGGGATTGGCCTCTGCACCGCTGCTCAGGGCGCGTCCCTTGCCGCCTCTGGCGTCGACTCA
AGCCTCCTCCTCCGAGCAGCCCTCAGTGGCGCCGCCTTAGTGCTCTGGGTCGAGCCCCGGGAGGGTTAGCCTGGGGACGGCAGGGGCGTGACCG
GGGCGCGGAAGTAGGTGAGCAGCAGGGCGGCGCGGCGGTCAGGCCGGGACAGCCAGAGGGGCAGCGACATCTGCGGGCGGGCGCTTCCGGG
CGGAGCAGGGCCCTCCGGAGGACGCAGGCCGCGTCGAGGCTGAAGGGCCTCCCTGTCCGGGACGGTCAGCTGCCAAGTTCGGGCCCTTAGCGCG
TGGCCCCGGGCCGCGGCTCGGAGCGGAAGCGTCGCCCCTGGCTGCGCGCTCATGCTGGTCCTAGCGCAGAAGACCCGGCGAGGTCCGCGAATTT
TGGCTTAGCGTTTGTCAAGTCACCTCGAGCGACTCGGAGAGAACCCGGCTTTCCCACTAGGGACGGTGATCGCAGTCTCTTTCCTTTAGAAAGT
TACTCCGATACTTTTGATCATCTGTCCATAGTAAGGAGGAAAAATAGCGTGGTTTGTCCCCGGGTGAGGGAGTGTTGGAGGATCCCGTCCAGTG
GGAAGAGCCAGTTTTAGCGGAGCAGCGCGTCCAGCCCGCTGACACTTCAGCCTGGTAAAGGGTTAACTGCATCCTGCCGGTTCGGTTTACATGT
AAATAGAGAGCAGCTGCTCCGCGCGGCCCCGGCTGGCTCTTTAAGTTTTTGATTGGTTGCCAATGACATCACCGCCCGTGTTTTAACACCGAG
GACCCAGAGCAGCTTCGGATAAACCCTCCTTAAAGAGATGAGGCCACGCCTTCTTACCCGCCCCCTAGGCTGCCCATTGGTCGCGGGGCTCTGT

GAGGTAGCGGTCGGCTTTCTCCGGATTCTTATTGGCCCAACCCGCCGTCGGTCGGCGGCGAGTCCGCCCCCTCAGAACCTTACATTTACAGTGT
AGCAAAAGAGAAAGTAACTATGTTGCTGCTGGAGATCAATGAAGCCGAGTGAATGGGGGCTGAATGTGCGAGTCCATAGCTGAAGAGGAGCGCC
AGATGGTGGAGGAATACACTTATTTATGAAGTAAGTGGAAGTCACCGCGACTACTCCTGAGAGCCCGGGACTGGAGGTGGAGGATTGTAAGGCG
GTGCTTGTGTGAGTGTGAGTGTTTGTGTGTGTGTATCTGTGTGTGTGAGAGAGAGAGACAGAGACAGAAAGATAGAGATGCGATGCTG
ACGGAGGAGCTACAGCAGGTAGGGTTATAAGGTTCCGGCCGTTGGCTCCTGCTACCCTGTGCGTTTACTCCCTGCAGTCTACTTGGATTTGGGG
CGAAGAAAAAATGAGGTTTGTTGGGATGCTTTGCGGCAGTTTTAAATGCTCGGGGCTCATTAGTGCGCTGTGTGCCGAGGAGTGAAGCGGGGGG
CGGGGGGATGTTAAGTGCTCCAGGAATGGGGAAGAAGCATTCTCTAACCACTTAATTTTCTCTCCAGCTCTTGCCTAGTGGTGGAAGGGAGAGG
GGATAGCTCAGTATTTCTCTGGGAGATTTTCTGGGCCAGACTGGATGGTTTCACGGGCAGTATGTACGCCCGACCCTCTGCTGCAGGGATGCAG
GTCTCTCTATACACTCCGTGTGTGTGTGTGAGCCTTGAACTCTGTGTGGAGGTGGGGGTCCCAGCGCGTGTCTCTGTGAACACGCTTATGCG
TCCCTCTCAGAAGAAATGGTATGTTGATCCTGGACGTGTCCTACCAGGTAACACAATAGCAAAGACTTTCACCGCTTGGTCCAACCGGGAAACA
GTTATAGCTTCTGGAATAGAACTCGCTCTTCAGAAAAAATACTACGCAAGGGAAGGGGGGTTGACTCCTTCGCTCCCATCCAAAGGTGGGTGAG
AGAAACCCGAGTCGTTGGAGATCTGCCGACGTGATGGGTGCGTGCCCCGTGTGCGCGCGTGAGTGTGGATTCCGCCTGTGACACTTTGGTTCTG
TGTCAGAGAATGGTGACGGTCGTGTGTAGACGGATGAGAATGGTGACGGTCGTGTGTAGACGGATGATAGATGGCATTTTTCCTGATAGCTCTT
AAAGTTCGTTTAGGTGAGCGTCTCTTGGCGTGGGGTTTGGCGTCTTTGCTATGTGCATGTCTAATAGAAGAAGAAGAGTTAGCAAGCCTGAGTT
GTAGAGTGCCCCTGTGCCTACAGGAGGAAGGAGCTGTCTTTTTGCAGACACTCTGAAATCAGAGATAGATCCGGTGGGCAACAATTCACTGTCC
CTTTCAACGAGTACAGGCTAATTGGGAGGTCCTCTTTACGGAATGAGTACTCTTGAAGGGGGGATATCTGTATGGGATTGAAACCTTATACAAC
GTGGCTGCCTCCCATTGAGAGAAGCTCTAGGATGCACAGTCTGTGCCAGCCAGGGAGATGAAGAGGGGAGGAGAGCCCAAGTTGTCCTTTCCAG
GCAGGAATGAGGGCGGGGGCAGGTGAGAGAGCAAAGGGTGAGGGATTTGCCGGGGCTGGGGTTTCCAGGTTTCCAGATCTGGCTCCATGGCTTG
AGATTTCGTTTTAGGACACCAGTTAGTAGTGAAAAGGGGAAATGCAGATTAATTTATAAGAGGCCAAAAGACAACATGTGAGGTTTTAGTATGA
CTATGTTGTGCTTTTCAAAGGACCCCAATAGAGAATGGAAGGCAAGAATAGCTCCAAGTTAAAGAGATTCACTTAAGGGGATTTGCAGAAAGTT
GACATCCACCCTGATGTATATTTAGCTGCTGTACCTTTCTGTGAACCATGCCAGTGCTCTTGGTTACCCCTTTGCCTTTGCAGCGAGTGAGGGA
ATTAAATGGCAAGCATGCAAGGGTGGACAAATGGGTCTTTCTCAGATGTTTGCAGTGTACTTCTGCCCGAGAGCTGAGGTTCAGAATAGATGCC
TCTTAAGAGCCTCCCTTCTGTCTTCAGCTTTTCTAATTATTTGTGCTTATACCTTCTCTACAGCTGAACTTTTATGTAGGTCCAGGAAAGGTTG
TTCATTAACATTTACAACATTACATCCAAATTTAACCTTAGACTTAGCAACCAAATTGATTGGAGCCCTCAGGTTTGCATCCTCTTTGAATACA
TAAAAATGAATTTCAAGTTTTGATAATGGTATGATAAAGGGCAATTAGGACGACTTTGCTCAGAGGGATGCAAAGGTCTTTCCCAGGGATTGGA
TGAGACTGCCTTTTGTGTCACGTGACTTTATTCTTTCTTTCCCCCTTCCCCTTCTTTACAGACTGTCTTGAGTTCTTCTTGAATTGCCAGTTTT
CAGCCTCCTCATGCCTCCGTCTCCTTTAGACGACAGGGTAGTAGTGGCACTATCTAGGCCCGTCCGACCTCAGGATCTCAACCTTTGTTTAGAC
TCTAGTTACCTTGGCTCTGCCAACCCAGGCAGTAACAGCCACCCTCCTGTCATCGCCACCACCGTTGTGTCCCTCAAGGCTGCGAATCTGACGT
ATATGCCCTCATCCAGCGGCTCTGCCCGCTCGCTGAATTGTGGATCAGCAGTCCAGCTGCTGCACTGTGGCAACCTACGACAAGGACAATCA
GGCCCAGACCCAAGCCATTGCCGCTGGCACCACCACCACTGCCATCGGAACCTCTACCACCTGCCCTGCTAACCAGATGGTCAACAATAATGAG
AATACAGGCTCTCTAAGTCCATCAAGTGGGGTGGGCAGCCCTGTGTCAGGGACCCCCAAGCAGCTAGCCAGCATCAAAATAATCTACCCCAATG
ACTTGGCAAAGAAGATGACCAAATGCAGCAAGAGTCACCTGCCGAGTCAGGGCCCTGTCATCATTGACTGCAGGCCCTTCATGGAGTACAACAA
GAGTCACATCCAAGGAGCTGTCCACATTAACTGTGCCGATAAGATCAGCCGGCGGAGACTGCAGCAGGGCAAGATCACTGTCCTAGACTTGATT
TCCTGTAGGGAAGGCAAGGACTCTTTCAAGAGGATCTTTTCCAAAGAAATTATAGTTTATGATGAGAATACCAATGAGCCAAGCCGAGTGATGC
CCTCCCAGCCACTTCACATAGTCCTCGAGTCCCTGAAGAGAGAAGGCAAAGAACCTCTGGTGTTGAAAGGTAATGCCCCTGCTCCCTTCCCAAG
CACGGTCCTGATTAGCCGGGTTCACTTTGGGTTTTCTCGTAGAGTGACAGCATTCTCCTTACCCTGGCTACCAAAGACCAAAATAGACTTTATT
CTTCTCTTCCCTTCTATGCTCTTTATTGTTTTGGTTTAGTAAGAAAAACCCAGCAGCACTGAACTGGAAGCCAGAAGATCTGGGTTCTACCCTT
CATTTGGGTTCTAATTTGCATTGTGCAAGTCATTTCACCTCTCTGGGACTGTTTTCTCATCTTTCTAAAAAGGGGCTTTATACACACCAGATGG
TATCTCAAGTCATGCCTGGTCTGCTAGCTCTATTCCAATCAATCACTAGTTGGAAAGTTATTGTCTCTCAGACTTAACCAATGTTGATGGAACA
GAGGAAGGAGCAACTATGGTGAACTACAAGTAAACCTACAGGTACCAGTTCTTACTGTGGGAAATTCTTTCTCTTTCTCACCTTTCTGACCAGC
TTGACTTTTATGTGGTTTATAAAGTGACCTTGAAGAAGGGCAGAGCTTCTTATTCTAAGGCCCCATATAAAGTATAAGTTCACCAATTACATCC
ATTCCTCTGCCAAGGCTCCAAGGGAACAGAGACGTTTTTATGAAACACTCCCCAACCCATTGTTTTTTTCTGGCCTCACCTGACAACGGTTGGCA
TCATGGCTCCTCCCAAGATGGAGTAATGGGTCACTTGCCCCAGTATACTGAATGCAGAATAACTGAGATTAGCAGAACTGAGCTCTGGCAGAAG
GAATTATTCACCACTCTTCTCGGAGCACCTTCCATACCGTGTTGCCTAACCTTTCCAAGTAGCCTGCATCCTGTGCCCAGCCTAGTTGCACCTC
TTTGCCCTCAGATACTGACTTTTGGGGCACTGTACATCACTCTCATTCGGCATCTTTTACCTGGTGGTGGTAGTGAGAGATAGTCGTCTTCTCT
CTTCTCTCCTCTTGTGTTCTGAGCCAAGGTACGCAGTTTCTGGGTCACATCTCCAACCAGTCTCCTAAAGTGTGTTGACCAAAGGTGTTGCTGA
GTTTGAACACATTGCATATTTAAATTGCAATAGGACATGTGGGTGAGCAAGTTAGTTATTTTGTCTCTATGGGACAGCTTTGCCATTCTCCTTC
TTGTCTTCCCAGTGGGGCATTCTGCCTTTTGTTAAGCAGTGTTCTGGGAATTATAGTTCTGAATTCCACTGACACAATCTCCTCTTCCCACCCT
CCGCTCTCCTCAAACTTGCCCTCATGGGGCTACACTACCACAAAGGCACATCTCTCCTTAGGGCTGGTGGGCTTTGCTGGGAAGGAGAACATGA
AAGAATTGTATGTAGAGAGTTCCAGAAGCTTCTAGACATTTCCTGGTCGTGGTGGTTGTGGTGGGTTTTCTTGAGGTCACAAATATGTTCAGAT
TTCCTCCATATAGCTCTGTATTTTATTGTTTCTGTATTCTTGTATGGTTGACTTTGAGTGATTCCCAGGATATTTACCCTGCTATTGTCTTACC
ATAATCTTGATGTGTCTAGCCTCTTACAAATGAGAAAATCCTACCGAGGAATTTCCCATTTGTAATAGTTTGTCTTGGGGAGCAAAGAGGAGGA
TAGCCAATGATCATGATGATCTCCTCTTTTCTCACGCAGAGCAGGTGTTCATGATAAAAAGCAAGTCTTTTGTGTCTTCATGATCTGAAGAGAG
GAAACAACACGGATCAAGATGATCCTAGACCTCCTAATCATGGGGATGATTACAAGGAGTTGCAGACCCTACTCTCTATTTTGCAGTGGGTGGA
GTTGTGGATAGGGGTGACCCATCAGTCATTGAGAAATGAATCTCCTGGGTGCTACTTGTGAAAGTGAGGATCCTCTCTCCCTTTCCTGTGGATG
CAGCTGAGATTCTGGACAGCCTAGACTTCTTCCTCAGTGTCAGAGTAAGATTGCCTCAATGGGGCGGGGCAGGACACACTGCTGACCTCACCAC
TGGGCGCCCTGGGCAGCCACTGCGAGGCCTCGTCATTTTCGAGTTGGTGAGACACCGCGGCAGTCGACTTGGAAGATGCTCTGGTGGTAGAGGT
TAGATTATTTGTAGTTTTGGGGGCCTTTTCTTCAAATATCTGGGAATTTCATTGAAAATATGTAGTTCAGGAGTGAAGGGGTCTATATTCTACT
TTATAATTATCATTATCATTTTGGTATCTTTTGGGAGAATGGCCTAAAATTGGGACCAAGATGGAAAAGAAGGGAAAGGAATGGGTCAATATTA
GAATGCCCTTCGTTATCCTTTCAACTTGGTAAACCAGAGATTAATACCATAGCACCACTGTGGTGGAAGCGGGGTGGGCATTCCCCAAAGGCA
TGACCAGCAGACTTCTCTCAGATTCTTGAGTGGGTCAAGCAGACCATTCTGGTCTGGCTTCTCCTCTCAGATTTATTTGAGTAATCCCCTCCCT
TGGTGATAAGATTGTGTTTCAGCAAGAGTGGTAGTGGTACCATTTCGGAAGGAGTAATTTTTGCAGGGAAGTTGGTGGGAGGGGGGCATAGTTA
GAACATAAGGAGGAAACTTCTAAAGGCTTGTTAGTTTATTTTCAGAGATTTCAGTACAATCTTGGGTAATTTATGGCTGGCCCATCTGATGCTC
TGGTTTATGTTTGTAAACACTGGTTGCTACCCTCCCTGTCCAAGATCCTTGTCCCCCTGTCTCCATGCCATACTCTCCATTTTTGGTGCTGTCT
GTCAAGTAGAGCGGCTGCTAACTTGCCATTTTAGTAATGCTGTGTCAGGTTGGGAAGAAACCGATCAGAGGCATGGCAGCCCCTGGGATTAAGT
TACTGTTCTAATTTACAGTGCCCTCCCTGTTGTGACCTATGCTAGAATCTATGTTTTAGTCTCATCTTCTAAAGAATAAATGGCATCAGACCTG
TGCTTCTCTTCAACCTGGTGAAAATGATCCAAATGAATAAATATTTAGGGATTTGTGAGGTCTTTGAAAGAATTATATTGTTTTACTCAAAGCT
GATTTTTAATCAACTAAAACTTGCTTTCTAGTCAAACTGAGTAAGAAAGCTGAACAATTCTAGACCATCCATAACGAGAGCTACCGTTTTTGCT
ATAAAGTTTTTCAGGCTCCCTTTCTTTTCAGTAAAGCTGGGTCCAGGGAAATAATTTGTCATTTACTTAGGTAGGAAGAAATAGTCTACTGCCC
CTTTTTCTTAAAGACAGTATATGCCTTCAAAAATGTTATTATAAACATTTTCAAGCATATAGAAAAGCAGAAAAGTGTGTAATGAACATCCATA
CACCTATCAACCAGATTAAACAATTATATTTTTCCTATTTGCTTTCTCTTTTCTGTTGAAATATTTAAAAATATAGATAATGTTTTAATGTATT
TAAGTATGTTTAATGTGTAAATTAATGTTTCAAATTCAATAAAGCTGGAAATATTTTATAGTATACTATGAACATTTTCACTCGTAAACACTTG
AGTGTCATGTACCCATTTTTAAGTGCTTTTCAACTTCGAATCCCTCTGTGACTGACTGGCAGTCAGGTCTACAGAGGAGCTTCCCTCCCTGGGA

GTAGGAGGGCTCCAGGTGCCTCCTTGGGGTCTGTGTGTCCCCCTTCCTCCCTGGTATGTCAGAGCCCATGCCTCTACTTGCTCTATGCTGTTGT
AAAACAAGGAATGACCAACTGCTACAATCTTTATAGGACTGCTCTGTACCAAAGGCCTTTACTGGGGGAATGTGAGAAGAAGAGGGAAATGGTT
TAAAAGGATGATCCATGGGGAGGATTTGATCATGCAGGCAGTTAGGCCTTTATACTATAAAACTTCATCACTCCTTAGAATTGAGCACCATACA
TTGCACACTTTTCCCTAGTTGAAAAGAATTCTGAAATATACTCTTATTGGCAATAGAGTTCTATGACAAAGTGGATGGCTAGGCTCAGAAATCA
GAGACCTGTGAAAAATATTCTGTTTCTGCCCTTTTTTCGGGGGTGGGGTGGGGAAGGGAATAAAAGTCTCCCCTTTTCTCTCAGAGATGTTATG
AGGATTTTAAAAAATACCTGAAATAAAGACATATCTACATTCATAAACGTGCTGTTGTTATTCTGAGCCTCTGGTTAACATCCAAGGCTAAAAT
GTCAAACATTAGCCTTGTAGCAAATGATGGAGAAATCAAGGCAGAACTTCGGATCTAGTCAGCCTGAATGCTAGCCTTGGCTCCCCTCTAACTA
GGTATGTGCCCTTGGGGAAGGAACTGAATCCTTCAGTTCCTTAGTTACCTCATTAACAAAAAGAGGATATAACAATAGCTATCTCAAAGTGTTA
GTTTCTGAAATAAATGAATTAATGTGTGTAAAGTGTTCAGAACTTTATACACATACATGGTAAGCACTCCATAAATATGGTAGAATGTTTTTAT
TGATATTGATTGAAAGGAAATGATAGTGCCAGTACAAAGGCAAATTTTGTTCCTAAGGAGTACAAATAACAAGCTAGGTATAGTAGAGTGTGTG
TGTTGCTATGGCCTAAAAATAACTTGGTGACTGTTAACTAATTTAAGTTGCATAGAGTTGGAGTGCCAAGTAATTGCAAAAACATATTGGGCCA
GGAGGCTGGAGTAATTTGGGTATATCCAGAATTATTTGTTTTAGGGAAATTTGTAAAAACATGATAATAATTCTGTCCAAATAATGTCCCATAA
CAAAAGCATAAAACTTTTTAGCTTTGCTTTTTGTTGCCTCTCATCATCTCATCAGGAGGATTTATTTTTGGAATAAGGATTGTGGACTGACTAT
AAAAGGGTAGATGGAAGGAGGGGTGCGCTGGTTCCTGAGCCTAGGGTTGTGTTGAGTTAGAATGTGAAGGAAAAAGGAGGGAAGGAGTTNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTCTTGCTTTTCTGTTCCTCATTCACGATGTGCTCAGCAGAGTGAAATTTTG
CTCACTTACACCTGGGTTCAAATCTAGGCATTTCCATTGACCAACTGTATGCCTTTAGGCAAATCAGGGGGCCTCTCAGAGGCCAGGTTTTCTT
CATTGTAAAACAGGGACAGCTCCAGCATCCTAGGTTGAAACAAGGTGATACAAAGTACCTGGCATTTGATGGCTGTCAATAAATCAAGCCTCTG
GACCCTGCTCTCCTACTCTCATGCACTAATGTAAGAACCTCTTACATTGCAGGGGCAGGGGTATTGGGGAGGATGGGCAAGTCGTTCTAAGCAC
AGTACTGTGGGAGCCTGTTAAGTATGAATACTCTTGCCCTTACCAATTCAGAACAGTTAATTAACTTAATCATCCAGCTTGTCATGGACAAGTT
CAAGAAACTCCTCTCCTGGCAATAGGAGACATGATTTCACATTAGAAAAGCAAAGCAGGGGAAGGAAACTGAATAGGTAAAGCACTTTGCCTAT
TTCTGTTTTCAAAGCACGTGTGTATAGGAGAAAGGAGAAGGGAGAATGGTGAATATGTACACTTTTCTACTTGGTCCTTTGGGCAAACCCATCT
GAAGGTCTGACAAAATTACAGGAGCAGAAAAACTTTCCGTCACATACTCCTGGTGCATACACCCTCAGGGACTAAGTGGGAGCTTTTGACCAGT
AGCAAAAATCTAGTTCCTTAAACCCTGCATTATCAGAAGCCAGAACCTCCAAGCCCCAGCATTGCTGAAGAGCAGTTTGGGCATGAATGTGTGA
TATATCGGAGTGCTTAGGCAGTTTAATCCAAGTTGGTTGAAAAAGATAGACTACATATTAAGGAGAGAAATTCTAGTTCCAGGAGAGGTCATCT
CACCTTTTTGGAACTAAAGAATCCCAGCTTTGAGAAGAGCAAGGAACTTTAGAGGGCCCCTAATCCAGTAGTTTTCACTGCAGGCTGTTCATTG
GTATCACCTGAAGGTGATTTATAACCTATGATGCCCAGTTCGTGTGTCCAGAAAGCCTGATTAAATTGGTCTGGGGTGCAGCCTGCACATCAAG
ATTTTTTTAAAGCTCCCAAAGTGATTCTAACAGGCAGCAAAGTTTGAGAACCATTGATCTAGTCCGGTATTCTCATTATGCCACTACAGGAATG
GGGCTTGTCCAAGGTCACATGCATGATTAATTTTAGAGATTTAGTCCTTAATGTTAAAGTAGGTCTTGCCAGGTTCAACAGATTCAATAGATAT
CAACAGACTGAGGTATTCGTATGTATCATTATTTAATAACAACAGAATCTAATATATAGCATAAAATATAAGATTTTTTGAGTACTGATGCCTT
TTTTCTTGAATTTTGAGATTTCAGTTCAGAACTAAAAAGACCAAAGTCTGAGGACTTTCAAAACCAGCAGTTCATGGTCTATATATTTACCTGG
ATATTAGAATATGGACCAAATATTAATGTTGATTTAATCTCTTCATCTGGGGAACCTAGTGGTTTAAGCTGTTAACCTAGTGGTTTCAGCTGTT
AACAGCTATCAAAACAGGTATCAAAGAAGCCCAACCATCTTAGGCTTCTAGGGACTTTTTGGTAGGTGGTCTCCACAGCTGTACAAACTTGTGG
GCAGAGGAGATTCATTTGTTTGTTCAATAAATATTGTTGAATGCCTTTGGTGTGCTAGGCACTAATCTGCAGGCTGGGCAATCTGCATCACAAT
GCTTATCATTCAAATGCAAGAAAGACAACATATATGGATGGGACCAGTCTTCCAGATCCTTTCCATCTTGGAAATTGTGTTCATGTTTCTATTC
TTCATCTTCTTCTGCCACACAATCTTATTTAGGGAGTGTTTCATCTTCACGAAATTTTGTTCTCCTGTGAAGCACATGTTTGTACTTTTTTTTT
CTTTTTCTTTTTTAAGAAATAGCCAGCCGGGTGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGATGGATCATGAGGTC
AAGAGATTGAGACCATCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCTGGGCATGGTGGTGCACACCTGTAGTCC
CAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCGGGAGGTGGAGGTTGGAGTGAGCCGAGATCCCGCCACTGCACTCCAGCCTGGC
GACAGTGAGACTCTGTCGCAAAAAAGAAAAAAAAAAAAAAAAAAAGGAAATAGCCTAGCCTTTTCTAAATATGTCATGGGCCAATAGGATTTC
TTTCCAATGTCTTGATCTGAAAAGAAATGATTCATTGGTTTTTAATGAAAAAATAAATATATATGCCCTCTGTGCCTCAAAAGCTCAGGGCTGA
CAAGTCTCCTCTGTGTGGGAGAGTGAAACTTTGTAATTTGGACCCCCTAATTTTGTACATGTTGATGATAGGAATAAGGGCTTCGTTTATTTTC
ACTGCATGCTCTCTATGGAAAGAGGATGTGCTAAGCAAACAAGCATTGTAAACAATATTTCAGAGGCAAGGTTTTGGCCTGCTTTAAAAAAAAA
AAATGTTTGCAAGTACAATTAAAAACCAGTATAAGGGACAGGGGTGGGATGAAAACCTGTCTCTAAGATTACGAAGCCTGCGTTATTTCCCCTA
AATCCCCTTCGAGGAAGATTTGAATCCCTCATCAACAAATTTTCATTGATTATGTTTCTATTATATATACTGTAGACTCTATATTCACGAATGT
AATCATACTCATTCAGAAAAATATAGGAAGAGAAAATGAGTATGACCTGTAGCCTGAATTTCATTATAAAAGATTTAAAAATATACATTTTATA
TTAAAATTGATGTAATCTTTTAATTATGAAGTCTTTGATTCTTTAGATGTTTTCATCCATAACCCAAGAGCAAGATCTTGGCATCAGTTTTTTC
CAGGTTATGTCTATATCATCTATTATTACTTAAAAGTTGGAGTTACATATAGATATATAGATATATAGAGAGTTATAGATATATGTAATTTTTT
TTCATTCCAGTCCCCCACCCGAGCAAGACCCATATTTTATGTAACTTAAAAGTAAAGAAAAGAAACTTTGAGCGTATGTTTTTGGATAAGGAAA
TGAGCTGTGCAGGCCTAGTACTTTCATATAAGATAAAGGCTCTTACCTATTCTCTGAATCTGGCAAAGTAGAGAATCACTTACAGAAAGAAAAG
GATTTGTGGATGCATCAAATTATCTGCATTGCCCTTAATGTTTTATGTGTGGTAAAGGCCTACTCAGGCCACCGCCCCCAACCCTGGCCCCCGA
CTTGAATTTCATAGAACACAAAACAAAGCGCAACTCTTCCTGAGTGCTTCCACAACGGGATTTTGCTTTCTTGCCTTACCACTTCAGAATGGAC
CACCATCAGGCATCTGTTGTCCATTGCACACATCAAGTAAACAGATTAAACTGCCCGAGCCAGGGGGTCGCATCAGGCCTGTCCTCCCTTTGAG
GAGCTTAAACCTCTCGTGTTATAATGCGAACTCGACTGATCTTATTTTGTGTCCTGAGGTAAGGAGGCAGTCACCGTTTTGCATCAGAACATCA
CTATCCGGTTCCTTAATATCTTATATTTATTTTATGGAAGAAATAATCTCACATTCTTTGTATCACAGCCCTGAGCTTCACTACCATTGAGCTA
AATATTACCAGCTGTTGCTACTGGCAAGAGAGAAGCAAAAAACAAATTGAAAGGAGAAAGAGGAGGGGTGGGGGAGTGGACAGAAAAGAATAAC
ATGAGGGTTGAGGGTCTTAGGGTGACAGCAACATATCTTCTAGCTCCCAGACCTGAGTTCTGGGCTCCAGTATTGAAGACTGTGAGTCATTTTC
TTCAATCATTACAGTGTTTCTTCCTGTCTTAAAAGAATAAGACTAGACACAAACTTCTAAGAGGGCCTTCCCTGAAGAGATAGAGGACATTTTC
TATTGTTTCTTTTAATTTCTATTTTTATTAAAATGCTATGTTTTTTATGATAAGACTTTAAAGGAACGGGTCTTATGGTTCTCATGAGGTGATAT
TTTAATCTGCCAGCAGAACATCAGTTAATCACATAGAACTACTCTGGCTCTGTGACCAACCTATCATCCCTGAAATTAGAAAATTATTTTCCAG
ATAGTTTGGAAGAAAAACAAGTTAAAAGCTATTGAATGCTTTCTAGATGCTGGGCATTGGGCTGTCATATATGTGTCTTATTTAGTTCTCAGAG
AAGCTCTGTGAACGTCATTTTATATCCTGACTTTTATAGCTCAGGAATCTGAGGAACAGATTAAATATTTTCTCCCTTGTTATTAACTAGTAAA
TGAGAGAATAAGGATTGAAATCCAGTTCTTATGATTTCAAAGCCCAAATTCTTTTCAGGCTGGCCATATCTATTTGCAAGTCTCATTCCTTATG
GTGGCTTTAGTTGTGCTTTACCTCTGTGGTGCCTTAGTTATAATGCCATCTTCCTTTCCCCATTTTTCTTGTATATCCTCAAATAAAAATTCCA
TTGCTAAGGTGAGTAGCCTATTCTGTGTCCTTAGAGTAGACTGGCTTCCCAGTAACCTTGCCTCAAATTATATCCCAGCTTTTGGATACTTTAA
ATTTTGGTCATGACAGTTTTTTAAGGAATAAAAATTTGAGCAAAACAAACTTTTGAAAACTGTGATAATTCTAACATATATGAAGTATTTCTTA
CATGCCAGACTCTATGCCACAAGTGTTATGTCTCATGATCCCTTTCCAATTTACATACGAGGGACTGAAACTCGGAGAGGTTCAGGCACTTGTC
CAGTGTTACTCAGCTGGTGCCTAGTGGATCCTGGGTGTAGCTCTGGTATACTTCTGCTCAGTTTGCTTTTGATATCTGGAACCTTAGAATTCAT
TCTCCTAGTAGCCTGTGGATAGAAGGATGATATTTCCTGCTTTTGCACACATTAATAAACCCACTTTCTGGAGTAGGAAGTAGATGAACAAAGG
TAAAGAAAAGTACAAGTACAAAGTTAGGTAAAAAGAACAAGAAAGAATCTGTGACGAGTATGATGACTACATCCTAAAGACTCTAATGCCAAAG
GTATTTGATTGTTTATGCTTTATATTCATTATCTGTCCTATTAGTGTGGATGATAATGAAAACTATAGATTGTTTTCCCTCAAGTAGGTGAAGA
AAGAATCTCTAGTAGGTTATGATTGCCCTTTGGGAAGGTTAGTTATCAGGGATAAGTGAACAGATCCTATCAAACCATTTACTGTTTAGTTTCT
CTCCTCTCCTTTCCTAATCTTTCTTATCTCTGTTCTTCCCTTCTACAGTCTAAGCCTACAAATATAGCTCAGGTAATCTGGAGGTGTGGCAAGG
ACAGACCCTGGGAAAAATAATAATGAACACATTTGAAGGACAGCAGGATGGACTCCTTGGAATCCTGTGTTAGGGGCAGCATTCATAGAGGCAG

AATCTGTCTTCTGACAGAGCACCCAGCTTCACACAGTGAAAGTATGTGACTGTCCTCTCAGATATCAACTATAAGGTTTCGTCACTAAGTTCAT
TTTATGCTGCTAAAACAGAATACCTGAGATTGAGTAATTTACAAAGAACCATAGGTTATTTGGCTTATGGTTCTGGAAGCTGTGAAGTGCAAGA
GCAGGGTGCCAACATCTGGCAAGGTCAGCCCATGGTGGAGGGTATCACATGATGAGCAAGTGTGTAAGACAGTGAGAAAATGGAGGCTAAGAGT
TCATCCTTTTTATTAGGACCCACCCCTGTGATGATCCACTCCATGGAATGGCCATGCAATTATGGTCTTAATCCACTCTTGAGAGTGGAGCCCT
CATGACCTAATCTCCTCTTAAAGGCCCCATCTTTTAATACTGCTACAGTGACAATTAAGTTTCCAATACATGAACTTTGGGGGACATATTCAAA
CCATAGCAGTAAGGTCACCCCAAACACTCAGGTCCTCCAGTGAGAGGGGAAGGGAGGGGGACATGGGTGATCAAGGCAGTAGAATTAGTGAATG
GAGAACAAAATTTAAAAATCTGAGCATTTTTTATTCTGAAATATAAAAGTAATCAATTTTAAGAAAGCTTAAAATAAATTCAAGGAGATTAACT
TCACTGATCATAAGTTCTCACATTTACATGGCAAGGTGAGTTTTCTGAACCACAACAACCCCAGGATGACTTTAGAAATGTTGAAAAACCACAG
AATTATAGTCCATTGCACAGCAAGCATTCACTTACTCTATGTTGAATTAGAAAGGAAAGACATTTTTCAAAGAACATGGTGTTACAGAATTGTG
AGAGATGTTATCAAGCATTTGATCTAACCATCCCATTTTACAGACATAGAAACTGATTACTTATCCAGGAGGATATAAATAGCTATTAGCAGTA
CTGGCATAGGATTCATGTTTCCTAACTCTCAGTTTAGGGTGTTTAGAAGCCCAACCAGTATATAATCCTTTGGATTAGTATCTGAGTTGTTGTT
AAATAAGCAAATCTTGTGGGTTCAAGTATTCAGCCAGGTCATTCCATAATTTTTCTCATTACCTTTCTTAGGAGCGTATATAGTGACTAATTGA
ATGAGCCGGCTGATGCTCCCTTATATTTGTATTCAGTTTATATATTTTCTTGCGAAGGGAGTATAGTTTGGAGGTTAAGGGCACAGATTCTGGA
ACCAGGCTGCTGAGTTTGAATTCTGATTTTGCCAATTATTATAATTTTGGACAAATTCACTTTTCTGTGCCTCTGTTTGCTTGTCTATAAAATG
GGGAGGGTAATGGCTCTTTTCTCATGGGCTCAATTGAGAATTAGATAACATATGTAGAAGTGCTTTGAACAATAACGAATGCATACTAGCTAAC
ATTTATTGAAAATCAACCATAATTATAATATTGAATCTCTACAATAATAATTCATAATCTGCTTATATTCAACTGATATATGAGTGGTATAGTT
CAGTAAAATGCTTTGATGTCACCACTAATGCAGTACAAGTAGGAGATACTTTTCTGATGCTTGGTAGATCTTTTTGTTTAAAAGTTTGGAAAAA
CCCAGTGTTTCTTTTGGGGTGGATAGATAACTACATAGGGTTTTTTTTTTTTTTTTCCTGAAATAGTGCTGTGCTGAAAAATTATATGCTATT
TCTATGTAAGGAAATCTTATAAAAGTCTTAGCAGAAACACTTTATGTATACTTATTGTTAAGATATTAAGAACATTTTAGAAAGAAAAACATAA
TATTACTAATCCCGCCCTGACTGGCCTAGTTTCATTTTTACATTTCTTTTTGTTCTCTACCCATATATGTGCATGTTTTTCAGGGTTTCTCACA
TAGTAACTGAAATTCATTTTCACTTTATATTGCATGTACTTTTGCTTCCTGTGTTGTGATCATAGATTTTCTTCTTTAATGCTGTAACCTGTCT
TATTACCACATTTTACTTACTTGCCTATTAATATAAATTAAGATTGTTTCCAAGGTTTTGGTATGACAAGAGAAACCTCTTGAAGGAAACCCTT
GTTTGGAATTTTCTCCACCTTCCCACCCAACTGCACTCCCCATTTAGAGAAATGGGTACTAGCTGCCATTTTGGGTGCTAGTTGCCAGTTTGAG
TTTATTTTTCCCCCCAATTCTCTTTCACTTTTTAACTTCTGCTTTTCTTTCCTGAGTGTAAGATCCAAATACCTATCAAAGTTGTGAGTTTTTA
GGGACATCTTTATCCTTGACCACAGGTCTTGATACTGATCCTGAATGTGTGTGTTTACCACATGTCCTGTAAGGCACATATTGCAGATCTTGGA
CCTCTTTGGTGGATAGAGTGAGGACATGAGGAAGCACCACTCAGCGCTATTAAAAATCAGAAGCTATTGTGGAAGTGAATGATCTGGCAAGGCT
AACAACGGCTCCTTATTTCATAAATATGAGTCACTCCCAGTTTTACACTGTAGATAAAACACTCTGAAAGGGACAATAAAAGCAGCAAGAGGTA
GATTTAGTGAGATGCTGAGTAGATGTGTTTGTGTCTCCCTTCCTCTCAACTTTTCTAAATCCTGAGGTTTTAGTGCAGTGCTGAAGTCTTCTAG
GGGCTTAAGCAAACACAGGCAGCAAAAACACATCAGAATGGAAAGATAATTCCCATTAGTTCATTTTGCCAAATTGAGGTAAAGTGCCCTTTAA
ATAGGAGATAATTCTTTGACAGATAATTAGCTTGTCTTCCTTGATAAAATATGTGAATTGGTTGAGTATATTATAATTAATTTTGCATATTATG
TAAAAATCTATTCATGTACACTTACTAGGTGAATCTCTTAATTCCTACCTTGAGGATGGCTAGAAAGCCCCATTTCTGCTCCAGTGAATAGAAA
GAACTGGAGGAATGCTGTGGTTATGGAGTCCAGGAAGCCCTCTCTTACAAAGATTGGGAGGAGCTGAATGTGGTATATCATTATTAAAAGACAC
AGAGACTTCATATTAATATATGCATTTATTAAAACAAACTTTGAGAACACTTTTAGGCCTGAGAATGAGATGCTACAAAGTTGCCTAAATAATT
ACCTTGAAATCAATCTCTTGCTAGTGACATTCTTCTGGCTTCCCAATGTGGAGCTTTTTCCAGGGAGTGGAGTGAGTGATTGGCTGGGTGCAGC
TAGCTGTTGGCTGGGCGGTGGCTGTGGGAAGTAGCCTGAGAGGGCACAGAACAGTTGCTCAATGACTCAGTGAGTCAAAGCTCCTCTCTGCAGT
TTTTCTTCCCCCTACTCCTTAAGCCATTCTGAGCTCCTTCAGGCATCCCCATGTATCTGCGCACTGCTTTTGGGGTGTCTTTTCTCATTCAAAG
CTATTGTCGTGGCTACTTGATTTGGCTCATATTAAAACGTGCACTGGGAGATGTTGGAGTCGTAAATAAAAGAGCATGCTGTAGTTAATCGAT
CAGAGAGCCTCTCTTCTCCAAGTTGAAGTGTTTCTTTTCCTGAAAATAGAGTGGCTATTTGATGTTCCATGGGAGCCGAATGACTTCCTGGTGT
AGTGTGGCTTATAGCACCGTAGATTTTAGTCATTGGTCACTACCCCTCCATGTGCATGCACACACATTCACATGCAAACAAACACATATTTTAG
TTAACATTTGTAGAATGGGAACAATTATGACACTGAGCATTAACTCATTTAATGGGGATAGCAATAGTATTAAATCTATCTGCAGCGTCCAATA
TAGTAGCCTTGCTGCAAGCCAAACGTGGCCATTGAGCACTTGAAATGGGGCCAGTCCAAACAGAGATGTGCTGTAGGTGTAAAATATATACCAG
ATTTCAAGACTTTATATAGAAAATAATGTAAAATATTTCATTAGTAATTGTTTTAATATTGACTCTTGAAATGATATTTGCACATGTTAAGAAA
AATATATTAGCAATATTTTACCTGTTTGTTTTTACTTTCTTGAATGCAGCTACTAGAAAAAAAAAATGCTTGTTATTATAGTAGCCTGAATTCC
ATGTCTATCAAATGTTGCCGATCTCAATGTGGTAATAACAGTATTATTATCCCCACTTTTTAGATGAGGCAATTGAGGCTGAGAGAGGTTAGGT
AAGTTGCCCAAGGTCTCACAGCACAATGCCAAATTCAGACCTGCCTGACTCCAGAGCCCACACCCTTCATCACTAAGAAACTGTTGTATAATAG
AGAATTTGTCTGGCCGTTGTCCTCAGTTCCTGGGAAATAATTTCTAAACCCTTGGAACTCCCCGAGTGTTAGGAGTGTCTTTGTTATGCATGAT
GAGCCCCTTGGATCACACCTGTGTTTATGGTAATGCGATGACTCAGGATAAGAGTTTATCATCAGAAAGACATCCACATGATTAGAAGGTCAGG
GCTTTGTATTAGTTCATCTTCTTCAGCAGAAGAGAGTGGGACTGAAGATTGAGTTCAATCACAAGGCCAATAATTTAATTATGCCTAAGTAATG
GAACCCAATAAAAACTCTGGACACCAAAGCTCAGTTAAACTTCCTAGTGAACACATTGCTGTGTCAGCAGGGCAATGTGTCCTGATTGCACAAG
GAGAGGGCCTAGAAGCTCCATATGCAGGACCCTCCCAGATATTGCCCTGTATGTGTCTTTATCTGGCTCTTCCTGATTTGTAGCTTTTATAATA
AAAACTATCATCATAAAGATAGGGCTTGTGTTCTGTGAGTCATTCTAGTGAATTATCAAGCCTGAAGCATTGTAGAAGCCACAGAATTTATAAC
CAGTTGGCTAGAAGTGTGGGTGGCCTGGGAACCCCTGAACCTGTGGCTAGCATCTGGAAGTGAAGGCATTCTTATTTGAGACTGTGGCCTTAAC
TTGGGGAGTCTGCACTGACTCTGCTTAGTCAGTTTCAGAATTATATTGCAGTATTGCAAGAATAGACTGCCTTTTATTTGGATGTATGTATTAG
GAGAACAGCAGCTGAGAGAGCTAAGTGCTGCAGCTTAACTTGCTTATCTCTGTAACACCATTTCCTTGGTGACAATGGCCATTTGCATTCTAGA
CTTGGAAAATGACTCAATCTTTGAGCAACTGCTTTTGACCACTAGGATCAGTTGGGAGGCAGGCAGGCCTCTGAGACCTTCATACTCAAAACCC
TTCACGCTGTAATCTCTGGGGCCTATTTCATCTCCCAGTTGGCATCATGTTAGCGGTGGTGACAAACATATGTGTTGGCCCCTCTTTGACACCA
GGGATTCTTAAGTATTGGTTTTGGGATTGAGATGTTCATGGGAAGCTGACACAGGGTGATACTATGGGTAAGGAGTATTTCGATTTTTTGTTGT
GTTTTTTAATCATTTGCCTTGTCTGGAATTACGCTTTTGTGGTATGTCCTATTACATTTCATAAACAAGGTATTTAGCTCAATTGTTGCTTTTTT
CTTTTGGGGCTTTTGTTTGGATTTTTAAGCCAAGATCCATGTGTTTTATTTATTTTGGTTTAGTTTCTTCATCCCTGCTTAAAATAGACACTGC
CTCTTGTCTGTGGTCCTGGTATCCACTACTCTTCTGTTTCCTGCTCAGGCCTGGCCCATGTTCTGCAAGGCCCTCTTAGGTCACCAGCTCCTAG
AAAGTTGACTCCTATGAGTATCTCTTGGGGCCACCTTAGAATGCAGATTTCTAAGAAAAGTCCAACATAAACTCTGCAGTTATTGGGAGAAAGT
TTCCGTCACCAGTGAAAACTAGGAATAAAACAAGATTTTGGAATGTATAAAGAAGCCTCTTTCAAAAAGAAATCAATATGACTTGTTTTTTCC
TAACATGGGCCAGCCCTGGGCACTTTTCATCTGCCACCACACCAGGCCTGCTCTTCAGAGGTGTTCAGCTTTAAGACTAGGGACAGTTCACACC
AGATAACTATGAGGCAGTGTTCTCTGCCACTCATTGACTGTGGAAGTCTCAGTCCCAGTTTCTGAGAGGGGGAGAGCAAATTCATCAGAACCAA
CTGAAGAGGTACAGAACATGAGGCATTCACTTCTCACACAGTCCCTGAGCATCTCACCTTCCAGAATACCAGAGGCTTCAAGGCCCTTTTCTA
CCTTTCAAGAGCGTTATAGCGTGCTATTGCTCTTTGAGAGATCTAGGGCTGTAACAGCCCTTATTTTTAGAAAAGAGAGAACTCCTGTGTTTGA
AGAAATAGCTCTTATGATATGATCGTGTGGTTTCACATGGTCTTAAGTTCAAGTAACTTGCCCAAAGGTGCACAGTTATTAAGAGGGATAAGAG
GAACTCCAAATTACTGATTTCAGATCCAGTGTTGTATCCCTTCAAAAGGAGATAGAAGAAACAGGGCCACCCGGGGTTGGTGAAGATACTGTCA
GAATCATCTGTTACTGCTTACCACATCTAAGTGAGAGGGTCAGCAAGCTCTTGAGAGGGCCCACCTAGATCTTAGCTTGTGTATACCCTATACT
GAGCACTGTGCCCCCATTTCATATTTAGTGCTTAATAAATGTATATTAAACTGAATTGAGGGCCCCTCCTGCTGCTCAGTGACATCCCTCAGGG
TGAGTTTCCCTCCTGAGCCTTCTTTTCCCTTTCATGACTACCTTCCATGCATCTCTACCATTCATCACTCATATAGAATGTCCAAGAAGTAGGG
GCGAGGAGAGAGGAGAAAGGGGTAAGAGGCCACCAAGTGTGATTTGCCTTGGATTTCAGCCCTCCCTGGAAGGTGCCCATTTGTCACATTTAAG
GGAGGCCCAGCACCCCTGTAAATTGCCTCTTCCTCATAAGTGTACTCAGCCCTCCTTCCCAGCCTTGGAATGCCAGGATTTCTAAATCCTTGTG

CTGAATTCACCTGGCGAGTCCTGCACCTGACTGTGTGAGTTACAGCTGGATGGCATTGTTCAGCTCAATCTTCAGTGTGTTCTGAAAATGTTTC
TTCTTCCAGTCCTGTCACTGAATTTCCCTAAAGTTCCTTCCTCCTTTCCCTCATTAGATTTCTCTTTGGGGACTATTTTTTTCAATCAAATCTC
GCAAATCCATAGCATAATGCTGAACAGCATATAATAGATGCTTTACAATAAACTGGTCCTATCTCATCTCATTCCAGTGTTCAATGAATCTAAA
AATATTTAATGAGCACTTACTATATACAATTCAGATGCTAAACAGTGAATACTTAGAATTTCTATTAATAACTACAATGTAGTAGCTGATTTAA
TTCTTGCAATAACTATTGTTGCCTGTTAGGACTATTATTAGCTCCATTTCAGGGTACAAAGAGGTGAAACAGCTTTGTCAATATCATACTGGAA
AGTTGTGGAGACAGTCTGGCCCTAGTGCACCAAACCATTACACTCTATTTCCTCTAAGAGAAAGAACATCTTGACTTTCTTGGGGTCCACACTT
TAATAAGAACAATAAACAGGGAAGAAATAAATAGGTAACTTCAGATAGCGATAAGTGTTCTGAAGACAATGAAACTCTTAAAAACTTCATGATA
TGATAAAAGAGATTTGGAAGGGTAGCTGTAAATTGAATGTCAGGGAAGACTTTTCTGAGAACACATCTGGTCTGAGGTCTGAATCATCTATGTG
AGTCTAAAGAAAAATAAATTTTTATCCTACCATACTTTCGGAACACCTCTGTGGATTTATGCCCCCTACACACAGAGCAGTCTTCCAGCAGACA
CTAGCAGAATGTCTTGCAACTTAATTTTGACTCTACCTGGTGTTAGCTTCAGACCCCACAAGTTGTGGCTCAGTCCTACAAGATTACCCCACCT
TCCCCACACTGTTTATAAATCAGTATTTCTGCAACCCCCTCCCTGAGTCCCATTAATTTTCTAGGACAGTTCGCAGAACTCAGGGAAATGTGTT
TACACATTTATTATAAAAGATATTACAAAGAATATAGATGGACAGTCAGATGAAGGAGATGGATGGGGTTTATGGGGGCTTCATTACATAGGCA
TGATTAATTACATCATTGGTCATTGGTGATCAACTCAACCTTCAGTCCCTGTCTCCTCCCTGGAGGTTGGGGGATGCGGCTGAATGTCCCAATC
CTCTAATTAAGCTGTTTTAATTCTGGTGACCAGCTCCCTTCCTGGAGCTATTTAGGGGCCCCCAGCCACTAGTCATCTCATTGGCATTCAGAAA
ACACTCATAACTTCAGAGATTCCAGGGGTTTTAGAAGCTATGCTACAGGAACCAGGGGCAGAGATCAAATATATATTTTTTCATATCACAGTAT
CACAGTGAGGATCTACAGGAAGGGAGTTTGCGGAAGAGGGAACAGCAAATGCAAAGGCCTGGAAGTGGGAAGCAGAGCACCCAGGCTTTACACA
ACCTCTGACAGCTGATTTTGTTCTTGCCATTGTTCATTCATGTCATATCGTACCATATCATATCATATATATGGTTTATCAAGGCTATATTGAA
GTTATAGAACACCAGAGTTGGGAGAAACTTAAAGATTACCCTAAGTCCTGATTGTATAGGGGTGGCAAAAGAGGTCACAGAGCTAGAACCCAGT
ATCTTTTTAGTGTGGAAGGAAGGGCTGCCCTCTGAGTCCTTGCTGTCAGGGCTTTTGTTACCCTGTGCAAAGTTAGACATGGCTTCAGGGGAAA
TGGTCGAAAGTCTGATGGTGCCAGATACGGGATGCATCCCAGGTCAGCGCTTCATTCTGCGTGCCCCAGGTTGAACTGACCATTACTTGGCTGG
TCCTTCACTTAGCCTCAAGTCCATGTTGACAATATGTAATTCCAGCCCACCTCCTCAGAGACAAGCAGTGTTTTTAATTGTTTTGTTTTCCCCC
TAATCTCAGAAGGTGGTCACCCAGGCAGGGACATGCTAGCTTTTTTTTTTTAACCCAGTGTAATTTTGTATGTCTCTTAGTGCATGGAGACCTCA
CCTTGCTTCAGGTGGACCTGTCAAAGCTCAGCCCTCATGGTACGGTGTGATCATTGGACATGGCTGAGTCCATGTTTAAGGAAAGCCCATGCCT
TTTCTTTCTGCAAGTTGATCCTTTAGTACTCAGCCTTGCTCATTATATTCACCAAACATAGAATCCAGCTCAGTGACTTGAGGAAGTTGTTGCT
ATGCCTTTTGTGAAGTGAAAACATCGGTTCAGGAAAACAATTCAAATTTTGATGCTGACATTTGATCCTTTCCCCTACCACTTCCTGAATTCCC
TAAGCCAGAGCTCTTTGACCTCCAGATCCTACTGAAATACACAGTTATACATACTGTTTGTTGGACATGGGGGTTTTATTCAAAGCAAACTCAG
ATGCAGCATTTTTGGCTGGGCACTTCCATACATGATTTTAGCAATGGAACCCTATCCAGGCTTCACCTGTGTAACTTTGTCTTGCTTACTGCTT
TCCCCCACCCCTCCTGTCATGGATGTTTCTAGAGGACCTTTTGTGAATGTAACTTCCAATGGGAATGTTTCACAGTAGAAATATGCTCTCCTGT
GAGGCTCGCATGTGACATTTCTGAAGATTTATTTAATTGGACTTTACTTAAATCCCATTGGGAAACATACTTTTGCTGTGAAGCTGTGATGTGT
TTAATTTGGGGTCTAAGATAAATGTTGGTCCTCGGGGTGGATGGTTGAGCAATAGTTTTCCTTTTGTACAGTGGGTTTGTGTAATGAATAGCTT
TACTGGGCTTTCCTCTGTTTGTTTGTTTAGCAATGCTTCATTATTTAAACTTCTGCACTGAAAGGCAAGAATGTTTTTAGACATTCTTTAGAGA
CTTAATGCAGAATATCTGGTTGAGCTCTCGGGAGAAATATGGCTTTGTGTTTTATAGCACTCTCCTCCTGTTAACATTCCTCTCTCTGCAGCTT
CCCAGGATGATCTCATGGATTTTTCCCCCTCCTTTAATCCGTCTTGATGGATTAACCAGTATTAAGTTTGAGACCAGTGAGCAAAAAAGGTGGA
GCCCTAACATGGTATAGAGTAGCCTCCCCAGTACGCAGAATGTCTCCAGCTAAAATATTCTTCCGCCCAGAAGGATGCCACATGGAGGTCATGT
GCCAGTGCTGATCTGAAAGGGCATATATCTAATGAGGAGGGAAGTGTCTTTGGGAGAGGAGTGGGCTTCTGTGCGTGCATGTAGCTGGTTCATG
GAACTAAGGTTCTACAAGGCTTACTGCGCTTGCCTTTTATAGGCATGCTGGTCCTTTCAGCACACCCCCACCCCCTGCTGCCCCCGCCCCCACC
CCCACCACCCTGCCACCCCCATTCTGACCTTGGACCATTTTTGGCTTGGCTTTAAGGTATGACACCAAGTTGGGTTGGCTCTCAGGGGCTTTGT
TCTCAGGAAGCCCACAAGTTTTAGTGTGGCTCTTCAAAAGTAAGTATTATACGTTGTATTTCTAAAAGTAAGCTACACTGGGAATTACAAGTGG
CACTATATTCATTTGGGCTGCTTTAACCAAATGCCGTAGACTGGATAGCTTAAACAACAGAAAGTTATTTTCTTATAGTTCTGGAGGCTGTAAG
TTCAAGATTGGGGTGCCAGCATGGTTGGGTTCTGGTGAAGCCTTTCTTCTTGGCTTGCAGACAGCTGTCTTCTTGCTGTGCCCTCACAAGGCAG
AGAAAAAGAGACAGCAAGCTCTGTGTTGTCTCTTCTTATAAAGGTACTACTCCCATCACAGGAGCCCTACCCTCATGACCTCACGCTGGGGATT
AGGGCTTCAGCATACGAATTTGTGTGTGTGTTTGAATATGGGGAGGAGAGATACAATCAGTCCACAGCAGCCACAAAAAATGCATTCAGAAAAG
GAAAGGGTATGAATTTTGCCCAGGATTTGGAGTGTATGTAAATTACACCATTTGGTAAATCAGTGCGTTCTCTCTCTCTCTCTCTCTGTTTC
TTTTCCCCTCCCCCCTCTTTTCTTTTCAAACACATATTGATCACCTGTTGTGGACTTTGGAACACTCAGGAGCTTCCCACTGAACTCAGAATAA
AACCTGCCTAAGAGGCCCTGTGAGGAGGGTCCCTGCCTCCCTTCCTTCCCCTCTAGCCCTTCTCCTCACCCGCCTCTTGCCCAGTCATTGTGCC
TCCCCACATTTGGCTCCCTTGAGTCACTCAGAGGTTCCCTGAGTTCCCTGCCTTTCCCAGTGTGGTGTTCCCTCCCTATGTTCTCCTGGATTCC
GTCCCCTCTCATACCTCAGAGAGGCTGTCCATGAACCCCAATCTAATTAGTCCCCTCTCATAGCACCCAGGAACTGGACAGCGTCTTCCGTTAT
GACTTATCTTAATTTGTGACTGCCTTCTGGAATCTGTGTTTATGGTTGTCATATGTTTCCTCCTGATGGAGTGGGGAGGGGCAGGGAAGGGGCC
TCTGCAGCGTGTCACTCACCTCCTCAACTCCCAGAATGTTTGGGGAGGGTTTGATCTTAAATACAAGAGATTATAACAGTGAAAAATGTGTTAA
TGTAACTGGCATGTCTGTTAACAAATCCCAGACTTGATCTGAGTGTTTATGGTGTGCATTTCTCCCTGGGAACCAGTTGGTCTGTGCTAACATA
GGTAAAGTTTAGACACGTACCAGAAAGAAAACTGAACTTGCAAGTTTTCAGGAACATGGGGGCTGGAACTTGGCTGTCTTTCTGTCGGCCCCTG
ACCCCTCACCCCCAGACTGGATCTTGGTAGGCACCCTTCTTAGCCATTCACTTGATTGAAGCCCAAAATCCTTTCTTGGAAAGCAAAAATACTT
ACTCTTATTTTCTTTAGTTGGCATTTTTGTTAGTGAGAATGGAGTTCAATAGAAGTAGACAAAATTCTGGTGGAAAAAAAAATGAGACTACACA
GGCTGGGAGGAAGGTCTGTGGATGGAGGGGACAACTGGAACCACCAGAAACATCTGTTCTGACCCTTCTATTCCAGACTAGGATTAAGGGAGAG
CAGAAGGCACTTCCCTGCCCCTCTGGCAGAGGGACTGACTTGAAGTCAACTATGCCCACAACCTGTCTTCAGGTGGTTCTTACTGAAACCTTTG
TGAGACAGAATGGGGAGGGTGAGTTAAAGATGGTATTCTCTGCACTAGCAGAGCCTTACTGTGTGTTTGGCTGGCAGGGATGAGTGCTCAATCA
CTCTTCCCAGCCCACCTTTGACTTTTTAAAAATAGGTCTAACAAATATTCTGTGGATTCGTTTGAAATTCAAGCATCAAAATGTATTCCAGGTA
GAAGTCTCTCTTTCATGTTTTCTTCCCATCTACTGCTGATGGATTTATGAGAGACAGAGAAGGTGTAGGGAGAGGGAGAGAAGGGTAGAAGAGG
GGAGATGGCAGGGACAGGGAGAGAAGAGGGAGAGGGGAGGGGAGGGAGGAGGGATCAGGGTAGAGGAGCAAGAGTTGGGGAGGAGAGGT
GAGGGAGAGAAGAGTGGAGAAGGGGGCAAAGGGGATAGAGATAGAGACCAAACCCAAGGCCCTGGTGGGGAAGAAACCAGAGAGAGTCATAGAG
TCTCACTGACTTCTGCAAAACCTGAGGGGCTTCCTGGCTCTGGGAACTCTTGAGATCTTAACAGTTCAAATCCTGCTCACATAAAAGTCATCTG
CTCATTAAAATAACACAAAGCTGTTTAATTGTTGTCTTTGTGGAAAATTACATGACTGTCATCAGCTGTTGCTTCTGGCAGTGCTTTCTGTTCT
AATGTAAATAAATGAGGTAACAGATTTAAAGAAACAGGCTGTATTTACATACTTCTGAGGTATCCTCTCAAAACAATCTGCCTGTGTTATTCAA
ATACACACAAATTAAACTTGTGGTAGCTCAAACATTAGTTATTCATTAAAGCCTTAAAGTTGAAATGGTAGGAGGGGGGCAAGAGAACTGCACC
TCCCTTCAGGGGGTAGGAACCAGAGGCTGACTTTTCTGTGTGGACTGAGCTACTCCAGCCGGCGGAAATCCAATCCCCAGCTCTTTTCTATACC
AATTCTGCCCTGAGGCAACTTCTGAGCCAGGAGGGGAGGGTGGTGAGAGCAGAGGGGAATCTTTAAAGCTCTGACAAAAACTTTCCAGGGTCAG
CATTTCTTGGAAGGCCTCCAATTAAACTTTATTTTCAATTTTCATAAATCACAATTCCTAAATCATTGGATGTTTCTGACTCAGTTTACTTTTT
TGAGGTAAATATGTGGGCAATAATTTTTTAAAATTCTTCCTATTGAGGGCATGGCAAAGGTTTTATCAAACAAGGAAGGAAACAGTATATTCGA
AAATATAAGAAAAATGACAAGAGACCCCTCCAATAAACAAGTTAATGACTGGAAAATGTAGAAGTATATGGAACAAAAAATGGAGAAGAAAGCA
CACTGCTAATTATACAAAGATTAGGAAGTAGCGAAAGTGACTGTTTTAGTTCTTGGTAAGTGTCATTGTCAAGTATTAGCTTCTTTCTGGAATG
CTGGGTTTTTTTTAACGTTGGGGTGGGAGGGAATGGCACATCATCTGAGAGAAACAATAGTAACTATTGAAGTGGCTACCTTGTCTGGGTTAAA
TAACCGGGGTTCGTTGTCTCACACCAAGAAAATTTAGGACATAGACACACAAGAGGAGTTTAGAAGCAGAGGTTTAATAGGCAAAAGAAAGGGA
AAGGAAAACAGCTCGCTCTTTAGTGAGAGAGAGGTGACTTCCCAGAGGAAAAAGGCCGACTGGTGGTGGATGTGCCAGATTTTATAGTCTGGCT

TGAGGAGGCAGTATCTGATTTACATAGGGCTCACAGATTGGTTTGATCAGGTGTGAGGTTTACACAGCACTCAGGGGAGGCTGGTCACCCCACC
CTAATCTTATTATGCAAATGAACTCTCCCCTTGCCTGGCGCCATCTTGTCTGCTCCTTACTGTACACGTGGCCGGCAGAGAAGGGAAGATGGAG
CCGCCATTTTGAACATGTCTAGTCGCAGGTAATTCTTTCCTGCTGGCATCCACACGTGCGAGCTCTCAGTTTGCTTGTCTGTGTCTGCAGCTCA
ACTTTACAGGCTGCTCTCTGTTGAAAATGATTTGGGGCTGCTTTTCATTAAAAGGAAAACGTTACGGAGGACTTCTGTACCCTCACTATCTGCC
TAAGTAATTTCTTCTTAACTCCTGTATCACTATGATACCAAAGTTACTATACGATGACAACTCAAGCAATGTCTATTTCATGTAAGCCTCAGTA
TTCTATATTATGTTGTTTTGTCCAGACAATCCAAAGAAAAGACTATTGTTAACTCAAAATTCAGGCAAATTCTGGTATCAACTTTTCAGAATTT
TTTTTTCTCTTAAAACATTACTAAATACTACTTGGTTAGATGAACTAAATAAAAATGAACAACTTTTATTATTGGAAGATAGTTTTGGGAGGGC
TATTCTGGAAATGATTTCAGCCTATCATTTATCACTAGGAAAACACCAGGAAGATCTTTTTATTTTATTAAGTTTTTGTAAATTATTTCCAAAA
AGAAATTGACCACCTATCTCAATACCTCTTTCCCTGTAGCTCCTATTGGTATCTAACATATCAGCAGTCACCTGTCTTCATGTGACTTGGGGCT
AATTCCTGTGTACAAAGGGATTTAAATAAGACTAGTCCTGCTCTCCAAGGACCTAAATTCTATTAAAGCTCTTAATCTGGATATACACAGAAAG
GAAAATACATTTTAAAAGAATATGTATTAATAATGCAGTTATAGTTGTAGAATGAGGCTGCATGTATACATATAATAAGTTGTTGAAACTAAGT
TTTTATAGAATGACTCTGAGAAAAACTGTAAACACCTCAACTTATTGAGGAAATTGAGGTATGAAAAAGTTGTGTGTGTGATAACTTTTCTGTA
CGTCCATTTCAAAAATTTCTAGAAGTATGCATATATTTTTAGAGAATATACCAGAAATGTATTTTTGGCTATTCGATATGCCTAAAAAATGTCT
TTTTTTTCAAGGCTTCTGAAAATCGTAGACATAAAGAACTAAATATAATGAGGTTTTCAAGGGAGACCACACTAACCACCAGCCCCAACCCCCA
CTCTGCATGCCACTTCCTCCGGCAGTGATGGAGTGTAGACTAGGCTAACAGCACTGAGTACACTTTTAGCAGAGCAGAGCTACAGTGGGCTGTC
CTCATGGCTCCTGCTTTGTCCTCCCTCTCTGGTGATGCCCTTGCATGGGGTTGCCTCTGCAGGATGGTCTCCTTTTCCTACTGCTCTGAAGCAA
CTGTACCAGCATCAAAAGTTCATCTCTAGCAACACTGACATTGACCCCTGTAGTCTCTGGTCATCTTCCTGCATCTGACTACCTCCAGTGCTAG
TTAGCTTTGCTGCTCCATTTGACAGTCATTCAAATAGCTGCAGGGTTTGAATGCCTTCTTAAAATACCAGGATGGCTATTGTACACACAAAATC
ATTGAATCATTACGACAGACCTAAGTAGTAGTATCCTATTTTATAGTTATGGAAAGATAGCCCAGAATACTTCAATAACTTTCAAAAAGTCACA
CACTTGGCATGTGGCAGACCCACTATTCTAAATCCAAGGCAAAGCTCTTTTTTTTTTTTTTTTTTTTTTTGCTGCTTTATATATCATCCACTGT
CTTTTCTAGAGTTGGCTTTTAAGATATATCTGTAGATAACTGTGTCTCCTTCACACAGGAAAAACCCATGAATGGAGGGACTAACTTATTTTTA
GATATATCTTCCTAAAAGACTTAATAATATAGCAAGCCAAATAATGTGGATGGGTACTCAATGGGATTCAAGATCCCATTATGTTATATGAGTA
TATCTGAAGTTTTATGTATATGTGTGTATTTTAAGCTTGTGATACTTCCTTGTTTATGTCTTTTCAAACATAAGGCATCTCACATGTAAGCCAG
ACCACACTGGTTTGAGGGAAGCAGTCAAATGACGTGATCATAAGAAGACTTCTCTCTGACTCATAGTCAGCCTCCTAAATCTCTTTCTTCCCCT
GAGTAAGATAAATACTTCTTTATCTCTTGTTTCATACCTTATACCTAGTGAGACAGCACTCCCATTCAACTCTCTCTGCCTCTGTTTGATAGGG
CCTCCCTTTACTCTTCTTGGGAAAGAAATACAAGTTCCCTGGGGGCAAGATCCTAAGACAATTTAAGTAATACTTCCTTGGGTATTTTACAGTA
GGAATGATTTTCATCTTGAACTTGAAAATACCCTACTGTAAAATACCCAATTCCTACTGTAAAATACCCAATCACATCTATGGAGTATAAAGAA
CATTTCATAGAAAACAAGAAGTAGAAATAATCTTTGTGGATCGAGCTGGTACCCACCACCACCCCACATGTTTCTCCTGTTAAGATAGGTGATA
TTCTGCCCTGAAACTTATGAAGTGACTCTGACCCTGTCTTTGAAGAAGATTTCAGCCTTGGCAGCCTGACATCAGCTCCAGTTCATCCAGGCTT
TGTTCTTCCACAGATTCTTGTGCTTATAGAATCTTGAGTGGCTCTGATGTTCTGTTTCCATGGAGTATATCATAGCATCCATCTGTTCCTGGTA
TAAACAAAATAGTATCCAACTTACAGCAATGTCTCTCCCACTTATAATAAAACACCTAACTCTCATGTAGCATTTTATCCATATTGAGAGCTCT
GTGAGATAGAAATTATTATATTACAAGTCACAGATATGTAAACTGAGATGCAGAGACATCAATAACTTGCTCAAGGTTACAAGGTAAGTGATAG
GAGTCAGGAGTTTTAACTCAAGCAATCTGGCTCCAGTCTATGATCTTAACCACTATCATCAAGGTACTGTTTTACTTTAAAAGACTGGTTACTC
AGTAAGAAAAACTAGGCAACAGAGAGGGGTGATCAATATGCTTATAGCAAACTGTAGAAGAGTCCAATTTTAGCCTACACCCCTCCCCCTGGTC
TTTGGACATTACTTCTGTTTGCTGACCTTCAGTGAGAGTGTTCCTTAAATTTCTGGAAACAGCTCACTTTCTAGCTTAGCTTAAGACCAAAAAG
GGCTGTCCACCTTTAGAGTATAAAAATCTCTTGCTTATAGATTCTGCATTTGGATGTGGTTTCTTTAACTCACAACCCAGCGCATTGCTTCTGA
ATCACATTACAGAGGACTCTTCTGTTTCTAGGACTGCAGTCGCCAAAACAGCAACAGGAGCTGAAATGCATCTATAAAGAGAAGTTTCCCACTA
AAACTAGAATCCATTGCTTCAGTAGGACTGTCACTGAACTGACCGTGTGTTAGAAGAAACTGGCAGGCAGTATTTCCACATATAGTTCTTTAGG
GGTGCTAGGTATTCTTTGTTGCTGCCATTTAGAATCAATGTACTGACCATACTCATTTTGGCAGAGAACCTACTTTTGACATAAGCTTTGAAAA
TGTTTGCTGCCCCCCCACCCCGCCTTGCCTCACCCTACCCCAGCATTGTTGCTCATGGCTACAATATGTTCGCACTAATAACTGCAGGCTCTTG
TGCACATAAGGAAGTTAGCCACCTTGGTAGAAATTAGAGGAAAGGAAGAAGGAGGGAAGAACAGTTTTATTTTCAAAATCCAATTCTGTGGAAA
AACCAGAAATGCAAAGACAGTGTTTGTTAGGAAAGCTAGGACCAACAAAGTGAAATCAGATATATTTGTTTAGGAAAAATAGGGAGCTGTTGCT
TTCTTTATGTTAAAAGTATGTTTTGCAAACTTTAAAACTGCTCGGATACCTTGGTTCCTAATTCTTTTTTGTTAAATAAAATTTTAAAAGTAAA
AACTCAGGAACATTAGTTTACTTATATAGAGTCTTTATATTAAGCAGATTTTTTTTTTTTTAGATCTTTAAAATGGTAGTTTCCCAAAGTGATG
AAAAGAAAAAGCACTTACAATGTGCTGGACATTGTTTTAAGGTACTTTATTAACCACTTTAATCATTACAACAGTACAGTGAGGTAGGTACTAT
TGTTATCCCTGTTTTGTATACAGGGAAACTGAGGAACAGACAGGTGAGAAACCTGCCCAGGGTCTCATAGCTAGTGTTTGGCTGTGCTGGGGAT
TCAAACCCAAGAAGTCCAGCCTCAATACTCCTTCTCTGAATCACTGCACTGCACTTAGGGCTCTCATGGACTATGCGTGTGCATAGATCTGTTG
GAATTTAGAACAAAGGTGATGATATTGGGGGTAATAAGACATTATTTATCGAATACCTGGTCGTGTATCAAAACCTTTACATAGGCTTCCTGAA
CTATGACCCTGATGGGTAGATGATATTACATCCACTTAATAGATTGGTAAACTGAGGCTTAATGAGGGAACCTGACTTGCACAGGGTCTCACAG
CTGCTAGGAGGCAGAATCATAACTGCAGCTAGGTGTGGTTTGTCTCTGACCTTTGCTCTTAACCTCCATGCTACACTGCTCCTGCTTTGTTTGT
TAATTATCATGTTCTAATATTCTTAAATAGTAATAAACATAACATCATCAGGGTTCCTCATTAAGTGATCAGTCACTTTGGCCTCTGGTGATAC
TTGATGGGGTAGGGTCGGAGGAAAGTAACTGGAAAAGAAAAACCAGATTAGCTTTACTCTTCCCCCTCCCCTCCAGATTTCAATTTCAACCCTT
CCCCAAGAGAAGAAAACAATCCTTCCTGCAGACTTCTCTGGAAAAAGCCACCACTGTGAGCTTCCACTCGTTGTTTTTTACTTTAAGCACCGTC
CACAGAGAGAGTTTTTAACTGCAGTACAGAGCTGTGCATAAGCCTTATGGAAAACTGATGCCCAAGTTGATTAGCAGAGTGGCAGTTGAACAGG
AGACTATTTCTTCAGACCCCTCAAGGAGAATTTCCTTGTTTACCTTATATGTTTAAATTGTAATATCTCCTTTTCTCTCCACCCCCACCCCTCC
CACCTCCAAATATTATAAGAACAGAGTTCCTACATGGCTTAAACATACAATGCACCCATACTTTTGCACATAAGCATGCTCTGTGATTTGGAGC
ATTCTGTGTGTCTGTCTCAAATTCCCTCCTCCCCCCACTCCGCCACGGGTTTTTTTCCCCCCATTAGGCAAATGGAAGGCCCATGCCACCTGTT
AGCATTACATCATTGGCTCCCCAGAACACAGTTGCACCAAAGGCCTTAAACAAAGTAGTTCTTCTTGTATTGTTTGCACTCAAAGAGCTGATAT
CATGCCAACTGATGTCATTGTATGTCTTTGTGTAACTGCTATGGCAACTGGGCAGGTGGGGAGCCTCCAGCTGATGTCATTGAGAAAGGAGGTG
TAGAGGCAGAATTTTAAAAAGCTGGACGCTGCTTTTTTCTGTGTGTGGGGTTTTCTAGCATGTGTTGGTTTTTTTTTTTTTTTTAAACTAGCT
GCTTTTAAGACAAATTACAGCTTGAGTACCCTAAATAAGAACAGAGAGGTTTTTCCCCTGCTTTTAGAGCCTTCTTTTGAATTTGTTTTATTGT
TCTTCCCTCTCATCTTATATGGAAAAATGTAACAACTGCCTTTTTTGAAGAAAAAAGTGAATTAGGTTCCCATCACAGAATCTGTGTGGAATTT
GGGTTTTTGTGGAGGCGAAGCTGAGCAGATTTAACTCTTCAGAATCCCTTTTGTGGAGGCTGTGATGATGACAATGGGTAGTTTTTATCTTAT
TTATTTTTAAGTCTTCACTGGTGAAGTTATTTTCCATATTTTCTTTCTTCTACTTCAGAATTATCTCTTCAGGTTCAAACTTTATTGTCATAA
TTGCCTAGCAGAATAAACTATCATATGTAAGGGCAGAGGTTAATTCTAGAAATCAACTGAAATTCGTATATAGCTCTTGTTTTTCTTTTCAAAA
AGCTAGGGTAGGTTTTGACTTCTTACTTTCAATGAGTAAAGTGAACATAATATTGCCCTTTGAGTTTTCTTTGGATCATAACCATACCTTAAGG
AAAATATGATTTCTCTCTTTTACACAGCCAGCTCCGGGTCCATTGGTTGTGAAAAGTCATGAGACTCGGTCTAGGTTATGGTCTGGAGTTTCCC
GCTGTGGTTTGTCAAAGATGAGACTTGAAATGGAGAAGAACATATGCCAGGCTCAGAGGCTAGTGGACAGATAGACTTCCTGTCCTTATTGCAA
CATAACCGTCTCTTGTTCATGCTTTGGGTTTTCTGCCTTATCTCCTGGAACTATCAAGACAGCCACAAGCCATCTGTCTTTGAGGGTAGATGTT
GTGTTCTGGTGGCTTTCAGCTAATAGGACTTTTCCACTTCCCCCTCTTTTCAAAGGGAAAGCCAGAGTGTATCTAGTTCTGTTTGAGTAGGGTT
AGAGCTCAGTTGGCACTAATAATGTCAATCCAGATTTTATAGCACTTACATGTATATTATTATAATTTGAGCTTTGTAATAATCCTTTGGGTTT
ATCTGTGCATGCCATTGTGTGTAAAAATATTAGCAGAAAATTTAAACAATAAACTATGATCCGTAAATTCCCTAATTTAAACAATTGTTCGTTT
TTTGTACAGTTCTTCAGCTTTTGGTCAATGTTTTTTACTTAGCTTTTAAAAAATTTAATATTAAACCAAAATGTTTTATTTATTTTCACATCCT

TTTTGCAACTACTCTTTTAAAGGCTACATAATACTCCGTGGAATGAATGTAATAACTTTTTTTCTTTTATTTTTGTGTTTTACTTGGCCTTTTT
AAAATATATATAAAACAGATAACATTGTAGTGAACATCTCCATATATCTAGCTAACTATCTTTGGTTAGATGATTTCCCTAAGATCCATTCCCA
AAAGTGAGATTGCACTTGTTCAGGGGAAGGTTTGCATTTTAAAAATGGAGAAATAAGCACAGTTTATAAGCTTTTTATACTAGACCCATAACTC
GTGGGAGGCAGAGCAGAGCCGTAAGCTCAAAAGCATGCATTCACACATCCAAAAGAGGTTTCTTGATGGGTTTATGTGCCCACAAGCCTTGGAA
AGTCGAGGAGTAAGCAACCGCGCTGCTCTCACATTCTGTTCTACTGAAAGTCAGGGTTGATAAATGTCAGGGCCCTACGTGGAGAATATCAAAA
AAGATTATAAGAGCAGTCCTTCACACCCCACCCTGGCTTGTCTTTTCCAAGTACTTCTCTGCTGATTTCACCTGTGGGCAATCATATAAATAAT
ATAAATTAAAATAGTGAATGCCTGCTGAGTTCTACTGTGTGCCAGGAGATGTGCTAAGTATTTTACACGTATTCATTTATCTCAGGCTCACAAT
TGCACTCAAAGGGAGACACCATCACCCTCAGTTTACAGATGGTGGAACTGAAGCACAGAGATAAATGAACTTAAGTAATAGTGTCAGGAAATGA
TGGTACCCAGATTATAATCAAGATAACCTGTCTCTTCCAATGTTCCTGCTTGTAACCACTCTGCTGTATTGGGAGCAAACTTGTCCCTCTGGGT
GAGGTGAGCTATGAAGGGTGCAAGACATGCTCCTGTGGTGCTGAGATTCCACCCGAGGAGGTCATCTGTGCCTTTCTTGGCTCCCAAAGCACAG
GGTTCTATGTAGGCCACTGAGCATATGGCTCTTTGAGGCAGGTCACATTTGCAGCTGAGGAAGATTGCCTGATGCCGCGTGGAACTCTTGCTAG
GGGAACATGCCCTCATTTGTAGAAAGAGCACATTTCCAAAGTGTTCCATGCAGTGATACTCCCCGAAGCTTGTCTTGGGTCTCCAAATGGACTT
TTAGTTTTTGTTTTGTTTTGTTTTATTTTTATTTTTATTTTTTTTGCTTAAATACATATTTATATATGTATTTAAAATATGCATGAGCTACAAT
GCAAACTCATTCTAATGGGGAGGTGGCATTCTCTGCCAGCTCTGAAATCTCAGTCACACTCACCTTCTGTGTTTGTGTTCTAGGTGGACTTAGT
AGTTTTAAGCAGAACCATGAAAACCTCTGTGACAACTCCCTCCAGCTCCAAGAGTGCCGGGAGGTGGGGGGCGGCGCATCCGCGGCCTCGAGCT
TGCTACCTCAGCCCATCCCCACCACCCCTGACATCGAGAACGCTGAGCTCACCCCCATCTTGCCCTTCCTGTTCCTTGGCAATGAGCAGGATGC
TCAGGACCTGGACACCATGCAGCGGCTGAACATCGGCTACGTCATCAACGTCACCACTCATCTTCCCCTCTACCACTATGAGAAAGGCCTGTTC
AACTACAAGCGGCTGCCAGCCACTGACAGCAACAAGCAGAACCTGCGGCAGTACTTTGAAGAGGCTTTTGAGTTCATTGGTAACTATCTCCCAT
AGGGAATTTTCATCCGCTGCCTTCCTTTTCCCTCCAGCTCTTGCTTTGATATCAAGTTCAAGGTTTATTCCTGTGTTGGAAAAGAAAAGCTGCC
CTGGAGTTTTGGAGGGCTCTGCCACCTGAAACAGCCTAAGCATTCTCCTAAGTCATAGCCTGTCGAGTGTATCCAAGCCATCAGGATGGATATA
AAAGGACAGTAATTGAATTTGTTGGGATCTGTTCAACTAGAAATCCTCATCCCTCAAGTTCTCAGTGAAATAGTGGTAGGGGTTAGCATTTATG
TGCTCTGTAACCAGAAAAGTGGATGGAAAGTAAGGAATCGGAGGTCAGAGCTGGTGCTACTGCTACTTGATCTACTAGCGCCGTTGAGCACCTT
GGAAGCAATATCTAGTGAATATGACACCCCTTCCAAACATACCTATGCCTTCCGGTCACCCTACTAAGCCTTATTCATCCAGCATAAGGGGAGA
TGGTACTAGGTTTCCTTTGACAGTCTGCCCCAAACTCATTGAACTAGGAAAGATCAGGTTGTGTAGACGGAGTAGTTCCCAAGGAGGAAGTTTT
AGCAACAGCACGCTTTGATCCCCAGAAGGAAGCAACTATTAGCCTAATCCTAATCTTAATTTCTGCAACTTCTATAGCCCCAAACTGCTATAAG
ACTCAAAATATCGCCGGGCGCGGTGGCTCATGCCTGTAATCCCAGCACATTGGGAGGCCGAGGCGGGTGGATCACCTGAGGTCAGGAGTTTGAG
ACCAGCCTGACCAACATGGAGAAACTCCATCTCTACTAAAAAAATACAAAATTAGCCAGGCGTGGTGGTGCATGCCTGTAATCCCAGCTACTCA
GGAGGCTGAGGCAGGAGAATCGCTTGAGCCTGGGAAGCGGAGGTTGCAGTGAGCTGAGATCACGCCACTGCACTCCAGCCTGGGCAACAACAGT
GAAACTCTGTCTCAAAAAAAAAAAAAAACACTCAAAATATCATTTTGGGAGCACCTGCAATATAGCAAACTCAACATTTATTTTTTTTACGT
AACTTCAACTTTTATTACCATAAAGGGGTGGCCTAGTACTTTTCCTAAATATTACAGCAGGTTGTTATTCCAGGAAGAATACAGTTAAGTGGAG
TGGGGTGTTCCTTTGTCAGAGAAAGAAAAAAACAGCCTCAGGTTTAACAGCCAGTGGGGTCTGGTGGATTTGCTGTAGTGTTGACATCTCTGGT
CATTTTGCCAAGCTGTTTTCCTTGCTAATTATGCCGTCAGCACAGGACCATGGAATATTGAGTCTGAAAGGAAATTCAGGGTGATCACTGAACT
TAGAGAAGTAAAGTGACTTCTTCAAGGTCATAGGAATTCTAGTGTCCAAGAAGGGGCCAGAATCCAGGGTTTTTGACTCCCAAGCCTGAGGCCT
TTTCACAACACACTAAGGCAATGTTTATGATGCCCTATTAAGTAATTCCCAACTGGCAACACTGAGGATGCAGAGATACTGCAGATTCTTTATT
AATAAAATCTGAGCCAAACCTGGAGCGCTGAGGAAGAAAAATTTCTCAACAAGCATATGAGGAACTTCTGGTTGATACATGATGTGATGTTATG
ACTGAGATTCCATCTGACTTAACTCCAGTTGGAGGAAGTTAGGAAATTGTTTTCTATTTAATGAGTAGGGTAAGATATACTTGTTCTAAGAGGA
TTTCAACTAAAGCTCCTTCTCACATTCCTTATAGATTATTCAGGCTTACCTGCCTTTTTTTTTTTTTTTTTAAGGAAAACAAAACCAATAACAA
ATAGCATTCAGCCCGAAGAACAACTCCATATCACAACCTGCATAGGCACAATTTTATTTTCATTGTTATATTATTGGATAAACTGAAATCTTAC
AGTCTTGCTTTAGTAAAAACACAGCAGGTTTTATAAACATAATAGCTTTCACTGAGAGTGTAATATAAGCTGAGCAGCATCTAAGTTTAGTGTT
TATACCAGTTTATTTATTCCTGAATCAAGTGTGTGTAGTGGAACCGGTGGTCCAGCCAGGCACTCAGAAGCTCATTCTCTCACCACCATGCTTT
CTGGTCTTGACTTGGAGCTAAATACCGTGTGCTGAAGGGAAAAAGTTGAAAAAGAGAGATGCTTACTTTCTTGAAATACTGTTGACTATGAGA
AGTAAACTTCATCTGTAAATTTTTAAGATGAAAATTTACATCAGGTTTTTTTTCCTTGGTCCACTGGTGGGTAGCCAGTAGATGTAGTTTAGGT
GAAATCACTACTCTCTCTACCCCTTCTCCTTCCCTACCTGTTTATCTAATTGGTGTTCCTTCAAGGAAGCTTTCTTAGGGATGTGTTAGAGTCT
AGAAATGTCATTAAGAATCTGTTCAGGTAGTGCCCACATGCTATTGTCCTGAGCTTTTAATATATTTGAAAACTTAGCAAGTCTTCCTCTTTCA
ATTGCTCTGGATTTTGAGCCATTGCTGGGATTCCTCCATCTTCTGCATTATTGCCACACTGGAATGTCATACATGGAAGCAAACGGGATTGAAT
GCTTGAGAGGTGACACCCTCGGCCTGTATACTACTAGCCTTTAGTTAACTTTGCAACAACTGGATTTTCTGGGGAGAAGCTGAACATAGTATCT
TCCTAGTTAAGCTTTATTCCTTTAACCTTAATCAGGGTTTAGTAAGACTAAAACTCTTATCCATTTAATGCCCGTTCCTGTACAGAGCAATTCT
ATAGAATAAAGAAAGTGTTTTTTCTCTATTACAAGTGAGAGAGTTGTTACTAGCACTAGGTTTGTTAAGTCACACAACCGAAAATTGGAATTAA
CATCCTTAATCCAAAGAGGAACTGCATATATATATATACACACACACACACACATACACACACATACATATATATGTGTGAGTG
TATATTTTCATGTGTGTGTATAATTTTTCCCCTTCCTCTCTCCTTTTCCTTCATTCTTTTTTTTTCTTTCAGTAGTGTAATTCCAGAAAAAAAG
AGAACAAGACATTTGAGAGAAGGTTCAGTGACTGTTAGAGTCGACTTGATCAGTAGCTTGTTCAACGTGAAAGTTAACTGTGTTATAGGTCTGG
CTTCCGGCCACTGCTGTCACCTGTGCAGCAAACTGTTCCTATGAGCAATTCTTTCATTTAATCTTCTCTTTAAATGTAGATGTATAGCTTCTTG
TTCGTGCTGATATCAACTTTAGCCAGTTCTGGAAGTTGTGACATAAGTATACGTAATGAACTAGTGGATTATACTTGGCTTTAAAACTGTTTTA
ATTCATTATTTCTATACAAAATAAGGCATTGCAAAGTTGAGATGAAAGTTTCTCTCTCCGTGCCTCTCTCTTCCATCTTCCCTTCATCTCTTGT
CTTTCTCCCTTTTTTCAGAGGAAGCTCACCAGTGTGGGAAGGGGCTTCTCATCCACTGCCAGGCTGGGGTGTCCCGCTCCGCCACCATCGTCAT
CGCTTACTTGATGAAGCACACTCGGATGACCATGACTGATGCTTATAAATTTGTCAAAGGCAAACGACCAATTATCTCCCCAAACCTTAACTTC
ATGGGGCAGTTGCTAGAGTTCGAGGAAGACCTAAACAACGGTGTGACACCGAGAATCCTTACACCAAAGCTGATGGGCGTGGAGACGGTTGTGT
GACAATGGTCTGGATGGAAAGGATTGCTGCTCTCCATTAGGAGACAATGAGGAAGGAGGATGGATTCTGGTTTTTTTTCTTTCTTTTTTTTTT
GTAGTTGGGAGTAAGTTTGTGAATGGAAACAAACTTGTTTAAACACTTTATTTTTAACAAGTGTAAGAAGACTATAACTTTTGATGCCATTGAG
ATTCACCTCCCACAAACTGACAAATTAAGGAGGTTAAAGAAGTAATTTTTTTAAGCCAACAATAAAAATATAATACAACTTGTTTCTCCCCCTT
TTCCTTTTAAGCTATTTGTAGAGTTTATGACTAAATAGTCTGTGCAGGTTCATAGACCGAAGATACTACACACTTTAAACCAATTAAAAAGAAC
CAAAAGTAAATAGAAAAGACATTGAATCACCAAGGCCTGGGATCAACCTGGGCTGTCCACACAGAAAACAAAAACCCAACCAAACCAAGCCCTG
TTGTGCTCACTGGTGCAAAGAGAAGATCAGGGCAGCTTAAGTGGTCTAAGAATCCTTCAGGCATTCTTTAAGGAGAAAAAGGATACCTTTGATT
TTGTGTGTTTCATGCTCTGGATTTTTTTTTTTTTTCCTTCTCTGGGTTTAAGAGATTTTTTTTGAAATAGTGAGGAACTGACCATTATATGCCT
TCACTGGCTTCTTGTGCAATAATATGATGTTTTAAGTGTGCAAACAAGTTAGAGCTGGCAGCTGAATGATAGACAAATAGTGCAAATTTGCCAG
CTTGGAGATAGAAAGGAATTCAACAATATATCAAATACTTTCCTTCCCACCTTTTTCCTTTTTTTTTTTTTTTTCTGATTTGATTCTGGTTACA
GTGCCATAAACCTTGTTACATATGTATATCAGAATGTAAGAAAAAAAATTTATTTAAAAATATTTTTCGCAAAAAAAAAAAAAATCTTGGTGT
GTTTCTGTTGATTGTGTAAAAATTTATTTTCATTATATAAATGAAACTGGTTTAGGATGTGTCTTTTTTTCCCCTCTCTTTTACCTTAACTCAG
GTTCAAGCCTTTCTTAAGCTCTGGTAACTTGCATATACAACAAAGTTGAAATAAAACAGATTTTTATATAGGGAAAGAGAGATGAGGAAGGGAA
CATATCCAGTTTTCTCACTGTGAAACAGAGTTAGCAAGGAAGTGGAAGAGCTCCAGTATTGATCTGCCCAGTCACTGTCCCTTATATTCTCACA
ATGCTGTCATCCTCTCCTGCAAATATCATTCCTTTTGCATCGGGGAAGGCTTGCATTAAGGGGATCCCATCTGCCTTTGCGCCTTGGTGACCAA
ATCCCTGCCAGATTGATTGGTGAGAATTCAGTGATCTCCCTAGTGGCTATTTGATAAATACTTAGGACAATCTTCCATTTAGGGATCTTGATGT
TCCTCCCCCCACCCCCCCACCCCATTGTCACTTGCTCACTTGGCATCTTTGGTGACATTAACCATGTAATGCGTTGCAGCAAATTGCTATTGCC

TACTCTTTTCCCCAGCAAACTGAAACTCAGCTCCATACATGTGTACAGCTTCCTTATAACACTGGGTTAATGCATAGCTGGGTTCCCAATTCAC
TGTTGATGGAGGGTTGGGGGTATGGGAAAAACACAATGCAAATATTTTCTGTGTTTCATTAAATTAAAAGTCTAGTGGGACTTGGCCATAAGGA
AGATTTATGGCAAACTGAAATTTGCCTGGGGTGAATAAAAGAGTTGAAGAATCTGGCATGTTGGATTCTATGTGACAACATTTGACATAAATAA
TTTTGTGTATGTTGGCTTGAAAATGTTAGGAAATATTTTTGACATTTAAAAAAATAGCTTTTCTACCAAAAATAATTTAAATTTTTCTTTTATA
GAAAAGTGGAGACTGAATTTAACAGGAATTAACAGCTGTTTTAGATTATTTTAATAGAAAGTGTTAATCAGGTGAAAAGCAAATCTCTGCTTTG
TGCTTTCTACTCCTCAGGCTAACAATTTCCTTGGTGTTAGAGTATTTAAGGAGTGAGGTTGATATATAATTAGTGATTTAAAATACATGGTAAT
TTAGCAGACATTTCTTTTTGTTATTTTAAGTCTAAGTGTTAAATTTCTGATAGCATGTAAGGTATATTGCCTCCCTCTGTCCCTTCCTTCTTTC
CTTCTGCTTTTTCTTTGTTCCCCTCCCTTCCTTTCCTTCCCTCCCTCTTCCTTCCCTCCCCTCTTCCCTTCCCTCTCCCTTCCCTTCCCTCTC
CCTTCCCTTCCCTCTCCCTTCCCTTCCCTCTCCCTTCCATTCCCTCTCCCTTCCCTTCCCTTTCCCATTTTCCCACTTTGCCTCATTCCCTCTT
TGCCTCTTTCCCTCTTTCCCTCTTTGCCTCTTTCCCTCTTTCCCTCTTTCTCTCTTTGCCTCTTTCCCTCTTTCCCTCTCTCTTTTTTCTTTCT
TTCTAACAAAACAGAGAAAAGTCAATACAGTTTCTCATCTTTATCCACATGGAAATGATTTATGTTTTTGGAAGTTTATGATTTTGAGAGAAAA
GCCTATCCTGGGGCAAACAGTAATCCTGCCAACCAGAATACCAAAGATTCTGAGAGGGACTCAGGTCTTTTCTACTAATCTGCTGTGAGTCACT
TAGCCTCCATTTCTTCATAAGGAATGTTAACCACTTCATGAAAATAATACAGATTAACCAAGCCATAGCTCTAGAAACCAGACTCCACATGTTG
CTGGGCCTCACTAGCTGTCTGGGAGCTATAAGGCTGCCCTAGGAAATAATTGTGTCTCCCCAAGAAAGCCAAGTCCCTGACCAACGCATGAACC
ATTCTCAGAATCCAGCAACGGTTGTTTTATATTAAATGAATCTAATTACTTAGTAGAGTGAACCTGTAACTAATTTAAAGAAATACAGCAAGCA
TTGTTATCTTAGGTTGAACAAAACAGTAGCTTTAGGTTTCTATATATATTACATTTATTTCAATAGTTAATACTTTTCCAATCAATGCATGTGA
ACCATGATAGGGAGTTTTCATTTCTTGAAAGAGTTTGTGCCAGTGTCTTCTGGATAAGGAAAGGCATCATGGGAGGTAGGGCAAGGAAGCTGAC
AAAAAACATGTACAAGGGGAAATATTCAAGAAAAAATGTACACAACCACACAATCACATGCTGGCAGTAAAGGGGAAACATGGCCTTTCGTAAT
ACGGGAAACAGGAGAAAATGGGAGGCTAAAATGAAAAGAAAAAAACCTATGTCAGAGTAAGGAACTAGGACCTGAATTACACTCCAGAAGCTGA
CTAAGATAGAATGCTAATAAATTGCTCAACTAGATATTCTGATGGTAAGAAGTCCAATGAGCCAAGTTAAATAGAGATCAATCAATGATGGCCT
TCACATTATTTGGGGACAGGCTCTTGTAAATAGGTCACAACACATTTTATTTTATGCTTTTTTCCCCAAACATGAAATATCAGGAAATATAGTT
GCTGTTTGGTTTCAAGCTCTGATTGGAGACAGTTGTTGCATATGAATGGAGGTCAGATGAAGGGTGGTAGAAAATGACTATTTTAGCACTGGCA
CCCAGAAGGATGGGTCATAATTCAGAAGTGCCCCAAATCACACCTATCTGTAGAAGACTTCCTGCCTTTTTGAGGTGGTGGAATATGAACACCA
GTGCTTTCTGTGGTTCCTGATTTCTTCCTTCGTGACAACCTTTGTCAGTGTTTGATACAAGGTGCATGTATCGGTGTTTAATAAGAAGCAGAAA
CAGTGACATAGAATGAGGGGTTTATTCCAGGGATTAGACCTCAGGCAAGTGTGGGATCTGGTGAAGAAGTCAATGGGAGTGTGTTGCATCTGTC
TGATAATGGGCTGAACTCTCCGGGTCAGCACAGCCACCAGTAACAAAAGCTGGGCATGAAGTAGAGAAGAACAAAGAATTGGAATTAGGAGGAA
AAACTGGAACCCACATCAGCCTTTTACCAACCTCAATGGGGGTGACTTCCAGAAGGATCTAGTGCCCTCTGCCATGGAGCTGAACATGTACCTA
GCATAGGACTTGGCAAAGCTGAAGACAGAGCTTTGGGAGCTTCAACTACAGCTGCTGCGCTAAGTCCAGGTGAGTCACCACATCAGGGTAAATG
TGTGCTTGCCATCATAGAGTTTGGTGCCCCCTTCAAATGGTTGCTGCTTCAATTCTGCTTTTCCAACCTCATGCAAATTTCCCCTAAGGCTAAC
CTTAACTCAGTGTGAATCAGGAGAGGAAATTCTGGAAAATATAGCTCCTGATTTAGCCAATTTGATACTGTAGAAAGCTACCAAAGTCCATCCC
TTGCCAACTTGGCATCCATGTCCACTTCTCTTAACTAAATATAACTTCCAAATGAAGACATTAGCAAAACGATGCTTCTATGTAGTATGATGCA
ACTATCAGTTCTACAGATGAAAACACATTTAAAAGACGACTGGGTGCAGTGACTCACACCAGTAATCCCAGCACTTTAGGAGGCTGAGGTGGGT
GGATCACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCTGTCTCTACGAAAAATACAAAAATTAGACAGGCATAGTGGTG
CATGCCTGTAATCCCAGCTACTCTAATCACTTGAACCCAAGAGGCAGAGGTTGCAGCGAGCCGAGATTGCACCACTGCACCAGCCTGGGTGATA
GAGTGAGATGATGCCACAGAAAAAAAAAAAAAAAAAGATACATAGCCTCATAGGTTACTTTGTCCATTTTGGGATGATATTCAGTCTTTTTTTAG
CTAAGATCCACTTTCCCTTCGATGTCATGTCATTTGAATATACTGAGATATAATGATATTATGGGTTGAATTGTGTCTGTCAAAAAGCCATGTT
GAAGTGCTAAACCCTGAACCTTGTAAATATGATCTTATTTGGAAATACGGTCTTTGCAGATATAATCAAGAAGAGGTCATATTGGATTAAGATG
GGCTCTAATTCAGTGACTGGTGTACTTATAAGAGGAGGGGAATTTGAACACAGACACAAAGAATGTCACGTAACAATGGAGGCAGAGATTGGAC
AAAGGAACATCAAAGATTACCAGCAACCATCAGAGGCTACAAGAGACTCATTGAACAGATTCTCCCTCAGAGCTTCTAAAAAGGAAGTGACCCC
ACTATCACATTGATTTAGGACTTTTCGCATACAGACTGCAGTAAAATAAATTTCTGTTGTTTTAAGCCACCCAATTTGTGGTACTTTGTTATAG
CAGCCCTAGGGAACTAATACAAAGACTATTATTACCCCATTTTATATTAGATGGTGGATGGGGTAGAAAAAAGAATTGGTTAATATACAACCAA
ATATATTTATATCAAAAAATAAATATTCATAATTCTTACCATCCTAATTTCTATAACTGATCTTGTGGTCATAGCTGGTATTTATAACTTCCTT
CTTTCACTACCCATTCCATATACTTGTGTCCTCAGCAAGCACATCACCTAGTCATGGTTTCTTGCCTGTTGGGGTGATGTCAGTTTTCATTTTT
GAGGGATCCAAGCTTTTGCAATTGAGCCTGCATTGGGTTATTTTCCACTTACTTTGTTCGTTACAGCAACAAAAGTAATTACAAGACTTGAGAG
TATAAGATATGATCTTGAATTCCAGGCACACTTTTTCTTACTCCTATAATCTGGTAGTAATCCAATTTCCCCAGTCATCCCAGCCAATACACCA
ATATCTGACTTTGCTTGTTGATTCTTTAGCATAAGGAGCCCAAAGTCGGCAGCAGGGAGTATCAACTTCCATCTTAATGGAATCATTGCTGTAT
CTCCTAGTAGAAGCATCTCTCCCTTGGGGACCAGAACTTCTAGACCAGCAGAGTCTAAAGTTGAGAATAGAAAGAATAAATTTTGCTGTGGATC
ACTATGGGTAACAGTAAGAGGAGCCCTTTCCATTTTTCCCCCTTGATTCCTGGATCTATGAAATCTGGATAAGAGAGAAACAGCAACATGCATT
GATTGATCATTTAGAGAATTTACTGCATCTTTCAGGACATTATCCTAGCCCTGCAAAGTGTTTCCATCCATCTAGCACAGTAAATAGTTAAAAG
AAGAATTCCACCTTTCTACTGCTTTAGAGTGATGAATAACAAGTTAAGACTAATGAATTCCATGAGCATGAGTCTGTTATTCTTCATTTGCTGC
AAAGTAAGTTCCTTGGTCAAAAGCAAAGCACTGTGGAATAACATGAAGGGAAATAAGATATAAGAATTCTTTAAGTCCACAGATACTGATTTTG
GCAAAGGTATTACAGGTAGGGAAGACAAATCCCTATAAAGAGTAAGTTTCTATGGAGCAAGAACAAAATACTGCCCTTTCAGGCCTTGTGAGTA
GAAGTTCATGTTGCTGAATTCATGCATACCCTCCATGTCTACCATCATGGCTATTTTGTTCACGAGCTCATTGGTCAAGAACAGAAGAAACTGG
AAAGAAAAACCTGATAGAGGTCTGCAGAATGTGTTCTCTTGTCCATTATTAAGATTCTTACATGCTGAGGTTGAGCTTTGATCAACATTCACAT
GGGCCCATTTAGGAAAGTCTATCCATTTACTTCTTCCCTAGATTTTCCTGTCACTAATTTTCCAGTCATGTTTCTTCTAAGTCCCTTATTATCC
ATCTAAACGTTAGCAACTGCCCATGAAGCAATGTAGATTTATACCTCTGGCTGTCTTTCCTTTGAGGCAAAATGAACAATTAGGTACACTGCTG
GAAGTTCTTATTACTGGGAAAATTTTTCTTCCCCACACCACCAGTATAGGGCCACAATGATTTAGTCATTCGGTTTTGGATGATACCAGAATAT
CACACAAAAATTTCTGTAAACAATGCCAAATATTTTTCAGTCCACTGGTCACTGAGTGCTTCCCATGAGGCCATGGGTGTAAGATTCTGAAGCT
ATTGTTGCACAAATAGACACCATGGGTAACTGGGTCACTTGCTTATTAATATACTTGTGCTTGATCTCATATATTCTACTTCCATTTGATCAT
TGAATGAACAACTTAGAGGCTTCCATTTGATCATTCATGCACAACTTAGAGGCTTGATGGATCAACAACACTTAGTTCATCATGGGCAGTTCAG
GTTGCATTATAACTTGATGGCCCATGATCAAGCTTCCAGTTTCAAACTGGTATTCTAAAGAAGAATTTTGAAGAGAAAAGAAGAATATCTGAAT
TAAAAGAAGAATTTTTCTGAAGAAGTTGTTATAGTTTTGCTCCAGAATTCTAAATGTCTGCTCTATGATTCATCTATCAGGTTAATGGCTTCAT
GCAAGATTCCTGCCTAACAGAGACATTTTTAGCACCATGGAATCTACTGGATCTAGATGTAAGAGCAGTTTGTATGGCAGCCTTGTATTGTAGA
GGCTTTTCTTGTTTTGGACCTCACACAAAACTAATGACCTTACATCTTACTTGGTAAATGGATTGTAGTAGCATGCCCAATGAAATATATATTC
TCTTCAAAATCCACAAAGGCCCATTAGACATTATCCCTCTTTCTTAATAGTAGGAGAGGTCAGATATAGCAACCTGTCATCATGTTCATGAAAG
GAATATCTTGGAATGCTCAAAACAAGTAGATCACTACAAATTTCAGTAACATTCAGTGGATATAAAGTGAATTTTGTGGAATTTATCACTCTCT
GGTATGCAAGTATCTTAACATCATATCTAGAACTAGTTACTTTATCCTATTTACCAGGTACAGTAATCATGATATAATATCATTAATATAATGT
GCCTGCATGGTATCTGATGGAATGGATAGACAATTATGGTCCCTGTGGACTAGATTACAACACAGGGCTGTAAAGTTGAAATAGCCCTGAAGTA
GGACAGTGGAGGTACATTAGTAACCCTGTTGGCTGGAAGCAAATTGCTTCTGATAGTATATACCAGAGGTTAGCAAACATTTTCTGTAAAAAGC
TAGAAAATAAATATTTTAGAATTTGGAGGACATATGGTCTCTGCCATAATTACTGAAATCTGCTGTTGCAGCATAAGAGCAGCCATACCTAATA
TGTAAATAGAGAAATGTAACTGTGTTCTAATAAAACTTTATTTATAAAAATCCAGTAGTCTGAATTTGGCCCATGAGCTGTAATTTGCTAATTT
CTGGAATTTATTAACAGGTATAGAGAAATAAGCATTTGCCAGCTCAGTGGCTCCTGACCAGGTGCCAGGAGCCCTATTGATTTGTTCCATCAAT
GAAACTACAGTTGGAACAACAGCTGCAATTGGAGCCAACATCTGATTGAGATATTAAAAATTCACTGTCATTCTTCAAAATTCATCTGTGTTCT

GCATAGGATAAATCAGCAAAATAAATGGGGAATTTGGTAGGAATCACCATCCTTGCATTTTGTTTCAGTTCCTGTTGGTGGCTCTAATCTTCAT
ACTCCTTTAAGAATTCAATATTCCTTTTGTTTACTATTTTGGCATGTTGCTTATTGCTGCATAATAAACTACTACACAACTTAGGGACTTAAAA
CAATAACAATTGTTTTGTTCACTAATCTGTTTTAGGCAGGTTCAATAGGGACAGTTCATCTCTGATAAACTCATGCAGATAAGAAATGTCTTCT
GGGAAGGCTTGACTGGGGCTGGAGAACGTACTTCCAAGATAGCTTGCTCAAATGACTGGCAAGTGCTTCTTATAGTTGACTTGGAACTCATCCA
GGGTTATCCACTGGATACCTTGGATCCTCTCCACATGGACCTCTTCATAGGGATGCTTGGGCTTCCTGAAAACATGGCAGCTAGTTTCCAAGAA
CAAGGATTCCAAAAGGCATGGATGAAAGTTGTAAGTCTTCTAAATCACTTAAATTCCAAAGTTCTGGATCACTTCCGCCAAATTCTATTTATTA
AATGAATCAGTAATGCAAGCCCAGATCCAAGGGTTGGGTAATTAGACTTCACTTCTCAATGCATAGAGTAGCAAAGAACTTGTGGCCATCTTTA
ATCCACGATAGTTCACTTTGCACAACAAAGCCAAAACTAGGAGACTGACAAAGGTTACTACCCCCAGAGGAGAGTTTTTGTAAGAAAATAATAT
CGAATTTCACAGATCTACTAAACCACTGGGGGCTCCACTGAGCAGTATTTCAAATGGATTACACTCTACCAAGTCAGGAAGATAAGTAAGAGAG
GTAGAGAAAAAGGCCCAAAGAAAAGAACAGAACACAAGTATTTATTCATTAGTCCTTATTCCTTATATATGTCAATTTCAAGGAAGTCATCAGA
AAGACATTTCCTTTCTCCTAATCTGGACATGAGTCTCTGGGATTCTCTTGAAAGTCATCTTCCCAATGCTAGGCAGCACTGCACCTTAGCATTT
ATCCATTTATTTGTTCATTCAACAAACATGTGTTTCATTGATATCTTTCAGTGGCCCAAACCATGGCAAGTGTTTATTAAGAAGACTCTACCCT
TGAGGGGCCCATAGCCTCCCATGTATCTATTTAGACTATAGGTTAAAGACATACTTGGTCTTCCCTATAACACTTACGTCAGTGTCTTGGTTGT
GGTATTGCTCAGTATTTTATTATTGACTCATCAGAGCATTTTTACTCCATTGGCTTTTGACATCTAAAACAGTTGTCAACTTATAAAACTCCAA
AATATTTAACAATCAGCTCTCATAAGCTGGTGTGTGGGATGGTATCAAAAAGCTCTCCTCTACCTCGTAAGGTTGTCACTGCAGACAGTACTTC
AAGGATTTTTTTTTTTTTTATCTTTAGCTAATTTAAAGCTGTCACTCCTTATTTTGGATGGGAGGGAGAAAATAGCTAATTGGAAGCAGAGGAA
AAAATAGTTTCAGGATCAATGGTGGAAATAGCAGCAAAATAATTATTATTACAGTCGTAATGCTCTGCATTTATATGGGGTTTTTTTCCAAAGG
TCTCAGAACACTTTTCTGAATATCACCTACAAATTCAAAAACAATTATGAAGAAGTCAGAGTAAAGCATAATTATACCAGAAATTTACTCTGAA
ATGTAATTCAATACTCTAATACAATTTTACTCTCAAATATAATTCAGTGAAAAGTAGACTTATTGTAAACTGAATTATAGACATACATTTGGAT
TTTTTTTTTTTTTTTTTTTTTTTTTTAAGACGGAGTCTCGCTCTGTTACCCAGGCTGGAGTGCAGTGGCGCGATCTCGGCTCACTGCAAGCTCC
ACCTCCCGGGTTCACGCCATTCTCCTGCGTCAG

HUMAN SEQUENCE - mRNA
CCACGCGTCCGCAATGAAGCCGAGTGAATGGGGGCTGAATGTGCGAGTCCATAGCTGAAGAGGAGCGCCAGATGGTGGAGGAATACACTTATTT
ATGAAACTGTCTTGAGTTCTTCTTGAATTGCCAGTTTTCAGCCTCCTCATGCCTCCGTCTCCTTTAGACGACAGGGTAGTAGTGGCACTATCTA
GGCCCGTCCGACCTCAGGATCTCAACCTTTGTTTAGACTCTAGTTACCTTGGCTCTGCCAACCCAGGCAGTAACAGCCACCCTCCTGTCATCGC
CACCACCGTTGTGTCCCTCAAGGCTGCGAATCTGACGTATATGCCCTCATCCAGCGGCTCTGCCCGCTCGCTGAATTGTGGATGCAGCAGTGCC
AGCTGCTGCACTGTGGCAACCTACGACAAGGACAATCAGGCCCAAACCCAAGCCATTGCCGCTGGCACCACCACCACTGCCATCGGAACCTCTA
CCACCTGCCCTGCTAACCAGATGGTCAACAATAATGAGAATACAGGCTCTCTAAGTCCATCAAGTGGGGTGGGCAGCCCTGTGTCAGGGACCCC
CAAGCAGCTAGCCAGCATCAAAATAATCTACCCCAATGACTTGGCAAAGAAGATGACCAAATGCAGCAAGAGTCACCTGCCGAGTCAGGGCCCT
GTCATCATTGACTGCAGGCCCTTCATGGAGTACAACAAGAGTCACATCCAAGGAGCTGTCCACATTAACTGTGCCGATAAGATCAGCCGGCGGA
GACTGCAGCAGGGCAAGATCACTGTCCTAGACTTGATTTCCTGTAGGGAAGGCAAGGACTCTTTCAAGAGGATCTTTTCCAAAGAAATTATAGT
TTATGATGAGAATACCAATGAACCAAGCCGAGTGATGCCCTCCCAGCCACTTCACATAGTCCTCGAGTCCCTGAAGAGAGAAGGCAAAGAACCT
CTGGTGTTGAAAGGTGGACTTAGTAGTTTTAAGCAGAACCATGAAAACCTCTGTGACAACTCCCTCCAGCTCCAAGAGTGCCGGGAGGTGGGGG
GCGGCGCATCCGCGGCCTCGAGCTTGCTACCTCAGCCCATCCCCACCACCCCTGACATCGAGAACGCTGAGCTCACCCCCATCTTGCCCTTCCT
GTTCCTTGGCAATGAGCAGGATGCTCAGGACCTGGACACCATGCAGCGGCTGAACATCGGCTACGTCATCAACGTCACCACTCATCTTCCCCTC
TACCACTATGAGAAAGGCCTGTTCAACTACAAGCGGCTGCCAGCCACTGACAGCAACAAGCAGAACCTGCGGCAGTACTTTGAAGAGGCTTTTG
AGTTCATTGAGGAAGCTCACCAGTGTGGGAAGGGGCTTCTCATCCACTGCCAGGCTGGGGTGTCCCGCTCCGCCACCATCGTCATCGCTTACTT
GATGAAGCACACTCGGATGACCATGACTGATGCTTATAAATTTGTCAAAGGCAAACGACCAATTATCTCCCCAAACCTTAACTTCATGGGGCAG
TTGCTAGAGTTCGAGGAAGACCTAAACAACGGTGTGACACCGAGAATCCTTACACCAAAGCTGATGGGCGTGGAGACGGTTGTGTGACAATGGT
CTGGATGGAAAGGATTGCTGCTCTCCATTAGGAGACAATGAGGAAGGAGGATGGATTCTGGTTTTTTTTCTTTCTTTTTTTTTTGTAGTTGGGA
GTAAAGTTTGTGAATGGAAACAAACTTGGTTAAACACTTTATTTTTAACAAGTGTAAGAAGACTATACTTTTGATGCCATTGAGATTCACCTTC
CACAAACTGGCCAAATTAAGGAGGTTAAAGAAGTAATTTTTTTTAAGCCCAACCATTAAAAATTTAATACAACTTGGTTTCTCCCCCTTTTTCC
TTTAAAGCTANTTTGTAAAAGTTTATGAG

HUMAN SEQUENCE - CODING
ATGCCTCCGTCTCCTTTAGACGACAGGGTAGTAGTGGCACTATCTAGGCCCGTCCGACCTCAGGATCTCAACCTTTGTTTAGACTCTAGTTACC
TTGGCTCTGCCAACCCAGGCAGTAACAGCCACCCTCCTGTCATCGCCACCACCGTTGTGTCCCTCAAGGCTGCGAATCTGACGTATATGCCCTC
ATCCAGCGGCTCTGCCCGCTCGCTGAATTGTGGATGCAGCAGTGCCAGCTGCTGCACTGTGGCAACCTACGACAAGGACAATCAGGCCCAAACC
CAAGCCATTGCCGCTGGCACCACCACCACTGCCATCGGAACCTCTACCACCTGCCCTGCTAACCAGATGGTCAACAATAATGAGAATACAGGCT
CTCTAAGTCCATCAAGTGGGGTGGGCAGCCCTGTGTCAGGGACCCCCAAGCAGCTAGCCAGCATCAAAATAATCTACCCCAATGACTTGGCAAA
GAAGATGACCAAATGCAGCAAGAGTCACCTGCCGAGTCAGGGCCCTGTCATCATTGACTGCAGGCCCTTCATGGAGTACAACAAGAGTCACATC
CAAGGAGCTGTCCACATTAACTGTGCCGATAAGATCAGCCGGCGGAGACTGCAGCAGGGCAAGATCACTGTCCTAGACTTGATTTCCTGTAGGG
AAGGCAAGGACTCTTTCAAGAGGATCTTTTCCAAAGAAATTATAGTTTATGATGAGAATACCAATGAACCAAGCCGAGTGATGCCCTCCCAGCC
ACTTCACATAGTCCTCGAGTCCCTGAAGAGAGAAGGCAAAGAACCTCTGGTGTTGAAAGGTGGACTTAGTAGTTTTAAGCAGAACCATGAAAAC
CTCTGTGACAACTCCCTCCAGCTCCAAGAGTGCCGGGAGGTGGGGGGCGGCGCATCCGCGGCCTCGAGCTTGCTACCTCAGCCCATCCCCACCA
CCCCTGACATCGAGAACGCTGAGCTCACCCCCATCTTGCCCTTCCTGTTCCTTGGCAATGAGCAGGATGCTCAGGACCTGGACACCATGCAGCG
GCTGAACATCGGCTACGTCATCAACGTCACCACTCATCTTCCCCTCTACCACTATGAGAAAGGCCTGTTCAACTACAAGCGGCTGCCAGCCACT
GACAGCAACAAGCAGAACCTGCGGCAGTACTTTGAAGAGGCTTTTGAGTTCATTGAGGAAGCTCACCAGTGTGGGAAGGGGCTTCTCATCCACT
GCCAGGCTGGGGTGTCCCGCTCCGCCACCATCGTCATCGCTTACTTGATGAAGCACACTCGGATGACCATGACTGATGCTTATAAATTTGTCAA
AGGCAAACGACCAATTATCTCCCCAAACCTTAACTTCATGGGGCAGTTGCTAGAGTTCGAGGAAGACCTAAACAACGGTGTGACACCGAGAATC
CTTACACCAAAGCTGATGGGCGTGGAGACGGTTGTGTGA

TABLE 33

MOUSE NOMENCLATURE
ICSGNM Fli1
Celera mCG14021

HUMAN NOMENCLATURE
HGNC FLI1
Celera hCG39646

MOUSE SEQUENCE - GENOMIC

CTGTGTGTGTGCAGCCTGAGATTAGAGGGGACAAACTGAAAATGGCTGCAGAGCGTATGATCCCTGCAGTCAGTCAACTGGAGTTGTCATTCTG
GAGCTGAGGAACCCCAGGCAAGTCCTGGGTCTCTTTAAGGTTTGGTTTCCGTCTTGGTAGCATGAGGACCCAACTTACATTTTAAAGGGTTATG
GTTACAAAATTGTCTTGGGAACATCAAACAATAGTTATTCTAGCTTTACTTTTTGACACAGATCTTGCTAAGTAACCTAGACTGGGTCCTCAAA
CTCTGGATCTGTCTAGCCTTAAGCATCCCCAAGCGTTAGGCTACAGGTGTGAGCCACCAGGCCTGGCTATTTAACCTGTCTAGTTTAAAAGTGT
GAGTTGGGGGAGTCGGGGGTGGGGGAGTACACACCTTTAATCCCAACACTTGGGAATCAGAAGTCGAAGGATCTCTGTGAGTTTAAGGCCAGAC
TGCTCTACAAGTTCCAGGACAGCCAGGGCTACAGAGAGAGTCTCTGTCTTGAAAAACCAAACCAACCAACCCACCAACCAACCAACCAACCAAC
CAACCAACCAGCCAACCAACCAACCAACCAACCAAACAAACAAACAAACAAACAAACAAAAAATGGTCCTTGTCTGTTTGGTGCTTGGCTTTAT
GGCACCGGAGATGAACATAGGGTTTTACTAACCTAGGTGAGGACTGTGTTTCTGAGCTACAACAGCTGTTGTCACCTGATGTCCATTGTGTTGT
CCTTTCCAGAGAGTAATTCTACAATATAGTGGTTAGAGGAGTTTATCCCAACATTGATTCCCTTTCACTGTGTGAACCTGGAATAGTTATTCTC
TGTGCCTCAGTTTCTCCATCTGGTCCATCCTGGTAAAAACCACAGTCAAGGGATTTTCAATCACCCTTTGAGTATGGATTTTCTAGCACACACA
CACACACACACACACACACACACACACACACACACACACACACACACAAATGAGTCCCAAACTCACAGAGGTCCTTCAGCTTCTGGTTTCCAAGTG
TTGGGGTTAAAGGTGTGCATCACCACTACCTGGCTCACACTTTTAAGTTAGAAAGGTTAAATAGCCATGTGTGGTGGCTCACACCTATAGCCTA
GGCTTGAACGAACTACAGTGGCCCCCATCCACTCTATTTAATGGTTTGCTGTTATAATCTGGAGGTCAGTTCTGGCTGGTGGCTGGTGGCTGAT
GACCGTAGGTCCTCTCTGTGTGTGCATGTGGTCCTTTCCATGCAGATTTAGTAACTTCTTTGGACTTCCTCATAACATGATGCTGATTTGTAAG
GACTAATATGAAGTGGGTGGAGGCATTAGTACTTTTTATCATCTAGCCTCTGAGGTCAAGCAAGAGAACTTCTATGACCCTGAATTTGTTGACG
CAACCATGAAATTCCATCGGGCTTCAGGGGTATAATGGTTAACTTGCATTGTAATTTGGATGATTTATAGTCACCATGGGCGTGTGTCTCGGGG
TGAGTCTGTGGAGATATTTCTGAAAAGGTCTGACTGATGAAAAATGCTTTAACTTGAATATGAATAGCACCATCTCACGGGCCGGGATCCGACT
GGAGAAAGCGACCTGGATGCTAGCATTTGTCTTTCTTGGCAACGTGACCATGAATGCAGTGTGACCAGCCACCTCATTTCTACTGCCACCATAC
CCTGCCCAGGATGATGGATGGGATCACCTTAAACTACAAATCAACACAAACACTTCCCTCTTTAATTTGCCTCCTGCCAGGTATTTTGGTAACA
GAAATGAGAAAAGTTGCTGAGAAAAGGGAAGAGAAATAGAATCTGGCTCTTAATGGAGGAGATAAGACTGTACATATGGAGATAGCCGTTAAGG
GGAACTGGAATTAAGTTTAGTAACTGGTGACTGACAGGTGTTTCACATGATCCTCCTTATCCTACTTTCCATTAAATTATCTTCTCATTCCTTC
TTCGGGAATCAGAAGGCTCGCCCTAGAGCACAGCGGGGTCCCTCTCCGAAGTTCATCGCGCCCTGGAGACTCCCACTCTAGGCTGATGTTTCTC
CCTGTGCAGAATGGTTCCCAAAGCAATGAAGGCAGCAAGCTCTGCTCCCAAGAAAGCTGTCAGCATTTTGTATGCCCTCAGGTTGACAAGAGAA
GGAAGTTCATGTCGTTATGAAAAGAATGCAGCAAAATGCCAAAGCTCCGGTGTTGCCCACGGTGACCCTGAGGAGCGGATATGCCAGAGATTAG
CTTTGCAGAGCACTAGTCTGGGAGCCGCTCTGTGGTCCCCCTGAACATGAGAAGTGACGGGAAACTTGACATTCCTTTTCCCCATCACCTCCAG
CAACATTCATCAGCTACTGAAATTGTCCTTTCAAGGTCCAGGGCAGGACAAAAGCAAAAGAGGGATGGGTCTTTGGGAAATTACTGCCTCTTTG
CCCCACATCTTGTGCCCTTCTCTCAGAAAAGAAAACACAGCTTAATAGGGCTGAGAATGAGCAGGAAATCCAGGACTTCTCTTCTGTCTTGTTT
CAATCTCCCAGCTCATAGAAGGATGTGTGAGGAAAATTTCTTTGGAATATTCCTGAATAGAGTGTAGAGATAGATCGCCAGGCACTCTGGATGT
CTGTCTTTGCCTCTCTGGATGTTTTTCCGTGTCTGTTTTAGCTAAGCTGTTTAAGAGATGGACTTGGTGGCTCTTCCTTCATCCTATGACAGTG
TTTATTATTCTTCATCTGACATGGAAAGCACCTACTAACCTAACTAAGGACAACAAAAGGTAGAAGATATATTTGTGAATTTAAAAGGAATAAA
TGGGTATATGTATATATGTATGAACACACACACACTCATATGTGACAAATTCAAAATAAGTGAATTTTAGCTAATGAATCAGATCCCTGCATGG
CTTTTTCTGTCACTTGCCAAATCCGTATTATGTAAACAGAGTATATGCAAGCAGGCACTACCACTACTGTATCCATTACTTTGGCCATGGATGC
CTCCTACGTTGGTTGTGGAGCCACTGAAAGAGCCTTGTCTCTGCCACCTAGAAGCCCAAAATCAAGCTAGAAAGGGGAAGAAGTCAGGGCCTAC
GGGGAACAGCATCCATCACTTGAAATGAAGATTGGAAATGCGGAATAGTAAAGCACTCTGCTTAGAAGACCAGCATATTCTTGTTTCAGAATCT
AACAGTTATCACCAACTGCTAGATCTCTAACCTTTGAAAAATGATCTCTTATTTTATGTCAGTTTTTTTAAAAGAATACCAGTCTTATTTCCAA
TGGCTCCTGGCCATGTAAGACTCACTGAGCATCCGGCAAGTAGGATTTATTGGGTGGAGCGTACTTCTTCCCTGCTTCAGACAAAGCCAAGGCA
AAGAGTTTGCCAAGGGCTTCTGGTCAGCATTGGGAGAGGTAAGGCATGAAAATGGAAGGCCCAAGCCAGTCAGAAGGAGGGGTGGAAAGGAGGG
AGATAGGAAGATAGGGAGGGAGGAGGGAGAGGAGGAGGGAGGGNNNNNNNNNNNNNNNNNNNNNAGAGACAGAGAGAAAGAGAGAGAGAGAACTA
TTCATAAGGGAAGGTGCTGTCAGAGAAACAGCATCGACCATGGGAAAAGAGGGGAAAAGATAAAATAGTAGACTTTAAGATGATGCAGTAGACT
TACAGATGACCATGTCCTTTGCTCAGGAGAGTAGCGATTGGGTGAGAGGAGGACAAGTCATCCCAGGAGCTACTTGATTCCCTCTTGCAATGTT
TCTCTACAAGGACTATAAATGATATCATAAGTATTGTGGGGAGTCCTGAAAAATGGCCACCCATGGTCAGAGAGCTACATCAGATTCGGATTTA
GCTGCTTGCTTCCCAAGCAGGTCTACTGAGCTTTCTTCGAACACCTGCTACCTAATCCATGCATACAGCAGACACTCATCGAGCAAACGAGTGT
CTAACACGCTGGGCCCTCGACAGCACTCAGAGGCCACCCTGGTAATGAGGCAAAGGATGCCTGCTCCCAGGTACTTCCATCCTAATCCTACATA
ATAGTCAAAGGAGTTCTCATTCACATGTCTCTTTGTCTCCGTCTCCCCCCAGCCCCCGACTCATTCATTCGGAGACATGTGTTCATTACCTACT
AGGTGCCAGATGCTATTCTAGGCAAAGGACTTGCATGGAATGATGCCATGTCCCCTAAGGGTTTAAATGTCATACTCAGGAGATTAACAAGCTC
ATGACTCCATGGGCAGTGATGGTTCATGATTGGGAGTCTGGTTTGACGTCACTATGGGAATGCAAGATGACTGCAGCTGTGTGTGTGTGTGGGG
GGGGGGGGGCTGTTGTGATGCAGGAATCCTAGAAAGGAATCGGCTTGTTCTAACTGAACATTTCAGAGCGTGCTTCTCCATGCAGGGACACCGT
GCCCAGTACTGAGGGATTGTGGTTAAAGTAAAATAGAAGGGACACTGAGGATACATAGGGATTCTCCTAGAATTGCCAACAGAGTCTCTAAGGC
CTGACGTATTCCTCATTCTCAGGGGAGGAATCTAGCCAGGTTCTCTGGAGCTAGCTGCCCATCTGAATTAGGGATTCCAGAACAGCAGGACTGT
TAGGAGCCAGAGGTTGATGACTAGATTATAGATAGGCTCTTTAGGAGAATTATCTAACATGCTTATGGCGGCTTGGAACTTTCCAAATGCCCAT
TTGCAGACTGTAGGACCAAGGAAGTTAGTACTGTGGCTGAGAAAGATGGTCGAGTGCTGCTATTGTAAGCCTGCGGCTACTGCCAGCCCAGCAG
TCCCAAGGCCACATCCTGGGCCCTGATGTCTAAGGGCAGCAAGGGAAGGCTGTCCCAGATATGACAATGATGGTGATGGTGGTGGTGGTGGTGG
TGGTGGTGATGGGGAAGAGGAGGAGGAACAGCAGAAGCAGCAGCAGCCAATCAAAGTGGCCTCTTTTCTTGAACATTTAGGGAAAAGGCACAGG
GAAGAAAGAAGCATTGCTCAGGTTCCATCCGGTCCGTCCCTGTCTCATCATCTCCACCCCAAACATTTTCAGGCTATCTCTTGGTACTGGCTTT
AAAACTAAAGATGTAATTATTTACTCTGTCCCAAGAACACTGAATAGACAATTAGGCAGTTTACCCAGATGATGTCATTTTATCTTCATTTACG
CCCCACCAGGTTAGGGCTTGTTGGCATCCCCAAGCTACAGATGAGAAAACGGAGCTCCTACAGTATAAAGTCATTGCACTGGGAACTAAAGGAA
CAGAGGATGAAGTTTGGGTTGGCACTTAGAGCCTCCCTGGCTCCAAAGATTGTGCTTGAAGTTCTAAAACCCACAAAAATCACTTTCAAAGGGC
CAATTGTCTAACTGGCAAAACAAACCTTCTCAGTGAGTGGTAGTGGGTCTGTGCCCAAGCAGAGGGCATGGATGGAAACCCCACATCATCTTCA
TTTTCTGTGTGCATGAACAAGTTACTTCGCTTCTCCGAATATCTGTTTTCTTGCCTAAAAAAAAAAGAGGTGAAAACACCTCTCATATCACTTG
GATGGATGAATTAGATGTTTCGTGTAAACATAATTTCACTACTAGTAAGTGCTTTGCTAAATTGTCTACTGTTTCTATTTATTTCTATAATTTA
AGACCCAGTTTATTTGAAGTGATATGGGAACGTTACCTTATCTGTACTAGGAAAGCAAGCTAGTTTTCATCGGAGCCTATGTATCAGTCATTGA

SAGRES DISCOVERY 02-33

TAGTATACATCTCCTAGCTCCAGCAGAGGATGGGGGGAAGTGTTGCCCTAGGCCTTAGCAGTCCACTGCTTTGTCTCAGAGCTCAGCCCGCTAA
CTCAAGCAGTCCCTCTGAAAGGACTCTAAGGAAAGGGGTCGCCACAGAGTACCACTGTGCTAGAATATTTGACAACTTGGGGTAGGGAACATTG
TACCACCTTCTAGGTCTGCAGCTCAGGGGTGAGGCACCAAGGCATCCTGACTAGGGGATGCAAAGGTGCTTCTAGTGAACCAACTGTTGAGCTT
GTTCTGGGCTCCCTTGTAGTGATCCCTACTGGGGTGCTAAGAAATCTTATAGGTGGGCATTGTACAGAGGTAAAGAACCTAGTTTTAAGCAGCA
TGGAACCAACAGGTCTTTCCAAGAATAGCCTGTGTTTTCTGAATGAAATCATCATTGCCCCACGTTCATGGGAAATGCAAACTCATTAGAGACC
AAGAACAGTGGTGAAGGTGAATCCCCCATTGGTGTTCCTTTTATATTTGGTCTGCCGTGCCAAAGACGGGTACTTCTCAATATCTCGCCACTAG
AGCTGCTTTGACAGCAGCATAATGCTCATTCCTATAAAGAGTTTGAAGTACCCGTTAATAGCTTTGAGTTTAAGCATTAGGAATTTTAAGGTTC
AAGTATAGAGCTTTGAGGAGCACACATTAAGTAGCAACATCAGCTCATAAAGCTACAAGAGAGAGGCAGTGCTCCCTGGCACACTCACTCTCAC
CTGTCTGCCGCAGCTGCACCTTGGTACTGGCTTCTGCATCTCATTGTCCATGGTCTTCTCAGTCCACAGAAGTGACACAAAGGCCTGCCACCAC
TGCCCAGCACCCATCCCCTCCTCTGCACTCTCCCACTCTCCTGTTTCCATCCTGGATGTCTGTTATCTCCAAAGCAGTTTTGAAAGGGTCCTCA
CTCTCGCCCGGAAGCAGCAGGGCACCCAGGGCATGGTCTCAGGCTTGAATGACAAAAGGGGTCCTATTTCCTGGCAGGTGTGGCAAGAATGTCC
TCCCCAACTGTAATTTTCACATGGGGAAAATTAAATCAGCTTCTTTGGCACCTCAGCCCCCAAATATTTTTACTGCATTGCTGTTGGCAACTTA
TCCTAACTAGGTTGATTTTCAGATTCAGTCCAAAAGCCAAACAGGAAACAAACCTTTTTCTTCGGTTCTTTCTTTCCAGCCTCACTCATCTACA
GAGTCTGCTTTCCACACTACTATGTGGGCAGAAAGCCCTTTGCTATCAATGATTGTAAATACAATAAATCCCCCAACTGTGTGTGTGCACATAA
AGGATGCATGCATGCTGTATGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATGTGTGTGTTTTAA
AAGATCCAGAAATTCAGGACATTTTTCAGGAAGGTTTTCATTGAGTTAAAAAGCACCCCAGTGAACCAGTTAGAACTGTACAGAGGTTGTAGTG
GCAACTCGCAAATGGTTTGACAGATAGGGCAAGGCTGGGTAATTGAAAACCAAGTGACTGAGTGTAGGTTTTTCCATGGTAGAAATACAGCAAG
TTCTTGGGGGAAGAATTGACGGGTACAAGCTGTATTCACAGCCTTTGGAGGAATGGGATCTGTCTGAGATTAGGCACAGGAGATTGGGGAAGGG
TAAGAGCAGTGTGAGGAGAGATCTATCAGTGTACGTGCACCTGGCCGGGTCAGGGGTCAGAGGTGTGGGGCATTTGGGGATGAATCGGGATACT
CTCTTCCTGTGATGCTGCCACTTGACTAAATGACCTTTGATTGGCTCTTTGTTTTAAATAAAGTGTTTATCCTAAAATGGGTTCTAAGGGGATC
CATCCCTTCTGCTCTTGTGCCAGCCCCATGCTGTGCTGCTGTTTCTTCTGCCTGCAAATCTCACTTCCTTAACAAGCCTCCAAGTCTTAGCTCT
CCCATTTGTTCCCTGGTGCAACCTCTTTGCTCTGCGTGCTGTGCATGCTGCACCATCTGTATGTCCTCCTTGGGCTCAGCATTCCTGCCTTTTG
CTGCTTTTGACCTCCTGGTTGGATGGCAGTGATGACAAGGGCCTTCCCTTCCCCCACAGCATCCCCATGTCCATCTCTGCCTCCCAGATCGCCT
CAACTCTGCCATTGTATGATTTTGCTGGAACTCTCAAGACTGACTCATGACTAACTAGAGGCATAGTCTGTTCTCTGCCGCAGAAATCTGCTTA
GATGACATCTCTTTCAACAACAGATCTGGGGCTTGTTCTGCATTTTTTTTTTTTTGTCAAAGAGACTCTGATGAATCTTTGGTGACACCCATA
TAATGTCAAAGATTTATGCTCAGCCTTCTGAACAGCCATAACTTCACAGTTTTCAACTTGGAGTTAAACACTAAGTGTCTATGTAAAAGTTTAA
GTTTGTTTGAGACACAAAGCCAGAGCAGAACCTTAACCGAAATGAAGAGTGGATCTAAGAACCAAAATACAAGTAGACCAGAGCCACAGCCTTC
CCCTGACCCTGCCCAGGGGCAGCAGGTGAAGCCAGAAGGGCTCCAGCAGCCTTTAGGTCTGAATGAAGGACGTCCAGACATAGCGAGGGTATTT
GCTTTAGAGAAGGCATTCCAGGCAGAGATATGAATTATGTAGGGAGAGTAGGCAAACCTCAAGATTTAAAAGGGTCTCATCATCTATCATTCTG
TTCTTAAGTAAAGGCAGGGTTGCCATAGCAACACACCACAGGCTGAGTGGCTTAAACAACATAAATTTATTTGCTCACAGTTCTGAAAACTGGA
AACCCAAGGTCAGAGTGCCAGCAGGGCTGGCTTCCTCTGAGGCTTTCTGCTCTGGCTTACAGATAATCTGTCTCCCTACATGCCTTACATGGTC
AGTCCTTGGCACACAGCCACCCTTAGGGTCTTTGTGTGTCCAAATCTCTTATTATAATGAGTCAGTTGAGTTTAGAGCCCATCTTCACATTCTA
ATTTCAAATTAATCATATCCTTAAAGGTCTTATTGCCAAGTGGAATCACATTCTAAGTTACAGGTGGTTAGGGATTTGATATATAGATTTCAGA
GGAAGCGGAATTCAGCATAGAACAAGAACCCAACAGAACCCTTGTTTGAACACAAATGGTCATCACTGCTAGTCTTTCTGGAGTTTTGTGCTGT
GCCTAGTGTTGCTATAGCTATTTCCCATTGATTAGTCCATCTTTCCTTCACAGTCGGGTTACATGGAATAGATTATGTAGATGATGAGGCGATT
ATAGATGGCTGCCATTTCTTCTGAAACATGGTCAGCTTGCTTTTGTGTACTGCGTGGCCCTGGGGAATACTGTCCTCCAGCCTTGAATCCCTGC
TGCTAAATGTGATTTGGAATAGTGGGGGGGGGGGGGGATCTTATCTCCATGCTTTGATCAACAGACAGTCTCTGGAAGGAGTAAGACTATGTTT
CTCAACCCATTACCAAAAGCCTCCCCTGAGTCAGGAGATGGTACAGTATGAATTGGTAAACCATGGTCTCTTACAGAGACCTTACACTAACTGC
CTTTTCTATATATCAGAGCTTCCTCCTGAATTATTTGGCTGAATCATCAACACTAAGATCTGCAGGACATACTCATTCCCGCTAGCCAGTCCTC
AGCACACCACTGTTCACTCTTACCAAACACTTGAACTACAGTTGCTAATTTAATTCACCTAGTAAGCCAGAAGGGAAAAAAAAAACAAACAAAA
CTATTCATCCTCACTGACTGGGTATACTGAAATCGACCTAGCTGAAGTTCTGGATTCCCTGATTCCCTTACATAGCTTAGGTCTAGACAAGCTC
TCCGGTGGCTCTCCATGACCTCACCTGTGGGATAAATTCTCATTTTCATCTCTCCTAGCAATGTGGCTATGGCACACAGTTAGTAAAATGTGCT
GCTGTCTGTGTCTGGAAGCTAGAACCAACACTGGTATCACCTCTTGCAACTCTGTGTTTAGCCACCCTGTCTCCATTCTCCTTTGTGGGGCTTC
TAGCTCGAACACTCAACAAGTACACCTGTTCTAGTGTTCTTCCATTCCAATGTTCAGACTCCTTTCTCCCCACGCAGGGGTAAGCCTGTGCTGA
CACTGTGAATCTATTACCTTGAACAGTTACAGCTTCATGAGAGGACTGCCCTGTGCCACTGTGATATCTGAGAGTTGGGGTGTCGCTGGCTCGG
GTGACAATTGATACTGAATGTCCTATCTCTTCTCCCCTCTTGCAGGAGGCTCTGTCTGTGGTGAGTGACGATCAGTCCCTTTTTGATTCAGCAT
ACGGAGCGGCAGCCCATCTCCCCAAGGCAGATATGACTGCTTCGGGGAGTCCTGACTACGGGCAGCCCCACAAAATCAACCCCCTGCCACCGCA
GCAGGAGTGGATCAACCAGCCAGTGAGAGTCAATGTCAAGCGGGAGTATGACCACATGAATGGATCCAGGTGAGCCTGCCAGAGTTGGCCAGTC
CTCATGAAGCAGGGAAGCCTGGGCGCAATTCCTCCTAGGACCACCCTGTCAAGCCGATCTGCACAAAGCAGCAGATGGGTCAGGCCCCAAGGCC
CTACTGCAGTACTCAGTGCGTTTGCTGTCAAGCTTAGGCCAGGTCCAGTCCTGCAAGGAAAACGCATAGCAGTAAGATGCTCTTCCTGTGCTCT
TGAGGATGTTTTAAGGTCCTCTGGGTGGCACTAACCAGAGCAAAGGTGACCCAAAAATTCTTCAAGTAAAAGTGGAAAAGTGGTGAGAAAGACA
GACTGTGTGCCAGGAAGCCAGCCTCACACATGGGAAGTGTGGGGGTGGAGTGGGGCGGGGTCATTAGGAAAGGCCAGGTACAGCCTTGTTTATG
GAACTGGGAAGGGGAACTCAGGGATAAAGAGCACACGAACCAACCCATTGTCAGGCAGCCCCAGCGACAGGCACTACCTCAACATTTTGGCTAA
ATTATCTAAACCCATCTGAATACCAGCTTTCTCTTGTCTAAGCCAGAGTCAGAACACCAAACATGTTTATCAAGTGTGTTGTAGGGAAAGGACC
CAGGACATTGTCTAGTTCCAAAGTGCTCAATGAGTTAGTGACCACAGACACACAAGAGGGAAAACTTTAGCCTAGTTTATTACCTGATAATTCC
CAGTGGATTCCCAGGTAATCCACTTAGCCTGAAGCAAACAGACATGAAAGTAAAAGCAAGTGAGTAAATACAAGACAAGACCTTGGTTGATAAG
CTAGGAATCCAGTTTATTCCACCAACAGAGGCTGACCCTCAGGACTGCCAGGACACTAAGCATCATCGGACCCATGAGACAAAGCTGATGAGGT
GACAATCATTGTCCTGCAGGGATTGTGGACAGGAGTGCAAAAAGATAAGAAGTTACTGAAATAGCCCAGATAAGGAATCGAAGTTCTGGGCTAG
GGTGACAGTAATGATGACAGAAGCCCAGGGGAGGTGCATAAAGAGCATATCAAAGGGATGGCTACAAGAGCTCGGACTTAATAAACATTGAGAG
GTGGGGACTGGATGCTGCTGAGTCTGGACCTTTGAAAGGGGATGCAGTTAGTGGCGACAGGCAGGTGGGAAGGGGTGATGCCTTGAGGAGGGGA
CGTCCTTTAGCACCCTTTGTGAGCAAGTGGTACAGTCTCTAGATTAAAATGTCTACTGGATTTAGGAAGCCAAAGCCCGTAGGATTGGGACTGG
AATTGAGGCTTAGGCATCCTCTCTGGGAGGCTTAACTGAAAGTGAGTCATGAGGGAAACTAGTCCAGAGAGGCAAGAGGAAGCAGGGAGGGGGC
TACTGTGGCTGCTGTAAGGGAGTTCCTCCTTGCAGCTGTCTCAGAGCTGCCCCTCTAGAACCCTCAGCCCTGCCACGCTTCCATCCCATGAACTA
AAACCAGGAAGTGGGACCTTGGCCATCCCTGCAGGGTTCTAGGGTTAGGGGAGCTCAGAGAACCTGAGCCTTGAGCCCTCCATGCAGAATGATG
CTTATACCATGATTCCGGTCAGTCCATTCTCAGCAGAGTGTAGTTTATCAAACACTTGTATCTAGTCTTGTATCACTGCTCCCTACTAATCTAG
AAGGCCAATATTCTCATCCTGTTACCGTATAGAAAGGAAGTCGAGAGAGGCTAAGCTGGCGCCAGCCCAGCCTTTCCGATTGCTTGGGCATCTT
GCTGCCTCTCCCTCTCTGCCTGTGCGTCATGGTTCTGTACCACGATCCCATTCTGCCAGCACCCTCTGGTGATGAGGCCAGTTCAGAAAGGACT
CCCAAGCTGCCTGCACCATCACAAGGTGTTCCTGATCCCTACTGAAAAATCTAGATGCTAATATTGGAGAGTCTATAGTCTTGATGTACCCTGT
ATCTAGTTATCATTGCCTGCCAAGCCCACAGTGTCTCTCCCAGCTGCCACAGAGACATCTGTGCTCCACTCTTCCCCTTCCCTGCCTGAGACCT
ATTCTCTCAACAGGCAACAGTGAAAGTCATCCATCCTTTCACAACAGTAACCTTCTTGCTCAAAAACCTTTAGCATCTCATGTCAGAATCTAAA
GTCTTAGCTAAGTCCCAGATTCTCCCTGGCTCCTGCCTTCCTCTATGCCATCACACAAGACTCTAGCTGCTCCTGGAAACCATAGCACACCACT
ACCTTGGTTTATCTTCCCCAAGTCCCTTCTTTCTAAAACATTTCTTCTCCATTTATTCATACAACTCTCTCGGGTTTTTGCCCATATACCACCT
CTTCAGAATCCCTGACACTCCCCGAATCTGAAAGAGCACCCTATCGCTCGCTCTCCCTGGTGGGTTATTCAAGTTGTCTTCTCCCTCACTAGAA

TATGGGCAGGGCTTTTGCTCACTGGGCAGGGTTCATGTGTTTCTTCAGGAAAAAGCTAAATGGGGGCACAGCAGAGCAGGCCAAAGTCAAGTTG
CTTCTTCAAGGACATGCCATGTAGGTATGAGTTGAGTCTCCCTTACCTGAAACATTTGACATGTGTTTCAGGCTCTTTCAGATTTTAGCATGTT
TGTTTGCACACAGTGTAACAGATATCTCAGTATGATAATGGCTGTTTTGTATGCACGTGTGCTCAGTGCCCAACAGTAAGACTATAGCCTGGTG
CATTTGCATTGGGACTGTGGGCTCTCTTGTGCATCAGGTATGGAATTTTCCTTCTGTGGCCTCATGCTAGTACCCAAACCATATTTCAGATGGA
GAATCCGAGGAACAGATGTCCATATGGGTGATCCCCAAGGTCACAATGCCCAGGCAGGACAGCCCAAGCTCTGCTGAGTTCACCCTGTACTTTT
GAAGCATGGGTTCCCTTCTAACATATCTGTATCACTGAGCTACCTGTTCCCATCCCTGCCACCTGGGTACTGCTGGGCCCTCCAGGATGCTGTT
TAAGAGCTAAGAGAATCCTTCAAGGAAAAAGACTCTGGATCCATTTCCAGGTCATGCCTAGCATTAGTCACCCAGACACTAGCTGGAAGAAGCC
CGTGTAAGTATTCCCATAAGCTGGCTGAATATTTACCTGGCTTTGGGTGTACAGTCTCACCTACTGTGCTGAAGTAAAGATCTAGTGGAGTCTA
GAGCCACCCAGGTAGGCATAGCCATGGTTTTCACCTAATCAATACCCTCAAAGCACGCACAATAAAGAGCCAGGATCAAAGACTTTCAGAAAGA
TGCTTTTATTTGGGATGAAACCATACCTAGCATTAACTTAGCATTATTTAACTATGTGAGAGAAATAACATGTAAAAACACCAGGCATGGTGGC
ATGCTCTGGTGATCCCAGCTGCTGAGGAGGCACACAGCTGGATCTCCTAGGCTCACTGGACAGACAGCCTGCTAGGCAAGCTGCAGATCTTATG
CCACAAAAAGGTAAATGGTTTCTGAGAAACAAAACTCAAAGTTGTCCTTTGGTCTCCAGAGGTATGTACACCAGCATAGAACTGCATGCATATA
TTTATACACAAAATACAGAGACAGGCATAGAGACAGACAGGCAGACAGACAGACAGACAGACAGATTTAGAGAGACAGAGAAAAAACAGGGGC
AGAGACAGAGAAGCGGGTAAAGAGACAAAGAGGCAGAAGCAGAGGGCTAAAGAGGCAGAGAGAGAGAGAGAAGACAAATGAAATGAATACAT
AGATGTCAGTCTGTTTAAATTACTCATCCTGAACAGTGCAACTTTCTTATTTTCTGAGTAACACGGGACTTTGTTAGTTTTGTTAGTTGCATGA
TTTTAAGATACATATATACAATGTATTGGGATTCATAGATATATGCAGTGTATTGTGATTCTATTCGCCCATTACTCTCCCTTGCTTTCACTCC
AAGACCCTTCTTTTTACCAGCTCATCCCCCAGGCAGGAAACAACACTCCCCTCTGCAGCAACTAACAGTTAATATCTCCTTCAGATGGGGCAGTG
TCTCATGAGCACTTCCTCTATCAGTGAAGGAAGTTGACGGGTTCAGTCTTCCACCAGTATCCATTGCTTCTGTGTCTCTGTGGTTGGAATGGCC
ATGTTTTATCTGTGGGTCAGCATTTTATGACACCCCTCCCCACTCCCAGCTCTTACATCACTTCATCTCTTCTTCTGCAGGGTTCTATAGGCTT
AGGGTGTATATAATATAGATTTCCCAGTTAGGGCTGAGAGCTTATCGGTCACTTAGCCTCAGCATCTGATGAGGTATGAGTCTCGACACTATCT
GTCACTCTCTGAAAGAAGCTTTCATGTTCTAGACTGAAAGGGATACTAGCCTATGGATATAAATATAAATATTCTGGAGACTTAGCAGCATGTC
CATTTAGGGAAACAACAGCATTATGTTCTCATTGGGTCCAAGACTCCACCAGCCACAGGCTTTTTACCAGGTTTATGGTACCAGATGTGTATCT
CCTCTCATGCAGTAGGCTTCCAATCACAGAGTGGCTGGCTACCCACCATATGGTCAAGCCACCGTTGTACCAGTGGATTTATAATGCCTGTCAA
GTTGTATTGTGCAGCAAGCATGAGCACTGGTACACTTCCTCCTCTAGGAGCCTGCATAGAGCCTCTGGCACCACAAATGCCAGCCAGCAGGGAG
AGGATTCCCAACTCAATCCCAACTATTTCTTTGTGTCTTGTGACCAAAATGTGTGTCATCTTCATCAATAGGGTCATACCTTCTATATCTGGTG
GGTATCAAGAGTTGCATAGCATTTGATAATTTTCAGAAAGTCCAGTTATCATAACACAAAATGTAGAGGAGGGCCAATGGAGACGGTTCAGCAG
AAGGTGCCTGACAGACACCATGCCTGACACCATGCCTGACGACCTCAGTTCTACCCCCACAGAGCCTACATGAAAGAATGAAAGAACCAACTTC
TTCTAGTTGTCACCTGATTTCAATGCCCATGCCATGGCATGTACCCACGCATGTAGTTTGCTCAAGCACAGATGCACACAATACTATTTAAAAT
GTAGAGGAGGGTGTGTCAATGCTCCAAAGAAGAAAACAGAGCAGGGCAGACAACTTGGAAGTTCTTGGCTTATGGACCAGGTCTGTGGCACCCA
GCACTCTGATGCAGTGGCCACTAACTAGCCCCATGTTGCTGAGCACTGGGACTGGAGCTACTCTATGAGTTAGATGTGCTATAATGTAATATGC
ACATTGGACCTAAAAGTCTTAGTATGATAAAATGTAAGATATCTTGGTGACTGTTGATTCTGCTGAAATAATAATCTTGTGGCTGTATTAAAAT
ATTAATGCATTTATCATATTATCATATATAATATTTAATATATTTAATATGTATTTCTTATCAAAATATATTTAATATAATAATCAATAACATA
ATATATTGATATGTTATGTTAATGAATTTATTCAAATTCATTTCATCTTCTTAGATTTATTTATTTACTTATTTATTTATTGTGCGCCGGAGGA
GTTCGGTGTGCAAATGTGTATGCGCTTCACGTGCATGCCTGATGCCTATAGAGGCCAGAAAAAGGCATCAGATAGATCCCCTGGAATGGAAGTT
ATGCATGGTTGAGAGTCACCATATGGCCCTCTGCAAGAACAAGAAGTGCTTTTAACTGCTGGGTAATAATATCTCTGGCTTCTCACTTTTTCAA
TTTTAAAAATACACCTACTAGTAAGGTGAAAGTGACCCTTGTGTCTCAAATATGTAACTCACAATCTACTTGGAGTGGACCGTGATGTAGCAGA
ACATTTCCGATTGCTCAGTGATTCACAGCACATCCCTACAAAGTTCTTTCAGAAGCATGGGTCTCTGGGTTCCTTCTTCACGCTTATTTACACT
CCATAGATGTCCGTGTCTCTGGCAGGAAGGAAGTACTCCTTGTCTCTGAAGCTGCAATACGCTCTTCCCTTTACCCTAGCAGCAAGCCCTCTA
GACCAGGGTCAAAGGGTCATTCAGAGGGGCTGAGATCTGAGGCAAGAGAGATTGTCTGGGTTGCCTGGGTCGTAGGAGGTTTACTCTGTCTCCC
TTCCACTCCTGTTGTGGTTGAATCTGGTGCTCTGGGTTGCCCTCCAAACAGCACAGCCCATAGGTTCTGTGTTGGATATAAACTTCAGAAACTT
GATCCAAGCTGTGGTTTGCAAATAACTCTCAGCTGCATCCTGTCTCGACCATGGGAATTGGAGAAAACAGTGCATGAGGGAAACACTAACAGTT
TGTGAGGGAGAAAACAGAACTAGTTTTAATACCTGGCATTCAGGAGCTAAACTCAGCATCACTGCCCTGAGACAGGCTGGACTGGCCAGCGTTA
TCAGGAGGCATCGAACATGCAGAGAACCCTGTTCCACTCTCAGGAAGATGAGCCTCCCAGGTACCTTCCTAAATTTCTAATTCTAAACCTTGCA
TGGGGAGTAAGACACATATCATCTGTGTTGAAAGCCCAGGTAGTGGGGTTTTGTATGGGTTTTGTTTTGTTTTATTTCTTGAAATTATACTTC
TATATCAAAAGCAACATGCCACTTCTACACATGGAAGTTTCTCACAGAAACCCTAAAGGCGGCCTAGATTCCTCAGGTGTGCAGTGTGCATGCT
ACATGAATGACACACAGACAGATTCTGTGACCGTGATGCTCAGTGGTCCCTTGCTGGCTGCGTGGGCATCGGGTGGTCCTTGGCTCTCAACAGA
CCTGTGATCTCTCCAGGCACTGTGATCAAAACGGGAAGGTAACTTTGGGAGAAGTTTGAGATCCCAGTTAACCCCTCTCAGGGTTTCACATCTC
CCTTTATATTGCCTTGGAGTCTGAAGACACTTCTATGGACCCCTAGCAGTCTTAAAGCAGTGCTCAATAAACACACAGAATAGATGCTTATGTC
TAAGACGGTTACGCTGTACTGCTGAGGCCTGCTGCCTGTAGCCTCCCGGGGGCCTGAGGTGGAGATGCTCTGAGTTATACCCATCACTTCCTCC
TGCTCTATTGTGGCAGCCTTAGGCCCTCCTGTCACCTGCCCCAGTACAGTCAGCTGTCTGTGGGCCCAAACCTCTTGCTCTCTGTAAGTGCGGG
TCTCAATACAAATTAGCTGCAGCCGTATGGGCAAAATGAATGGCCAAACCTCTTACCCCGCCAGGGCTCCCGCCTCCCCTCCCTCTTGTTCTCC
TTAAGCCCTCTTCACAGGCACCAGCTGCCTCATTAAAGAGCAGCTTTTATGCTGGGCTTCACCTGGGTAGGCAGTGGTCACCAAGCCCATGGCT
GGGCTGGCTCGCTGAGGCAAAGGATAGAGACAAACCTGGCAGGCAAGTGTGCAAGCCAGTGAGACATGGCTTTCTCCTTTATCACCCTGAGCTA
GACTAGGAGGGTGAGCTCTGTAAGGGTAAAGGATAAGGGTATCAGGTCCTTGTCCTAAGGAAGTCCCTTTGAAGACCTTGATGGAAACTGTTTG
GGACCAAGAAAGGGGCCTCATTCCAAAGAAGCCAGGAGGGACGCTCAGGCAGGTAATCAACCACCAGGGGTCATACAGCTGAAGGATAGATGG
AGGAGGCTAGGACTTCTGTGGGCTAGTGATGCTACTTACTGGTCAGCCAGGCACTGCCAGCGATGGAGCCCAGGGGGCCCCAGCTCCTCTGCAC
CTGCTTCTTGGCCATGCCTAGGGCACCCTTGTTGCCATTCATCCCCACCAAGCACGCTTGGTTTTATGTCTCATCTTTTCTTTGTTATCAATTT
TTTTTTTTTACTCCAGGGAGTGGAAGCAACCTTTCCACCCATGGCCACCGTACACAGCTCCAAGTCAGGGAGATCCACTAGTTTGGGTGCTTCT
GAGGTTCTAATCTCTGCCTGGAAAGAGGCCAATTTTAAATGCAGAAATTCCAAGGCCAGACACCTATGAAAAAGAACATTTAAAAAACCCTTCT
CTCCAGTATCCGTAAATGGGAGACTTTGAAGTAGGCACCTCCTCTTTTGCTACCATTGATCCTGGCTGGCTGGCTCTGGGCACCCTGCATGGAA
AGTGTGTGTGCTGTCCACTCTCCCCACCCCCACCAGCCAATGAAAATTCCAGTATCTTGGTTTCAGGCCAACTTAATTCTCCAAGCTTCTCTGG
TATTTGGATGGTTTCTCATCTGACAAGAATCTGGGGAAGACAACCAGTGTGTGTGTGAGTGTGTGTGTGAGTGTGTGTGTGTGAGT
GTGTGTGTGAGTGTGTGTGTGTGAGTGTGTGGGGGTTTTACACACACTAGCATATAGGTGCACATCTGTGCTGGAGGGTGTGTATTTCTCTAAC
TATATGTGTGTGATAGCCTATGGATGTGTGCATGCATCCCTGCATACATTATATGCATACATTATATACATGTAAGTGGTAGAGTATATATGCA
TGTGTGTTTTATGGGATGATTGTATGTATGTACATATTGTATGTAGAACTATGTGAATGTGTGTGTGGAACATGTGAACATATTTGTATTGTGT
GTGTAGACCTATGTATATAAGTGTGTGTGTGTGTGTGTGCGCATGTACTGTGTGAAGTAGTGTGTGTGTGTGTTTGTGTGTGCATGCACACATG
TGCATATCTGTGAATATGTCTTTTGATGGCCGAGTACATACATATATGTGTACATGTTATCACTGTGTATATGATGCCTGTGGTAAAGTGTGTA
GAGCATAGTGAATTGTGTGTGTGTGTATGTGCATATGTACTAAAGTTAGAAGCTGAATGTTTTCATTATGTATGTGTGCTGTGTGTAGTGAAAT
GTGTGCGTGTGAATGTGTATGCGTGCGCACACAGTTTCCTGGGGGACAGCAGTATGCTCTGGCCAGCTCAGCTTAGACACAGGCACCAGGGTCT
GACTGGGGCTGCTTCATCTCCAGCCAAGTCCTTCAACAGCAGAAGCCAAAGGGCTGAGCGCTGGTGAAAAGCCCCGATGTGCTACTGCCTCTCC
TCCGACTGCCATGGGGACATTAAACCTTCAACAATCTGGGACTCTGACGGCTGGGTCTTGGTTCTTTGCCTGGAAAAACAGTAGGCAAATAGTA
AAACCTTAAATTCTAACATGTGTAAGTTATACATCTTATTTTCATTTTCAGCCCATGTTCTCCTCGGTAAGACATCAGGAAAAAATTACCGTCT
GACTTCTAATATCTCAGTGGAGCATTTATCTCCCAGCCATGATAAGTGATCTGCAATATTTTTTTCCTTTCAGATTAAGAAACAAATTCATTTA

SAGRES DISCOVERY 02-33

ATTTTCTTTATTGAATGTGTTCAGGCCCTCCCTGCTCTGCCTGACTCTCAGGAGCCCTGTACTCTTCTCCTTCTTCCTGGGCTGGTGACTGTCT
CCTTGCTGTGGGATGGGTGACTCCCTAGTAGGCAAGGCCTGTTCCTTAAGGGCTCTCAATCTGTCCCTGCCCACTGCAGAATGACGGAGAGCAG
ACTGACCGAGGGCAGCAGCCAGGCGAGGCACGTAGGGAGATGTTAGCGTGCAGAGCTGGCAGACTGTAATCAAAACCTCGTCTCATCCCCTTGG
CCTGAAGGCCGGTTTGGCACTATCAGGAGAACTGGCCACTTCCCAGGCTGTTAGGATGATGCTTGCTGTCTGGCACTACCATAGTGCAGTATCC
ANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTGCTCAGTGCCAGATGC
TGTGAATATCCACTGCTAACTGTGCTTAGTCTTAGTCCAGGATGGGTAATGTGCCTTCTTCCTCTTGCACGTCCATATTGCTTCCTATGTGCAC
TTCCATATGTGCACTTCCTCTTGCACTTCCATAGTGCTTCCTATGTGTGTTTACTACTCAGAGCTGTAAAAATGCTACAAGAGTCATACATAAC
AGGTCACAATGCATTCCAGGGGTTACTCTTCTTTGCAGCACCCAGCTCCTCTGTATGTGGCCTTTAGTTGAGAAGTTTAACACTGGGACCTTGG
GTCCTGCATCCATCTTTACTAGCCATGTGAAACCAGTAAGCACACCTTTCCTTTGGTAACCACAAAAGGGACGTAGTAACCTTTGCTCCACACA
TCTGAAAGGGTTATCAGGAAACTCAGATAAAGCAAACAGCTTATGAAGATGTATTAAAATGGTACACATGCAGTAGAAATAGCTGGGCTAGCAA
GTACTGATACCATCTCAAGAAACAGAAGAGACAGGGTAATAGGCTGCACAGAGCATCTCATGCTGGACTCACTCAGTCCTGTAACCAAGGTAGA
CATCAGCGTCTATAGGTTTGTGGAGAAGGCCTATCTATTACAAGGACTAGTGAAGGTGGGTAAGTGTTGACCACTGGCAATCAGGTTGAAACTG
GACACAGCAGACAGTGGAGGAGGGCTGCAGGCCCCTGAAACAGGAACACCTAGGACACACAGGGTATTTATGACAGGATCAGGATAGGTTCCAC
GAGGAAGGTGGCACTAAGAGTTCATTGTCATTGTTGTCATCATCCCAGGGATGTCTAAGTGACTGGCCAATTCTGTTGAGGCTGGAGTGACATG
TCCCCATAATGATGGCTTCTTTTGACCTGTTTCCTCTCACTCCAGGGAGTCTCCGGTGGACTGCAGTGTCAGCAAATGTAACAAGCTGGTGGGC
GGAGGCGAAGCCAACCCCATGAACTATAATAGCTACATGGATGAGAAGAACGGCCCCCCTCCTCCCAACATGACCACCAACGAACGGAGAGTCA
TTGTGCCTGCAGGTACCTTGGGAGTCAGCTGCCTGGCCAACGCCCACACTTCCATTATTCAGGGGCTGTAATGGAAGGTTGGCCCATCTCTTAG
AACATGAAAACCCAGCACCCTAGTCTTTAGTGGCAGACTCAAACCAGGGAAAGTTGCACATCATACGTAGCTACCCTCCAAGGCAGGATTTCAA
ATGTCACCCGAGCCCTGGCATGCTGATTCCAGAAGCCCCACTGTCAAACATAACACAAGGCAGATTTTCAGTGAGCAGCCTGGTACCCCCAGGA
TGAATCTTGGGCAGAGGCAAGGCTGCTCACCCCGCCATTCCTTCTTGTGAGAAGTGCAGCTCCCGATGTCCACCCTTCCCTCAGGCATGTACTT
CCTGCCTTCTGCTAGATTCCACCTTCCCAAAATTACAGCCAACTCTTTCAGTTTTAAAATAGAAATAACTATATTTAACAAACAGAACGCCTCC
ACGTGTGTGCCACAAGTTATGTCATTATGTAGAAATAGCCTTTTTTCCTAGGTATTGGTGCTGTTGGTTACGGAGTGGGGGGCCGGGGGGATCT
ATTGTTAAATCCTCTAGCCTATTGGCTGGATGCTGCCTGGGCCAGGCCCAGTATGCTCAGCTGCCTAGGTATGGAGGGAATTCAAAAACTGCCA
CTTTAGAGTGGGTGCCAGGTGGAAGGGGCAGAATGTCAGGAGTTTGAATAAAGTGAATTACAGGGCGGGAGCTAAAACTAACCTTAACCAAAAT
AACTTCACCAGAGAGGCTGGATCCTTCCATTTGTAAATGTGTAAATGCAGTTGTGTCTTAGAACGATAGTTTGTCTTGTTGATCTGAAGGATGA
TTTTTGTGATGAGCAAGTCTGTCCTGTCCCTAGTGTTTGTTTCCATGGGAAGTTGTATCTGCTATCCTAGTGTGACAGTCACATTTCTGAGCTC
TGGGCTAAATTCCACATGGGAAAGAGTGCAGAAGGTATCAGAAATGAAGGCAGAAGAGGAAGGGCTCTTGCAGCTCACAGGACTAAAATCTGCC
TGGGCTCAATCTTCTTCAAGCATAAGGGGCTGATCGCAAGGAAGGCGTCACCTGGTTTATTTGTTTGTTTGCTTGTTTGGGCTGTTTGAGAAGG
GGCTTCACTGTGTAGCACATGCCGTCCTAGAATTCACTGTGTAAGCCAGGCAGCACCTTGCGGCAATCCTCCTGCTTCTGCCCCCTGAGTTTGG
GAACTAACTATAGGTGTGCACCACCCACTCCTGGCCAGAAGGTCTTTATTCAGCCAGATTTCACAGGAGCCAAGTGCTTTCTCTTCTGTCACAT
CATCTAATTGGTTTGTCACCACCCTCAGGAGAGCAGCTGGTGGTGGTTAGCTCAGGTGCGTCTTCTCTATTTTGAGGCCGTGATTCTTTTAG
CAGACGTGGTGAGAGACTCTCTCCACCCCACTAGGCCAGGAGAGGCCTTTGCTATCCAAATCGCCTGCTCTAGCCTAAGAAGGAACTCTTAGGG
GATGAACCATTAGAGGAATGGAGATTACCTCAGGACCAGGTGATTGTCACCACCTTGCTTTGGTCGTCATAAGGCAGACTGTTCGGTTGTCTCT
CTACCCTTCAGGTAGTTAAAATGTTCTTACGGGGATTGGCAAAAGGTGGCTCTTCCATGAACCGACTTAATCATAGCAGTAAAAAACAAAACTG
GCATGTTTATATCATGCTGTTTCAAAGCATTTGGCATAAGGAAGTCATGAGCTTTAGATCCGCTTGGTTATTCTCCTACTGGTTAGATCTGTAT
GCATTACTCCTAGACGCTCTGGCTTCCTCCAGGTCAGCCTCCTGGACGCACGGGAAAGTCTCACTTGGGCAAGTCCACAAATCAAGGCAATAAA
ACATTAGTGGAACAACCGATTGAATTTATGACGGGATTTTAAGACAAGTATAAATGAGGGTTCTAGTTAATCACCATTTCCACATCGAGATGGG
AAGGAACAAGGGCTAAATCGTCCAGGAAATACATTTGGAAGAGTTTAGCATGATCCAGAGTGGAAGATTTATAATTCCTTTTACTGGAGAGGGA
GAGAATTAACATTGTGACAGAGCCCAAAGCGAAGAGCGGAAATAATAAAATAAATAAAATATAGGGCATAAAATTGAATGTACAGTCTAAGACT
CTAGTAAGTTCCTACAAGTAAGGAACTAGGGGAAGCTATGGATGAAATGATACACCACATAATCCAAGCCCCTGTGGGACATCTCCTTTTGAAT
TCTCAGATTTCCATTCATCTATAACCCTTGCTTGATGGTTTCTGAAAAGTAGAGGGTTGGAAACAGAACCAGGAGTTTATCTGATAGACACAAA
CCCCAACATGAGCAAGAGGGCTAGCTCGGGGAGATCTTCCGGGTCCTGGAACAAGGCCTTGCAGTTCCAAATGAGTTAAGGCGGGATCCTGACA
AGACAAAGCTGGGGCGGGGGGGTGTTCAAGGGGCCTGCTTCTCCAACTATGTGACATCTTTGAAGGCTTCTGTAAAAACCCTAGCAGTAGTCAC
GAAGGCAGAACTTCCACGGTTCCTTAGCCATCTACAAAATGGGTATAACAAGACCCATTTCATAGATTCTCATGAGAGAAAAAAATGGGTCAGA
TAGAGAGCTGGCTTGTGGTAGGATCTCACAGATGGACTATTACTCAGTAGGTACATCTTGGAGTCTTAGTATGACATACAGAAGCTGTGACATA
TGACAGATTTTTTTCTGTGCTCCCTCTCAACCTCTCAAGGGTTTCTTTTATAACCCCTAGAGATCACAGCACCTCACTCCCTCCCCACCACCAT
TGCTGGCCATTTAGAACTGAGTTCTCTTAGCCTAGATCTTTTGCAGCCTCTAGAATGAGAGGAATATGAGTTGGTTTAAGAGGAGTACACGTTT
TTCCTGCTAAATAAGCATGCTAAATGAAACAATCAAGCAGAAAAGCAGAAGCAGGAGCAACCAGACACCCTGTAATATAAAATACCATCCCTTC
TCCAGGAAGCCTTCCAGGACTCTCCAAATTCACCCTAGACCCTTCAACCCAAGGTTCATTGAACTACCAGCACAACCCATTGCTTAGGTATTGC
TCTGATGGCTGCATATTTATGCAGATGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGAGGGAGAGAGAGAGAGAGAGAGAGA
GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGTCTCAAATACTCAACCCTCCTGCCTCCGCTTCCCGAGTCCTGGGATTGCTTGAAT
GTATCAGCATGCCTATGGAAGTCTGTCATTTATAGCATCTCCCACCTTAGACTGAGCAGGTTGAGAAGATGCTTCAGGGAATGATGAAACAGAG
GGGGCTGGGAGAAGGCAGGTTTGGAGCAGAGGCCTCAGTCCTGTCCTGTTTCCGCTCATTCACAGTTAAAGAGGTTTCTGTCTCTAGAGCCATT
TCTCATCTTTAAGTATTTAAATATCCTAAAAATGTTTAGGGGTGGTCTGGTAGAAATCTTAACACAGCTGTCCCCCCCCCCCAAAAGGAGGAAAC
CCAGATTGGATTTATGTCAAACAGTAACGCCATTGGGTTTTCCAGCTGCCAGGACAGAATCACAGGAAAGCAGGCTTGTGTATATTTCCCTTC
CGGAGAGTCCGGAGGGATAAGTGTGCCCTCCTGAATTCACTGCTAGTCTTAAGATGCAAATGGGTCCCCTTCCCAGAAACGTTAGTTACTGGGG
ATTATTTTCATTTTGATGTCACCATTTCTTGGGCCAAGCTATCACTTGACCTCCAGAAACTTTAAACACCATCCTGTCAGGGTATGTGTTGAGG
CAGCTAAGAACCTTTCTCAGCCCTAAGTGGTTCAGGCAGTGTCAGAAGCCATGGAACCAGACGGAGAGTTCTGAGGGGACGATCTGGAAGGGAA
GAGAGAGGAGGTAGAAAGAAAAGAGAAGAGGGAAGAGAGGGGCATAGGAAGGAAAGATGGGTGGGGGTGGGGGGGTTAAAGATACCATGAATCA
GGAGTGAGAGAAAAAGAAGAGGAAAAAGGAGAAGACGGAAGAAAGAGGAGAGAGCAAAAAAAGAGGAGAAGAAAAGAGGGGGCTGTGGGGAAAG
AGGACAGAGGTGGAAGAAGCAAAGAGGAGAAGATAGAGAAGAGAGGGTGGAGGGGAGCCTAGGCTGCTGGGCAGGCATGCATGCTGACCGTTGT
TATCTCTCCACTGCAGACCCCACACTGTGGACACAGGAGCACGTTCGACAGTGGCTGGAGTGGGCTATAAAGGAATACGGATTGATGGAGATTG
ACACTTCCTTCTTCCAGAACATGGATGGCAAGGAATTGTGTAAAATGAACAAGGAGGACTTCCTCCGAGCCACCTCCGCCTACAACACAGAAGT
GCTGTTGTCGCACCTCAGTTACCTCAGGGAAAGTAAGTACCATGTACACCCCAGGGCTTGGGAGCAGGTCCTGCCAGGTCCCCAAGAGCCAGCC
CAAGGGAAGGATACCCTAATACCAGTCATGGAAGACCTATGCCAAGGAACAGTTTCCTTAGGACAGGAACCCCATCAAGGTCACATGTGTTCCT
ACAAAGCCTGCAAGGGAAAGATTTCATCCAGGAGTGGAGTGTCCAAAGGAAACAGATAAAAAATGGAAAACTCACAGAGACCTGGGACATAGGG
AGGATGACACCAGCTACTAGGTAGGCTCTGGGAAGATCTCTCTCTTCAGAAGCTTCTGCTAACCAAAATTGTACAGAGATAGAATCTCTGGTTG
GAGGCTTTCTAAGGAAATGTTAAGAGTTCTTACCGGAAGTTCTGAACATAGATATGAGATCTAAGATTGTGGGAGCTGACAGACTACTCCTCCT
ATTCTGGATTCACATTGATGCCCAACCCTAACCTATGGGGCTGCTTCTGCCCACTGCCACGAAACAACAAGAGCATCTAGTGGCCCAGGTCTGT
TAGGAGGCACTGAAAACTTTCCCAGACAGAAACCCAGGGAAAGCTTAGTAAAGAAAGATCTACCCAATAGGAGGCTCCCTAGTACCACGCCCCG
CCCACCAGTTCCATGTGAATTTTGATAGATATGAAAGGGAATACCTATGGACCTGCTAGTGACTCAGCCTTAACTCTCCATCAGAAATCCAGAC
TATCCCCAAGCCTGGAAGTGAGCTCAGTGGTCTGCAAAGATGAACTGAAGCCACAGGAAGGCAGGCATGGGCTCATTCTGCATGAGAGCATCCC
TACAGCCAGCCACGTCAATGATTAGCGGGGCAGAACAAGATGCACTGTCCTCTATGAACGGCCTAGTTTGCCAGAGGTATCGTAAGAGTTTGAG

SAGRES DISCOVERY 02-33

AAGATTTGATTGTTTTAAGGCACCTTTGAATTCTCAGACCTCGGCCAACACTGTGGGGCTGCCTTTTGTGGGTTCACGGGCTCTGGAATGGTTC
ACTTTGTATAGGATCTCCATTGTGCTTTCAGTTGTTATCAGTAAAATACATCGTCTCAGTGCAAGGGAGTTCTGTAGAGAGCAGGGCAACACTC
TACTCACATGGGCTAGAAAATGAAAAGTTAAAATATTTAAAAATGCATTTGGAAGTTTCCATGGGTGCCTCTGGGCTGGCTATCTTGCCACCTC
TCTAAGGCATCTGGTCGTGCTGGGAGAGGACACATTAGCTCCACTGCAATGACCTCATGTCTGAGTTGCTGCACCATGAGGTCAGTCCAAGAAA
TAACACTCTAAGAAGGGGCCATTTTCTACTTAGTCTCTCCTGACTTTCAGATGCTTAGCATTTAATAATGATTTGTATTTCTCAGCCTTTAATT
GCTTGGTGGAAGGAAAGAACAAAAGGATCTTTTAACGGAGTTCTGCCATGATCTGCACAAGCAGGAGAGGCAGTAGGCACAGAGCATGAGTGTA
GAAAGCAGAGGCCAGGAGCATAGCGCCATCAAGCCTGACTTCTAGGCTCCTCCCCGCATCATCTATGCAAGAGGTTGAGTGATCCCTAAGGAAGG
AGAAATGTCAGAAGCTCCAGTGAGCTCTACACAAAGGGTCCAATAATCTTGGCTTTCACAGTAAATGCTTTGTGAGGACCATGTCCAAGAACGT
TTGGACTTCATAAAAGAGAAGCCCATTAAGACCATGTGACTTTCAGGCCTGGATTTCTGACCAACCCGTAAACAGCGCAAGTTTCTATTTCTTC
CTTCTGTCACCAAAGAATCTGAGCCACAGATACTGACATGAGGCATATATCTGCTGCTCAGAAGGTCTAGGAATACTGTTAATCAGTCACTGCT
TCCTATCAAGCCTTGGCAAGCCTGCTAGTAGACAAGGGCAGATAACAAGGCATGATGAAGGTATGAGCAGCTATAGAGGGAGCAGGGAATAGAG
TTTGGTGTTTGGAGGCTAGTGAGAAAAACCATGTAGTCTCTCCTTTTAAGAACACATGTAATCACTATGAAAAATGTCATACAACACACGAAGT
TTCCAGAAGGGGGATTTGCTATGAAGGAATTTCCAGAGTTGAGAAGAGGTAGTACATGTGTATGTTTGGAAAGCCTTTGAAAGGGCAGTAAGCA
TGTGGTGATAACAGTTGGGAGTTCTACACAGGGAGAGTTTTCCTGCCACCAAAATGGAGGTAAAACATAAGTGTTGCATGTACTTTTATGCTCT
ACCAGCCTTTGCTCCAGGAAGTGACCATGCTACCAGCCCCCTCCCAGCTTCCCATGAATCTGCAGATAAGAGACACAGACACTGGGCTGGAGAG
ATGGCTCAATGATTAAGAGCAACTACTGCTCTTCCAGAGGTCCTGAGTTCAATTCCCAGGAACCACATGGTGGCTCACAACCATCTGTAATGGG
ATCTGAGTCCCTCTTCTGATGTGTCTGAAGACAGCAACAGTGTACTCATATGCATGGACGGAAGGAAGGAAGGAAGGAAGGAAGGAAAGGAAAGG
AAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAG
GAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAG
AAAGAAAGAAAGAAAGAAAGAAAGAAAGAAGTAAGTCTTAAAAAACAAAAGACACAGACACACAGTTGTTCAATTTCAACTTGCCTTCTTGACA
TAATTGCTGGGGATTACTATCTCCTGCCTGGAAAATGCACACTTCTCTATACTCTTAGCTCTGTACCTCCCACCTGCCCTGAACTTCAGTGGCT
AGTTCCATCTAGCCCCTGCCAAACATCCCTGACCAACCACCTGTAGTTGTGGCCACAGGCCCCAGCTTCTCCCAAGACCTCATATGGCTGCTCC
ATTCTTCTCCCTCCAAGGCTTGGCAAAAACTCCCCCTCTCCTTCCTTTCCTCTCCCTTTTAATCCAGCGACCCGGAAGTCCTACCTGTACCTTC
TGTCTAGCGATTGGCCCATGGCTTTCTTTACTGACAGATCAAGAACCAATTGGGGAATAGGACCTCAGTATCAGACCTACCCTTACACATAAGA
TGTGCTTATGACACAAAGTTGAGTCTGTGGGCCAAAACAAATATGATAATGGTTGCATTAAATTTAAATTTTCTTGAAATGTAATACAGATTGT
AATAACCTTCTGAGGCACCTGGATTTAAAATGATCTTCATGAAATTTTTTCTGACTTTTTTTTTCAAATTATGGTTTCTTTTTTAGGATTCTAA
CCTCTAAGACCCTGGTTATTGGGTACTACTTGGCTGTATCAACCCTAGAGGAGGCCATTTGTCAGACATTGTCTGCTCTGTGATGGCTGAAAAC
TTTTGCCTGCTAACAGACATGCCTTCAAGCCTTCTCTGTTTTTGTTTTTCCAGACTGAATTACATGAGCTATTTCATGATAAAGAGAGAGACCA
GGGTTTGGCTGCAAGGTTGGGGCCAGAGGAACAAGTGTAGATTCTTAGCATCATTGTGTTGGGCTTTTGTTGGGGAGCAGCTGGGGCTAAATGA
TTCCCCTTTTGGCAAGACATAGAGGGAAAAGAGCTGAGACTCACAACATAGATGTAGGGCACAGCGTAGAGTAAAGGGAGATCAATACAGAAAA
ACTGGGGACTAGCCAAAGCATGGATTGATGGAAGTCAAAATTGGCTCAGCAAGATGGGTCAGTGGGAGAAGATACTTCCTGCTAAGACTGGCAA
TCATAGTTCAATCCTTGGGACCCATATGATGGAAAGACAGAACCAACTCCCATTAGATGGCCTCTGACATCCACATATACACTAAAGCATACAA
GTACACACACACACACACACACACACAATGTAAAATTTGATTGCACTTTTCTAATCTCTTATTTCTGAGTTTTGTTTTTTGTTTTGTTTTGTTT
TGTTTTTGTTTTTTTGTTTTTTGTTTTTTTGTTTTAGATTCCTTGTAGGGCGCTGCATTCTTGCATCAAATTTACTTTCACAAGAGACAGTTGGC
TATTCTTTGTTGTCTGGGAAGAAAGGTCTACTTTAAGTTCTCAAAGATTAATCATAAGTTAAAGAGGAATGGCCAATGATAAGGAAGAAATAACA
ATGTCCTCATGGATGAGCCCTGCCTAGAGGGTCTGGCTCTTCACATCTGGGCCTTTCTTTTGGCTGTTCCAGATGGGGTACCTGTGTAGCATTA
GGAAAGAGATGAAGGGACTAGAACTGACTAGGGTACCTGCAGTTATTGGAGTTCAGCTGAAATATCTGAGACACAAGCAGACACCAGCCCAGGT
GTCATTCACTTCCTGTGGACAGAACACCCCCTTGTGGACACCATGAACAAAACTTTGATTCCCATTTCTTGACCGAAGCAACTGAGGCTGGCTA
GTTTCAGGAGCCCATCCAACGGTATCTGGCATGTACAAAGCACCTGTCCTTACCTTTAGTCCTCGGACCACTGAAGCTTTCAGTCTGAGCTAAG
GTCACTGCTGCAGAGGACTTGATGACTCTCATGCAGGATGCTTGAATATGCCTGAATTAAGATGCTGACACAGGCAGACCACACCTCATTTGTC
TCCCTTCTCATCTCCAGGGCCAATCTCTTCTCCAGCCTCCAACTTGAGGGCAAAACCAATGTCCCCATATGGCTTTCCATTTGTGTTGCACCAA
TAGATGCAGGCTTTGCAAAACTCCTCTGCAGCCTCCAGGAGTGAAGCCAATCAAACCAAATCCCTCCTCTCACGCACCCTGACCTCCTCGATTC
CCCCAGACTCTGGGTGTGATTGGCAGCTCTGCCAGGATCTCCCAGATATGCCCACTGGACAGAGACACTGTTGGCAGCTGAGAATGGGCAAGTG
AGATCAGTCCCTTCTCAGGCCAAGGCCAATGAGGCAACGCTATCTGTCTCCAACTAACAGTTCAGTCACAGAGCCACTGGGGGGAGTTTGGGGA
TGTCTGGGAGCCCAAAAGCTCCTGGGATGAGTGGCCCAAAGCAGAAGAAAAGGGGTTTTGTTGTTGCTCCTGTTCGTTTTCAAAGGAAGTGAGT
GGAATGTCCATCTGGGCCTGAGCTGGGAAACCTTCTAAGAAGGCACACTTTCAGACAGTGGCAACCCCAGAGGATGAAATACATCAAGTATCAG
GGACACCACAGAAAAGGACTCCAGCTTGATTCCCATTTTTAATTTAAACGTAATGGAAAACACATTTTACACTCTGTGCTATCCCCATCTGCAA
CCTCAGATGGCCATGCAAAGGTGATGGCCCAGTCATTAAGCCAAGGAAGTGTTAAACTTTCCATCTGGATCAGGCCAAGAAAAGAAGGCAGGCT
TCCAATAAGATAAAGTGCCCAGTTGCCTGAAACTCAGTAGTCAGCTGGCCTGTTGTTTAGCGTGTAGAGCCTTAATTCCCTCCCCAGTGTGCAT
TTAGGGCTGGGGCTGGCTGTAGCACAAAGAAAGTGAGCTAGGAATTGACTGGCTGGCTGGGGTTGGGTTGGGGTAGATGCTGCTGGGTTCTATG
GTAACATGAATGGAGCCAGAGACAAAGGCTCTGGCACCAGGTCCCCTGTCCACACTGCTCCAGGTGTCCAGTTTGAAAAGCAAGTTAGAGAGTC
CGCAGAGCTAAAGGAAGCTAAGGACTTCCCATCTGCAAGTCCCATCCTATGTTCACTTTACTAACTCCTTTCAGATCCCAAAACGGAAAACGAC
CTTGCTGGGCTAGGGATGTCACTCAGTTGGTAGAGCACTTGGCTAGCATGCAGGACACTCTGGTTTTGATCGTGTGCACCCTAGAAACTGGTGT
GGTGGTGCCTGCCTGTCATCTGCAGCACTTGGGTGGTGGGAACAGGAGTATCAGACATTTACGATGGTCCTGGGGCTGTGTAATGGCTGCTAAG
CCAACCTGGTATACATGAGAATCTGACTTAACAAAGAAAAAAGAAGAGGAGAGGGGGGAAAGGAAGAGGGGGAGGAAAGAAGAAGAAGAAAAAA
GAGAGCAGAGGAAAGAAAAAGAGAAAACAAAGTAATCTTGTCCTCGAGCTCTTAATCTTGAAGGACCGGGTCACTACCAACATTTTAGAGCAAA
ATGTGTCTCAAATCAACAGACACATATATGTGCACATGAATGTATCCTGTCTCACACACACACACACACACACACATAACAGAGTGAACAACAC
TTTAAATTAGGTATAACATGCAGGGAGTTATGAAAATCACAAGGTACAACTAGCCCCCAAGACACCTGCCCTCACCTTCCAGCACCTTTTCTTT
CCCTTCTTCCTTCCCTCCCCTCCCTCCCTTCTTCCCTTCTGCCTTTACTACCCCCCCTTACTATTTGTTTGTTTATAATTTCTGGGACAGC
CTCATTGTGAACCTCAGCCTATTGGAACTCTCGGTGGTGCTCTTGCCTTAGTCTCTGGAGTGCTGGAATAAACGTGCATCCGTTCTTGCCCATC
TTGCCTGCATTGATTTAACCTAAAGGATGCTCCTGCTTCTGAACTGAGGACAGGTCTTATAGAGCAGCCCATCAGTTGATCTTGTCTCTTGGCT
CTGGTTCCTCTGGCTGTGTGATCGTAAGCCTTGACTTCCCTAAAGGTTGATCTCAGCTGTGGGAGGAGACTAGCATACGCATGCTTTGGGTGGC
CCCTTCAAGGACTAAGTAAGAGAGATAGTGTCTGGGAAGAAGGGGGGATGGTTTAGTCAAGAAAGAGCCAGGCATGCTAGTGTGAAGACTTGAC
TTTGATCCCCAGAACCCACGTGGAAAAAGCCAGTTGTGACAGCATACACTTGTCTCAGTTGTCCCTGCACTGCGGAAGTGAAGACAGGTGGATT
CCTGAAGCTTACTGGACAGCCAGCCTTACCTATCAGCTGGCTCAGGTCATAGCAATAGACTCTGTACCCCAAAAAACCAAGGTGGATAGATAGA
TCTTGAACAAGGGCACATACTCCTTTCGTGTATAGGAGTATACACAGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTCTATATAGCCATTGATT
GTGGCCCTTGCTTTCAGGAAATTCCTCAGGACTCAGCAGCAATAGAACTGCTTAGGTCAGATCCTCAGAGCAGGAGGAAGAAACTCAAAACCTC
CAATGGGAGACCAGACTCCAGGAAGGACTTCCCTGTAACAGGGCAAGTTAACGTAATTTAAAAAAAAAAAAAAAGACACAAGGGGCACCCTTG
GCATCCTGAGAACCTGGTGAAAGAAAACCCAGTGAAAAGAAAATGTGTCTCCCTGGGGAGAAACCAGCCCCACCCCCATGTAGGTTGCCCCTC
CCCTGTGAAACTTGAACTAAGACAGTCTTGGGGCAAAATCTCTCCCCTAGGTTACCATGAAATATGTGTATTTCATGCAGGCTTTCAGGAGGTC
AAGCGACCCTTTCTCTTGGCATTCTGGGAGTTTCCTGTGGCTTCACGTGTGCCCAGAGAGGAACTCTGACCATGGGGGGAAATTTAATAAATGT
GGTTTATCTGAGCTCCGTCTCTGTCTAACTTTGTACTAATGACTGGAGTGGTTTGCTGCTTGGAGACCATTATTTTTCTTTATTTGCTCTAGCAG
CGAGGTTCTGCCTGAGGGAGAAAATGCCTGGGACTGAGGCACAGACATTCTTGCTCTTACCCCTGAGAGGTTTGGGGTAT

TCTCTTGGAACGTTTGATTCCATTTCTGAAGCTCTGTCCAGTCACGGAGAATTATCCCTCACTGCGGCAGAATCCATCCCTAGCTGGAATTCCA
GCCGGCCAGCAAGGCCAGTGCCCGCAAGCTCTGTGTAAAGGGTTTCCATTCTGTGTAACTGAAAGCAGTCATGATAAGTGCTAGCCTCTGCTGA
ATGTTTAAAACAAGCTAGGATCTCTGCAGCACACCTTCTGAGCTTAGTTTTATTGAAGCCACATTCTGTAGATGTCATTTTTCGCCCAGTATAG
ACGAGGGACATGTGACCAGGGGAGCTATACCCAAATAAACTTGTTACTTTGAAGTAGGAGAGCTTAGACTAAGATGAATTTGTCACTAATATTC
TTGGAAGATGGAATGTTGCCTTCGGGTGGCTGTGTCCCTTATGTAATCTACATATCTGCACTTTGGCATATAGCAGTCCCTAAATGGTACCCAC
CACCTCCTGGTTTTCACCTAGGAACTGCTGAGACCTAGAAGTGATAGGTACCTAAGCCAAAGGTCTTATGTCCCATAAGAGGTGACTTTGGCTG
CCCTGCTTAGACCCATATTTTCTGAGTATTCAACCAGAGCATCCGTAGCTAAAGGGGACACCCCTCTACTTCCCAGCCCCTCCTTGACTGGAAG
CTAAGCAGAGGCATGGCTGACAAGCCATTCCCAGCCTGACCGTCAGTCAGTTCCCTTGGCCACATGTCGCAAGGAGAAGAGTTGTGCTTAGAAA
GGCTTTGGTAGCCTCAAACACATGTGTTGAGCTCATGGCGTCCTTTGTAAAAGCAGATCCCAGCCCTCATTTTGAAGGCTTAAAAAAAAAAAAT
CCCCAGGAGAATCATGAGAGGAATCCTAAAAATGCCTCCAATTTATAAAATAAACTCTTGGGATCACTTTAAACAAAAGGACAGATCTAGTCTG
AGGAAAGAGAGGAACATATGTTTTACATGCAATCACAACAGAAAAACAATCGTCTATCCCAAGTAGCTCCACTGGACCTGGTGCAGAGACGTTT
CCATCAAAGCTTCCGTTTAGAAGACCACACACCAGCGGGTTGAGATCTGCTGTTCTAGACACTGAGAAAATTGTCTGTTATAGTATCGACATCC
CAGAGGTGGGGTCCCACAATCCACGGCCCACGCAAGGGTCAGCAGCCTCCTACTCTGGCCCCATTTCTAAAGTTTCCTCTACATCTTAATTCTA
ACATGCTGGGAACCTTGGCTTTAACACACAGGCCTTTTGGAGAACGTTCTAGATTCAGACCGAGGAAGCTTGATGTTTCTGTTTTTACTTTCAT
TTCAGGTTCACTGCTGGCCTATAACACAACCTCCCATACAGACCAGTCCTCACGACTGAATGTCAAGGAAGGTGAGTCTGTCCTCTCATGCGCC
CAGGTTCCCTCCACTCTCACCACCGCACAGGTCCATACTTCTCAGACAGGTGGGGGATGCTATGTCTGGACACCAATTCCTTCCTCGGGAAACT
ATTTTTCTAGGACACAAGATAAAACAAAAAACAAAACAAAACAAAACAACAACAACAAAACAATAACAAAAAAAGCAAACTTTTTTTTTCTTTC
TAAAGACCATGTTTTTCTTCCTCTGCCACCATTTCAGAACTACAAGGGAGGCTTTGAAAGATCTCATAAAAACATCACAAGAATATAAATTAAA
GTCACCCCCACCCAAAGAAAGGGGGACTGTCCTTAGAGAACAATGAATCGGCTGACTTTCCAAGCTGACACTTTGGGGGCTCTCCTGGTGAAGA
TAATGGAATGTATGTCTACCTTATAAAGTTTTGTTTGTTTGTTTGTTTCCTAAAAGAAAATTTAGCATTTTCAGTTCGTGTTTAAAGTGGTGAT
CTGAGGATTTGGTCTAGGATAAGTTGACCTGTTCTGGTTTGGGTTGGTTTAGTCAAACAGTTCATTTGATATAATTTGGTTTTGATCAGCGAGA
AAAAAAACTGTCTTGAAAAAATGGTTTTAGTGAGGCGCCACAAGGATGCTTCTCAGAGTCTTCATTGGTAGGGACTGACGCTCCAGCTCTCTGG
TGGAGTGCATGCACAACATGTGTGAGGCCCGGGGTTTGATCCAGCAACACACACACACACACATACACACATAAAAATGCACATACATATAAGT
ACACACACATACACACACATATACTCACAAACACGCATATACACATACACACAAACACTCGCATATATACACATACACTCACATATACACACATAC
ACTCACATATACACACACATATGATCACACACACATACACACACATATATTACACCCAAACACACAAATAAACACACATACACACACAAATTCACA
TACACACACATGCATACTCACATATACACATACACTTACACACTCACACACACACACAAACTATCACCCAACCTAGTCTTGTTTTGGCCACCGA
GTCCCCAAATCAGATGAATGATATTTTTGTGTGTGAGAATTGAAGCTCTGCCCACTCATTCTACAGTCTGATGATCTCCTGCCCCATCATGTTA
CACATGCCTATAGCAGAGAATACCTATTTGCATGATGAATACACTGAGGTCTGGTTCCCTGGTTTTGTCACATCTCTGTCCTCAGACTCACGTC
AGGTTCAGGGTTCTTCCAGGGAGGGTCAAGTCTTGACTGTAAAGCAATCAGCTTCTGAGGATGGCTGACAATGGGGCCATGGCTTGCAGGTTTA
GAAAGAAACAAATAAGCCACTAAACAGAGGGAGAAAGGAGAGGAAGGATGGGAAGGAAAAGAAAGAAGAAAGATGGACGTGAAGGGAAGAGCAG
GAAGGGAAGGCGAGTTTTGAACTATTGAATTAGGATTTACTGTACAGCGTGCTGGTACCATCAGAATTAACCAATGAGACTTTTGGGTAGACAG
AACTAATGGTCTATCTGCTCTGTTCGTACAGGTTTAAATACTGGTTTAGGTTGAGAAACTGGTCTGCAGACAATGCAGTCACTAACCAAGTCCT
CCTTGCTGCTGAGGAGTTCAGTGCAGCCCTGGCCCTGGGCTCTACCTGCCAGGCTGAGCCCCTCCTCCGCTGGCCCTTTTGTGTTGAGAGTGCA
TTTGTCTCCCTGCCGCCTCATTCAGGCTGCTCGGAGCCGCCAGCTCCTACTGGGTAGCAACCCTCTTCTGAAATGAATTGACTGTAGCATCCAG
GCAAACGCAGCACCGGCTGCCCCCATTCAGGTGGTGATGGGCATTTATCTCCCAGCCTCGGCCCTGGCCTCTAGAGACGATTAAGCCAGTGCTT
TGCAGGTGCATCTTTTGTTCCCAGTAAAGCTCTCCACTTAGGCGACTGCCTTCCCCCTTTGAGGTAGTCTGGCTGAAGGAGCCAGCCTGCCAC
AAAATAAAGTACATTAGCAATACAAAGCTAACAAACTCCTCCCCCCTTTCACCCTCTTCCCACCTCTCTGCCTCTCTTCTTCCCTAATAGCTAT
CTTTATTTTTTTAATATTAAATGGAAAAAGAAATAGAAGACATCAATGCCACCTTGACTATGTCTCTCTTTGAATAAGAGGCACACACGGCACT
CAATCAGAGCTGGGTGTGTGCCCACGGGTGCCTTTGCTCCCTGCTTTGCAAAGGGCAGGTGCTAGCTGGCATCAGGCGCAAATGGGAGAAGCTG
AGGAGATGAAGTCTATTAATGTATCTTCATGGTACTTATCAACTAGAGTGCTGCTTTAGTTCAGAATGGCATGATCGTCCTTTCTAGCCTGCCT
ACCTCCTAAAACACTGACTGAAGCTATCTCAGGGTTATTTGTATGTAGAACGTAAGACAACATTTCAAAACTCAATTTCCACAGACCTGTAAAT
GTGTTGTGAGTCTCAGTTATACCCAATTGGAACCATTGAACATTTTCTACCTTATTTGTCAAGTTTAATGTACTTAAAGCAGGAAGACAGCGGT
TATTGTCAACCATTTCCATAGCAGCCTCGGCTGTCACTTAAACAGGATTTTGGAGTGTGCCTGGTGCGGGTACATACTTTGTTTTGGAGCTTTG
CACCATTCTGTGAGTCAGTCCGCTGTTTTTGTTTCCTTTCTGTGCAGAGAGGTGGGACAACATGAAAGTGACCCCTGAATGGTTTGTAGCCCCT
CAGAGTATGGTAAGGAAAGTTCCCCTTTCACTTAAGCCACTGTCATAAGAGAGAAATGGTTGTTACCAGAGTCTGGGAAGGCCATGAATGGAAA
GGTTATAGAGGGTGAGGGGCCAGTGGGGACCTCATGCAGCTGAAGGAACAGCTTCTAAGGCAGAGTAGGAAAAGAATGATTGACAGCAGTCAAT
TCAATATTTTCAAAACAGCTAATAGGATTGTGTGTGTGTGTGTGTGTGTGTATACATGTTTGAGGGCGTGTGCATGTTTGCATGCGCACACA
TATCTGTGTACATGCATGTGGAGACTATAAGCTGGCGTCAGGTGTTTCCCTGGGTTGCTCTCCACTGAACCTGGAAGCCATCCATTCAGCTATG
CTGGCTGTCCAGTGAGCTCCAGAATCCTTCCTACCTCTCCCTCCTTAGCTTTGGGATTTGAGAGCCACACTGTGGCAGGCATATGGCTTCTAGA
GGCTGCCAGGGATCCCAGTCTGGACTCTCATGCCTGGTCCACAGGCACTTCACCAGCTGAGCTGTCTCCCCGGCCCCAGTGATTACTTTTGTGA
CGTGATGGATGTGTCTGTGTCTTTCACCTGATTGTTACACATTGCAGATAAGCTTAGTAACATCACTCTGAGTTCTCAAAGTACTTACAGTCAC
TATATATTTGAAATATTTTAAAATATGTATGATTTAATGGCCCTTATTGCCAAGGTTCCTCCTCAAAAACACAGTCTTTTCCCTCTAGCTATCT
TTTCCTAAGTGTAATTTGGTGCAGAAATTTGAATTTCTGCAACATTTTTCTCTGCCTCTGTAGTTTTTCACTGCTGCCTCCAGCTACATCTCTG
TTCCCTTTTCAGAAACAAATGTATACCCAGCCTCTACTAGACCTTAGCCTTCCGTCTTAAGGGCACAGAGAGCCCCTTGTAGACTTTGTAAAAC
AATGACATCCAAGGACAAGTCCTCTGTAACTTCCTTCTCTGGAGCAACCTGGAGCCCTGGAGCTCACTGGATGGAAATGGGGGCTGGCTGCCAG
AGGCTGCAGGTAGAGAGAAGTGCTTTGCGTTGACTGCTGACAGAGAGAGTACTGAAGCTGGAAGCTGGTGACGATTTCACTGTCTTTGAATG
TGCAGAGTGTGGCTAAGTTATACACTTGAAAGTGGTTAAAACGGTAAATTTTATTTTTAAAAAATTAAATGCATAAATAACAACAAATACTGAG
GCTAAGGCCCAGACATAATGTGTTAATTCTAAATCTCTACTGGGTACCTACGGGGGCCTTGGGGATTTTTTTCTTAAGTTCTAGCTGGACAAGC
CCTGCTTCGTTGTACTGAAGGAACGTAACCGGCACATCCAGGGCCACTCCAGGTCTTTCTGGATCCTTCTGACCTTCTCTGTCCCCAGGGTCATC
CTAGACAAAGACCTGTGGATATACTGATTGTAAGCACGGGTGGGTGAAATATCTCACAGTTGATGATGTCATTATTACTGTTATTGACAACTAG
GTATGAGTTTAGCATCTTACATCTTAGAAACTCCCTGCTCCCATGCCTTCATTTGGCTCTCTAAAAACAGATCATGTGTTGCTAACTTGGGTAT
ATGGGGGAGCACTGAGGCTCAAGAGACTAAGTGGCCTTTCCACATAAGCCTTCTAGAGCCAAGCTTGACCCTACTCCCTTCTTCCCTGTCCTGC
ACACTGAAATCCAGTGTGACTGCTGATCCTGGGTGGTAGATCCAAGGTCCCAGCTTTCTCTTTGGTTTCTGGGCAGCTCCTGCCCAGGGCCC
TCTGCAAGTGCTCCTTGCCCCCACAATAGGCAAGAGTAGGCACCTAACTTCAGAGCTCCCCTACATGCCTAAGGCCCTCATTTCCTTAGCCCTC
ATCCTGCATCTATCTCAATACCTCCAGCTCTCCAACAGGCAGCGGATATAGAGCTCCTTGTTCACTAACTTCTGGACCTCATAGCTGACAAGGC
CTGGCGGAGCTCTGAGCTTCTAGGCCCCCACCTAGAGCCTTTGAGACTTGATGCCGAAGGTGAAAAACTGAAAACCACTGCCCTAGCTGCCAAG
GGTAGATGGCCTGCAGAAGCTCCATTACTGGCACTTACCTTGACTGATGGATAAAAAGTCTGTCTTCATACTTGCCAAGGATTGAAAAGAGAGG
GGCTAAATCGCCCCATGACACATATGCTGGATGCCCAGCTGCCCATTTATGGATCATGCTTAAGAGAGCCTCTCCTCTCAAGAATTCCAAGGAC
AAGGGCCAAGCATGGAATAGCAACCCTTCTGTAGTATCTACTTACCAAATATTTTCACATCCATTATCCATTATCCACACACCATCACCATGAG
ATCGCAGCTGCTACCTTCTTGTCCCCGTCCTGCAGTTAAGGATAATAGGGCCAAGAGCTCCCAATGTTCCTTAGATGTCACCCATATTTGGGGC
AAAGCAAGACTACCCGTGCTCGCTTCGGCAGCACATATACTAAAATTGGAATGATACAGAGAAGATTAGCATGGCCCCTGTGCAAGGATGACAC
GCAAATTTGTGAAGCGTTCCATATTAAAAAAAAAAAAAAGACTCTACCCAACATAGGTTTGATTTGCTCCCCATAAAATGTGGGAGGGGTGCTT
CCCACATTTTAATCTCAACATCTTAAGTATTTGTTAATGAATGTTTTCCACTCACCTAAGGTAAGCACCCAGCTCCTCTTTCAATGTTATACTA

ATGAAGTTGCAGTGTGATTTTGGGCAAGGGTTTGCCTTTTCTGTCTCAGTATATTATTTGTATGGCTGTCACAATACCTGACAGAAACAACTTG
ACAGGGGAGATAGAAACTTTGCGGTTTTGGAGAGACTTCAGTCCATTGTGGTGGAGAAAGCATGATAGAGGGAGTGTTTCGCAGAGATGAGAAG
AATAGAACATTTGGTAGTGGGCGATCCCATGGTGGTGGACCAAGATTCAATGGTTAAGCTATAGCCTTTATCATTAGCCTACCCCTAGTGATCC
ACTTCCTCCAAACAGTCTCTATCTCCTAAAGGTTCAATGAAATTGTACCATCCAGTGGGCAGCGAGCATCCAAAAGCTCGGAGCCTGTGGGAGA
TGTTTCCGATTAAGTCAGAACACTCCATTTCATCATGTATAAAGTGAGGCTAATTTCCATGCCCTTGTAAATCAGCATGATGTCTGACATGCCA
AAAATGCTTGATAAATTATATTCATAACAGTTCATTATTATGATTTATGACCCGAATTTAATAGTAATTAACATTATTGTTGGGGAAATATATT
TGAGGGTTACCAGAGGCTAACAATGTGAAGATATTGTACTCTAATGGATGGTATAGCGCTGTGCAGGATGCTCCACCATAGCTGAGAAGCCAAG
CTGCTCAAAACCTTCCTAGGGAGAGACCCCTATAGGCGATGTCAGGAAGTGCTGTCAAATCACATTCATAAATGCAAAGTCACTTGTCACATTC
AAGATCTCCAAGGGGAAGGAAGGAAGAGCCACAGTTGAAAATACCTACTGAATATCTTTTATACAAAACAAAAAAACAAAACAACAAAAACAAA
ACAACACCCCCCAAAAGAATCAAAGGCCATAAAATGGTTGAGACCAGCCAAAGCCACCCTAACCTGAAAGATACTACAGAAGACTGAAAATACG
TCAGACCACAAGCATTTAGTATATGAGAGATCCAAGCTGTATAGGACTTTTTAGTATTATATTAGTTTACCTTTTGTGTGGTATGGGTGGTATG
CCATAGCTCAAGGGCAGAGGTCAGAGACAACACATGCAGAGTTGGTTTCTTCTACCATGTAGGTTCTGTGATTTGAACTCAGATCTTCAAGGTT
TAGTAACAAGTGACTTTTCTCACTGAGCCATCTCCCTGGCCCAGTGTGTTCATGCAAAGGATGTAGGTGGTCAGTGCCTTAGTAAAGAATGGAC
CTGAATTCTGTGAGTCGTTCTGCCTTCTCCCAGTTGCTCATTGATTCTCTGACTTATGGAGGATTTGCTCCATACAATAAACCTTCCAGAATCT
TGGAAATATGATAGCCAAGGGGCGCCAATCACACCTGCAGATGAGCAGTAGAGTCTCAGAAAGTCGTCCTGCTGCCTCCTGCACACACCCTCTC
CATCGGAGTTCAGAATGACATCATCCGAGAGGTTATGGTGTAATGTGTGTGGGGGTGGGGGGAGGGGTGTATTCTGGAAAAGCTGGATGTGGCT
ATAGAAATGTAGGAGGGGCAACTCTGATTCTGGGGTGTGTGTAGGCACTGCCATATGCCTCCACGTGTGTTCTGGGTGGTATTTTGAAAAAGGT
GAGTCCCTATACACGTGAACAAAGTGTCAGCGGGTGGCATGTGTGACCCTTGGGTAGGTCTCCAGCACTGGAGACAATGTGCTTAGGCACTTCA
TGGTGAGACTGGAATCTCAGGTATGGAGCCCAAAGCAGGAGCCAGGAATTTGCCTCAAAATACTAAGGCCCAGTGGTAGTGGGGTGGAGCTAAA
GTGAGATTGGCCATGGCTTTTAATTGTTCAGCAGAGCAATGGGCCCCAGTAAGGCTTCACTGGACTTTTTCCCTTTTATGTATCTTGGAATTTT
TCTGTGACTGTAAAGACAATGATAAGTTTTATCTGAGTGGGAGGACAGTTAAACGAGCAGAAGTGTCTGCATTCCACACCTGTGTACAGTGAACG
AGGGTGGCGTGCTCTTGGGAGGCCCACATTCAGACTGTGAGTCTATGGGGAGGGGAGAGTAGGTGAACATAGAAACAAGAATAGAAATGATGTG
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCCTGTCTGTCTGTATGTGTGTATGTCTGTGTCTGTATCTGTGTGTGTGT
CTGCCTGTCTGTGTCTGTGTATGTCTGTGTCTGTATCTATGTGTGTGTGCTTGTGTGTGGGTGAGGGTGTGTAATTGTGTGTTTCTCAGCTATT
TCTGTGGTCCAGAGGCAAGATTTGTGATTATAGATAAACAGTAGCTTTCTCTCTCTGGTTTGTATTTGGTTTTGTTTTAACTTAAAAAAAAAA
TCCAGAGTTAATGTCTTGTCTGTTTCCTATCTGACCCTCTTTAAGAGATGTGTTTGATTTTTAAAAATTTTTATTTTTACTTACTTATTTTCGA
GAAAAAGTGGCAGAGAAAGAGAGACAGAGAGGCAGAGAGGCAGAGAGAGACACACACAGAGAGAGAGAGAGATTGAGAAACTGGAAACAAAGAA
TCGTTGTCTCTGAGCCCTGGCAGGCAGGAAACCCCAATCTCAGGGGAGTCCAGCCAGCCAGCCCGGCCCTGGAGTCAGACTCCAAGTTTCTGAA
TTCAATTTGACAGCTTGTCTGGGACACTTTCTAAGTAACCATTATCCTTCCTTTCTCTAAGTAAAAGAACTGTTATTCCTGTCCCAGGGTGTGC
TGTGTGCTCTGTTATTGCACACGTGTGGCCATACGATGACGAGCACACGGTCTCTAAAATTACTGGAAACAGTTTTCATGTTCCCTAAGACAAG
TGTAAATTTGTTCCAGGCTAATGAGCAAAAGATTTGAAGTCTCATTCCCCAACCTGGTGAGAAGTAGGTAGATGGGCGAGGGGGGATGAGGGGA
GGGGAGCATTTGCCCTGGTGTTGTGCATGTACACACTATTCTTACTAGGATTTCTTTGAAGTACACACACACACACACACACACACACACAT
CCTTCACTGACCACTATCCTCAGCGTAAGCATAAGTTCTCTCCCTCTCTCGTCCACACTCACATCAGCCTAGAGCTGCAGGTTGCAAGGAGATG
ACTCCTCTGTGTTCAATCTGCAGGCCCTGGAAGCAGGACCACACTGGGTTCTTTGGATCTTTGACATGGTGTTGTGAGGGATTAGGCAGCAGCC
ACCCCCTCTGTTCATACTTGAAATCCAGGGGCAACGTGTAAGTTTATGTCACAGCACCTTCTGGACAACTGTGGATGCTTGCTCTCTTGGGTCT
GCCCTCGAGTCTGAATGGAACTGTACCTACTATGCCTTCAGTCAAGCTTGGGACTGTCTCTCCACTTACCCCACCCCTACCCAGGGACCTGCCG
CCCCTTCAGAGGCCTTGGCCCTATAGCTTTGCCTGGTTCTAGTCTCCTCTGCCCCTTTTATGAGGTGTTTTGTTTGTACCCACTCTTTCTCCAA
TTTAGTAGTGTTTAGTATTGGACAGATTCCAGAGGACAGTTTTTTCCTCTCAAATGACTAAAGCACCCTGGAGCTAGAAACCATTGGATGGGCA
GATGAAAGTCACCCTTAACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCCTTCCCCTTCCCCTTCCCCTTCTCCTCCTCCTT
CTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCCTTCCTTCCTTCCTTCCTTCCTTCCTT
CCTTCCTTCTTTCCTGTTTCTATCTTTTTTCCTTTATAACATATTTATTAAATACTTAGTCATGGAAGATTTTTCTATGCCATAAAACCTTATT
AGTTTAATGCTATCATTATTCCCATTTTATAGATGAGAAGCCCAAATCACCATGTTGGTTTGAAGCAGGGCAGAATCTGTTCTCACAGTCTCCT
CCCCAGCCGAGGTAGAAGACAGGCTCTGAAATTTCCTCTTGTATTTCGACCCAACTATGTCTTAATTACTACTGATGCTGAGGGGGAAAAAATG
CCTTGACAAAAGCAACTTGGGGAAGTAAAGGTTTCTTTAAGCTCACAGTTTAAGATTCATCATGGTGAGAAGTCCTGGAGGTAGGAGTTTGAGG
CAATTGTTCACATTGCATCTCCAGTTAGGAGTTAGCAGAGAAGAGCGACTGCTCTGCTCCACTGCCTTTCTCCTTTTAATCCAGTCCAGGATCC
AAGCCTAGGGAATGGTGCTGCCCACTTCTACCTCAAGTAACCTAATCAATTGTTCCTCACAGGCATGGCCAGAAGTTTGTCTCCTTCATCTTGC
CAAGTTGACATTAATAACATCACAGCATGCCAAAAGACCCATTTCTTTCAGGAAGCTGGGTTTGTCTAATTGTTAAAACCATGGGACTGCATCG
ATTCCTGCAATGGTTCAAAATTTCTCAATGTTACCGGCATTTCTGGAGGCATATTAGTTTGTTTCACAAATTTTTCTGTAGATATATTTTTATA
ATTTGCATGATGATACATGATTAAGCTTTTGAGCTTAATTGAACACTTAAGAGAAATGAAAAAAATGAGCTTCAGTAAAAGGCATATTACACTG
AGTAAAACCATTTCCATGTGTTGCAATGAACTTAATCTGAAAAAACGAGAGTGAGACACAGACATGTCATTAGAAATCAGGTTGTCATGTTCCC
CTTGGTTGATATGAGCATCAATCATGAAGACCTTCCAGGATCCTACCTCACCTAAGCTCCCTCCATGAAGTTAACTTTTCCTGCACTGGGGCAC
TGAGGAAGGAAGCTGTAGCTGACTGTTGGGTCCTTAGAATCGACAGCTTCCATTGCTTCTGCAGTGTTTTCCCACCTCAACCTTTACAGCCCAC
ACTTTGTTCTCACACTTAATGACAACTTTAGCTTCTTGGTTTACATCAGCATCCTTTCTGTCACCATAGGCTGGCCTCTCATGTCCCTGGGCCA
GAAGACAGCACTCCCCTCAGATAGTCAGAAGTTCTCATTTAGATCAACATGACTTTCTTGTGCCTGTCTTTGCTTTTATGCATTTCAGAGCTGT
TCTTAGAGGCTTCCAGAAGAAATAAATGAGGCTGTAGGTACCCATGTATGTTGTTCTGCGCTGCTAATGACGGTAACGGGGAATGCACGTGCCCT
GGTGCATCTCTATAAAGGAATGTGATTCCTGTAAACACTTGAAGGTAGAGGGCCAAATGTACAAGGCTGTGGGAAGATATTTGTGGGTAATGAC
ATCCTGGGGAACTTTCCAACCTGACTCCATTCCTCCTCCTTCCATACCAGCAGAGAGAGGCCTTGACTGTAGTGCTCTGTGGCTGAAGCTCTGA
CCATATCACACATTTCTTGGTAGCAATTCACACTTGCTAAGTAAGCTTGGCCTTCCTTATTCCTCTCCAGTCTTGCTGTTACTATATCAGTCCT
GCCGCCTCTACCAAGCTGCTTCTTGCGTTAAAGATCTGTCTCACTCCACAGAGTGAAGCTAAAACTCAGAATGAAATTCATTTTAGTTCTTAAA
CATCTTCACCATGTGCTCTGATTTGTGATGGAAACTAAAAGTGGTCCTGTTAGCTGATGTTGAGAAGGGTTTCAAGTTAACTGGCAAGAAAAGG
GGATTGTCTACAAGTGCTGTTGATGCTCACTGGTGGCTACCTCAGCACAGGGTCGTCCAGATACGTGGGCTTTGCCCAATGTACTGATTTAGCT
ATTCCAGGAGGTTTGTTTAGCTATACTGGAAAGTATAGCTGGCCTCTCCCATCCAGGGCTTCCACATCGGCAGTTTTGACCAACCATTGCTAGA
GAAAAGAGCATCCTCTTGGACAAGCAAGCTCCCTGTCATTTCCTAAATGACACAGTATAGCAACGAATTACATTGTGTTAGGTATTTTAAGTGA
TCTTAGATGTTCCTCCAGCAGTGCAGTGAGTTAGTGTGCCTTACTTACACAGCAGTGTGTATGCATGGAAGTGATACCCCAGTCGTGAGATAGC
GTAAGTGGTCCATCAATGACTGGAAGTCTTTGGGAGGATGATCATGCGTTCTATTTAGCACTGTACCATGAGAATTTGAGCATTATGGGTCATG
GTGCATGATAGAGACTCTGAAACCATTTACCCTCACATGCAAAGGAAAGACTATGCTTACAAAAAAAGCTTATTTTCCCAAGCCTTTATCTATC
TTATGTCTGTCTGTCTGTCTGTCTGTCTGTCTCTATCTACCTACCTACCTACCTACCTACCATCCCCGTAAAGAAAGGTATAGATC
TGTCTTTTTTTTCCTCTCTATTTGAAGAAGGAAGAAGAGAGAAGCACAGACATGGAAGCCCCTCTTGACGCACAGGGAAGAAGTGTATCTTC
TAGTTAAAAGGATGGGCTGTAAGCAGCACCATTTATTATTTTAATATGAAAATCTTTTATAGATGTAACAAATTCCTCTCTTTGGAGAAGCCTC
AACTTAATATCACAAAGAAATCATTTCTCCTGTAGAATCCCCACGGAAGAGAAGGTAAAGTCTTTCAGGAAGAAAGTCTGAGGCTGGCATGGGG
GTGTGAGGGCTTTCCCCTCTTTTGGGAATCCGCAGGTCTCACAAGTAAATTCTGAGACGCTTCTTCCGCCTCTTTGGTACAGCTTGAATTCATG
TCAGGCAGAAGCCACAGAGAGAATAATAACATTATGTAAGATAATTACTTATATGTCAAATCCCAAATCAATCCTACCTGCTCAGTGTGTTTAC

CTTACTCCGACGAACTGTGTCTCTTCCCTAAGCCCTGAACCCAGGAGCTATTTCTGAACCTAATTGCAGATTATCTTGTCATCTTTAATTGTGA
CTTTTGTCCATTATTCTTTTCTCCCACCCCAAAGATTTTCAGTAAATAACCTTGACAGTTGATGGATTTGCTGGGAAAGAAAATCTAATCTTTT
TCAATTGAGTTAAATATTTACTCAGTCTTGCTCTACTAAAGGAAGAATCAGAAGAAATTATCTTAGCACAAGAAAAAATTTATTTCTAGCCAGG
CAGTGGTGGTGCACACTTTTAATCCCAGCATTTGGGAGGCAGAGGCAGGTGGATTTTTGAGTTCGAGGCCAGCCTGGTCTACAGAGTGAGTGCC
AGGACAGCCAGGGCTACACAGAGGAAACCTGTCTCAAAACAAAAAACAAAAAACAAAAAACAAAAAACAAAAANNNNNNNNNNNNNNNNNNNN
ACCTGTCTCAAAACAAAAAACAAAAAAACAACAGGAAAAAATTAAGTTCTTATCTCCTATGAATAAAAAAACCTGGAAAAGAATAGTTTGGGGA
AATGTCTAATGGGTAAAATACTGCACAAAGGTGAGGTTAAATTCAGGTCTGCGTTACCCACATAATTAAAAAAAAAAACTGGGCAAGGTGGCAT
GCATCTGTAATTCCACCCTGAGAATAGAGACAACTTGAACCTAGGGGCTCACTGGTCAGCCAATCACTGGCCAAAACAGTAAGCTTCAGGTCCA
GTGAATGACCTTGTCTCAAAATAACAACACTAATCCTACTAAATACCAATAATGATATAGAATGCAGTAAATAGGAGGAAGATACTCAAATACC
ACCTCTGGCATCCACATGTGCATACCAAGATGAGTGTACAAGCACACACACACACACACACACATACACACACACACACACACACGCACA
CACGCATGCACGCACATGCATACACACACACACGCACATGCACACATACACCAAAATGCTGACTGGAAAAGATTAACTACAATTCCATAGGAGA
CTTTGGCGTGTGTGAAGGGTTTGTGTATACATGATCTTATCTATTCTCCAAAGACCCTTGTGAGGATTAAATATACTGTTTGCTCTTGCATGGT
CTGAAATTTACAAAATAGTCAATTGTTTCTCACAAGAGTATACTTTTCAGAGAGGGGAAGTCACTCACCAAGGTGCACACAGCACATAACTGAT
GATCTGGGAAGCAGGGTGCAGAGTTGGAGTGACGGAGATCCCGAATTCTTTCCTTTGCAGTGAATGGCTTTACTGTTTGGAAACCATGAGATTG
CTTCCCCCAAATAGCTTTAAAGCTTTAAATGACACCCCAAAACAGTCCAGTTCTTGATAAGATTCAGTTATTCCAAAGAAACACAAGCTTCTCG
GGATATAATTTTGAAAACTCTTTGAGCCTGAAAGCGTTGGCTGGCCCAGTTACTCACCAGTCCTGCCCAATAGCCTAAGATCAGTTTAAAGAAA
GTCAGTTTTGATAGTCTGAGTCATATTTTCAATTTCTAATAAAATTCTTACATGGCCACATACGCTGTCTCCCAGCTTTGAACCTAGGGTCTCA
TGCTCATTTGCATGTCTGGTTTAGATCATGTCTGGGATCCCTTGAAGTCTGAAACAGAGCTTGCCATTCTGTGATGTAGTGGGAATAGATTCTT
ACCAAAACTAAGGCCATTTTCTCAGATACTCGGATGTAAGATTCCACGTTTGACATTGCCTGCTCACCTGCCAGACCAGAACAAAGTGATGCAG
TCTCCCTTAGTCTGACCTCACCTGCCCACTTCTCCTATGATGACTCCAAAGACATGTCCCCTGGAACCCACTTTAGCATTTTAGCTGTCTGTCA
AAAGGCCAGTCTCGGGAACTGCTGGTGTTCGAAGTTTCCTCATTAGAATAGTCATCTTAAGTCATGGATGGGGGAAATCAGACTGACTCTGAAT
AACACGAAACCAGCAAACAATCAAAAGATGTTGTAGAGCTTTTAAATGTCACTGTCCTCCAATATCAACCCACTCATACTACATGTGAAATGAC
AAAATGGAACTAGCTGTCCTGAAAGTTGTCACTGTCAATATGGGACAATCCCAGTACTTTTCAGAGGAAAACCATGGAGTTCCCAAGAGCTCCA
ATTTAATCATGTTAGACAGTCCAAATCTTTGCTCAAATTCTGTTTTCTGAGGCCCTCCTACCCAGCCCTGCCTACTCCCTCTTCTGGCTTGCTT
TGCTCCCTCACACCCAGCAGCTTCTTCTAATCTACTGCATTGTTTACTATTTGTTCTGAATTAAGTTCCACAGAAGAAGGGAGTTTGCGTTGCC
AGAGTTGTATTCTAGGCACATACGTGGGTCTGGCAACAGAGCAGGCATTCAACACAACTTCATTGAATGAGTGAGTATGTGGTAGGGTGTGTCC
ACTAAGTCCAATAAGCTAGTACTGGGGTGGGGCAAGAGCAAATTTGTTGAGGGGGCAGAAGTGACTAAGGTCCGGTCCCTCTGCTGCAGAGATG
CTCACCTAGCCAGAGAGGTAACACACTTGACACTGGATGGTTGAGCAGACAGGGACAGTAAGCACGAAAGCAATGGCCCGAAGGACTGGAAGGA
AGGTGTGCAAAGGTCAAATCGTGAGGCAGATGCAGGATGCAATCGCCCATGGCAAAGGAGGACGTCGTATAGGCAGCGTGGCCTCTCTGTGTGC
AGAGCCAGAGGGCAATCATAAACAACTCTTTATTGCCTAAATGAGCTGTTGTTTTGCCTTTTTTTTTCCTAGCTGGTTTTAAACCTGACATCCA
TCTGACCAAAGAAGTATGCGATTGAGTCGTGTCTACTGTAACCCAGTGTGGAGGGGAATTTTGACAAATACCCAATTCAGCTAGTCAATCTAAA
TTCCTCTTCCACGTATGGCTCAAAGCCCCACTTTGAGGCCTTATCAAAATAAATAGTTTATTTAGACATCTGTGCCATTTGGACAGCGAGCCCA
CGGGGCAGACAAAATGAAAGAAGAGCCCAGGCTGGGCAGGATGCCTTGCAGGAAGGTGGCAAGGCTGTGCCCAGAGAATGTGCCTCTTACTTTG
TCAAACTTTTTGTATTTCAAAGCCGCCCCGTGCCTTTCCAGCATTTTCCTCATGAATCTTCTTTTCCCTCTGCACACAGAATATCTTAAACACT
ACGTCCATTGTGCTCCGCGCAGTGGTACTGGTCCTGAAGCTGAGGGGCTGCTTGAATTCCAGGACAAGATCCTTGAGAAGAGGAAACTTGAGCC
AGGATGTTTTCTCTTGCTTCTTTGAGTTCCAAGCTAAAGCAAAGGATTCCCTTTTTAACTTCCTCTCCCTGCAGTCTTGAGGGATGCCAGGATC
CTCTGTAGCTCTGTGGAACAAAAATCCCACTGGAGGGAAGGCTGGGTGAGCTTTAGGGAATGGATCAAATGAGGTAGAGGATTCATCCTGAGCC
TCTGGACCAGCTAAAGAGGAACCTGAGCACTCCTCAGTCATGGAAGAAGCAAAAGCTGACCGCTCCCAGCTGCCCATCGCTGTCTTCTGAGATC
ATGTTTAAAACCAGGGTTCAGGATGACCCACCACTTTCCTTGGAATGTATTCCTGGAATAACTGTTTGAGGGCGCCAGGTTAGAGTTGGTCTTT
GGGGATTCTTGGGCCTCTCTTCCTTCTCAAGGCCTTCCTGTACGACCTTTATGACCTCCTCTTATTGTAGAGGTAAAGGCAAGATGGAACAGGC
ATCTATATATCATGTCCAAAGTTCCCATCTATGGAAAACACAATTGATTCCCACAGCAGGTCTGTTAAGATCTGTTATCATGCTGTGTAGGGAA
GCAGAGTTGAAGTTCAAAAGACAAAATAACCTAACCAGGGGATTCAGATGAATAGGGACAGAGCTGGGATTAGATTCCAGGGCCATGGATGGCC
ACTGAGACCACCATTAAGCCCTAGAAAAAAGGAGCACTCCCCAGGGACAGAGCCCTAAACTCTGTTTAGACTGCCCATTTTCTTCGTAAGTTTC
TTTTGCCCTGGATTTAAAGTAGGATCCAGGCCAGTAAGTAGGTAAGATTCTTAGCAAATCAGAGATGATTTCAGATGAGAGACTGTTCCAGAGT
TGTGAACTGGGGGTTCAGGAAGCATAGTTAGCTTTTGTAGGAGGTGTTCAGCCCAAAGGAGAGTCCAAAGCAGAGAATTCCAGTCAGGTTGGTG
GTCAGAAACATCCATGCCTCTACTGAGATAGAACCTACTAGGAGAACATGACCTCGAATAGAGACTCCACTGAGAGGATCATGTAGGCACAGGC
CCTAGGACATCTGACCGTCCCCAAACACAGATGACACCTTACTTATTGGCATCACTGAGGTTGGCAAGCAGACCCAGGTTTTCCAAGCATAAAC
AGCACAGACACTGCCAGCCTGGCCAGCAAAAAACAGAAATTCAGCGAGAAGTGAATCTTTTTTCCACTAAGCATAGAGAGCAGGGGGCCCAGTG
TGGTGAGGGACTGAAAGAGAGGCTGCTGTGTGCTGCTGATGGCTGTGTGTGGGTGATGTCATGACAGGGTGTGAGCTGCGTACAGCCTGATGCA
CCTGCGTCTTGGACAGTTAACTGGAGGCATCAGGAGAAAACAAGGTATTCTCAGAGATGAAGGCCATATTTCCAGGACCAGTTTAAACACTGGT
GCGTCTATGCCATGGTCACAGCCAGCAAAAGCCTTCCCTTTCCAACGGGGCTCAGAGCTCATATTACTCTACCCTAGGAGGCTGTCTTGGAATC
TAAGAGACCATTTAGTGTCGCATTCAGCCACACTGAGTATTGCATAATGGAGAAACTGTTCAGGGCGCCGTAGATGGGAAGCAGAATTATCCAC
AATGGCTGGCAAAGCCCAGAATCCCCGGCATGAGGCCCAGGTCTCTTTGCTTTGGCGAGAACTGACCTCAGGGCTGCCTGAAACAAGAAACCTT
AGGCAAAGCCCACTGGTGGCTGCTCAGCAAAGGAATCACAATAGGATTTGTCATCTTAGGACTCCTTAAAGCCAGGGGGTGTCAGCCTTCCCTG
AGGCAGAAAGAGAGTTTGTCAGAATCAGGGCATAATTTTCTGCTGATAAAGCCATCTGCCACCACAGAGAAGGTCTAAGAGCATCACCTCGGGT
GCTGGCCGGGATTGCCACATTTTTGACACTGAGTCTTTGGCCACCTCAGACTTTTCTTCTCTAAAGCCAGATGTAGCTGTCAGGATGCGGGCTC
CATGTGCCACATGTGGGGCGTCTGTATGTGTGCACTTGGCTGCTTGGAGCCGCCACAGCCCGCGGGAGAACGCTGCACTATCTGGCGCTGACCA
TAGCCAGGCAGCATCTGGCTCTGGAGCCAGGAGTGTCTGTAGGAATTTGTACAGCAGGCTTGCCCCCTTCTCTAGCTTTTCCGAGTTGCTTACC
GATATGTCTGTCAGTGTGCCTGGTACTGTAGCTGACCTCACTGCCAGGCTTTTATTTGGGGGACATTTAATAGGAGAAATCACAATCCCTCATT
TTAACGATAACACTGCCCTGTGAATGATGGAACCAGTTCTGATAAATGCCGCCTCGCTTATTTTTATCCCCACGTAAATATCAGAATATGCTT
TCACAAACTAAGATGCCGATGACCACCCAAGATGACACAACATTACGGGACCACCATCCCTTGTGCTGTCCCCTGTTGATCCAGGCACATAAAT
GAGTGGTGCCCAGCTCCTGACCTCCCTGAAGGAACATACTCTCAGCTTCCACTTCAAAATGGGTGGCTTGCTGCTCAGCCGGTGTTGACATAGT
CTGTAGTCCTTATCACCACAGGCCTGAACTAGCTAGAGACCTAGTTCAAGAAGGTAAGCGTCTTGGATTCTTTTCTGCTAGCTGACAACAAAAG
GGATTGTGTGCATTTAACAAGGAGAGACACTGCTGATTCCATTCGTTGGTTCGTGTGTATGTATTGCATGTTTACCATGTATGGCTGTGAGGAC
CTGGTGTTTGTGTGTGGAATACAAACAACAAAGATGGATGAATGAATGGAAAAGGAGAGTGAGAAGGATGGGGAGACGTAGAGGGGATGCGTAT
TTAACAAATGGGCCAATGTGTTTCTGCTCCAGGTGTTTTTCAGATGAGTGAGAACAGCACAGATCATCTCAACGCTAACGATATCTTTCTCCTA
AAACATGGGGCACACTGGTCCTTGTGCTCAGTGGTAACTTGACCCTTTCACTTCAGCTCCAAAGGTCTCCAATGCTTTGAGCATCCGAGGCAGC
TAGATGCCCTTGGCCTTGGGCTTTCTCATCTTGCCACCTCCCTCTCAAAACACTGGTTTTTCATTTCAGTCTTGCACGAAGGAGACATACCCTG
CACCACAACTCCTCTGTGGTGCATTCACCAGCTTGTGCAGTAAATGGGCAGGCCCTCACACTGCTTTGCAGATTCAGAGGCCAGAGAAAGGACG
TCTGCATATGTAGAGGGGCTGATGGGAGAGAAGACTGTATTTTCCATGTTTGATTCCACTCACTGGGTCACACAGTGACTGAAGATGCCTGCTG
ATGGCATGGCCATTCATTGCTCAGTGAACTTCATAGTGACAGTGTTGCAAGGCTGGTTTATGGAGTGGCTTCTCCATCTGTATCACTTCTGCCT
TCACTTATGGTAGGACCGAGTAGTACTGAGTTGGAATCCCCAGGAGATAGGCTTATGGGAGCATCTCCCTGCGAACTCAGCATCCCCCACCTTC
GAGGTCTGCTGAATCTTAGACTGAAAATAGAATCTTAGAAAAGATGGGCTGCTGTGGCCTACCTCAAGCTTCAACTTCAAAACATTATTCCTCA

CCTAGAATTACCAAAGAATATGGTGACGTCCTAGGAAACTAATTCCTACATTCTGGGACAGCTTTCATCCAGGAGGAGGGCTTTCCGAAGCAAG
TGTAGGTTGAAATTTTTAAGGCAGATTTTACAAGTGCTCGAGACATCAGATGGCACACATCATCTCCTGGAACATAGTGGGTCCTTCTCCTTTT
TAGTTACTCACCTGGCTAGTTTCACGCCAACTTGACATAAGCTACAGGCATCTGAAAGGAGGGAACCTCAGTTGAGAAGGATGTAAGTCTTTAT
CTTAATTAGTGATCGATGGAGGATGCTGTAACGCCAATTGTGGGTGGTGTCATCCCTACATTGATGGTCCTGGGTTCTATAAGGAAGCAGGCTG
AGCAAGCCATGGAAAGCAAACCAGTAAGCAGCACTCTTCCATGGCGTCTGCATCAGCTCCTGCCTCCAGATTTCCTGTTCTAGTTCCTGTCCTA
ACTTCCTTCATTGATGGTCTTGTTACCTGGGAGTATAAGTGAAGCAAACCCTTTCCTCCCCAAGTTGTTTCACTGTAGCAATGGTAAGCCTAAC
TAAGACACTTATATTTATCACTTTCCAGGTCATCCACTTTCTCTTCTGTCCTTACAAAATGACCTCCACTTCTTAGGGCCTCTGTGCTTTCCAC
ACAGCATCTGGAATGTGTGGAAATGTCTTTGCTCTATGTCTCTCAGAGTCACTACATACTGGGAACCCCCTTGGCCGTATCGTTTGAATGATGA
AGGCCCTAAAGGTGATAGCTTAGTTCCTACAAGGTCCCAAAGGGCCACCCAACCCTTCCTTCCTTGTCCTTTTCTTCTCTCCCTCTACATTCCT
GTATGCCAGCCATGCCCACAGTACCACTAGCCTTTTCATGGCTCTCCCCCACCCCCACCCCCGAAGCTAGGTCTTGCTCAAGTCCCTAAGGCCT
CTAGTGCTTCTTGCCTTCCCCTCCTTTGTCTCCAATAGTTATTGACATCTCAACCATTCTTTTGCACATGGTCGTAATACCTCATAGTCTTTCA
GACTGTGTCATGTCTAAATGCAAGGACTTTGTTTTATATGACTGACTTCTCTAGTGCATGCACACAGCACCGTTCAGAATGTTGATTCTAAATG
ATTGACAGGAGACCGAACTAATCATATTCCAAAACTTAGCTGGCTCCCCCTTGCCTGAGGCTTATCCTAAAGCTGAATGCACCCTGTGGGACTC
CACAGATCCCCTCAGAAAGTGTCCATAAAGCTATCAACCTCACTCCAAGCTTATAACAAGGCTAGTTGACTTAAGCTGTTTTCAGGAAACAAAG
AAAAAAAATAGATCAAAAATGAAAAACATTCAACTTAAAGGAGCTGTGTCTCCTTGTCCTGTTCCCTGCCTCCCTCTCCAACCCCACCCCCATG
CTCTGTTTTGCTTTTCGTGCCAATGGCTGAAGACTATAATTTTAAAAACTGAGCTGACTTTTCCAGACCCATGAAGAATGTGCGTGTGCACATG
GATTTTTCCACAAGGACACTTCCTGTCTTTTGGGTTGTCTTAGCCAGTAATAGTGAAGCCAGGCAATCAGATGCATCTGTCCATTCGTCCATCC
ATCCATCCATCCATTCATCTCCCCAGCCCTTCCTTATTCTAATTTGTTTGCGAGGCTCAGGACAGGCCAAAGGGGATGGTTTGTGTTTCACCCT
GTCAGACAGTTGTTTGATGAGGTTTGTGTTCCATTTATTCAGATGGTTTTTATGGTTCCTTTGTTGTTAAGGGAAAGACTTTGAAAGTCATAAT
TCTGTATCCTTATCCCTTCTGGTAGGCCTGTGCCATGTCTCAATGGCTTTCTCACAATGAGAAAGGAAATGAGTGTTTCCAGGCCGTTACTTGA
GCAGTTTCTGAACATGGTTGTGGAAGAGAAAAGCTGAGTCAAAGTTCAGGGTCCATATAGTGCTGGCCTCTCCCATCTGAAAGATCTCTGTCGG
TTCATTCTCTGATCAGCCCAAGTCCTCACCACAATTCTGGCCTGACCTCTCTGTGGGTGGTTATAAGACCCTGCCCCTTTCTGCTACAGACATG
TCTGAGAGCCTTGGTCAGCCTACAATGTGGACACATGTCTGCATGTCATTCCATAGCACCAGGACTATGAGGTGCGAGGCTGGAGTTGGCCTTA
CAGGAATGTCATGGGCCTGGACCTTGAGACGTTCTTCCTAGAGACCTTCATCTAGACATCACCTCTTAGATTTTCATCCTTGCCCAACATCCTT
GCATCAGTGAAAAGAGTTTGTATTTTTCCCTTGATTTATAGTAGTTTATCTTTTTAGAAAATCTTGTAAAGTGGCTCACAAATATTCTCACTTG
ATCCTTAGCATAACCCCAGAAGGTAGATAATTCATATACAATTTTGCGTCTACAAAGACACGGGTCAGGGGAGACCTGTGGGCTTCCCACGTCT
CACAACAAATAACAGCAGGGATAGCGATTGAGCCAATCCTCCAACTTGAAGTTCAGGATTCTTCCTACTGCTTCAGCTCCCAGATTAGACAAAT
AAGATATTAGAGTAAATATTACTCAGGGAAGACGATACTTCAGGAATGTAGTGGTGCTTAACAAGTTATTGCTGAAGTAAATTTAACTTCTTCT
GGCCGCCAAGAGAGCATCTTCATAGAACGAACCTTCCTGCAAAACATACAGAGCTGATGTGTCCTCTTTTGTTCTTTCTCATAGACCCTTCTTA
TGACTCTGTCAGGAGAGGAGCATGGAACAATAATATGAACTCTGGCCTCAACAAAAGTAAGTAAATAGGAAACCATTTGGGGGTGAGTCAAATG
TTTCTGGAGAGCCAGAAGTTGGGGTGTGGGCGTAGGGTCATAAGACACACACTAAAAACAAGTGTTGGTCTTCATGCTGCCTGATTAGATGTCA
GTGTGAATTTGCAGTGCCTGCTCAGATTTTTGAGGTTTATTTTGTTTTTTTTTTTTTTTTTTTTTGCTATATTTATGTGTACTTGGTTTTAGAA
CTTATAAGGTTTGAGGTTTTCTCGGGACAACTTGATTTATAAAAGAAAAGTAACTCGTCTGGATTTTGATATTTCAGTCAGGACGTTGAATCTC
TGGGACATATATTCTCCACATGACAAGGCTCAGTCAGGTCAATACCCCTAGCCCTAGTTAGAGAGATTAACATGAAGGATAACCTAAGGGATGT
TGTGCATCACAGACATTAATTTGACCAACAGTGATCAGCCGATGATTTGTTGAAATCCACCCAGTATCTTCCATTAAGGGGCAGTGAAAGAGAG
CGATTCACTCTTCAACCAACGTGTCCATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTATGAGTGTGCAGTGTTTGTTCACTCTGCATG
CAGGACATGACGCTATGGGACTCACAAAGTATAAGCCAGGCAAGGACCAGTTATTTAGGCAGGAGAGAGAAATCATGGACACACATATGTCTTC
ATCTGGGTTGTATTAAAGAGTTCTTGCGCACCTGCTACCGTTAGAGCTACTCAGACAGGCCATGTCTAGGGAATGTCTAGGGAACAGAGACAG
GTAAACCTGGAGAGCTAGATGTCAGGGACGACCATGGTGGTATGTCTGACAGTGAGGAACCTAGGTTTATGGAGTTTAGGATGCAGAGTAGACC
AAAAGATAAGAAAGGGATAGTGAATGATAATATGGAAGTAGATTCCAGATCTTCAGTCCTAAGGAGTGCTGAAGAGTATGTGAGTCAGTTTGAA
GTATGAGAGGTCCAGTTACACCGAGCCACCCATCACACAAAAAGCAGCATACATTCAAAACTGGGGAAGCCAGAGGTCAAACATGAACAGCCTT
GGAGAGGCTCTCACGAAACACAGTGTGACAGGCACCAGGTGGTCTGTGCTCAAATGACACTTTCTCAGGAGAGACCTCTGTATTGCCATGTCTA
TTTGTGGGGGACACGTGTGTACATTTGGGGGCACAAGTATAGCCGTGTACCCATGCACATACATGGAGGCCAAAGAGAGACACTGGCTGTTCTG
TTTTATCACTCTGTGCCTGGTCCCTTTGAGACACTCTCTTACTAAACCCTGGAGTTCACCATTTCTCGGCTAGCCTGACTGTCCATCAAGCCTC
GGTAATCTTCTGATCTGTGCCAATCCCTCTCCGTTCCCAGGCACGTGTTAGAAGTGCACACAGACATGTCAAGTTTTTATACGGGGATGCTTGG
GATCTGGGCCCATGTCCTCGTGCAGCAAACAGTCTTACCATGGAGCCATCTCGAAGCTCAAGGTCCTACATTTCAAAAGAATGGTCTAACCCCA
TGTCAGCAGACATTGTTCAGTGTTTTCTCTTCTGTTAAAATATAACTTCATTGCTAACTCTTCTGCCCCGAGACCAGTGCCAGCGTAGCGGGTT
TGATAGGTATTCAGGAATAAAATGAGTCTGTGAGTCCATGGGAGAGTGTGGTCCCGGCAGCTCATGTGCCCTCCTTCTGGGAGATATGTAAAGG
GAGCATTTTCTGCCACTTTTCTTGATTTCTCCACAGGTCCTCTCCTTGGAGGATCACAGACCATGGGCAAGAACACTGAGCAGCGGCCCCAGCC
AGGTATGTGATTCAAATATGTAGCCTCTCACTTGTGTGTTATACAGTTGTGGAGTCAGTCAATGGTGGAGCAAGACAGTGTACAGTTGGCTGTC
CATATCTGTGGGTTTTAGGCCTGGGGATTTAACCAAACACAGGCCAATAATATTCAGGAAAGAATCTACATCTGCACTGACTGTGGACAGACTT
GCTTTCTTGTCATTATTCCATCAACAATACAGTACGGCTCTTTGCATAGCATATGTGTCATGATGGTAATCTATGATTTAAGGAATGTGGATGG
ATATGACTAGATTGTATGCAAATAACCCATTTTATGTAAAGGACTTGAGCAGCCACAGATTTCAGTATCCTTGACAGACCTTAGAACAAATCCC
CTGTGTATCCCAAGAGGCAACTCTAGTTCACACATTGTCTCTTCTTTCCAAGAGAGTATCTGGGAATTAAGCAGCAAGTCCTGGAACCAGGGAG
CGATCTGTTAAAAGGAACTTAAAACTGAAATGGTCCAATGCCTTATTTCGTGGAAGAAAACAGGGGTTCCGAAGGGTGAAAGGATTTGCTGAAA
GACAAGCAGAGCTGAACTTCTTTAAGTTCCAGAGCCCCCACTCCTTGTCCAAGCATTTTACATTTTACGAAACCATACAGAACTGCCTTCACCT
AGTAGATACGCAGTCAAGACATAAGACCTTTTGAAGCTATGGACCTGGAGACCCTTAATAAAGAAATGACTTAGAGACTGCAGTCTATAATCCC
TCGGTAGCATGGCCTCTTATGATGGGATGCCCTTGTTTCTGACCCTGACCCCGCCCCTGCTCCTCCTTGCTTGCTTCAACAAACAGGAAGTTGA
CAACCTACCTTGACTTAATCCTTTTCTGAGCCAGAGCCCTCTGTTCAGCTACCCCTCTGGCCACTTGTCTTCTGGGGAGAGGTCCCACAGGAAG
ACCCTACACAGATCTGAGGAGAGCCATTGCACTCAGCTCTGCTGTCTTAATTAAGAATCTGAATTAAGATCTGAACAAGCTATTTGCTTTGGGG
TGTGCAAACATGGTTCTTCATTTCCAGCCAAAATATAGAAAGAGAAATTGTAGTAAAAAGTGAAATTCAAGTGAAAACCAAGTCAGGTAGAGCA
AATTTTTAAACAAGTTCCAACAACAACAAAATTGAATATCTACTCAAACAATTTCAGTTTCATCAAAATTTAATAAAAAATGTGGACTGAA
AGGCTTCAAGAACTGTTAAATCAATTCTTTTTAATTCATTAATAATTACTATTATAATTGAAAAAAGCAGTGTGTTTTTAAAAAGGAGTGACTT
CATAGCTAAAATACAAATTCTGCTTAGTGTTGACATTTTCAAGCTTAAAATCACAGAGTTTTGGTAGAAGGGAAGAGAGCCCAGCAGCCCAACC
CACTCTTCATAGCTGAGAAAACAAATACCCAGAGGTTGTCCAAACCATGATTTAGTTCATGACATAGCTGGGACTAGAACCCAGGCTACCTAAT
GGTTTTTATAGTCCATCGGAAAACTCAGACATGCGTAATGTCTTCAGCATTAGAAAGATCTATTAATGGCTAGTAATTGCTGAGGAACCTGCTT
TAAGCATGTTTAATAAGCAATCCTTCAGTTCATTCACTGCCTGGTTGAATTTAGCCAGATGCTTTCCAAACGTGTGGGCGATTTTGTTTGGGGG
GTAGTGACAGCATAATCTAAAAGTTTAGAAACCAGGTATGAAGCAAGAGTGCTATTACTCGTCTACGTTGACTGGGCCATAACTTTGATCAAGG
CCTCTAATCAAGCTTTCCTATGGCCCTGAGATAAAAGTAGGAACCGTTGAAGTCTCCTTCATCTTGATGCTGCTCTCAGATTATTTGCTGAGGA
ATGAAGTAAGCTTTTTTTTTCTTTCTAGATCCTTATCAGATCCTGGGGCCAACCAGCAGCCGCCTAGCAAACCCTGGTGAGTTAACTTGAACCT
GCAAGCCTTTCCCTCCAGAGCATTCGTTATATCTGTAAGGTTACACAGAAACCTTACTCCTCGGTACGGTACAGGCACCTGTCTGGAGACTGCA
TGGGCTTCCTTAGTCAAATATTCAACTGTGCACAAACAAGAGGCAGGGCCTGTTCATGAGTAGCAGGGTCTGCTGCCACAAGACGTTTCTGGAG
AACAAGCACCTCTGGACAGAGGTTTATGTCCATGGCAAATGACTCAGATGGAAGCTCCCCGTTAGGGAAGCTATTCTCAGTTATTCCTCATCCA

SAGRES DISCOVERY 02-33

GGGCTCATGGATAAATGTCCCCAAGTGTTGTGGTTTTGACTTGAGTGCTATAGTTATCCAGCCTTTGAAAAAGGAAGTGCAAGCATCCCAAGAG
AGTTGCACACACAATGAACGTGACAAGATGTGAAGGATTCACTATTAAAAATAACTCTCGGATGTGTTCTTCTAAACCCAAACCATGGAGATGG
GGAGCTCAAGGCAACAAAAGCCAGGCCCACGTGCCTGCTGCACCTGCAGTGCTACAAGCTCGCTGGGCCTCCTCCCTAACCTTTAGCTAAACCA
TTCCTGCCCAGAAGATAAAAAGCCATCCAGCATCCAGCCCCTCCCGTTGCCTCTGCCCATGCGGAACTGAACACTAAGAGCCGTGCACTTTTCT
GGAAAACAGCCCAGCTTAGTGAACCCCAATTCTATGAGGTGCCTTCTCTCTGCTCTACCCCACAGCCACCCCCCAAGAGGTTCTTGGATACTTG
ACACTCTTTAAGGCCAATGTTGAATAGTTTGAGGGATTTCAGTACTAAATGGAGATTAGATAGTGACTCAGGTCTAGGTAGAAAGGTCTAAGGG
GAGGGTCAAAAATCTTAACAAAAGGATGTGGAAAGTTGGCTTCCCTGAGATCCTAAGAGCTTGGGACAAAGCCAGCATTCACCACAACCATCCT
TTGGGACAATCTGTCTTAAGATCTAACCTTGCTTACTACGCTCATTTTGGCTGCGGCAGTAGAGTAACAGTATATACTGTACCCTTTTTTTAAG
ATTTATTTATTTTATTTACGTGAGTACACTGTATCTGTCTTCAGACACACCAGAAGAGGGCATCAGATCCTATTATAGATGGTTGTGAGCCACC
ATGTGGTTGCTGGGAATTAAACTGAGGACTTCTGGAAGAGCAGTCAGTGCTCTTAACCGCTGAGCCTTCTCTCCAGCTCCGTAATGTACCTTTG
GAAACTAGCTGGATAAGCCGGTCTTTGATGATGAGCAAGCTTTTGAAGTGATGGGTGTGTGAATTGCCCCTCTGTGATTGTCAACCACTATGTA
TGTCTGTCAAAATATCACCACATGCCCTGTAAACGTGTACAATTATCATGTGCCTATTTCTGTTTTCTAAAGGAAAACATAAAGGGTTGTCTCC
ACTTTCCTTTTTTGTTTTGTTATTTGTTTGTTTGTTGTTGTTTGTTTGTTTGTTTGTTTGTTTTTCCAGATAGGGTTTCTGTGTAGC
AGAGCCCTGGCTGTCTTGAACTCCTAGACCAGGCTAACCCCCAACTCACAGAGATCCACTTGCCTCTGCCTCCCAAGTGCTAGGATCAAAGGTA
TGTGCCACCATGCCTAACCAATAAAGGTTGTGGTGGTGGTGGTTGTTCTTGTTGTGGGGAAAGGACATGAGTTGTCATGTTTAGGAATCAGAAC
TGAGACTACTGTTCTTCTGTTTCCTCCTGCATGCAGGGAGTGGGCAGATCCAGCTGTGGCAGTTTCTCCTGGAACTACTGTCCGACAGCGCCAA
CGCCAGCTGTATCACCTGGGAGGGGACCAACGGGGAGTTCAAAATGACGGACCCTGATGAGGTGGCCAGGCGCTGGGGAGAGCGGAAGAGCAAG
CCCAACATGAATTATGACAAGCTGAGCCGGGCCCTCCGATACTACTATGACAAAAACATTATGACCAAAGTGCATGGCAAAAGGTATGCCTACA
AGTTTGACTTCCATGGCATTGCCCAGGCCCTGCAGCCACATCCAACAGAGACATCCATGTACAAGTATCCCTCTGATATCTCCTACATGCCTTC
CTACCATGCCCATCAACAGAAGGTGAACTTTGTCCCGTCTCACCCATCCTCCATGCCTGTCACCTCCTCCAGCTTCTTTGGAGCAGCATCACAA
TACTGGACCTCCCCCACTGCTGGGATCTATCCAAACCCCAGTGTCCCCCGCCATCCTAACACCCACGTGCCTTCACACTTAGGCAGCTACTACT
AGAACTAACACCAGTTGGCCTTCTGGCTGAAGTTCCAGCTCTCACTTTACTGGATACTCTGGACTTAAAAAGGCACAGTAGCCTTGAAGAGATA
AGAAAACTGGATGTTCTTTCTTTTGGATAGAACCTTTGTATTTGTTCTTCTAAAAAAATTATTATTTTTATGTTAAAACTTTTGTTTCCTCTA
CCTGAAAAAAAAAGATCATTCCATGAGCCAGTCCACCAGTTTGGATTCTCAACCTCCTATCATCGAATGAGTTAAATATTTAGGTTACTGGAAC
GGTTTATACCATGATTCTGAGAAAGGAGTACGCATTTTCTTTACTCTTTTTTTTTTATGACCAAAGCAGTTTCTTATCAGCACACGGGTCTCAT
CATTGTAGGATTCCCTACGATCATGAATCATGGACTTGACCAGGGTTGGTCTGGTTTGAGACTTAGTAAAAGTCAAGGCAGGATGTTTATAATC
TTATCTTAGGAGGACTCAATTCAGTGGATGGCAACTGGAACACTGGCTCTGAGGCCAGTGAAGTTTTTTGCCCAACTGGAATTTAAAAGATGTG
TGTCTATGTGTGTATTTAAGAAGCCATTATTATTACAAAATTCCTCACAATGGGCAGTATGTGTTTGGGTCACTCTTCTCCTCAGAAATAGTCA
GAATATGAACAAAGAAAGTTTAACACAAACTCAGACACTCCTGACGGGCAGAGGATTAAATAACATTTTTTTGGAGGGTTTAATAACATTTTTG
GAGGGGTTTTTTTGTTTGTTTTTGTTTTTGGGGGTTTTTTTTTGTTTGTTTTTTGTTTTTTGGTTTTTGGTTTTTTTTTTGTTTTTTTTTTTTTT
TGGTTTTGATTTTTAATGACAGTGAGTCCCAGAACTTTGAAAAGTCATGGGGATTTCTAAACTCAGATTCGCAAACGCTGTGCGTTTGTCAGAC
CACCAGACCAAGGTCAAACAATCAGAAGGCAACTAACTGTATAAATTATGCAGAGTTATTTTCCTATATCTCACAGTATTAAAAAAATAAATAA
TTAAAAATTAAAGAATAAGTAAACGAGTTGACCTCGGTCACAAATGCAGTTTTACTATCAAATCAATCATTGTTATTTTTTTAAAATATAATTT
GTACATCTTTGTCAATCTGTACATTTGGGCTATTTGTACGTTTTTGTAACTGTTTTTTTTTAATAAGCATAATGTGACTATTGAAAACGAGGAG
TTAAAAGTCACTGAGTTTTTAGGAAGAAAAACCTAAAAATACAGTTATTTAACACGCATGCCCAAACAAGATCTGTTTAGACCTACAACGCTTT
AGAAATGTTTGTAAATAACAGAGTTGCAATAACCTGAAAAGGACAAACAAACTTTTCTCTGTGCACACGAGGCACTCTCCTGCTCTATATATGC
AATATATTTTTAGATGTGCAAATATATATATAATTTTTCAGGTAATCGTGACTTTTTAAACGATATTGTTAAGGTGACAACTCTTAGTCCACTG
AAGACTAAGTTGTAAAATAATTTGACCTTAATAAATTGTGCCTTCTTCTTTTTCTTCTCTCAGAACTGGTGACATTGTTTTCTTATTTACT
TCCAGATCAAAGGCTTTCCCGGAGGGAAGTTGTTTTTATTGCTGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
ATGTAAGAACACACAGCACACATTTAAAGGTCAGAAGGCAGTTTTTATCAAATAAATCAGTTCTCTCCTTCCATGTTAGTTTTTGAGGCAGAAT
CTCTTGGTATGTCTCCCACCCTGTGGACTCCAGACACACAAGCTTCCAAAAAGCTCTCCCGCTTCCACCTCCCCTCTTACCACAGAGCAGTGGG
ATTGTCGGTGAATACCTCCACGTATGGCTTCTTTCATGAGTTCCAGGGATCAGAGTCAGTCATCAGGCTTACAACGTCTCACGTTTATCCACTG
AGCCCATCTCATTGGCCCCGAGGAAAAAAATAACTTGCCTACTTATTCTTGTACCATCGATAATCTCCTAACTGCATGTGCTGCAGTACAGTGG
AAGACACAGTATTCTGTGAGTTTCAGATGCTTGTTAACAATGACGATTTTAAAGCTTCTCTAAGCCATTAAGATACTGTATGACCTTTGTAAGT
GAGAGACAGACCTAGGTAAANNNNNNNNNNNNNNNNNNNNTGAGAGACAGACCTAGGTAAACTATATCCAGGGAACTACAGCAGCAACCGTCTC
CAGGACCTGGCCAGGTAGACTTGACTCTGTTCCCCACAAGAAGGCGACCTGATGCTTCAGCAGAGAACAGGAGTCTAGCCTGACTTCAACCCCA
CACTAGGGTCTTACGTAGACTCTCTGGCTCTATTTTTCAGCCCAATAGAGAAGCTTGCTTCCAACGGCTTCAGCGTTAAGCATCATGCTCCTCT
CCTTTACAACAAAGATGACTAAAACTAGAAATAGCTGGTGTTGTTGCAGGGACTCTCATAGAACTAGTAGCTCTAGAAACCCCTTAAAGAAGTT
TGCAGCCTCTGGTCCTCACACAGAGTAATTTCTAGACCAGGTAAGCCTACGTGAAGAAGATGAGAGGAGTTCTGAACACTGGTCTCCAACTTCT
AAAACATGCACCCTACATTATAAAATACATTAAGAACATATCCTTTATGTTTATGTATATGCTGGTTTGTATCTTGCATTGACAAAATATATAC
CATTATACATTTGTAGATCCCTCCAATCATGACTGAAAATATTCAGAAAGTGTTTTAAATTATTGGGTAAAGAGAGCTATTGAGGTTAAGAGCA
ATTGCTGCCCTTACAGAGAACCCAGGTTGGGTTCCCAGAATTTACATGGGGTGACTCACAACTGCCTATAATTTTAGCTTCCAAGGATCTGTTG
CCCTCTTCTGGCCTCCTCAGATATCTCTACACTCACAGCATATGGTTACACAAACACACACCCTATACACATAAATGAATAGTTGCATCTTTC
CTGAATATATACTGACTCTTTATTGGCATTTTAATCAAATCATGAGTGATAACAACTAATTACAGTGTTTACCTTGCACTTGATATGATACATT
ATGTAGATGTGATTTAAAAGATAGGAGAAGAATATGTAAACAGTGTGCCATTTTAAATAAGTGATTTTGGCATCTATGGATTTTGGTGTCTTTA
GGGTAGTCCTGGAACCCATGCTTATCCAGAGGAAATAAGATTAAATATTTGTTATAAACAAAAAGATGAGATTTTAGAAGGTGATATGAAAAT
GTTTAAGCTGACATTCTGTTTTCTTCCCTTATTTATATTGCTTCATCCCTGGTTCCAACATTCAAAACGGAAACAGTGAACATTACTGAGACGA
ACACATATATTTACATTCATACATTTGCTTTCTAGCAAAGAATAACTACTTGGCATTAATGGCTCATGCATAGAAAGACATGAGGCAAGTCAGT
TATGTTCATAAGTAGTCAACTTTCAAGTCTCATAGTCAACTTGAAAGGTCTCATGTCAGTTTGCAAATCTACAAAGTCCTATTAAGGGGGAAAT
TGAGAGGCACATATCCCTGATGCACTGCTAAAAGAACAGGATGCTCACACCATTAGTTCACCTTTAAAAACGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTGTATTTGTGCATGTGTGCCTGTGTGCCACCTGGGTGCTGGTAACTGGAGTTGCCAGATGAGGATGCCTACATCCTAACCCTGA
AACTGGAGTTACAGGCAGTTATGAGCTGACTGCCATGTGAGCTGCCCAACATGGATGCTGAAACACATGCCTATGTCTTCTGTGAGGGCAAACA
GTTTCAACTCCTGAGTCATTTCTCAGCCACTGGTTAGCCCTCTAGACAGTTTTGTTTCCTACACAAAGCTGCAATGCTTTCTCACAATCCTGTA
CCCAGAGTGTCATGGTGGTTCATTCCATGATCCAAAAGCTGGTCTACCCTGACAGGAGCAGAGCAATTTCGTCCATCAAGCCTTCGCTCAGGGA
GGAATGACATTTAGTGCCCAGATTGAATGGTCTCAGCTGACAAACAGGCATTTATGTCATCCTGACTGTGAGTCCCCTCTACCACTCTGCACTT
GTGCCATGAAGGCCATTACATCTGATAAACTGTGGCAGCAAAGCAGAGAGGGCACAGCAACCCTGTGAGGGACTCTAATGGAAACCGATCCTCT
CCATGTCCCCACCTCAGCTCCGGACCTGTCCACAGCACTTCAGAGCAGGTGGCTGTCTTAGTCCATTTGAGAAGTCATGGCAGACTGCTGTAGG
CTCGCTGGCTTATAAACAACAGAAACTCAGTGTTCACAGTTCTGGAGGCCAGAATTCCAGTGCCAAAGCACCAGCAGATTTGTCATTGATGGGG
GACTCACTGTTTATTCCTGATTCACAGGAGGTCCCTTCGCACTGTCCTCTCACAGAGTCCCAGGCAGCAAGCAGCTTTCTGACATAGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGTGTGTATCTACGTTTATTCATGAGAGCTCCTCTTTATAGGTCCACCTCCAAATAGCCACACATTGGG
GATTAAGCTTTAATATATGAATTTTACAGGGGAATGGAGGAATATTCAATCTACAGCAGAAATTTTAACTTCCTGGTGTCAAAATATTGTTGCT
ACCCAAAGAAAGTTGTATTTTCAATATCTGTTGCTTTGAAAATTTTTTAGAAGTCAAAAAACACTAGTCATTTAAGAACAATTAAAGTGACCAA
TAATACCTGCATGCAGTTGGGGAATGAGAATAACACATGAGTTCTGTCCATGGCAAATGAATGAGATGTGGTTTCATAAACAGAATATTTGCAC

TCGAAACCAAGTGGGAGAAAAGTATCCAGAATACCAAGGAAGAAAACAATATCCATTAATCCCAAGCAAGACACAGCCAGAGCAAGATATTATT
TGTGGATATTTTAAAAACCACTGCAAATCAAAGATTATTTTTAAAAATTGCATCTATATTCAATGTATATTAATATTTGATTACCCCTAAATAT
TATTTCACTATTATATATAATAATATTTATAAATATATAAGGCATTATATATACAATATTCTCTTATTCCATAAATAATACAGTGCAACAATTA
TTTCCACTGTTCTACTGCATTAAGCAATAGAAGTAATTTAGAGTGATTTAAATATATAATGCATAAAATATATAGATGCACTATGCCATTGTAT
ATAAGGGACTTGAACAACCAGGGGTTTGGGTATCTCTGTGACTTTCTGAAACCAATACCCTTCAAATTTCAAGGTACAAATAATTAAAGTTTTT
TTTAAGATTTACTTCTCTTACTTTATCTTATGTACATGGGTGTTTTACCTGCGTATACACATGTGTGCCACGTTGAGTTCCCTGTACTTAAGGA
GGTCAGAAGAGAAGGGTTAGATCCCTGTTCCTGGAGCTACTGGTTGTGAGTCACCGTGTGTGTGTATTGAGAACTGAACCCTGACCCTGTGCAA
GAAGTGCCCTCAACAGGTGAGCCACCATCTCTCCAGCCTGCTTTCTATGAGAAAGTTTGGACTCTGAGGACTTGCTGTCACACCGCACTTTCCC
TTGTCTTTCTTTATTAATAACCATAATGCAAACATGTTGCTTTGAAAAACAGCTGGGAAAGCACACTTTGGAAGAATGTGCCTGGGGACATGGT
CTGTGAGCATGGCGTCTGCTGCCAGCCAGCATCCTGTACCTTGCTGTGGTCTGACTCTTCACAGGGGTTCCTTTATGTCATCGGGAGTGGGGGC
TTGCTTCTAGAACTCAGGAGGTAGCAAAGAGGTGGAGTGTCTGCGGAGACCAGGAGCGAGGCTGTAGACTAGACAGGGGCAGGGGTGGAGTTCT
GGTGAGCACAAAGGCTTCACTTTTATCCAAGAAGACTTTGTGATTTCTGAAAACATGCACCGAGCATTTATTTCATCACTAGAAGGCTACTGAA
ACGGATACTGCACGCCTTTAGCCATAGACCCTCTAGAGGATTAGAAGAGGTCAGCTGATTAGAATACTACAAATCCCAGGTTCCCTGGGAGGAT
GGCCACTTCTGAGAGGAAGTGGTTCAGCCAGGCAAACCCCCAGGGCTGCAGCCAATTGAGAAAGAAAATGAAGGGAAGTTTTTGAAAGAAATGC
CGGGCTCATGTCTGGGGTCTGTCTCCCTCTCTCACTCCTACTTGGCCTCCTGTCTAATTGTTACAGCCTGTCTGAGCTGGCAAATTCCAAAGCA
CATAGTCAATTTACACGTAGCTTAAAAGCTCTAGAGGAAAACACATTTGCAGTGAGAACATTCACTTGCCTACAATTGCTAGGTTAACCTTCTG
GGCTTTCACCCAGTTAACTCGTGTGTTTTTCTTAGTTGGGAGAGAGAGAGAACTTGGGGAGATTAAATGAGTGTGAATATAATCCCAGGGACCCT
GCGTTCAAATTTTGACCCTTTCACGTAGTAGGCAAATTATCAATACCTACTGACTAGGGTATCATCTCCTGCCAGTGATCCTGTCTATACACAC
ACATCAAAGAAACGACCTGGAAGTCCATTGCAAAATGCTGCACAGGATGTGTGTGTATAGACAGTGTCACCTGCTAGATTTCTCAGGGGACAAT
ATTAAAACTGTAATAGCTAGGAGCCGCTCTGTCCAGGCACTTAATGAAGATTTTTTTTTTATTTGTGGTCAAGAAGGTGTTTTTTTTTTGTTT
TGTTTTGTGTTTTGTTTTTTTTGTTTTTTGTTGTTTTTGTTTTTCAAATGAGTGAAAAGTAGGAGTAGATTGAGTTTTCCAGAGGGTATTTATAT
GTCTGCCATCGCCAGCCTCACTTTGCCGTGTGGGTGCTTGTCCTTCACTGGCTCTGTATGGTCACCTCAAGTCAGTAGAGCATGCAAGAAGCTT
TAGGGCTGCAAATAAAAGAGAATGGCCTAACGTGAGGCTGAAAGGGAACTTTGTCAGAAGTATTGGCTAGATTGTTAAATTGGCTAAGAAATAG
AAGTTGGCAGCTGCAATTCCCTGCCTTGATAAGCTTGTGCCCAACATTCTCACAGACCTACATTTCCTCCGAGGCTTCACGGGAGGTGGGCATA
CCGCTCTCTTGTTTGCCACTGTGGTGACACTGGTTCGCAGCAACTGGTCACTTGTAAATGTGGAGTGAAGCAGAAGAAAGCGTCCACAGTCAGC
AAGACTGAGTTGTGAATCCAGCTGTCCCTCCCTGAGTTATGAATTCTTGTCTCTGAGGTTCACTTCCTCATGGGTAAAGCTAGGACTGTTGTAG
TATCATCCAGGGATATCAAAGAAGTAACGTAAGATCAGGTAATGAAGTGCTTGCTATCTGTTTTAAAAAAAAATACGGAACTTCAAAATATTAT
ATGGATGTCTTAGTCGATTGAATACTTCCTTTTTACATGGCTCTGGTCCCCCTGATATAATACAGAGTTAAATTAGGAGCTGAGAAGATGGCTCA
ATGGATAAAGTGCTTGTTGCTCAAACATTAGAACCCGCATCCTAACCCCAAGCTCACACTTAGGAAGCCTAGCTTGATATCTGCATGAGTAACT
GAGCTGAGTCAGGCAGGTCCCTGAAGTTCTCTGGCCAATCAGGGTGCTCCAAGCTCAGTGTAGAGATCTGGCCTCAAAAAAAAAAAAAAAAAAA
AAAACTATACTGTAAGAGAGGAAGAGAGGAAAACATGACATCAACAGGGAGAGAGAGAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGA
GAGAGAGAGAGAGAGAAATGCGCTACTTTATTGTACATAACTATTTTTAGATTTCAATCACTTGGGACAGGAGAGAGATGCTTGGTAGGTAAGA
GACTTGTCAGGGTAAGAGGACCTGAGTTGAAATCTTAGTTCCATACACATCTTTAATCAACATTGTGTGGTAGGAAGTAGAGGGAGACAAGAGT
TTGTATCCCTGTGCCTTGCCAGTTGTGAGTCTAGTTCCAAGTTCAATAAAAGACCTTGTCTCAATGGAGTACGATGAAGGGCAATAGAACAGAA
CACCTGAAACCATTCTCTAGCCCTGAGGATGTGTGCACTAGCCTGCTTCTGCACATACAAGGTTGCATACACCACATTCACTCCGATGCATACA
CAGTCACACACACAAAGACAAAAATTATAAAGCCTTGAGATCATCACAAACTTACAAAACAGCTGGAAAAATATAAGTGAGCGTCTTTTCTTGG
GCTGTTTGAGAGGAGACTCCTGACAAATGCTCCATTAACTCTGGATACCTGAGTGTATATTTCTGTCAAACATCGGTCTTCTCCTAAGGAGTCC
ACCACAAGTCAGAGAACCAGAAAATTAACCTGCATAGGTTACTTCCCTGACACTCTCTGGCACCAATCACTTTTCTTTCTGCATGGATATTTTT
TTCCAACTCTGGGAACTTAACCAACCCTGTCATATACTGCTCTACTCTTTATTTTAAGGCAAGACTTCACTAAATTGCCCAGCCTCTCCTTAAA
CTCCCTTTGTAGCCAAAGTAATCCTTATGATCCTCCTGCCTCAGTTTCCATAGTAATGCAAATTAGCAGCTTTGTGCCACCAAGCCAGCCCATT
ATCATGTGTTGTAGGAGAAGAAAGCACCACCCAGAATCATTTGGAATGCCCAGACTTCCCCTGACTTTCAGAATCTTGGGAATTTTAGAACCCC
TTGGGCTGGCCACATTGTAGAATAACTCCCAGGGTTAGGTGCTCGGGTGTGTGTTCATGGTTAGGGCTGCCTTCCCTGTGAGCAGCAATCATAG
AAGTCCTCCCAGGTTCCTCCCCTGGCAGCCTATGTGGAGGTACATGCCCTCAATGTATCTCGATATGAGGGGGTTCACTTAGATGGATGGTTGT
GGAAGAGATGATGTTTTTCAGGTTCTTCTAAAAATTTACATTTTTCCTTTTGTAATTAGCATTTTGTGCAGTGTTCCTCATGGAATTATGGAAA
TATCCCCCACTATTAAATTCTAGTGCATGTGTGTGTGTGTAAGTATAATAAGTGTTCCTAAAGGTACATCTCTAATTAGTCCTGCTTTCCAA
TTTTATTGAGAGACTTGAATTTGTTCTTCTCATTAGTTTGATGATGATTTTGGCCCAATAGGAAACCATTTAAGTGGGTTTCAACTTTAGCTTA
CGCATGCTAACTTCCTTACTTGTTCCTTCAAAAACACATTTAGGGCTCCAGTCCCTAATTCAGGGATTCCTGCATCATTTTAGTGAGAAATGAT
TTTTCAAAGCCAATATCTGTGTGCTAGGTGTGCCCATTGTTAGTGGTCTTATCTCTAAGATTTCCCAGAGGATAGCACTAAGCATTATATGCAT
ACATAATAATATGCATATACTATGTGTTTATATACATTTCCATATGTTCATGTATACACATTCATAAGCTAATATGTACTCACTCCATATTCAT
CTCAATCTATATTGAAAATCCTGAGTTCATTCAGATGTGTCCATTTCCAACCAGGGAGCGCAGGATTCCTCTACTTCTTCCTTTCCATATTGTA
ATGAAAACCATGTTTTTTGTTTAGACATACAGAGTATCCTTCCTTACCAGGCCCTGCCAAAAACCAGTTTTTCCTCTCTGGACTGTCCGCACCC
ACACGTGACAGGCTCCTTCCCTTGCTTAGGCCAACCCCATGGCCCTTCCCTTCACACAGTGTATGCCCTCTTCAGTTGTTCAAACATAACACCA
CATGCCATCTTCCCTCTCCACAAGGACACAGTCTCCAGCCTGTGGCTGTACTCTGACTCCCATACACAACACACTACCACAGCTTGCCTTGCCC
TGCTGAGCACTACTGCTCACATCGGGCCAACCCAGTGCCACTGCACCTACAGCTTCAGGAGGTGAAGAGATTGTCGAGGCGGGATAGATGTATT
AACCTGTGGCTTTTATCTGACTCTGTCTACACGTACACATATGCACCCATGCATGTGGGTACTTTCTGAGCTAGAAAATATTAGAAATGGGGAG
AACAATAATTATAAATTGGCACCCTTCTAATGATCTTATGTTCCATTATGATATTTTTTTTCTAAATGAC

MOUSE SEQUENCE - mRNA

AAAGTGAAGTCACTTCCCAAAATTAGCTGAAAAAAAGTTTCATCCGGTTAACTGTCTCTTTTTCGATCCGCTACAACAACAAACGTGCACAGGG
GAGCGAGGGCAGGGCGCTCGCAGGGGGCACTCAGAGAGGGCCCAGGGCGCCAAAGAGGCCGCGCCGGGCTAATCTGAAGGGGCTACGAGGTCAG
GCTGTAACCGGGTCAATGTGTGGAATATTGGGGGGCTCGGCTGCAGACTTGGCCAAATGGACGGGACTATTAAGGAGGCTCTGTCTGTGGTGAG
TGACGATCAGTCCCTTTTTGATTCAGCATACGGAGCGGCAGCCCATCTCCCCAAGGCAGATATGACTGCTTCGGGGAGTCCTGACTACGGGCAG
CCCCACAAAATCAACCCCCTGCCACCGCAGCAGGAGTGGATCAACCAGCCAGTGAGAGTCAATGTCAAGCGGGAGTATGACCACATGAATGGAT
CCAGGGAGTCTCCGGTGGACTGCAGTGTCAGCAAATGTAACAAGCTGGTGGGCGGAGGCGAAGCCAACCCCATGAACTATAATAGCTACATGGA
TGAGAAGAACGGCCCCCCTCCTCCCAACATGACCACCAACGAACGGAGAGTCATTGTGCCTGCAGACCCCACACTGTGGACACAGGAGCACGTT
CGACAGTGGCTGGAGTGGGCTATAAAGGAATACGGATTGATGGAGATTGACACTTCCTTCTTCCAGAACATGGATGGCAAGGAATTGTGTAAAA
TGAACAAGGAGGACTTCCTCCGAGCCACCTCCGCCTACAACACAGAAGTGCTGTTGTCGCACCTCAGTTACCTCAGGGAAAGTTCACTGCTGGC
CTATAACACAACCTCCCATACAGACCAGTCCTCACGACTGAATGTCAAGGAAGACCCTTCTTATGACTCTGTCAGGAGAGGAGCATGGAACAAT
AATATGAACTCTGGCCTCAACAAAAGTCCTCTTGGAGGATCACAGACCATGGGCAAGAACACTGAGCAGCGGCCCCAGCCAGATCCTTATC
AGATCCTGGGGCCAACCAGCAGCCGCCTAGCAAACCCTGGGAGTGGGCAGATCCAGCTGTGGCAGTTTCTCCTGGAACTACTGTCCGACAGCGC
CAACGCCAGCTGTATCACCTGGGAGGGGACCAACGGGGAGTTCAAAATGACGGACCCTGATGAGGTGGCCAGGCGCTGGGGAGAGCGGAAGAGC
AAGCCCAACATGAATTATGACAAGCTGAGCCGGGCCCTCCGATACTACTATGACAAAAACATTATGACCAAAGTGCATGGCAAAAGGTATGCCT
ACAAGTTTGACTTCCATGGCATTGCCCAGGCCCTGCAGCCACATCCAACAGAGACATCCATGTACAAGTATCCCTCTGATATCTCCTACATGCC

TTCCTACCATGCCCATCAACAGAAGGTGAACTTTGTCCCGTCTCACCCATCCTCCATGCCTGTCACCTCCTCCAGCTTCTTTGGAGCAGCATCA
CAATACTGGACCTCCCCCACTGCTGGGATCTATCCAAACCCCAGTGTCCCCCGCCATCCTAACACCCACGTGCCTTCACACTTAGGCAGCTACT
ACTAGAACTAACACCAGTTGGCCTTCTGGCTGAAGTTCCAGCTCTCACTTTACTGGATACTCTGGACTCTAAAAGGCACAGTAGCCTTGAAGAG
ATAAGAAAACTGGATGTTCTTTCTTTTGGATAGAACC

MOUSE SEQUENCE - CODING
ATGGACGGGACTATTAAGGAGGCTCTGTCTGTGGTGAGTGACGATCAGTCCCTTTTTGATTCAGCATACGGAGCGGCAGCCCATCTCCCCAAGG
CAGATATGACTGCTTCGGGGAGTCCTGACTACGGGCAGCCCCACAAAATCAACCCCCTGCCACCGCAGCAGGAGTGGATCAACCAGCCAGTGAG
AGTCAATGTCAAGCGGGAGTATGACCACATGAATGGATCCAGGGAGTCTCCGGTGGACTGCAGTGTCAGCAAATGTAACAAGCTGGTGGGCGGA
GGCGAAGCCAACCCCATGAACTATAATAGCTACATGGATGAGAAGAACGGCCCCCCTCCTCCCAACATGACCACCAACGAACGGAGAGTCATTG
TGCCTGCAGACCCCACACTGTGGACACAGGAGCACGTTCGACAGTGGCTGGAGTGGGCTATAAAGGAATACGGATTGATGGAGATTGACACTTC
CTTCTTCCAGAACATGGATGGCAAGGAATTGTGTAAAATGAACAAGGAGGACTTCCTCCGAGCCACCTCCGCCTACAACACAGAAGTGCTGTTG
TCGCACCTCAGTTACCTCAGGGAAAGTTCACTGCTGGCCTATAACACAACCTCCCATACAGACCAGTCCTCACGACTGAATGTCAAGGAAGACC
CTTCTTATGACTCTGTCAGGAGAGGAGCATGGAACAATAATATGAACTCTGGCCTCAACAAAAGTCCTCTCCTTGGAGGATCACAGACCATGGG
CAAGAACACTGAGCAGCGGCCCCAGCCAGATCCTTATCAGATCCTGGGGCCAACCAGCAGCCGCCTAGCAAACCCTGGGAGTGGGCAGATCCAG
CTGTGGCAGTTTCTCCTGGAACTACTGTCCGACAGCGCCAACGCCAGCTGTATCACCTGGGAGGGGACCAACGGGGAGTTCAAAATGACGGACC
CTGATGAGGTGGCCAGGCGCTGGGGAGAGCGGAAGAGCAAGCCCAACATGAATTATGACAAGCTGAGCCGGGCCCTCCGATACTACTATGACAA
AAACATTATGACCAAAGTGCATGGCAAAAGGTATGCCTACAAGTTTGACTTCCATGGCATTGCCCAGGCCCTGCAGCCACATCCAACAGAGACA
TCCATGTACAAGTATCCCTCTGATATCTCCTACATGCCTTCCTACCATGCCCATCAACAGAAGGTGAACTTTGTCCCGTCTCACCCATCCTCCA
TGCCTGTCACCTCCTCCAGCTTCTTTGGAGCAGCATCACAATACTGGACCTCCCCCACTGCTGGGATCTATCCAAACCCCAGTGTCCCCCGCCA
TCCTAACACCCACGTGCCTTCACACTTAGGCAGCTACTACTAG

HUMAN SEQUENCE - GENOMIC
TACAGGGTACAGTCCTGGGAGGACGCAGAGATCCTCTTCTCTGTGCTCACTTAGGCTATACCCTTCATTTGTAAAACACCATTAAATAAAGTAC
TTTCGTCTGCAAATAATTGCAATTGCATCTTCTAGGAATTCTTTCTCTGGGTCATCCACTGCTGAGCCCCCTCCCCAGGAAGTGGAATTGTAAG
TGAAAGGGGAAAGGCACTTGGGAGGGGGAATGATGTTCAACAAGACTCCTTGAAAAGTCAGCCGGGGTCCAGGCACGGTGGCTCACACCTGTAA
TCCCAGCACTTTGGGAGGCCGAGGCAGGTGGGTCACCTGAGGTCAGGAGTTTGAGACCAGCCTGACCAACATGGTGAAACCCTGTCTCTACTAA
TTAGATGGGCGTGGTGGTGGGCGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTACTTGACCCTGGGAGGCAGAGGTTGCGGTA
AGCTGAGATCGCGCCTCTGCACTCCAGCCTGGGCGACAAGAGTGAAACTCTGTCTCAAAAAAAAAAAGAAAGAAAGAAAAGAAAAGTCAGCCGG
ACACTCTGAAGCTCTGTGGCAGATTTGGCTGTGTGCTACGGCCTAAAATTGGAGACGGCAAAGTGGAAACGGTTTAGGGGAGGAGTAGAAGCTT
TGCAGTCAGGCCAGCAGCATGGAGACTCATGAGGTGAGGGGCCAGAGGCAAGTAGCAAACCTCTTTAAGCCTCAATTTTCTTTTTCAATAATATG
AGGATCCTAACTCATATTTTAAAAGGTTAAATGAGGTGATGATAGTAAAAGTTCCTTGGAAACTTCAAGTCATCAAATAATACATGTTCTATTT
GATCGTTCTCATTTAAAAATGTGGTCCTTGTTTGGTTTTTGTCTGTTGTTTATTTTGTTTTTGTCGTTTGGAGATAATTCCACTATGTGTCTAT
CAGAGGACTTAGACTTTAATTCTGAGATCGATTCCCCCCTCACTGTGTGAACCTAGAAGGGTTATGCTTTGTGCCTCAGTTTCCCCACCTGGAC
AGTCATGGTGCTGATTCCTGCCAGCCAGTGTCAATAACCACAGTGAAAGGATACTCAGACAGTCACCTCTACAGCCTTTGAATATGGGTTTTCG
GTTGCTGAGTAAAATGCTCGGAGACGTTCCGGTTACTATGGCTACATAAGAAATTACCCCGAAACCTAGTGGCATAAACCAATTATTAGGCTCA
TGAGTTTTGTTATCCTTCACTGAAGGCTCGTTCACTCTCAAGTCTGGAGGTTGACGCTGTGGTTGGCTGTGGCCTCGGTTCCTCTCCTGCGGGC
CTCTCCATACGGTTGCTCAGCTTGGGCTAATCTGAGCTTCCTCACAGCATGGTGGCGATTTCCACGGACTAGAGGCCCAAGAGAGAACAAGAAG
CAGGTGGAAGTCATAATACCTTTATCACTTTGTCCCGGAAGTCACGCAAGGCCATTTCTTGAGGCAATCATAAAGTTCCATCTGAGTTCAAGGG
GGAAGAAAATAAGCTCTGCCTTTTGATGGGAAGAGAGAGGCAAAGATAAGAAATATTCTGATGGTCATTTTGAGAAAATGCGACTGTGCCTCAT
GCAAAGGAGTTTTCAGTTAATGCTTGATGACTGACTAATGTTTCCCACCTTCTTCCTTATCCAACTTTCCATAAAATTTACCTCCTCTTCCCTT
TTCCCTCCCTGCCCTTTACGCAGTGGAAATGAGGAGCAAGAAATGCGCACATGTAGAGAGGAGAGAGAAGCAAAAGGCTTAGCCTTGCTAACAG
CGGCCACCTGCTCTTGGCACTTCAGATGAGACTTGGAGTGACCCCAACCCAGGCTGATCACCCCCACTGCTGCAGAGCCTGCTGGTTTCCCAAA
GCAGAGAACACAGAGGGCTTTGCACCTAAGTATCTTGTTCGCATTTCATATTCTCTCCGACTGGCAAGAGAAGGGACTTCGTGTCATTATGCAA
ATAATGTAATAAAAAGCCAAAACTAGCGTGCTCCCTGTGGTGACCCTGGGTAATGGATATGCCAGAGATTAGCCTTCCAGAGCCCTGTACTGGG
AGCGGCGGAGTGGGCCCACTGAGCAGGGCAGCCACAGGGAACTTGGTCTGGTTGCTTTTGACATTCCTTTCACCAGACACCTCCAGCCAAGCTG
GTCAGCCCCAGACAACTGTCCTTAGGAGATTCAGGGCAGAACAGAGGGAAAGGAATGGGAAGGACACAATGGGACATTGGTGCTTCTCAGGCCC
CATGTCTTGGGTCATTCTGTGTTAGAAATAAAGCTCAGCCTACGTATAAGGAAGAACAGAGGGAAAGGGTCTCCCACTCATGTCCACTTCTGGC
ATTTTTCCTCCTCTAACTCCACTGGACTCATAACTGTGAAATATTTGTTCCTTCCCACACACAGGATAATGGCAGAAATTTCTGTTATGTCTTC
CCGAGTGAAATGGGGAGATACTCAAACCACCCTCTTCTTCTTTCCTTGCCCCTCTGGAGGCTTTTCCATCTCGGCCTTAGCTAGACTGTTTGAA
GATGCAATGGTTTGCTCATCGTTCATATCGGCCAGGCCACTGTGCGGCCATGCTCTGATCACATCCCATCACTCAACTCATGTGCACATGAAAA
GTAACATTTGACTTAATCTAAGGAAAACAAATGTTGGAAGACACATTTGTAAGTATAACAAGAAAAGATGCATATAGGCACACATATGTGACAA
ATTCCAAAATAAGTGAAATTTTTAAATTCGTGAATGCACAGATGTACCCACGCCATTCTTCTGATATTCACTGAGTATGTGGTGTACGAACAAC
AGTATAAATAGGTGCTAGCCACCTACCATTTTCATTATCTCACAACAGATGCCTCCTCTCCTCATTCACAGGGCTATTCAGGCTATGTAACAGA
GCCTTATCTATGGCACCTAGAGGCCTGGACTCAGAAACCAGAGACAGGCAGAGGACTGAGCCTGCAATGGAATGACACCCATGGTTTTAAAGGA
AGAGTGGACACGCAGATTAGTGAAATCGGCTCTGTACTCTAGGAGCCCATGGGATTTGCATTTCAGGCTCTATCATCACCAAATCTACTTATTA
GTAGTTTAGGCAACTAATCTTTTAAACAATCAACATTCGGAGAAGTAGGTATCGCTCTGGCTTTATCTGAACTCCCTCTTGACCCATCTCCAAC
CCAATGGTTCTCACGCCATTTCTCAGCATTGGCCTTCATTAAAATTTTTTTTAACTTTTTTTTTTTTTTGAGACACTGTCTTACTCTGTTGCCC
AGGATGGATGGTATGATCATGGCTCACTGCAGCCTCCACCTCCTGGGCTCAGGTGATCCTCTCACCTCAGTTTTCCAAGTAGCTAGGACCACAG
ACACACCACCACACCTTTTTTTTTATTTTTTATTTTTATTTATTTTTTTGAGACGGAGTCTCGCTCTGTCGCCCAGGCTGAAGTGCAGTGG
TGTGATCTCGGCTCACTGCAAGCTCTGCCTCCCGGGTTCACGCCATTCTCCCACCTCAGCCTCCCAAGTAGCTGGGACTACAGGCACCCGCCAC
CACGCCTGGTTAATTTTTTGTATTTTTTTAGTAGAGACAGGGTTTCACCATGTTAGCCAGGATGGTCTTGATCTCTTGACCTCGTGATCCACCC
ACCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGGTTTTTTTATTTTGGTTTTGTTTTTTTTTTTTTGTAGAGAAAGAGTTATGCCACGTTA
CCTAGGCTGGTCTTGAATGCCTGGGCTCAAGCATTCCACCCGGTTCAGCCTCCAAAAGTGCTGGGATTATGGGCATGAGCCATTGTGCCCAGCT
TTTTAAACAATTTTTTTCTTTTTTTTCTTTGGAGACAGAGGCTCACTCTATTGCCCAAGCCAGAGTGCTGTGCCGCTACATCGGCTCACAGCAA
GCTCCGCCTCCTGGGTTCAATCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTATAGGCACCCACCACCACACCTGGCTGAGTTTTGTA
TTTTTAGTAGAAACAGGGTTTCATTATGTTGGCCAGGCTGTTCTCAACCTCCTGGCCTCAGATGATCTTCCCGCCTCAGCCTTCCAAAATGCTG
GGATTACAGGCATGAGCCACCATGCCTGGCCACATTTTTAAGTATTTACTTTGTCCCAAGAACTTCAGGTGCTTGATTTAGGTACTTTACTCAT
ATTATCTCATTTTATCTTTATCCAGAATTACCAGATCAGGTACTGATATTATCCCCAACCTACAGATGAGGAAATGAAGTTCTTGGAAATTGTA
CTAGATGCGTAATGAGCAGCAGATGAAGCTTGGATAGAAACTCAAATCTCTCTGACTCAAGATTTATGCTCTAAGTTACAATAAACACCGGAGT
TACACTTAAAGAGCTTATGGTCTAATTGAGAGGACAGAAAATTCACAAGAAAGAACCTGTGAAGAGTAGTGGTTATGTGCTTAGGCTGTAGACC
TGAATTTGGATCCCACATCACACTAACTTTCTGTGTGCCTGAGCAAGTTATTTCACTTTTCTGAATTTCCATTTTCTCATCTGAAAAAATAGAA
TACATCCCTCATAGAATTGCCAGGAGGATTAAATTAGGTTACTCATGTAAACAGTGTTTTGTATTTAATAAGTGCTGTGATTATTACCACTTTT

ATCTGTTTTCTGTAACGACGACAGAGGGTGTATTATATCATGTACTAAAGGCACCTTGCCCAAACTGGAGGAGAAAAAGTATCCCACCGGTTCA
AGTGCATTACTGGTAGCAGGCCCCAGCTGGATCCAGGACCAGGAGGGGGTCGTGGAAAGCAAGCATTTCTATCGGCAAATGTGAGTGATCTGCT
GTAGCTCAGATGCCACCCCAAGCAGCTTGCCTTGCCAGAGGTCTCTGGTAAAGGGGCATCATTGGGTACAAATGTGCTGGGGCACTTCCCTGCC
TGGAACAAGGGACCCTATGCCACCCTCTGGATCTAGGACTCAGTGGCTCTGGACCCACAGACCCAGCCTTTCCAGCATTCTGCAAAGGAAAGTG
CTTCTCAGAAGCCAATGACTAAGCCAGCCCAGGGGTTCCTTTTACAGAGACAATTGTTGGGTCAAGAAGGAACCCCAGAGCTGAGCCCCACATA
GGGCTAGGAGCCCACGCCTCCTGTCTTTCTCACTTGGAAGTCAATTTTACATAGCATGGTCTAAAGCCTCATGGACCCCACAAGTCTTTTAAAT
AATAACTAACTTCTCTTCCCTTGAATAAAATAATCAGCAACAATAGGAGAAGCAAAGTCATGAGAAACGGAAGGAATGTAGTCCCTCTGAGGAT
GGCTGGTGAATTTGCATGCTGGTGTTCTTCCTACACCCAGCCTATCACCTCAGTTAAGTACTTATTGATGATTTATCCGTGGAAAGTTCTTGAA
CGCTAGCAACATGCTCATTTCTGTAAAGAGCTTGAAGTACAAGGAAGAGTTTTAAGTTTAAACTTTAAAAAGTTTTAAGAGTTTAAGTAAAGAG
CTTTATAAGACACACATGAAGTAGCAACAGCTCCTCATGTGTAACAAGCTGCAAATAAGTGAAATTTCTGCCAGCTCAGCAGCTCCTCGCCTGC
AGACAGCAGCAGCCACATCAAGTTGCCCAGACTCATTCCTCTTGTTTGCCTCCTCCGTCCCTACTCTGGTCTTTCCCAGAGCAATTTGGAGAGGG
CTCCCTACTACCAGTGGCATCATAAAAATGACAGTGTACTTGCCAAGGGCATGGTCTTGGGGTGCTCCTAAAGCTGTTGAACTGCAAAAAGGGG
TGCCGTTTATTTGCAGAAGCCACAAGAATGCTCTCCTCCCCAACTCTGCTCTTTCACTTGGGTCTCAAATCAGCTTGTCTGGGGCCTTATCTCC
CCAAATCTTTTATTCCACTTAGGGGCCCTCACCTCCCTTCCCTTGCCCATATTGGCTTTTCAAATTCAGCCCAGTGAGCCAGACAGGGAACTCT
TCTCCTTCGTCTTCTCTCTCTTCACAGCCCCCATGATCTATCTCTTCTTTTCTCTACATTGTAATGGAAAAAAAGCTTTTTGTCTAGCCATGAT
TGCAAATAGAAGGGGGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCACATATGCATACCCAAAGCAGTATTCTCACGAGCTG
TTAACAGCTCAAAGGAGTCATAGGTCATCATCAGAAAGGTTTCATGGAAACAGGAAGCTCTCAGGAAGATCTCACTTACCTTACACAATGGCAA
AGATAATTGTGCATCAGGGTGAAAGAGTAAAGAAAGGTTACTTGCAGCAAAAGGAACCACAAAATTAAGGCACAGAAGCATACCTGAGTAGGGC
TTGTCTAGTGGAGCAGTGAGAATAGTTAGAATTGGACACAAGTTGCAGCAAGAGGAAGTTGTGCAATGTAAGTGTGGCAGGTGGGACAAAGATG
ACCTTTGGAAGACAAGTGGCTGAGAAGAGATTTGCTGTGGTCCACCTCTAGGGAGCTCTCTGAGGTTTTTGAGCAGATTGTGGCAGGATGACAG
CAGTATTCACAACTTGCAAGGGAGCTGGATCCAGCCAGGGAGCGCACAAGGTGTACTGAATGAGGGAAGAGCATGTCAGTGGGTCGTCAGGGAG
GGAAGAGTCTCAGAGAGAAATGCCCAGACTGGACAGAAGTGTGAGGCATTCCCGGTGAACCGGGACGCTCTCCTCCTACAATGTTGCCACTTGA
TTGGAGTTTCCTTGATTGTGAACTACATTCTTAAGGAAACTTCTATTCCAAAATGAGTTCAAACTGGTTTTGTGCCCTTTCTACACCTACACTC
TATCTCATCACTTGTTTTTTTTCTAGCTGTGTACCACTCACTTCCTTAAGAAGTCTCTCCTGGGTCTGCCTCCAGAACCGCTGGCTTTGTGTTCT
CTGTGTATTCTCTTTGCTGTGAGTCTTGATTTGCCGTCTGCATGTCCCCTTGGTCAGGACAATCCTGTGTTCCCTGTTGCCTGGTCCACCCTC
CTTAGGATAATGATGGGAGGAACTTTTTGCCCATCTATGGAGCATCACTGTGCCCAGCCCTGCCTCCCGGGCTTCTTTGCCTCTGATATTCTGT
CATCTTCTCCCCCAACCTAGAAGAGGGAAGGGAAAGAAATTATTTTACTGGAAACTCCAAGGTTCATGAATGATAAACTAAGAACGTAAGCCAT
TCTCTACAGCAGAAGATGCTACCTGATTCCTGAAATGTCATCTGTTTTTGTAGCAGGACTGTGGTACATGTTCTTCACTCTTATCACCAAAAGA
CACTTAGGGGTCATAGGTGGTAATGTGTCCTCTGCTTCCAGTGCGGAGCTCAAGGAATTTCATGGAGTCAGGGACAGCTGTCTGAAAGGTTGCA
ATGTCACCCTTTTCAGCTCAGAACCATAATTCCTTGAGCCCAGATAACAGTTCAAAATTTAGGATATGAAGCCAAAGCTGAACTCTAGCTGAAA
TCAAGAGTGGATATAATAACCAAGAAACAAATGGTTCTGACAAGCACAGCTTTACTCTGAGCATGACTCAAGGGCATCTGGTAGAAAATGAAGA
AGGATCCCAGCAGATGTTAGGGCTAGGGAGATCCCCTCGGTTGGGGGATGTAAGTGTTTTAATATTGTGTGGGCAACTCTGCTTTGAATGTATG
TCTGGAGGCACCTACACCATCCAAAGCCTTCTGGTGCAAAAGCAGGACTCCTAGAGTATATTCCAGTATTTTTTCCCTGATCCCAGCTGAAAAC
AGCCATAGAAGAGCCTCCCTTTTTGAATTATGGCTGTCTGTCCGCTGGGGTGGAGAATGGCCCTGGGAGACAAGAGACAGCCCATGGAGCAGGT
TGTAATTCTACAGGCATATGAAGAGCATTCATTCTGAAGAAGACATTCAATTCAGGAATGTGAATTACACAAGGAAGGTAGACAAATCCCAGCT
TTAACAAGTGCTGTTCACCTATCACTACATTTTCAAGTAAAGGTGGTGTATCCATTTGCTAGGGTTTCCATAACAACATACCAGGGCTGAGTGG
CTTAAGCAAAAGAAATTTATTTGCTCAGAGTTCTGGAGACTGGAAGTCCAAGATCAGGGTGCCAGCAGGGTTGGTTTTCCTCAGAGGCCTCTCT
CCTTGGCTTGCCAATGACTGCTGTGTCCTCACATGGCAGCCCCTCTGTGCACACACTCCCCTGGGGGCTCTCTGTGTGTCCAAATTCCCTCTTC
TTATAAGAACACCAGTCATATTGGATTAGAACCCACCCTATCAGCCTCATTTCACCTTACCTCCTTAAAGGTCCTATCTCCAAATACAATCACA
TTCTGAGTACTGCGGGTAAGGGCTTCAGCATATGAATTTTGTGAGGACACAAGGCAGCCCCTAACAGGTGGCCTAAGAGAATCTTTGTTTGAAT
GCTAATAATCATGATACCTAACATGTTCTGAGTGTGACTCACTATGTGCCAGAGACTTCTAAGTACTTTGCATGTATTATCACAACTATTATCA
CAATTATAGATTATATAATTATTGATTATATAGATTATAGATCAATTATAGATGACTACCATCTTCTCTGAAGACTTACTTTGGTGTAATTATG
TGACTGTAGTGAACACTATGCCCTGGTCCCTGACCTTGGATGCCTGTGATTCGATGAGACATGGAATAATGGGAGACTCTTACCCTCATGTTTT
GATTGGTAGCAGATCTCCGGAATGTGCAAAGTTTTTTAGTTGTCGTTGTTGTTGTTGTTTCGAGACTGTCGCCCAGGCTGAATGCAATGGCACG
ATCACGGCTCACTGCAGCCTCTACTTCCGGGGCTCAAGTGATCCTCCCACCTCAGCCTCCCAAGTAGCTGGGCACATGCCACCATATCTAGCTA
ATTTTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTCTCTTTCTGTTTTTGTAGAAACACA
GTTTTGCCACATTGCCCAGGCTAGTTTAGAACTCCTGGACTCAATAGATTCTCCCACCTCAGGCTCCCAAAATGCTGGGATTACAGGCATGAGC
CACCATGCCTGGCCAAGGCTTCTTTTCTTAATCCATGATCTCCCAAAGTCACACCCAAGTCAGTGATGGGATAATATGAGTGGGAGGACCCAAC
AACCTCTTTTGGAGGGTCTTGCCCTGACTGGCACTTCACGTGTCTGAGGTTCCTCTTTCGTCCTTTGGCTGGCTGAGTCATCAAACATTGAGATC
TACAGGATGCACCAGCACCTCCTAGAGGGCCCTCAGCAAACCACTGAGCATTTCTTACAAGCTACACCCCCACACCAGATCTTCTCATTTAATC
CACCTATCGACTCTGTGCTAAAACTATTTTTATCCCTGTTACAAATAAGGAAACTGAAATTGGCCTGGCCACAGCCATGGGCACCACCCTTCCC
TTGTGTGACCTTGAGCAGCACACCTAGCCTCTCTGGGTGGATCTCACTGGCCTTGCCTGGAAAATAAATGCTGGATCTCATCTCCCCTTCATTG
CTGATGACTCCACTCAGCTCGTAAGAGGCATTTCTGCTTATGCCTGGAAAAATCTAGCATTCACACACCACCACAATACTATTCCATGCCAA
GTCACCACTATTCTTGGCCTCCCTATCCCCACCCTCCTTTTTGGGGGTCCCAGACTACAGAACCAATAAACAAACCCACTTTCATGATTCCTCC
ATCCCCACTCCACTGCCCAAAGTCCCTCCTCACCCAGGTAACCTGCAAACACCCATCTGGTTTGCATAAGGGCAAACCTGCCCCCTGGAGTGTG
AGTCAAACAGGAACTTCCAGACAAGCTGTCCTGGGGCAGCCCTGGGCCACCTTGCCAGCTCAAAGCAAGAGTGTCACTTGCTTGGGTGAAGAGT
GACACTGGGCTTTCTGTCTCTTCTCTGGCCCTGCAGGAGGCTCTGTCGGTGGTGAGCGACGACCAGTCCCTCTTTGACTCAGCGTACGGAGCGG
CAGCCCATCTCCCCAAGGCCGACATGACTGCCTCGGGGAGTCCTGACTACGGGCAGCCCCACAAGATCAACCCCCTCCCACCACAGCAGGAGTG
GATCAATCAGCCAGTGAGGGTCAACGTCAAGCGGGAGTATGACCACATGAATGGATCCAGGTAAGCTCACCAGGCCTGTGCAGGATTGGGGGAA
GGCACAAAGTCGCCAGATCTGCAGCAAGTGGCTTCTGGCACTTAAGGTTTTTGCAGCAGATGGGGCTCTAGAGCTGGGCCAGGAAGCCTGTGTC
AGTCCCTAGAGAGCTAAGGCAGAGAGGGCCACAGACTGATGATGGGGTGGAGTAGGGCTAGGAAGCCCCCCTGGCTCTCTGGGGCCCACGAAGC
CCTCAGAGGCCAGGTAGGAGTCAGGCCCCAAGCGCCTATGCAGACACTCGTGGAACACTTATTTCTTGTTAATCCCAGGCCCAGGTCCAGTCCT
GTTGGGGACAGCTTAGCAATAAGCTACTCTTCCCTGTCCTGTTGAAGATACTTAACCCCTCTGGGCAGGTCTCAGCAGAGCAAAGGTGACCAAA
CCATTCTTTAGTAAGAGTGGAGAAGGGATGAGGAAGGTGTCTACCTTCCTGTGGGGGCTCACTGTGTCTGGGAGGGGGCAGGCACCTGGAAGGC
GTGCATGAAGTGGGTACAATACTGGGTCAGTTCGGGCTTTGCTTGTAGAAATGGAGACAGGAGGGTCCAGGGAGAGAAAATCACAGGGTCATGG
AAGAGGACAGTGGACAGGCGGCCTCAGTTTTGCGTCCTGCCCCTTGGGCAAGTCATCGAAACCCCTCAGAGCACCAGCTTTCTCCCTT
CTCAAACAGGACTGGGATATTCACTTCCTTATGGTCCTTACTCTAGCGTTACTCTGATGCCTCAGGGAAAGGACCTGGGATGGTGCCTGAGACG
CGTTAGGAAAGTGCTCTATAGTGACAGTGATTGTTATGAGCAAAGACTTGAAAGACAGAGAACATCAGTCTTATTCACAAAATATCAGATAATC
TACTGGGCCAAAGGCACAAAGAGATGAAAATAAAAAGCAACAGAGGGCCCTGAATGGCAGGCTGAAAACATGTGCCATTTATTCCACAGCCAGA
GGCTGACTTTGAGCACCGATGTGACATTTAACCCAGAGGCTGACTTTGAGCACAGACGTGACATTTAACCTCATCAGAGCAGTGACTTAAGACT
AGCGAGCTGACAGTCCTTGCGCACAGACGGTAGGATGGGAGAGTCAGAAAGACAAGTGAAGAAGTTAGTAAAATATCCCAGATAGGAAATAATG
AAGTTCTGAACTAAGTGATGATAGTGATTTTGGAAAGTGAAAAGGACAGATACATAAGGGCGATAGCAAAGAGATGATTAACAGGGCTTAGGTG
AGTAAAGTGTGAATGAAGGGGGTGCATGACACGGAAAGAATCAAAGGCGACTAAAGCCTGCACATTTTAAAGGCTGGTGCTGTGAGCAGCCGCAG

AAAGGTGGCACAGGAAATGCTTTAGGATGGGATGTCAGTGTTCTCTTTGAGATTCCTTGTGAGCAATGGGTAGAACATCCAGATAAAAATGTCT
ACTAGGCTTTGGGAACTGAAGCTCAGATAATCTTTCAGGCCTGGAATTTACGTTTGGGCATCATCTCTAAGGAGTCTGAACTGTGAAAGTGGAT
GAGGTCACCGAGGAAACTAGTCTAGATTGAAGAGAGAGAAGGGAATGAGCATGGTTGGGAGGGAGAACTCCTCCAGAGCAGCTCATGGCCTCAG
ACCTGCCTGTGGGAACTCCCAGGCCTACCACATTTCAACCCTACTAACCAAAACCAGTGACTGGGATCTCAGCCACCTTTCCAGATCCCAGGAT
TTCAGGAAGGCTCAGAGGTTCTGAGCCTGCAGCCCCTCAGATGAATCTCTCTCCAGATGTAATTCTGATGGTGCCGGAGCTCCTAACAGTCGAA
GGACATGGTGTGTTGAACGTTTTCCCATATTATCTTACCACTTGTTCCTCACCACTATACTAAGAAGTAGTTACTGTAACTTCACTGTTACACA
GGAAGGCAAGCAGGGCTTTCAGGGGACAGTGCTTTGTCTAAGGATTTAAAGGAGGCAAAGTTGGAGCCCGAACCCAGGCGTTTGGTTCCAGCCC
CACGTGCCATCTGTTAGGCACCTTTCTGCTCCCTCTGCTTGTGTGTCATGCTTTTGCACCACCACCTCATTCCTGCCAATGCCCACCTGGTGAG
GAGGCCTATTCTACGATGCCTCCTAAATGGGGCCCTTCTCCAAGGAGCTCCCAATGCTTGTTGAAGATCCAGATCCCACTGGTGGAGATTCCTT
TTTTTTTTTTTTTTTTTTTTGAGATGGAGTCTCACTCTGTTGCCCAGGCTGGAGTGCAGTGGTACAGTCTTGGCTCACTACAACCTCTGCCTCC
CAGGTTCAAGCAATTCTCTTGCCTCAGCCTCCTGAGTATCTGGGATTACAAGCACATGGCACCACACCTGGCAAGTTTTTGTATTTTTAGTAGA
GACGGGGTTTTACTATGTTGGCCCGGCTGGTCTTCAACTCCTGACCTCATGATCCGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGT
GAGCCACCGCACCCAGCTTTGTTGGAGATTCTCTGGCCTGTTGTAACCTGAATCTGCCTACTCCTTACCTCCACTGCCCCTGCCTGGTGCAAGC
CAGCAGCACCTCTCCTAGGCTTCTGCGGGGGCATCCTGCTCTCCCCACTTCCTCCTGCCTTCCTGAAGTCTATTCTCCGGACAGCAAGCAGCCA
GAGCCATGCTTTCCTCGTTTGTAATCCTCTTGCTCAAAACTCTTCAATGGCTTATGACAAAATGCAAAGCCCTTAGTGTGGCCCCACCATCCCT
CTGACATCCTCTCTACTGCCCCCTCCCTCCCACTTCTTCCCTCCGCGCCAGCCTCATAAGACTCTAGCTGCTGCTCCTAGACCCCCAGGCACCC
TCGTGCCTCAGAATCTCTTCCCCTGAGCTCCTTCATTCTGGAACATTCCTACTCCATCTAGTCATATGACTCTCTCCCTCACGAGTTTTGGGTT
TCTCTACCTGAACCTCACCTTTTCAGAGGCCTCCCCTGGCCACCTGATCGAAACCAGCGCCTCCTCACTCTTTACCCTGCTTAGAGTGTCTGTC
CTAGTTCTTATCACCTCCCTCACTGACACGTGGGCAGGGCCTGAAACGGTAGGTGCTCAATAAATTGTCGTCAAATAAATAACTGAGAACACAT
GGCTGAGCAGACTCAAAAGAGAAGGTGCTTGTTTAAAGTTAGGACGCAGATCCAGGTCTGCTGACTCAGCCCCTTCAATGCTGAGCCTGAGTTG
ATGCATGGGCTTCTGAGTTCCATCTTCATGCTCAATGGAGACCCATGGGTATTTGTGTCTCTGGTGGGAAGGAAGTATGCTGCTCACCACTCCC
TCCCCTGCTCTCAGAGAATCCTCAAGCACTTCAGGATACTGATCCTGTGCAAAGAGGGTCCCCCAAGGAAATTGATTTTTCAGAACCCACTTGC
CAGCTCATACCTGGCTCCAGTCACACCAAAAGCCAGCTGGAGAGGGCCTGTGTGAATATTCCAGTGAACAGACAGGATATTTACCTGGCTTTGG
CTACACAGAGCAGCAACCTCTGCTTTTGAGTTGCTTGTCTTGACCCATACCATCAGCGGGTAACAAAGTAGGTTCAGAAAGACTGATATCTTCT
CACCCACCCTGGGCAAGCAGAGACAATCCTGTGGACTCTCAGAGCCAAGCAGCTTAGGCACAGCTATCGCCAGCACCCCACAAATATTCCCTAA
GGGCTCACATGTAAGCTGGACTAGTGGCTAGCAGGAAGCAAGGAGTTTTAGAAAAATGTCATTGCTTACAGTGGAACCATGTCAGACCCTATCA
TTTAATTATGCCAAAAGCAATGACAGAATGAAATAAATGCCAGGCTCTTTAAATCTCTCATCCTGAACACTGTGCTTCTCCTATCCTCTGAGTA
TTATTGATAATGACAGTTCGTTACTTGCACATGATTTGATTGTTTGCAGTGGTCTAATTCGCCATAACACAAAAAGATAGGAGAGGATGTTATA
ATGATTCTGAACTTCAGATGAGAAAACCAAGGCAGGGTATAAAATTTGAGACTGCTTGGCTCATGGGCTAGACCTGTGCTGTTCAATGCAGCAG
CCACTAGCCACAGGTTGCTACTGAGCACTTGAAATACGGTTAGTTGAAAATTGAAATGTGCTCTAAATATAAACCACATACTGGATTTAGAAGA
CTTACTATGGAAAAAGTGTAAAATATCTCATTGATTATTTATTATGCTGAAATGATCTTCTTTTGGCTATATTGAGTTAACATATTAATATACT
TTAATATATTATTAAAATTCATTTCATCGTTTTGTTTTCTTTTAAAAATCTGGCTACTAGTAAATTTAAAATTATGTAGCTCGGCCAGGTGTGG
TGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGCGGATCACCTGAGGTCGGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAA
CCCTGTCTCTGCTGAAAATACAAAATTAGCCTGGCATGGTGGCGCATGCCTGTAATCCCACCTACTCAGGAGGCTGAGGCAGGAGAATTGCTTG
AATCTGGGAGACGGAGGTTGCTGTGAGCCGAGATCATGCCACTGGACTCCGGTCTGGGCAACAAAAGTGAAACACCATCTCAAAAAAAAAAAAA
ATTATGTAGTTCGCACATGTGGTTCCCATTCTACTTCTATTGGACAGTGCTGGGCCATGGTGGTCTGGACTGTTCTGTGATTCACAGTGCATTT
TTTCTGCATTCCTTGACAGCATGGGCTTCTGAGTTATGTCTTCATGCTCACTGGAGACCCATTGGCATTTGTGTCTCTGGTGGGAAGGAGGTGT
GCGGTGCACCTGAAGCTACCATGCCCACTTGCTTTTCACCCCAGTAGCAAACCCTCTGGCCCAGGGGCAAAGGGTCAAGTGCAGAGACTGAGGT
CTGAGGATCTCAGAGACAGAGTGGCTTGCCCATGTTGAGGGAGTTTTGTGCTCTCTTTCTTCATATCTTCCTGTTGTGGTTGACTCTGTTAGGC
TGGGTTGCCTTGAAACAGCATGGCCCATAGGTTCTGTGTCGCATGTAGACTTCAGCAACTTGATCCAAACTGTGGTCTGCAAATAACTCTCAGC
TGCATCCTGTCTCAACCACAGGGATAGGGGAAAACATCCCATGAAGAAAAGAATATCAGGTTATAGAGGGAAATGCAAGACTTGCCTTGTGAGC
CTGGTATTCAGGACCAGAGTTCAGAGCTAACCTTCCTTGAAATTCCCTGGCCTGGCCCCCAGGGTCTGGATGCCCTGGACACCTAGGGACTCAC
ATTCCACACAGAGAAGGATCAGCTCCTGTTCCCTGGAACTTGTGCCTCTCTGGCTGCGAGGCCCCTTTCTAAACTCTTGTGTTCTCAACCTTGC
AGTATGAGACATGTCACACATAACCTGGGTGGGGAGGATACACAGGATCCTGGAAAAGTTAGCAGCATCTACTGTGTATGGGGATGAAAACAGC
TAGTGGATTAGGGCGGTGGCTTTATCATAAGTGATGCTTTTTCTTTTCTTGGAATTGCTTTTAAGTTATTGCATCTCCTTTTCAAAAACAAAA
AAGTCACATCTATGTCCTACAGACTTCCTAAAGGCAATACAGATTGTTTAATTTTTGCACAGGGTGCATACTACGCAGGAGTTACACGCCGCGG
GTCCTAATGCAGCCATGTGACTTAGGCAGCCCGCGAGGCCTCACTTTGGCCACGTGAACATCAGGTATCCTTTGACAGTGAGCCTGGGCTCAGA
TGTGCGGGTCTGATGATATACCCAAGTTCAGTTGCTCTGAGTTGACTAGGAAGGTAGAGAAGATCTTTGTACAGCCTAAAGAGGTAATCTTCAG
GAGAAGTCTTTGAAATCTCCCTTCATCCAAACACCCAAGATCTTACACCTTGTTTTAAATGGCCTAACACATTGCAAAGCTTTTTTTGGAAACC
AGTAGCAATGTTCACAGAACACACACAAACAGAACTCGAGGAGTCAAGAGCTATGTCCAGTGGTGGAAATGAAGGACAAGGGCTACCCTACCCT
CGGCAGCTCTGCTGTGGCCTCTGTCGCCCTGAGATGGAGATGTGCTGAGTTATTACACCCTTGGGGCCACCGCCACCTCCCTGCTCTATTGTGG
CAGCCCCAGGCTCTCTTGTCACCTGTCCCAGTGCTATCAGCTGCCAGTGGGCCCCAGCCCCATGCTAGCTGTAAGTGCAGGTCTTAATACAAAT
TAGCAGCAGTGCAGGCAAGCTGAATGGCAAAACCTCGTCCCGCACTCCCCCTCCCTCTTGTTTTCATCAAGCCTTCTTCACAGGCGCCAGCTGC
CTCATTAAAGAGCAGCCTTTTATGCTGGGCTTCACCTGTACCCACCCTGAGCGGCAGCCGTGGAGCCCCATGGCCGCACGCAGGGCTTGCGCTG
GCTGGAGGAGGCACGGTGCTTGGGAGCTGCAAGAATGGAGGGAGGACTGGCAGGCGAGCGGGCGAGGTATGGCTTTCCTTCTTTCTCTCCCTGA
GCAGTGGGAGGAGGGCCAGCTGGGCAAGTGTGGGGAACCAGGATGGTGCCAGCCCTTCTCCCTAAGGACACCCGCCTGCAGGTCCTAGTGCAGA
AGCCTGGGACCGAGGACAGGGCCATTTTCCAGAGGAGAAACACCCTGGCGGGCGAGCGGCCAAACCGATCACCTGTCCAGCTGGAGAGCAGGTG
TGTGCACAGGGCCGGGGGAGGGAGAGAGGAGGAGGGAAGCGGAACTGGGAGAACTTCTATGGGTCAGTGAATGAGGAGGTTCTGCTCAGGGAAT
GAGTGGCAGCGGCCACCCCAGCAAGAGAGCCCCCTCCTCCTCTGCGTCCACTTTCCCTTCGTCTAGGTGCCCATGGCTCCTCTCCTTACAAGGT
CACGTGTTAGGCAGGTTTGGGGAAATGTTTCTTTCAGCTTTTCACATTTATTTTCCTCCAACCCTGGCACCTGGGACCAGCCCTGCCACCTGTG
CCTACCGTACATGGCCATAACCATAAAGGCTCACTCCATTTCAGTGAGTCCTGAGGTGCTGACTTCTCTGCACAGCAAGAGGTCAGTTTTTAAC
TCAGAAATCCCCAGGGGCCCGGCTGATGTGGAAAAGAATTTTTCCAAATATCGTATCCCCACCGTCCACAAACGGGAGGAGCCCGGGGAGTGTG
CCCTCCTGTCCCACCATCCTGCCCCCTGCTGTAGTTCTCCTTTCCGAGAGACCCCTGCCCATACCCTATGCCCTCTTGCTCTGGGGGTCCTCCA
AGGGAAGAGCGTGCAGTGTGGAGCCCACCTCTCCCACAGAGGCCGCCTGCCAATGAAAACCTTGCTCACTTGGTTGCAGGCCAACTTAATCCTT
CAAACTTCTGCAGCACTTGGACTGTTTCACAACTGACAAGGATGCAGGGAAAGGCTGCCAGACCATGTGCGTGAGTGTGTGTGTATGCGCGCGT
GTGTGTAATGTGTATGCGTGTGTGTGCACTGTGTTTGCATGTGTGTGCATGTGTTGAATGTGTGTGCAGATGAAGTGTACGTGCATGTGTGTGC
ATGTTCTCTGTGTTGAAATGTGTGCTTCCATGTGGGTGAAGTATGTGTTCCATGTTGGAATGTGTACAGTGCGTGTCTGTGCATGTGTTG
AAGTGTGTCCATGCATGGGAGTAAGCATATGTGTGCACGTGTTCTCTGTTGAAGTATGTGCATGCATGTGGGTAAAGTATTGTGCACATGTGTT
CTGTGTTGGAGTGTGTGTGCACATGTGCATGCATGTGTGTGAGTGTGTGCCTGCAGTTAGCCCCAGGGCGGGTGAGGGGACCCAGTGCACTCGG
GCCAGAGCTCAGCTCAGATGCAGGCACCAGGGTCTGACTGGGACTGCTTCATCTCAGGCCAGGTCCTTCCGCAGCAGAAGCCAAAGGGCCAAAC
GCTGGTGAAAAGTCCTGATGTGCTACTGCCTCCCCTCCCCTGCCATGGGACGTTAAACCTTCAGCAATCTGGAACTCTGACGGCTGGT
TTTTGGTTCTCTGCCTGGAAAAACAGTAGGCGAATAGTAAAACCTTAAATTCTAACATGTGTGAGTTATACATCTTATTTTCATTTTCAGCCCA
TGTTTCCCTCTGTAAGACATCAGGAAAAAATTACCGTCTGACTTCTAATATCTCAGTGGAGCATTTATCTCCCAGCTATGATAAGTGATCTTCA

SAGRES DISCOVERY 02-33

ATATTTTTTTCCTTTCAGATTAAGAAACAAATTCATTTAATTTTCTTTATTGAATGTGCTCAGGCCTCCCCGCCCTGCCTGGGTCTCAGGAAGC
CCTGGGCTGATCTCCCTTCTCCTGGGTTAGTGACTGCCGTCCCTGCTTGTGGGATGGGTGGGTCCCTATCTGGTACGGCCCTGCTCCTCAAGGC
CTCGCTGTGGTCCGTTCCTGCGCCTGGCAGGGGATGGAGGACAGTGGCCAGGCCTTTGGAACGTCCGGAGAGGTTATGCGGCCTAGAGTTGGAA
GGCTGTAATCTGAACCTTATCTGAACTCCTTGGTCTGAAGGCCTGGTTTGGAGCTCTTGAGAGAACTGGCTGTCTCCCAGGCTGCCAGAACCGA
TGCTTCCTGCTCAGTATAATGGCGGCTACAGCTTCTCCTTGGCCTTCCCATCGTCTCCTTTGGTCCTGCTGCTGCTGGAGTGGCTGAGCAGCGG
GCACTGGGTGTGACAGGGTGGCACCTCCCCCAAGTATGCTGGAGGTGCGTGATGCTGGGCTGGAGGGCATGCAGAGTGTGTTTGCCAGCCAGCT
TCAGGGCGCCAGGTGGCCATGGGTGGGACTTCACCCCTCCAGACAGCTGCCCATCACCAGTGCTGCAAAATACCAGGTGCTGATCAAGTTCTGT
AGTTCTAGGCTAAGTTGGATGATCTGCTTTCTCTCTTGTGAATGTCCATACTGCTTCCACAGTGAGCTTGGGGCCAGGGATGCAAAATGCCACA
GGGCCACCACCTCTCCATCAGGTGGAAGTTCCTGGACTCCATTCCTTCTCCAAGTAGCAACCAGCTCTTTTGCATGTGTGCTTGATAGTGAAGC
TTAACACAGAAGACCTGAGTCCTGTTTCCACCTTGACTAGCTGTGTGACTGAGCCAGGCAGCCCCTGTCTCGATTTCATTAACCATGAAAAGGA
GATAGTAACCCTTGCTGTGCCTATCCTGGGGGCTTATTGGGAAATTCAAATACAACAGTGCATAAGAAATGCATTAAACTTATATATGTGCAAT
AGAAATAACTCACTGAGAAAGCATTTGCTGCTCACCTCCTGTAAGAATACTAGGGTTAAACAAAGAAAGTGATGACTATCCTCTCAAGAACTCA
GCAGTCAGGGGGCGCAGGCCAAGCTGAGAATCAGACAGTGTGACAAGTCCTTATAACCAAGGCGGGCACCAAGTGCTGGGGGACTGTGGGGAAG
GCGTGTCTGGGAGCATGGACTAGGTTGCCTGGCAGTGAGGCTAAAAATGTAAGCTGCAGTCAGACAGGGAGGGCTGCGATGCCACACAAAGAAG
CTCAGACCTTGGTCTGAGGGCACTGAGGCGCTGCCAGCAGTTTTTACGTACTGTAATTATAGGATTGGGCTGGGATTTGAAGAAAACTCTGGTG
GCAGCATGGAGGATAGAAAGAGGGCATCATCATCATCATGACACCAAGTGTGGCCGGGCAATGGCTCCATGCTCATCATCGGAGCCCTGGGCTC
ATGATTCAGAGGCTGAGGCAAGCTGCCCTGTCAGTGCTGACCGCCTCTGGGCTTTGTCTCTTCTCACTTTAGGGAGTCTCCGGTGGACTGCAGC
GTTAGCAAATGCAGCAAGCTGGTGGGCGGAGGCGAGTCCAACCCCATGAACTACAACAGCTATATGGACGAGAAGAATGGCCCCCCTCCTCCCA
ACATGACCACCAACGAGAGGAGAGTCATCGTCCCCGCAGGTAATTCGAGAACCAGGCTGCCTGGGCGCCATTCACTTCCCCACTCTCTGGGGGG
CAGGGAGCATCTAAACCTTTATCTGATACTCTATTCCCTGTGGAATTGCAAAATGGAGAAAGCTGCACGCCAGCCGGGAGTGGTGGCTCGCGCC
TGTAATCCCAGCACTTTGAGAGGCCAAGACGGGTGAATCACTTGTCAGGAGTTCAAGACCAGCCTAGCCAACGTGGTGAAACCTCATCTCTACT
AAAAAAAAAAAAAATACAAAAATTAGCCAGGTGTGGTAGTGGACGCTTATATTCCCAGCTACTCAGGGGGCTGAAGCAGGAGACTCGCTTTAAC
CGGGAAGGCGGAGGTTGCAGGGAGCCAAGATCACACCACTGCACTCCAGCCTGGGTGATGGAATGAGACTCTGTCTCAAAAAAAAAAAAAAAAA
AAAAGCTGCACATTTTACCTGACTTCCTAGCTGCCCTTTAAGGCAGTATCCCAGATGTCACCTGATGTGTGGGTGCTAGAAGCCCCACCCTTAA
ACAGACCACATCACAGACTCTACATCAATGGCCTGGTCCTCAAGGACGGGCTGCTCAGAGAGCAGAGGCAAGGCCGCCTCCACCCAAAAGGAAT
CCCGTGAGCTCTGGATGTGGGCATCCCTGCCTGTGAGGAGGAGGTCAGCTGCAGAGGCCAGTCCTTCCCTCCAGGCTCGTACTTCCCGGCATCT
ACCAGGTTCCACCTTTCCAAAATTACAGCCAGCTCTTTCAGTTTTAAAATAGAAAGAACTATATTTAACTAATGGAGTGCCTTAACATGTGTGC
CACAAGTTATGTCATTAGGTAAAAATAGCCTCTTTTTCCTAGGTGTTGGTGCTGTTGGTCCCAGAAAATAAAATCATCGTTCAGTCCTTCAGTC
CATTGGCTGGACACTCCACCCCAGCTAGCACCAGCAAGCTCAGCTGCCTGCACAAGAAGGGTGTTTACAAACTGCCACGTGTAGAACTGGTGCC
AGGTAGAAGGGGCAAGGATGTCCAAATCTTAAGCAAAGTGATTACAGGGCAGGGATTAAACCTGATCTTACCAAAATAACTTTACCAGAGAGGC
AAAACTCCTTCCATTTGTAAAAGCATAAATGTAGTTGCCTCTGAAGTCAAAAGGTTAGACATCTCTTTGAGGCAGTCCGAAGGCATCTGCTTGT
AGGTCTAAAGGCAGAAATGTTAAGGGCTGCCTCCTGCCTTGGCCCGTGGTGTTTGTTTTCCCTGGGAAGCTGCATCTCACCATATCCCTGGATT
ACAGCTGCCTCCCTGTGCTCTGGGCCAAATTCAAGAAGGTGTGAGCAAGAGTGAGGCAGCAGACGGGTGGGGCTTGTAGAAATTTCTCTGTACC
CTTTAGGACTTAGAAATGACTCCTAAAGCAATTCTAAGTTTGCTCTTCCACAAGCATCTGACCTAACAAAGGAAGAGGAAGAATCACTTCCATT
TATTGAGTGCTTTCTAGGTGCCAGGCACCACGTAAATTGCTTTATCTCCATGGCATTACTTAAAACACCTGTCACAGGAGACCAGCTAGTAATG
TTTAGCCCAGGTGTATCGTCTCCCTCCTCACTGAAAGCAGACAATGAAACTGTATTAGAACTGACAGGTGGGAATCTCTTTGTACAGCCCAAAG
CAAAGCTGAGCCTCACTGGGTCTTCACTCAAATGGTTTCAAACTCCCCTGCTTCAGTCAAACAGCTCCCAGCCTGGGAGGGAAAGCTTGCGGGA
CTGAAGGGTTTGGGGATCTGAGATTGTCTTTGAACCAACCTTTGGCACCATCTCATTTTGGTCGTCATTTTGGGGAAGGAATCTTGGAAATGGG
CAGAAGTGGCCAGACTGCTATGTCGACCCTCCAAACTTTCTTTGATCAGTGTTGAAATGCTTTCAAAAGGAATAGCAAAACATCAGGCTTGGCT
GAGCCAAGTTACCTATAGCGCTGGTGGTGAAAATAAAACAAATTCATGTCAAATGATTTTCAAAGCACTTTCAGGCTATGGATTTACTTCATTA
TTTTAGCTCCGGCTAGATCTTTTAGGTCCTCACACATTTTGGCTTCCTCCAGGCCAGGCTGTGGATATGAGGGGAAGTCTCATTTGGGCAAGTC
CACAAATCAAGGCAATAAAATATTAGTGGAATAACCGATTGAATTTATGATGGGATTTAAAGACAAGTATAAATGTGGGCCCTAGTTAATCACT
AGCTCCATGTTCAGATGGGAAGAAACTAGGACTAAATCATCCAGGAAATGCATTTGGAAGAGTTTAGCATGATCCAGAGTTGAAGATTTATAAT
TCATTGTGCTGTAGAGGGAGAGTAATAATATTGTTGCAGAGCCCAAAGCAAGGGAGGAAATAATAAAATAAATAAAATATATGGTGTAAAATTG
AATTTGAGGCCTTGGATACTAAAAGTGAGGAACTGGGAGAAGTGAAGAATGAAATAATATGCTACATAATCCAACTCTCCCGAGGATATGTTTC
TCTAGAATTCTGAAAAGGTGCAAAATTATTTCCATTTGCCAATGATCCATGCCTAATTGCTTCTGGAGAGTAAAAGAGCAAGAAATGTATCTGA
GAGAGAGAGAGGAAGACATACTTGTACAATGACACTTTAGAGGAGCTCCGCTTTCTGGCTTCAGAGCAGTGTAACTCACAGGTGAGGTAAAGCA
GGATGGTGAGAAGAGGAAAGGGGCTTTGGGGGAACCCACCTCTTCAGCTTAGTGAAGTCCTATAATGGTTTCTATTGGAACCCCAGCCCAGATA
CTTACCAGCGATGGGGCTTTGGGCAAAGGACTTAACCTTTTAAGACTCCATTTTGCATCTGTAAAATGGGGATATTAAAAGATTTCCTTGGTAA
GTAAAAATAGGGCTCGCGGAGCAGGTGGCACATAGCACCCACCATCTGAGCCGTCACTGCTCACAGGGCATTAGGTTGTTGGAATGACATTCAG
CAGCAGGCTGTGACCTGTGAACCCAAACTCTCCTAACTCCTCCCCTTTGCCAGCTCCTCCACCTTCAGCACAACACAGCAGCCACTCTCGTGCA
TGGGCAGGGCCTGGGCACTTTACAAAGCAGACTACTCGGGCCCTGCCACCCAGATTCTCACACATAAAAACCAAGGTGGAATGGAGAGTCCAAG
GACAGTTGGTGGATGCTTGTGTAAAAGTGCTGGGAAACTTGCCTCTGGCTGCCCAGCTGTGAAGCGTGAGCCTTGCTTCTTGCCCCACATCCAC
TCCTAGTCATTCAATCCTGGTTCCCTGCTTTGCCAGGAGCCTTCATAGACGCTGTAGAATGAGAGGGTGAGTTGCTTGAGGGGTAGCACAGATA
TTCCTGCCTAATAAATATGTTAAATCAAACAGGCTCATTAGAAGCCGGAGGCTAATGGCCGACTTACAATAAAATGCCGAGTCTCTCCTCCCCC
AGGAAGTCTTCCTTGACTCTCCAAATTTTCACTATTCCCTTCCACTTATGAGTCCTCGAACCACCGCCACACAGTCCATTGCTTAGTAGTGGTG
TGCTTGCCTACCTGTTTCATGGGAATGAGTATTTCTTGAAGGCAAGCGTCATGTAATTTTCTTCTATGATAAGGATATTTAAGGTGTTTATTGG
ACCCACTAACCATTGGTTGCCAAGTGAAGAGATGGGCTTCAGACTGTGATGAGTGATAAAAGAGTTCTGCCTACTGTGGAACCTGCTGGAACTC
ATCACTTGTGCTGAAAGTGCAACATCCCCACCACACACACACACACACACACACACACACACACACACACACACACTGAGAAGGAG
GAGGAGGTATGAGTGTCCTACCATAGAGATGGCCTCAGTGGTTACCTTACCTGTGTTCACTCAAGAGCTAAAATGTTCTCCCCAACGTCATCTC
TCATCTTTGGGTATTTAAATATCTAAAATATGTTTTGGGGATGCCCTGGTAGAAATTTCTACACAGCTGTGCTTAAAAGGAGAAAAATCTAGTT
TGGGTTTCTGTTCAAGACTAACACCGCTGGGTTTTTCAACTGCACAGATGGAATTGCAGTAAAAGTCTCTCTGTTTCTTTTCTACAGCCATCTG
AGGGATCCGTGTTCTTTCATGAAATCATTAATATTCTTAAAATACAGATGGTTCCCGTTTCCAGAGACATTGGTCCCGGGGTCTGTGAAATTGT
GTTTATTTTCATTTTGATGCCACCATTTCTCAGGCAAAGGTTCCAACTGCTCTCCAAAACTTTAAAGAGTGCTCTGTCAGGATACGTAGTGAGG
CAGCTAAGCACCTCCCTGGAGTGCTAAGTGGTTCAGGCAGCGCCAGATGCCATGGAGCCTGATGAGTGTTCTAGGGGAACCATGTGGAAGGGAG
CTCTCCCAGAGAGAAAGAAGAGGAAAGAAAGAGGGACAAGGGGTGAGGGAGGCTGCCTAGGCTCTCAGGGAGCCTCTACCTTCCTGCAGTCCT
TGCTAACAACGTCTTCTCCTCTGCAGACCCCACACTGTGGACACAGGAGCATGTGAGGCAATGGCTGGAGTGGGCCATAAAGGAGTACAGCTTG
ATGGAGATCGACACATCCTTTTTCCAGAACATGGATGGCAAGGAACTGTGTAAAATGAACAAGGAGGACTTCCTCCGCGCCACCACCCTCTACA
ACACGGAAGTGCTGTTGTCACACCTCAGTTACCTCAGGGAAAGTAAGTGCCGCCCAAGTACCCAGGGCTGGGAGGAAGCTTGGCATGGAGCCAA
CCCAGGGAGAGGAAGTCAGTGCTGCCCGTTCGTGTTGGGCAGATGCCGCCGGAGCAGCATCGTGGGGCCTGTAGTGTTGCCAAGGTCACGTGGG
CTCCTACAGACCCTGTGAGGGCAGACCCAATCCTGAAGTGTCAAAGGAAGTAAGACGAGAAATGGAGAAAAGTAGAGAGCTGTGACCTGGAGG
GGTCTGGCAGAGGCTGGTTACACTCTTCCCATGAGACCGCCTTTCCAGAAACTATTCCAATTTGAAAATAGATAGAGATGGGTGGTGCCCTGGC
TGGTGTTTTCCTAAGTGATTATTTAAAATTCCTCCAGGAAACTCTAGATTCAAGGCTTTTGGATTTAAGGTGTTGAAAATAATTTACATATTAG

CTTCCTCTTAATCTTGGGATACTCTGGCACACCCTAACCCCATTTGACAGGGCTGCTATCTGCACACTTCCTTGATAAGGAAGAGCAGCCAAAG
GTGCAGGTGTGTTAGGATCCATTGGAGGCTTTCTTCTGGTACAGCCAAGAAAAGGAAAAGAGCTTTGGAAAGGGCGAGCTTAAGAAAGAAAGCA
GGCAGTTGTCCAAGAGATTTATCTAGTATGAGGTACTCTAGCACCAAGCGCCCATCCGTCTGATATGAATTTCATTTGATATGAAATATACACA
GAGCAGAAGAATGGAATTATTTTAGTCCTGCTGGTAACCTCAGCCTGAGTGCCCTGCTGGGAATCCAGGCCAGGTGGTATATCAATATCAGTGC
TACCCCTAAGTATGGAAGGATTGTCCTGGGGCCTGAAAAGATGGTGCTAGGATCACAGGAACACAGGTTTGGGCTCACACTACGTAAGAGCATT
CTAGCAGCCCTGTGCAAAGACAGGGCAGCCTTGAGATGCTATTTGTTGTGAATGGCCAAGGCAGCTGCGAGTCTTGCAGGAGTTTAGCTTTGGG
CAGGGGCTTGATGATTTTAAGCCCCCTTCGCAAGTTCAGATCCTTAGACAGCAACTCTGGGACCTGCTTTTCCTGGACTGGCTGGCTCTGGGTT
GGTGAGCTCTGTTTGCTCGCCATCGTTCTGTGGACCTTTAACTCCCCATCTTTGGAATCCACTGTCCCTTCAGCGACAGTGTTCCTCATGGGGC
AGGGGCAACACGTGCTGGCTGGAGAAATGAAAAATCAAAAAACTGGCTTTGGCAGTTTCCACTGGTGCCTCTGTGCTCTCTGGTCACCTTTCCG
AGGCGTCTGGTAACTAGTGCGAGAAAGTAGATGATGCAGTATTTGTTAGCTCCGGAGCAATTACCTCATGTCTGAGTCTTGCTGCAACATGAGG
TCAGCCCAAGAAACAATTTCAAAAAAGGGGACAATTTTCCACCCAGTTTTTCAGAGCTTTGGATAATTAGCACTTTCTAATTCATATTTTCAGC
TTTTAACTGTTTGTGGAATTTTAAAAAATAAGGATCTTTGAACAGAGTCCTGCAGTGATCTAGGCAGGCCAGGGTGGGTGTGTGGAGGTTAGCA
TGAGAAGGAGAGACCAGCAAAGCAACCTGATTCCAGCAGGAGTTTGCAGGAACCCTAAGCCCTTTCCTTCATTTGCCAGGAGTAGAGAGGACAA
CAGTAGCATAGACAGCATGCTCTGAACTGTTAGTTAAAGGGCCCAGTGCTTCGAGACTCTTCGGCGGATGCCCTTGTTGGGAGAATGTTCAAGG
CATTCTCTCCATGTGGGGAAAGCCCATTCATGCCATATGACCCCGGGGCCCTAACCAGTCCATAAACAGCCCAAGGTCCCCTAGTACTTCCTGC
CACCGAACAATGGGAACACAGATGCTGAAGTGAGACAAATGCCTGAGAAGGTGGTCACTGGTCGCCAGTAGAGAGACCTTCTATTGGAGAAGAG
CAGATAACAAGGTTGAAGTGGAGGTGCAGAGGATGGCATTTTGGGGGGTATAGCATGGCAAGAAAAAGCAAATTGCTTCTTTCTTTTTAAGAAT
ATTTATAGACAGAAAGTGCCCCCAAATCAATAAAAATATTAGGTTTCCCAAAAGGGACTTATTAGTGGAGCATATTTCCAGAGTGGAGAGGAGG
TGGAATCCAGCTTGTATACTGAAGACATTTGAAAATGCAGGGCAGATATCCAGAGTTGAGGATGGTGGCGAACAGTAGTACATCCACAAGATGG
GAAGTAGTTGTTCTGCCATTGAAATGATTATTGGGAAACACCATGAGAAGTGCTTAGGATACAATGTTGGGTGGAAAAGCTCATTATAAAGTGG
TCTGTGCACTGATAGAAAAACCATGTCTGCCTGCGAAAGCAAAAAATTAAAATAATCGTGTTAAATTAAAAAAAAAAAAACCTTGCCCCAACAT
GGTATTGAAATATCCTTTTGAGGAACCTAGACTTAAAATGATCCACTGTCAGGGAAAAGGCTTTTAGATTCATGCTGCTTTTTAATTGGTGTCT
ACCTTGGGGTTCCAGCCTTGGGGACCCTCTAGTGTGAGGTGGTGGCTGGCTGCTAAGCGCCTGCAGGAGGCCATGGGCTGGCGATCGTGTCTGC
TCTGTTTCTGCTCTGGATTGCTGGGAACTCCCCCGTGACAACCAGCACTTTAAACGCTTTTAAAGCCTTCAAACACTTTATTGTTTTTCCAGAC
TGACTTCCAGTGGATGTTTTGTGCTTAGGTGGAAGGCCAGTGCTTGCGGAGAGTTTGAGGCGATGAGTCAAGGCAAGGGGAGAGGGTGCTGATT
CTTTGTGCTTTATCATCTTGTCCTTTCATTGGAGAGGAAGGTGGGGCTCAGATATTTCCACTTTAGCAAGAGATGGATGGAAAATAGCTGAGAT
CCTTCACTCCGGTGGAGGAAGTACTGCAGGGTGAAGGAAAGTTGATAGAGCAGAATCGGGGACCTGAGACTGTGGCTGGTTGGAAGTCAGTAGA
GTCCAAGTTGGTGGCACTTCTCTGATCTAATCTTTCTGGGCTTTATAGAAAGTCTAGAAAAAGGAAAACTTCATAGGATAAGAAGCTTTGGCAT
CAAATTTACATTTCACAAAAGGTGCTTGACTATTTATTCTGGTGGTTTGGGAGGGGAGCTAGACTTTTACATTTTAAATGCAAATGTATTTTCC
AGGGTAGAGAAGAAATAGCAGTTCCCTGTGCCCCTACAGACCCTGTCTGATGGCCAGGCATGCTAGGGAGGTGCTTGTTCTTCACACCTGGGCG
TGTCAGCTGTGCCAGAGGAGCTGTGTCACACGCCACACAGGCGCCCACCCCTCCCCCCCACCACCACAGGAAATGCAAGGAGGACTGTGATGGC
TGGGGTGGCCACGGTTCTTGGGGGTAATTCCCATGAGTCCTGGGAAACTCCAGGGTTTACACCTGTCAATCCCAGCACTTTGGGAGGCCAAGGC
GGGTGGATCACCTGAGGCCAGAAGTTGGAGACCAGCCTGGCCAACGTGGTGAAACCCCGTCTCTACTAAACATACAAAAATGAGCCAGGTGTGG
TGGTGGGCGCCTGTAATCCTAGCTACTTGGGAGGCTGAGGCAGGAGAGTCGCTTGAATGCGGGAGGGGGAGGCTGCAGTGAGCTGAGATCGCAC
CACCGCACTCTGGCCTGGGCGATAGACCGAGGCTCTGTCTTCAGAGGAAAAAAGGTTGCCCCCTTGTGGACAACTATCTACAGTACCCATTTTG
AAGCTGAACCCACTGAGGCCCAGACAGCTTCAGAAATTGGTTCAAAGGCATCCAGCCGATTGAGAGCACCTGGCATCTCAGACTAGGGCCTCTG
GAGTCCCAGTCCCTGGCCTCGCGTTGCCGACGTTCCCCCGGCCCTGGAGACAGCAAGCCAGCCTGCGCCACACAGGCAAGGCAGCCTCACTCCC
GGCCTTCCACGTGGGCAGCCCGGCCACTTCCCCCACAGCATTTTCTGTTGTCATTTGTACCAAGAGATAAATGCTTTCCAAAAACTTTCCTGTG
GCCTCCTGGAAGGAGGCCGATTAAGCCAAACCTATCACCACGCTAACTTTGTCCTTCTCTGGGCCTGACTGTCGGCCCCACCAGTATCTCTCCC
GGACACACCCCGTGTGGCAGAGGAGCCTTCGCAGCAGCTGCTGCGGGAACGAGATTTGTCCCTTCTCAGGCCAAGGCGGGGAAGGACCTCGAAG
AAACGGAGGGCGCCGGGCTGGCAGTTCAGGCTCAGGGCCGCTGGGGGGAGTTTGCGCAAGGCTGGGAGCCCCGAGGCCCCGGGGGAGGTGGGGA
GGCAGAAAGAAAAAGAGCCTTTTTTAAGTTTTACAAACAAGTTCGTTTTGTATGTCAATCTGGGTCTGACCTGGAAAAAAAAACACTAAGAAAC
TGCGTCTTCAAACAGTGGCTGCTCAAAAGAATGAAACTGCGCGACCGGGAGACCACGGAAAGGGTGTCTATCTTCATTCCCATTTTTAATTTAA
ACTTTAATGGAAAACACATTTTGCATTTTCTGGTCTTTCCACCTGCAGCCTCAGATGGTCGGGCAGAGGTTTTGGGTCTGGGCAATTAAGCTGG
TGCAATCTTATCACTTCCAGGCCTGGGTTTGACTGGTGAAGGAGAACAGAATGCCAGCTGAACAAAAGGCCAGGTTTCCCTGGACCCAGTAGTC
AGCCAGGATTGTTGTTTAAAGATCCCAGAGCCTTGCACCCTCCCGCTCCTGCACACTCAGCCAGAGCTGTTGATATAGCAGTGCAGCCCAGAGA
AAAGAGAGACCTGGATTCAATAGGCTGGCTGTGAGGGGGCACTGGTGAATTCTATGGTCACAGCGAGGCAGGAGACAAAGGCTTTGGCACTGGG
ACGCTTGCGCCCCCTGGCCCAGGTGTCCCCGATGAAAAGCAGGTTAGGTTGAGGGAATGTGAAGCAGCAGAAACCGTGATTGTTGGGGTTCTAC
CCCACACCTGCAAAGCCTCACACTGCTCACTCCCCTCTCCTTTCAGATCCAGGTACTGTCTCTAGCAGCACATGGATTCAAACATGGAATGGAA
AATGATCTTTTCCCCATGCTTGCACTTTGGGAAGGCCATTCTATTCTCAGCAGGAGCTACTTTATGCTTTTTAGAGCAAAATGCCCTCAATAA
ATAGATATATGTATATGCATACACACCCATATACAAATATATACATACAAACACATATACAGAAACTTACAAATAACCAAGTAGGCAAATCTTA
TACTTCAGTTTGAACTGAAGTACAACACAGAGAGAAGTGCAAAAATCATGAAGTGCGCTACGTGAGACATTATCGTGACGTGAATCCACCCACT
CCCATAAGCACCTCCCGGGCCAAGGAGTAGAATTTCAGCCCCCTGTACCCTCTCTCCACCCCACAACCGCTTCCTCCACAAAACTAACCACCAC
CCTGCTTCCCAGCCCCATAGGTGAGTTTTGCCTATTTCTACGATTTAGCCTGGAGGCAGTGGGATCTGCCAGATTGAGGACAGGTTTTGTGAAT
AGACCACGATGGGGCTCCTGCCTTCTGCACTCTCTGGCTGTGTGATCCTGGGAAAATGATATGACTTCGCTGAGTGTTGCTCCTTTCATCTGTA
AAAAGGAATAAGGGAATGCTGGCTCTGTATGGCTTATGCAAGGATTAAGTGAGAAAATAGATGGAAAGCGTCTGGCACACCGTGCATGTTCAGG
GAGCACTGCGTCCCCACCACCACCTTCATCATGGCCTGTTTACCCTGATGTGCTGGCATCGGGAAGGTGGGGGAGCTCAGCAGCACAGGCCTGT
GGCAGGGTCAGGCCAGAAAGAGCCTCAAGGCAGGAGAAAGCAGTCCAAAGCCACAGAGAGGGAGGCCAGACTCCAGGAGGACCTGCCTGCATCA
GAACAAGTTCCTTAAGAAAACAGAGCCTGGGGAACTAATGAAGTAGAAATCGGAGAAGAGGAGGGAATCTAGGTCCCTTGGGAGAGAGGCCAGA
TGCCCCCAACCAGCCCCTCCTTGGGGAAGGCAGCCTCTCCTTCTAGGAGTGAAACTTGAACCAAGAACAGTCTTTAGGGCAAAATCCTTTTCCT
AGGTTGCCATGAAATATGCATTTCATGCAAGCTTTGGAGAGGTCAAATGACCCTTTCTCTCAGCTTTCTGGGAGTTTCCTGTGGAATTCATGTG
TGCCCAAAGAAGAACTTTCACCAATGGGGAAATTTAATAAATGTGGTTTATCTAAGGTTCGTGCTTTCGGCTACATCTGCACTAATGACTCAGG
CAGTTTGCTCCTCGGAGACCATCATTTTTCTTTATTTGCTCCAGCAGTGAGGTTTCAGCCTGAGGGAGAGAACGTCAGGGACGGAGAGGCAAGC
ATTCTTGGTCCTACTTCTGGGATTTTTTTGTATTCCCTCCGAACATTTGGTTCCATTTCTTCACTTCCTTCCAGTCGTGCCGGATTATTTCTTA
TTGCAGCAGAACCCATTCATAACTTTAATCAGAGGACAGGACGAATGTTCAGTAAACGCATGTATAAAGAGAACTATTGTATGTAATTGTGACA
TCTGTGGGAGAAAGGATGTAAAAATAGTAACGATCATAGCTAGCATTTATGGAACACTTATGAGCCAAGGTCCATTCTGAGCACATTGCATGCA
TTATTTGATTTAATCTTCATAATGCCATTGAGTGGTGTTAGCCCATTTTACAGATGAGAAACTGCTGGCTCAAAGAGATGAGGGAAATCAGTGG
AGGGCACAAAGCTAGTCAGTGATAAGAGGCAGGTCTAATTTTAAAGTCTCCTTTGCTTAATAAACATACAGTCGTGCTTTGCTTCATGATGGGG
ATAGTTCATCTTCATGTGAATACCACAAAATGTACTTACACAAACCCACATGGCATAGCCTACTACACACTGAGGCTGTATGCTACAGCCTGTG
GCTCCTAGCTTACTAAGCTGTATAGCATGTTATTGTACTGAATATAGTAGACAACCGTAGCACAATGGCAAGTATTTGTGCATCTAACTTTTAA
AAGATACAGTAAAAATACACTATTACCGTTGTCGTATATGTGGTCCATCTTTGCCCAAAACATCATTTTTTGGTGTGTGACTATTAACAGGAAC
TTGTCCCAGCCTTACTTTGTCATTGGTATTCTTGAACATGGAATAACCAAATGTAGCTGGCTCTTGGATGTTATATTCATGTGACTGTCTCATT
TCTAAAATGGCATCCACATAGCCACACTTTGGCATACAGCGGGCTCAATACCACCCCCGTCATCCCCCTCCTTGTTTTCATCTGGAGCTGCTGC

AGAGCTAGAACTAACAGTCATATTCTAGGCAATTGGACAATTCTTATAAAATTCTCTTCCTCTGCCGGGTGCGGTGGTAATCCCAGCACTTTGG
GAGGCCGAGGCAGGCAGATCACCTGAGACCAGCCTGACCAACATGGAGAAACCCCGTCTCTACTAAAAATACAAAATTAGCCGAGCATGGTGGC
GCATGCCTGTAATCCCAGCTACTGGGGAAGCTGAGGCAGGAGAATCACTTGAATCTGCGAGGCGGAGGTTGCAGTGAACTGAGATCGCGCCATT
GCACTCCAGCCTGGGCAACAAGAGCGAAACTCCGTTTCAAAAAAAATAAATAAATAAATTCTCTTCCTCATCGTCTGGCTTGGATAGTGCACAC
ATTTTCTCTGAGGCACACAACCAAACGCCCACAGCTGGGTGAGGCGGCAACTCCATTTCGGCATCCCTTCCATGACTGGAGACTAAAAATAGGG
GTGTGTCTGACAGCCCATTCCCACCCCTGGCACCCAAGCCAGTCCACTCGGCCACAGGGAGCGGGGAAAAGGGTTGTTTAGAAGAATTTTCTTA
GCCTCGAATACATGTGTTGAGCTTATGGTATGTTTTATAAAAGCAGATCCCAGCCCTCGTTTCAAGGGCTCTTTAAGATTTCCTTAGGAGAATC
TCAAAGAGAATGGCAAAAATGCCTAAGTTTCACAAAATACAACCTTGAATTCACTTTAAACAAAGGAAAAAGTCTAGTTTTAGGAAAGAAGGGA
GAATGTGTTTTACATGTAACAACAAATTGCTTTTTCAAAGTGCTGGGTACAGAAGAGGTATGAATTGAAGTTTAATTTGAAAAGATTGGATATC
AGCATTCTGAGATTACAGAAAATTCAACGCGTGACTCCTCAGGTTCAGTGCGTGCTCTTAGACATAGGTGAAGGGAAGCAAAAGTTCCTATTGG
AATACTACCACTCACCTCCTTCCCAACTCCCATTGCCCCCTCCACCAGTAACATACCTGTGTACCTTACCCTCACCTGTGAAAGGACCCATATG
TACATAAACCCAGAAGATACCACAGCAGGAAGGAGTGATACTGGCTTCTCCTCCAGGCCATGGCAAAGTACAAGCTGCAGGCCAAATCTGGCCA
AAAGTGGCCCATGGACAAAGCAAAACAAAAACTAAGAAGACTGTGCAACAGAGATTGTAGTTAGCCTATGAAGCCAAAATATTTACTATCTCCT
TTTGATAGAAGAAATCTGCCAACCTCTGCTCTAGTTCAAGAAAAAAAATCAAAATCTAGACATGTCAAGTCACTCACCAACTGTCACATGGTGA
GTTAATAACAACTGGAATAGACCCGGGTTTACTGATTCTCAATGCTGTGTTCCTATCATGATTATGGCACAGACCACAGCGCTTCAGAACTATG
AATATGGCAGCTTAGGGGGCGTGGTGTTTGTTTCCCCAGAGAGCATTTCATTCCAAAGTATTCTGTCTCTTCACTCCATAAAGCTATTACAGGC
CTGTATGATTGTCTCCAACCAAATGGATTCCATTCGCTTTTCCTTTCTTCCTAGGAGTCCTCTGTCCCTCTTCCCCTCTCCCCATCTCTTTCCC
TTTCTACTCCCTCCTCATGTCATCTCCTACTCTTGATCTCAGAAGAACATTTTGGTTATAACCTGTTTATGTTTTGCCTCTCAGGTTCACTGCT
GGCCTATAATACAACCTCCCACACCGACCAATCCTCACGATTGAGTGTCAAAGAAGGTAAGTTTGTTCTTTTGTGCACTTAAAATTTTCTTCTG
TACCAGACATGACACAGGCCCATGCTGTTAAGGTTGTTGCAGAAAACCAGCTTGCTTGTTCCACTCAACTTTTCCTAGCATACAAAGACAAGCC
AAAGATTTTCGCCACTTGTGCTACCAGTTGCAAAAATACAGTAAAGAAAGTTTTACAGTATCTTGTAATAATATCACAAAGATACAACTTGAAG
TTGTCACTCCATGCAGGAAAACATGTTACTTTTAGAAAAAAATGAATGCTGCTTACTTTCAAAGTTGAAAGTTGGGAGTTTTCTCTGATGAAAA
TAATGAAATGAAGAGTTCAAGGATTCCAGCATGTCTACCTTTAAAGGTTTTTTTCCTAAGAAATTTTAGCAGCCGGTCATGCTGGCTCACACCT
GTAATCCCAGCGCTTTGGGGGGCCGAAGTGGGTGGATCACTTGGGGTCAGGAGTTCGAAGCCCAGCCTGGCCAGCATGGCAAAACCACCATCTC
AGCTAAAAAATACAAAAATTAGCCAGGTGTGGTGGCAGGTACCTGTAATTCCAGCTACTCAGGAGGCTGAGACATGAGAATCGCTTGGACCCAG
GAGGCAGAGGCTGCAATGAGCCGAGTTCGCGCCACTGCACTCCAGCCTGGGCGACAGAGCAAGACTCTGTCTCAAAAAAAATTTTAGCGATGTC
AATTCATTTTTAAAGTGGTGGCTTAAGGGTTTGGTCTGGTTTGGTTTGGTTTTGCTGAGAAAGAAAACTTCCTCGGCAAATGATTTTTGCCAGT
GAAGATTTTAGTACACGTCACAATAGAATTCCTCAGCGTCTTTATGAAACATCGTGAGGAGTGGTTCAGATACTGTTAGATTTCAGGCATTGAA
ACAAGTGAATAATTCATAGTACCTGGTTTAAAGGAGGAAAAGATGTGAACAAATAATTATTAGGAACCAGAGAGAGACTGGAAAAAATATTTGC
GCGGCATAGCAAAAATTCCACAGAGGAGGGGACTTTTGAATAGGAGCTTGAAGAATAATAAGAGTGTGGCAGGCACTCTGTCCTCCTTGGCTCG
CTGTCTGTCCCCAGTTTTTCTTTAACTCACCCTCCCCAAAATATATAAGAAAGGCAGAAGTTCTCAGGATCAGTTACATATAGCACAGCACTGC
AAAACCTTTCAGAGAAACAAAGGCTCTTCTAAGGGAAGGACCATTTGGCTTAAAATCCGCATGGGGTGTGAAGGAAACAGAGAGCCAAAGGCAC
TAGCTGGCTGTCTTGCCCAAGGTTACAACTTTGATCACACAGCACTTTGTGTTTCCTGTTAACAATTTATAATTTAATAATGACCAGAACATTT
AGTGGAAGAATTATACAACATAATGAATCCGCTTTTAAACATTTGTGTTTTTCATTTGTTTCCTTCTCTCCTATCCCACCCTGAGCCAGTCCTG
TTTCTGCCACTGTTTTTCCTTTCCAAATCAGATTTCTTGAGTTTTGTCATGAACGCTGAATTTCTATGGATTCATTCTACATTGTGAGTCAGAT
TTCACTTTTTGACCTATTTTAATATGCTGTTGCAAATGTCTGTAAGAGAGAAAATACATTTTAGTGGCAAACGCATTAGATTGAAGGTCAGGGC
ACCTTTGGCTTCCTGTGAGAAAACCACTTCAGGCCCTGAACCTCAGTTTCCTGCAGAACGAAAGAGAAGAACTCTGTCAGCAAGAGGCCAGCCC
TGACTCTGGAGATCTTGGCCTCTAAGGAGATGACAGGAGCACTCACATTGCGAGGGCTCAAGAGCCACTGTCCTTTGATATGTTCTACATACTG
AGTTTTATTTCATTTGTGGATAGGGATCCACTTTTTGGAAGGAAGGAAAAAAGAAGGGGAAAAATGACTAGAGGGAGAGAGAGAGGGAAGGA
AGGGAAGGGAAGGAAGATAGGGAGGGAGAAAAGCAAGGCTATAAGGAAGGAAGGGAGGGAAGGAGGAAGGGAGGGATGGGAGGAACCCTAACCT
CTGAACTGCTGAGTTCGGATTTTTGTAAGTTTCTCCAACACTTCAGGCTACAACCTGCTACCAACATCAGAATTAGCCAGTGAGGCTCTGAAGC
AGAGCTAATGAAATATTTTCTGATATTGGGCTTCAGATATAGGGTTTAGTTTAGAAACTGGTTTAGCCAAGTTGAAATGTGTTGCTAACCATCT
CCTCCTCCTCCTCCTCCTCCTGCTGTCTTATTGTTCAGCCGTGTCCTCTACCTGCCATACACATTTCCTTCCCTTGGCCCTTTTGTGTTTA
GGGAGGACGTTTGTAACACTGCTGGCTCATTCAGGCTTATTGCAGGAGCAGCTCCCTCTTGCTGGGTAGCAACCCCTCTTCTGAAATGAATTAA
CTGTAGTATCCAGGCAAACACACGCTGCCAGGACCTCATTCAGGTGGTGCCGGCATTTATCTCCCAACATCGGGCCTGGCCTCTAGAGACGATT
AAGCCTGTGCTTTGCAGGTGCATCTTTTGTCCCCAGTAAAGCTCTCCACTTGAGCTGTCTTGCTCCTCTATGCCTTCCCCTTGTGAGGTGGTCT
GAATCTGTCTGAACGACCCATCAAGCCACAAAACAAAGTACATTAGCAAGACAAAGCTAAGCAAGCCCTCCCTCTATCCTCCCTGCCTCCTCCC
CACCTCTCACTGGCTCTCCTGCTCTGCTCTAATCACTATCTATTAGCTATTAGAAGACATCAGGCAACCTTGGCTCCATCTTCTTTGAATAAGA
CACACACAGCCCCAAACAAACCCAGAGTTCATCAAGAGCACCAGAGCTGTGTGTGTGTGTGTGTGTCTGTGTGTGAGTGCACACTGGTGCAG
TCCACAAAGGGCAGGTGCTGGCATCAAGCACAAAGCAAGGAAGTTGAGGAGATGCTGTCTATTAATGTCTTCAAAGCACTTATCAAATTAGAAT
GGCTTTTTGCTTTAAAATTGTATAATCACCCTTCCAGCTTGTCTCTTGAAAATGGCTGCAATCTCTAGGGGTTATTTGTGCCCAGGAAGTAAGA
GTAGATTTTAAAAATTAATTTAGAACAATCTTTAAGCCCCTTTAAATTAAATATTCTATGGACATGGATTGGATCCAGCTAGAGCAGTTATGCT
CTACCTTTAGTTTATCAAGGCTAAGGCACTTAAAAAAATAAACTAGGATAAAAGCTATTGTTATCCATTTACAATAGCAGCCACAACTGTCATC
TGTAAAGGGTTTTGGAATATATCAGACACCTCCACATGCTTTGCTTTGGAGCCTAGCACTGGGTCTTTGAAGTAGATATTATTATCTCTATTTT
GCAGACAAAGAAAGTGGGGTTCAGCACTATTAAGTGACTCACTGAAGGGTACACAGCTACTAGATGGCAGAGCAAGGACTCAAACCAGGTTAGA
GGATTAGACTAGAACCCCCTCACTTTCTGACAAATACAGCCTTTCTCTTCCAGCTGCCATTCTGCAAAAGCAATACCTAGCCTAAATGTAACTT
GGGCAAAGATGTGAATGTTTTGCATTACTTGATTTCTGTCCATGCAGTTTCCCACTGTCAGCTCCATCTCCATCCCTAAACTTTTCTCTCTTT
CCAAAGATGAACCAATAAACAACTTATGCTTGGCACCAGCCCTTAGTTCTGACAGCACAGAGAATCACCAGGAGATCTTTCAAAATACTGACTC
TAGGACAAACATTGCATGATTGCACTCATAGGAGGTAACTGTCAACTTTGTAGAGCCAGAAGGTACATGGTGGTTACCAGGAGCGGCAAGGAGT
GGAAATAGGGTGTTAGTGTTTAATGGGTAAGAGTTTCCATTTGGGAAGATGAAAAGGTTCTGGAGCTGGATGGTGGTAATCGTTGCATAGCATT
GTGAATGTACTTAATGCCACTAAATTGTACACTTAAAATGGTTAAAATGGTAAGTTTTATGTTACATATTTTACTAAAATTTTGTAAATGCAAA
AATTAAAATAAAAAAATACTGATGCCCAAGTGCCAAAAAATGATGCATTAATTCAGAACCTCCAAGGGTGACTCCTGGGCATTGGAAATGTTTT
AGAGCTCTCCGGGTTATTCATATAAGCCAAGCTGCAGCCAAGCTAGAGAAGCCTGCTTTATAGAACAGAGACAAACTAGAGAGAAATGAGGCCC
ATGTTAGAGCTACTCCAGATTTTCTTGGAGACACACTGGGCGGTTGTCTGGACCCAGATTGTCCTAGAAAAGGAATAGCAGGCCCTACTGGTAT
ATTGATAAAGGTATAGGTAAGTGAAGAGACTGTACGATCTTGATTAGTTTTTTGTCATTGTCATTGATGACTGATTTTATTGATGCATGATGTT
ACTGATTTAGACAACTGTACGTTCGTACATCTCAGAAATTTCTTTCTGACGTGTCCTCATTCAGTCCTCTAAAAAGTAGATATGGTGTTGGTAA
CGTGATTTTATAGGAAGGATACTGGGGTTGCAGAAGTTAAGTGGCCTTTTCAAGTGTGTAAGAGTCCTGGAGCCAGGGCTACTGACTTTCCACA
CCTTGTTCTCTCCCGTCCTCCAGGCTGCAGATGTGCGTGTGTCTGCCCTGGTCCCAGGTCAGAGCTTCCCTTTGTTTTTCTGGGCAAACCCTGC
CGGAGGCCTTCCCAGCACACTCAGCTGGCCCAGCAGTGTGCAACAATCAGCACATCTCTTCCTCAGAGCTTCTTTGCATGCCTAAGCCCTCATT
TCCTTAGTTCCTCATGCTGAATCTGTTTAAATACCCTCGACTTTCCAAAAGACAGAGGATATTGAGTTCCTTGTTTATTAACTCCTGGAACTCA
TCAACCGGCCAAGGGCCTGTGGAGCACTGAGCTTCTAGCCCCAGCCTGGAGCCTTTCAGGACTGCCATTGAACACGGAAACTGAAAACCACAGC
CCCACTGCAAGCGGAATGGCCATCTCCAGCCATTGCCTTGGCTGATGGATAAAAAGTCTGTCGGCTTGCATGCTAAGTATGGAAAAGAGAGGGG
AGAAACTACCTTTCTGTGTCCCTTAGAGTGAAATGCCTGGCTGGTGCTGAAGCCCATGTTAACGAGAGGCTGGCTTCTCTCCAGGAGAGTCCTA

GGTGGCAGGAGCCATGCACATGGTAACAACAGCATTTTGGCAGCCTGGTAGGGTTTGCCAAGCACGTTCCTATCCATTATCCCGTTTGTGCCCT
CTGGTGCCATCACCATGAGATGAGAAGGCTGGTAGTATTATTATCCCCCTTCTATAGATAATGAAAACAAGGCACAGAGAGATTTCAGGGTTCC
TTAGAAGGCACCCAGGTCATGAAGCAGAACAAGACTCAAGTCCGGGCCTTTGGTGTGTTCTGTCCTTCCTCTAGGCTGCTTCTGGAATCATTAT
CTCAGCATACTTGATTCAAGCATCTGACAACATCTTAAGGATTCTTTAATACTCTCAATTTACCGAAGGTGGGCACTGGTCTCCTATTTCAGCA
TTATAGCATACTGATTAAAAACTTGGGCTCTGGACTCAGACTGTGACCTGGACAAGGTGCTTACATTTTTCTGCCTCAGTTTTCTCATGTATAA
ATGAGGATAATTGTAGTGCCCCTTCAGGGATAATGTAAAACTCATAAATCAGCACAGTTTCTGACACACCAATAAGTGCTCAATAAAAGTTATA
ATAAGGATAGTAAATTGTTATTCTAATTTATTATAGTACAAATTCTAATAGTAATTAACATTATTATTGAAAGCTAATTACAATTTTTTTTTTT
TTTTTTTGAGATGGAGTCTCGCTCTGTCGCTCAGGCTGGAGTGCGGTGGCGTGATCTCGGCTCACTGCAAGCTCCACCTCCCGGGTTCACGCCA
TTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGTGCCCGCCACCACGCCCAGCTAATTTTTTTTTGTATTTTTTAGTAGAGACGGGGT
TTCACCATGTTAGCCAGGATGGTCTCGACCTCCTGACCTCATGATCTGCCCGCCTTGGCCTCCTAATTACAGTATCCCGCTAATTACAGTATTT
TTGAGGGTTTACCAGATGTTAACACCGTACCAAGGGTCGTGAAGGATACTATACATAGATAGCCAAGCTGCTTTAAAACTTATTCGGGGGCCGG
GCATGGTGGTTCATGCCTGTAATCCCTGCACTTTGGGAGGCCAAGGTGGGCAGACCACCTGAGGTCAGAAGTTCGAGACCAGCTTGGCCAACAT
GGTGAAACCCCGTCTCTACTAAAAATAAAAAATTAGTCAGGTGTGGTGGCATGTGCCTGTAGTCCCAGCTACCCGGGAGGCTGAAGCAGGAGAA
TTGCTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCGAAGATCACACCACTGCACTCCAGCCTGGGTGACAGAGTGAGACTCTGTCTCAAAAAAC
AAAGCAAAAAAACAACTATTTAGGGAGACACACCTAGGAAATATGAAGGAAATATAAAACTGCATGTAATCGAAAAACAACAATGCATGCTACA
CACAAGAAATTTTCTGAGTGTAATGAAGAGATGGAAAATCATTAATGCTCAAGCTGAACATCTCCTCCAAATCCCTTATAGAACAGGAGAGATC
TGAGGCCAGAGAAGGTGTGGACCCAGCCATGGTCACACAGGGAGTGAAGACAAATATATACAATTATTCCTATGTAGGCAGATGTTATAGATAC
ATGATACCTTAGTCAGGAATTGACCTAAATTCTGTGATTCATGCTCTCCTCCATTCATTCATTTCTTTCTTATGGAGAATCTTCTCTGCATAGA
ATACCAGGCTGAGCCCTAAAACCATGGTGAACACAGCACACTACCTACCCTCAAGCAGGTTCTAGTCAAACAGAGAGACAGACAGCTAAGTAAG
TAAGGAACTACTGTGCTTTAGAGTGAGGGCAATGCACGTATATTACCACGTCTTTCAATTTTCCCCTGCATTTAGCTCCTGTGTGGATGTCCTT
TATGATTTTAGAGGTCATAGTAAAAGATGGAGGCCTCTAGCAAGCTGCAGCATGGCAGGGCTGGAAATAGATGTTGAAGCAAAGGGAAGGAGGA
AGGCACCAAGGAAACCAGCGTGTTTGTTGGGGTGGGTGTGTGAGCTTTCAAGTTGGGTTTTGGAGACAGGAGCCCAGGTGAGCCCTTGCAGGAA
TAACTGAGGCCTGGGTGTTTGATGTGGGTTTCAGGAAGACACCCTGGGGTAGAACCTGTGCACCATGGCTTCCTGGTACCTGGAAAACCGGGTG
CAGTTGGATGTTTCATTGTGAGACAGGAAGCTCAGCGAAGGAGCGGAGAGCCAGGGACTTGTGTCAAAATCATTTGGCCGGGGAGGGCGGAGTA
GGTGGGCATGGAGCTGAAATAAGACTGACCATGAATTCATGATTGTTAAAGCAGGGTGATGGGGCCTCAGGGTTCATTAGACTTTCCTCTCTAC
TTGTATATATCTTAGAAATTCTCCGTAACTCAAAAAATGCCTCAAGATATCTTTGCCTTATTTCTCCGGGCGAAGAGTTTCCTGAGGAGGGCAT
CTTTGTCCCTCGCGATATGCACTGCCTGTGTCAGGCTGATGCGCTCCCGGGTGCAGTACTTGGGAAGGCGGGCATTTGGCAGCCTTGTGTGTGT
GTCTGTGCAGGAGGGCGTGAGCTGGTGCTCAGTGTGGAGGTGGGCTGTGTGTGTTGCCTTGTAGAGTGCAGCGTATGGGGGCTAGGTCTGGAAC
ATGTGTACCCAAAGGAAAAGGCCTGTAATACTGTGAGGTAATCTCCTGTTATTTTTAGGGAGTAAATAACATCTCTCATGCAGCAGGTTGTGTG
ACCCCACAGGCCCCATCTACGTCAGCTCACACACACTTCAAATTGGAGGGTATCGCGGCCTCACAGGAGAGCCTGTGAAGAACATTGTCATTAT
ATGTTCTTCCTTTATGATGAAATGTGCCTAAGCCATTCTTAGCAAAAGCAGGGATGATTGCTGGATGTGTGTGTGTGTGCATGCATTCGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGTGCACGCGCGCTGTTTCTGTGGTCCAAAGGCAAGATTTATGATTATGGGATAGACAGTAGCTTGCTCTC
TCTATTTTATTTTTTAAAAACTGTTTTCCTTTGAAATTCCTGAGTTAATGTTCTGTCTGCTTTCTATCTGACCCTCTTCGGAGAGTTGCATTTT
TTTTTTTTTTTTTCACGAGAGAGAGATTAAGAGAGAGAGACAGAGAGAGAGAGAGAGAACGAGGGTGACAGAGAGAAACAGAGATCGGGGG
AGGAGGGAGAGCGAGAGAACTGGAAACAAAGACTCGTTGTCTCTAAGCTGGAGCAGGCAGGAAACCCCAATCCCTCGGGAACTTAGCCAGCCCG
CCCTGTCCTGGAGTCAGACTCCAGCTCTCTGAATTCAATTTGACAGCTTGTCTGGGACACTTTCTAAGTAACCATTATCCTTCCTTTCTCTAAG
TAAAAGGACTGTTATTTCTTTTCGTGGGTGTGCTGTGCGAACTGCTATTGCACACGTGTGGCTCACACAGTGACTAGGACACACTTTCCTCAAA
TTATTGGAAACAGCCCGTTTCCTAAGACAAGTGTAAATTTGTTCCAGGATAATAAGGCAAAAGACTGAGTATCAGTCCACTGCCTTATTAGAGG
TGGGCCTATTCCATTAGAGGAGGAATTTTGTGTATGTAGGTTTTACTTCTTTGAGGATTCTTTTGAAATAGACACAAACAACAATATCTCCCAA
TGATCATTCTCCCCAGTTTCTGTGTTAATTGGTGGATTAATTTAATGAAACGCATCACCATACATCCCACTGTGGAGGGAACTCAGATGTCCTC
AAAGCTACCAGAGGTTGTGCAGGCCACGGGCACAACTAGGGGTGACCACCTAGAGTTCAAAGGAGGCTGTCTTCTGCCTGGGAACAGGGCCATC
CTGGGGTTTCTTTTAATTACTCAGACCCAGTTGAGTCACCACCATAACCTGAGGGACTGTGAGGTGATCACCTGCCCTTCAATGTGTTCCTATT
GGAAGACCATCCCGATTCAGCTCTGTGGGACCGCTAGAGACAAGTTCCAGAACTGTCTGGATCCCCCTGGAGCGTAGAGGTGTGATAGTTTTGC
TCAGTAATACAGCTTTGCCCATTTAGGTTCTGACCCAAAGACCTGTCCTTCAAACATGACTTGGTTCCTGTCTACTCTATCTTCAACCACACTT
TGGAATAATGTTTCCCCATTCTTCCTTTGCCGGGTATACCTTTCATCCGTCTCAGTCCCCACCCCCAGTCCATATTCTAGGAAACCACACTCAC
CCTTTAGGGCCGTGGTCAGATCAGACAGCATCACCTCATTACGGTCTTGTGCACCCTTCCCCAGGATGCTTTGCTTATACCCACTGTTTTACCA
ATACAGCATTCAATAGATTCTAGCCCAGCAGTCTTCTGTCTTGTGAGACGGGAAGCGTCTTGAAGGTAGGGACTATTGGATGGATGGATGAAAA
TAATAGGCAAAGTACCTTAAACTGTTCCCCAGCAGTCTGGTGTAGAACTAACCCTTTGAGATGTTTCTACAAGGTGGATGTTTTGGCTCTATCC
ACTGCAGCTGCTGGTGTGGCATTGCCTTTCCTCCCTACCCTGCCCTAAATTTCCATTGCATGGGACCCCAGGGTGGTTCCTTGGAAGCTGTGAT
CAGTCCCATCCCTGAGCAGGGAAGCAAAACTGATAAAGAGCAGATTTCAATCACAAGATGATGGCACCAGAGCCCCTTCTTGGCCCAACCACCG
CAGGATCCTGCTGCCAACTGGACTCCACAGGCCCTTCAGGTCTCTGCCCATCAGGAGGAGGCTGAGGACACGCCAAGCCGAGGAAAGGTGACGC
TGCAGGGAGAATGTACCTTCTGCTCAATTCCACCTTCCTTTCTTCACTTATGCCCCAGACAGCCACAATAAGAGCTAACATTTGTTAAGCACCT
ACTATGTGCCAAGAAATTTCCTATTCATTTCACATTTATCCTTCATAAAACCTTGTTAAGTTGGCACTATGATTATTCCCATTTTACCTGAATC
ACAGGTATGATGTTAAGCCTGAATCACAAAGCTAGTATGAAACAGAAACAGAAGAGAGCCTGTTCCTGTAGTCCCCTCCCCACCTAGGCAATGG
CAAGGGCTCCAAAATGACCCTTTCCTACTTCATCTACCACCCCCATCATGCATTTCCCCCAAGTAGCTGATGTTGTCTAGTTGCTAAGATATAT
TCATCTATTGACTCCTGCTACCATCTAAAAAATCAGGAGCCTGACCCAGTGCAATCAATCTTATTTGCATTTCAAGAAGCAATCTAGCAATTTA
GAATTTTAGAAATTCCACTATAAAGAGGTTGTTTGCCAGGTGGGATGGGGCGGTGGTAATGGAGCTGCAAAGTATATAAAAGAAACATGCTTTG
TCCACGCTTATCAGTCAAATTCTTTCTTTCTATCCATCCCTGGAGAGAGAGAGGGAGAGGAAGCTTCTTCCATGCCACATGGAGACAAACGGGC
TTCAGACATCTTCTAGTGAAAGACCAACGTATAGGAAGCATCATTTGTGGTGGTTTCACAGATTTTTTTTATTGTTACGCTTTATAATTTATAT
AATTATACACATATCCTTTTGTGTTTAATACTACATTTAAGAGGATAAAGGAAAACAAGAGATTTAGAAAACAAAGTATTATATTGAGTAACAC
TCTATTGATGAGAATTTCAATAAACTGAATTTAAGAAACCATCCAGGCACAGTGGCTCACACCTGTAATCCCAGCACTTTGGAAACCCAAGGTG
AGAGGATCACTTGAGCCCAGGAGTTCAAGATCAGCCCTGGCAACACAACTAGACCCCATATGTACAAAAAATAAACAAAAGTAGCCAGGTGTAG
TGGTGTGTTCCTATAGTCCCAGCTACTCCAGAGGCTCAGGTGGGAGTATTGCTCGAGCCCGGGAGATCGAGGCTGCCATGAGCCGGGATTGCAC
CACTGCACTCCAGCCTGGGCAACAGAACAAGACCTTGTTCTCAAAAACAAAGCAAAATAAGAGTGGGGGTGGATAAATTCAATAAATTTAATAA
ATTTATTATTTGAGGGAAATAAAGTTTCCCTCAAATAATTTCATGGGTCTATCAGTTTCATGGGTAATCCTCTGCCTCTGTAAGCTTCATAAAC
CCATGGTTCCCAAGGAGAAGAAGGAAGAGATGTCAAAATCAACTTAAAGCATCTTAAAGACACGTCCAGGATGCTCCAGCTGCCCCACCCTGCC
CCGTGTCCCTCCATAAATTCACCTGTGCCCTTGGTAGATGAAGGAATGAGGAGAAGGTTGGAGATGAACACTTGTGTTCTTAGAAATAATCTCCT
TCCATTGCTCTGGAATGCCCCACCCCTGCCCTGCCCCAGTATTGAGAGCCAGGGCTTCATCCCAATGCTTAACTGGAGAAGAAAGGCACCTTCC
TGCCACTACAGAGTTCGCCTCTTCTCACCCCTGTGCCAGAAGGCTCCAGGCCAGGCACTGCTCCTGACCACTCAGAAGTTCCCACTTTGCCCTT
TCTGCCTTCCCTGGGCTGTCTTTGGTCTTTCTGCTTATCAGAGCTGCCCTTAAATGCACCCTGAATAAATCAAGACCCTCATAGGTGCCCATGT
GCTCTGCTACATTAATGATGGTGACAATGAATGCATGAGCCCTGCTACATTTTAGTAAAGGACGGTGACATTAGGTAAACCTCCAAGTGGGGCA
GGGAACTGGTGCCAGGCTGTGGGACTGTTGCTGGGGGTCTCCAGAGCACCCTCCCCATTCGTTCCCATTGGACTCAGCCCAACAATGACTCCTC
CCGCACTGCCAAGAAGGGGCTTTCATGACCCTGAGTGCTTGGCAGGGTAGAGCTCCACTACAGTTCTCAGTGGCAGTTCACATCCACTGGTTGG

GCCGTTTGGGTTTTGCATGTCTTCTAATTTATCTGCAGACTCTGGGATGTTACTATTTTAGGCCTGCCATCTCTACCAAGTTTCCCCTTGACAC
TACACGCTCATCCCACTCCAGACGACAGAGCGAGGACTGCAGATGCAGTTGGCCTTGCTTGATGCAGCTTCATTGCTATTGCTTGGTTCACAAT
AGAAGTTAAAAGTGATCCCCGTTGGCCATTTAGAGGAGAAGGGTCCCAAAATACTTTGGGAAAAAAAAGGACAGGCCTATAATGCTCTGCCAGG
GGCCACCTCAGCACAGAGTGTTCCAAATGTGTTGGTTCTGCCTAATATACTGATTTAGAAATTCCACCACATGGAGGTTATTTGAGGCGATTGG
TAGCTGGAAGGTATTTAAAAGAAACTTGTTTCACCAAATTCTCATCAACCAAATTCTTTCTTTCATCTATCTGGAGAGAGAGAGAGACGGAGAA
GCTTCTTTTGTGCCAGACAGAGATCTATGAGCTTAGGGCATCTTCTAGTGAAAGGCCAATGTATAGGAAACATCATTTGTTATTTTAATATAAA
AACCTTTCTAATCCCTTTTTATAGATTGAATAACTCTCTCTCTTCAGAAGCCCTTATCTAAGATAATAAAGAGCATATTTCTCATGAAATATCC
TTGTTGGAGAAAAGAAAGTCCTTGAGGAGGAAATATGGAGGCTAGAAACACTACCCAGGTTGTGAGTGGGCTTTTTCTTTCTTGTCTCAGGGAT
CTGTAAGATCGAGAAGTTTAACATGGGTCAGGTGTGGTGGCTCACGCCTGTAATCTCAACATTTTGGGAGGTCGAGGTGGAAAGATCACTTAAA
CTCAGGAGTTCAAGATCAGCCTAGGCAACATGGGGAGAGTCAATCTCTACATCAAATAAAAAAATTAGCCAGGCATGGTGGCACGGGCCTGTGG
TCCCAACTATTTGGGAGGCTTAGGCACAAGAATTGCTTGAGCCTGGGAGGTCAAAGCTGCAGTGAGCCAACATTGCGCCACTTCACTCCAGCCT
GAGCGACAGAGTGAGGCCCTGTTTCAAAATAAAAATATTAAACAGAGGCTTAACATGCCTCTTTGATAAAGTTTAAATTCTTGTATTTGGCATA
TTCTAAAGAAAAGATGGTAAAATTAAGTGGGACAATTACTTTATCTGTCAAAATCCAACACACTCTTCAAAACCCGATTCAAGTCCTATCTGCC
TCAAGATATGTTTTTCTTCCTCCTTAAGACTATAGTCTCCTCTCGGAGCCTCACCTCATTCACAGGCTATTTATGGACCTAATTACAGATTACC
TTGTGGTCTTTAATTGTGAGTTTTCTCCTGGCTCTTTTCTTCCAGCCCTGTATATATTCAGTAAATACCATTGAATATTTACTCAATCCTGCTC
CAATAAAGGAAGAACCAGAAGAAATTAGCTTTGGTTGACACAAGAAAAATTAACTTCTTATGTCCCATGAACTAAACTCTGAAAAAGAGTATCA
GCTAGAGTTCTGTAGGATGCGTTAGAATATAGAAAGCAATTTTTTTTTTTTTTTTTTTTGAGACAGAGTCTTGCCCTCTCGCCCAGGCTGGAGT
TCAGTGACGCTCACTGCAAGCTCCGCCTCCCGGGTTCACACCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCACCCACCACCA
CGCCCAACTAATTTTTTGTATTTTTAGTAGAGACATGGTTTCACCATGTTAGTCAGGATGGTCTTGATCTCCTCACCTCGTGATCTGCCTGCCT
CTGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCAGCCCTAGAAAGCATTTTCATATGCATGGTGTCATTTATTCTCAAAAGA
TCCCTGTGAGGATCCAGTGTGCTATTTGCTTTTCCAAACTCTTAAATTTAGGAATAATCACACCACTCTCTCCCGCCCCTGCCAAGTATCTACC
TTTTACAGAGAGGTTCAATAAGAGGTTCAGAGAGGTTAAGTCATTTGCCTCAGACCACACAGCTCATAACTGACAGAGATGAGAGGCAAAGCAA
GGAGTTCTGACCCCCCAGCCCAGAGTTCTTTCCTTTGCAATGAGCCATTTCCCTGTTTGGAATGGATTCACGAGAAATTATGGAATTTCTTCCC
ATGAAGATCTTTAAGAGCCCTTAGTAACACCACCAACAGTCCTATGCTTGATAAATTTTAGGTATCACTCTTCCAAAGAGATGAAAATCATTCT
TGGTATCATTTTGAAAAATCTTTGAGCTTAAGAAGTCTTCGGCCTTTTGGGCCTGTCTGCAAAATAATTATCAGCCCTGCCCAATACACTAGAG
GAGGTTAGAGAGAGGCAGTTTTTTGCTATGAGTCATAATTTCAATTTCTATTAAAATTCTTACATGGCCACATATGCTACCTCTCAGGCTTTGG
GCCTCTGGGCCTGTGCTAATTTGCATGTCTGGTTTAGATAATGTCTGAGGTCCTTCCAGTCTAAAAAGGAGCCTCTGATGCTGTGATATAATAA
GTGAGATCACATTCCACCTACCAAGACTTGATGGTTCTTTTTCTTTTAACTACTGTGCTCTGTCTGATGTGTGGATGCACAGCTCAGGGACGGA
AGTGTTTCCTGCTCACCTGCCAGGCCACAAAAGAAGGAGTGCTCTTGGCCGGGCGTGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCT
GAGGTGAGTGGATCACCTGAGGTCAGGAGTTCAAGACAAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATATAAAAATCAGCCAGG
CATGGTGGCAGGCGCCTATAATACCAGCTACTCAGGAGGCTGAGGCAGAAGAATTGCTTGAATCCGGGAGACGGAAGTTGCAGTGAGCCGAGAT
TGCGCCATTGCACTCCAGCCTGGGGGACAAGAGCAAGACTTCGTCTCAAAACAAAACAAACAAACAAAAAGAAGTAGTCGTCCTTCAGCA
TGAACTCACCTGTCCACTTCTGCTACACTGAACCCAGAGACTTGTCCTTTCCTGCAAAGCATTTCAGACATAGGTCAAAAGGCAAATCATGGGA
ATTGTTGGGATTTTACGTTTCTTGATTTGAATGGCCGTTCTAATTCAACGTGAATCCAAGACCACAGACTTGACAATCACCTGATTCAAAATAT
GTGAAAAGTACTTGAGTCTTTAAAATATGGGGTTCATCTCACCTTTTACTATTCCTCTCCCAAACATCAAAGAGATGCTGTCAAGTTTCTTAGC
TAACTTTGCTATCCTACAACATAAAGCAACTCTCATGCATAAAAAACTAATTAAAAGGAATTGGCTTTCCAGAGGGACTTTGAGACCAATGTCA
GCCAATCTGTCACTTTTCAAAATAAAATTATGGAACTATGTAGAGCTCTATTTTCATAATGTTAGATCAAGTCTTTGCTCAAATTCTATATTTT
CAGAGAAGACCTCCCATCCCTGCACTGCCTACTTCCCTCCTCTGGTTTTCTCTTCTTCATAGCATTCATCGCCTTCTAATATACAATGTAATTT
ACTACTTGTCTTGAATGTCAGCTCCACAGAGGAAGGACGTTTGTCTAGCGATTGTTGTGTTCTCAGCATGTAAAGTGTCTGGCAAGGTAGTAGA
CATTCAGTAAAACATTGTTGAATGAATAAATGTGTGGTGGGACATAAGGCATCAATTAAATCCAATAAGTTGGTGATGGCGAGGGGCAAGAATG
AATTTTTGAGAGAAACAAAGGTGCTTAAGATACAACCCCTCTTCCTAAAGATGATCACCTAGCGAGGGACACAAGCGTACAAAGAATTACACTC
AAAGGCTAAGCAGGACACGGGCAGTAGACACAAGACAATTCACCAGTGAGCCTTGACCTGCAGAACTTTGAAAGCAAAGGACACAGAAGCTGAA
TGTTACGCAGACCCAAGAGTGTATCCCCTATGGCCAAGGAGAAGAAGGGCAACCTCGCTGTGAACATTGCAACCTATGAGGGTCGGAGCAGGGC
AGAGGGCGTTGCGTATAAACTGCCTCTCATTTATCCTCAAGCCTGATTACCTAAGTGAACTGTTATGTTTTCTTCTTTCTACCTGGAATCCTCT
TAAACCAGAGGCAGATTTGACCTAAGAAGTATGCAATTTAGTTGCGTCTACATGACCCAATATGGAAGGAAGTTTTGGCAAACACCCAGTTAAT
CTAGTCAGTATGAATTGCTATTCCACATGAGGCTGGCTCAAAAATCCCACTTTGAGGCCTTATCAAAATAAATAGGTCATTTAGACATCTGTGT
CACTTAGACACAGAGCCTGTGGGAGAAATGAAATAGAAGAAGGTCCCAGGTTCAGCAGGGAGCCTCACGTGGCCATGGCAAGGCTGTGCCCAGA
GAATGTGCCACTTCACTCTCCACGCTTTTCATATTTAAAAGTCAGCTATTTCTTCCAAGCCTTTTCCTCGTAGGTCTTTTTTTCCCTTTGCCCA
TCTAATATCTTCAACAGTACCTCCATTATGCTCCACACAGCAGGGTCAGCTCCGAGGCAGAGGGGCTGTTGGATTCCAGGACAAGATCCTTGAG
CAAAGGAAACCTGATCCAGGATGTTTTTTCCCTGTGAGTTCCAAGTTTGGGGAAAGCGTTCCCTGGATATTTTCCTCCTTCCAAGGTCTCAGTG
GATGCCAAGCTCCTCTGTTGCTCTTTGGGATGTAAGACGCCGCTGAAGTGAAGGTTTAATAGCCCCTCTAGAATGGTGGGATGTAGTGAGGACT
TGGTCCTGAGCTTCAAGGCCAGGTGGCCAGTGACTCTGGCACCTGACAGTGGGGGAGGAAGGAGGATGCTGGGTAATGCCTGGGCCTAACAGCC
AGGCAGACCACCTGTAGCCATCAGCCCTCTCTGTCTTCTGGGATGGGGTTTCTCAAACCAGGGTCCAGGATAATAATCCACCTCTTCTTTTAAA
AGAAAGCCACGATTTATTTTATTATATTATTATTATTATTATTTTTTTTTTTTTTTTGCTTTGGAGACAGGATCTCACTTTGTCACCCAGG
CTGGAGTACAATAGTGTAATCATAGCTCACTGCAGCCTTAAACTCCTGGCCTCAAGTGTTCCTCCCACCTTGGCCTCCCAAAGTGCTGGGATTA
CAGCCCTGAGCCACCACACCCAGCCTGAGAGCCAAGCTTTATTTAAATTTGGGAATCACTGTTCCAGGAGCACAGGAATAAAACTGTCCTTCAT
CCTTTATAGCCCTCAGGCTTCTCTTCCTTTTCAAGGCCTTCCTCAATGGGCTTGGTAATCTCATCTCACCAAGATAAGCATGGTAGAGGGGCAA
GCAGGATGGAATAGACTCCATGTATATGGTGTGTATTTTTAAAATCACCATTTATCACATGCTTATTTAATCCTCATAGCAACCGTAGAAAGCA
CCTGTTATTAATGCTTTTCAGAGAAGCAGAACTGGAGGTTCAAAGCAGCTGAGCAACATGACCAAGGTCACTCCACAAGGCCAATGGCGGAGCT
GGGATTTGAATCCCGGGTTAACTGATTCGAAGTCCTATCTCCTAACTGCCAAAATAAAGCATACCTTCGTGA
TGACATCCTAAGCCCTGCATCTACTTTGCCTCAGGGTGGGGCTGAGAGCGCGGACTCGAGCAAAGACTGCAGCAGATGAGAAGCTGGTCCTGAG
CTGTGGGTTGGGAAGGTTCGGGCAGTGCAGCAGTTCTCACAGGTGGAGAGCAGGATGAAGGAACGCTTAGAGGAGAGCAGCTTCTGCAGGTTGG
TGGCTGGGAGAGGCTGCTCCTCCCCAAAGACTGGACCTATTAGAAGCACAGGACCTCTGATGGAGATGGGGTTTTAGAGGATTTCCTAGTCCAG
CCCTCTACCAGTACACGTCATAACCTGTCGGACAGCCCAACAACAAAGACCGCCGCTCACCTGCAGTTTCTTCCCTGTCGGAGTCTGGGAGTGA
ATCTTCCTCCTCGTGGGCTTGGCTCTCTTGGGAAGTTGAGGGCTTTGGGTCTCAGGTCTGCCATTGATTTGAGCATTTCTCCTGTGCATCCTCA
CTCTTTCAAGAAAGGAGGTCTGGATCTGGCTACCAAATCCCCCTGCTCTGCTGGGAGCATGAGCAGCCTTGCCCATTGCTCGGCTGAAAGGTCT
GCATTCAGAAGCCAGGCTTTCCAAGGATAAACAGGGTTAGGTGCTGCCAGCCTTCTTAGCAGCAACCAGAAATTCAATGAGAAGTTTCAGGGAA
AATTCATCTTTTTCCACCCAGTCATTGAGAGCAAGGTTTTATGACACAGAGGATGAAGAGAGAGGCTTTTGTGGGCTGATGTCGCTGTGTTGCT
GGCCTCCGGTCAGGTCACAAGGTGGAGCGCTGCATGCCGGCAGGGACGTTTGGGCTTTCAGACAGCAGAGGCATCAGAGCAGAAGCAAATATCT
TCCCAAAGATGTTTGGCCATATTTCTAGGACCAGGTTAAAAGCTTCACACAGAAGCTAAGTTAACATTGGTATGTCTATGAGAGGGTCATGTCC
AGAAACAGCTTTCGCCTTCCAACAGAGACTTTGCGGAAAAAAATCTCCATGCTCATATTTCTCTACCTCAGGAGGCTCTCCTGGAATCTAAGAG
GCCATTTAGTGTCAAATTCAGCCCCACTAAGCATCACATAATGGTGATACTGTTAAGGACATCATATATGTGAGGCTGAATTATCCACAATGGC
TGGCAATGTCTTCATTCTCCAGACTGAGGCTCCGGCCTCTTTGCTTTGGCAAGAGTTGATCTCAGGACTGCCTGAAACCAGAAACTCCAGGCAA

AGCTCTTTGGGTCACTCTTCTGAAAAGGAATCACAATAATAAGATCTGTTATCTTGGTACTCTGTAAAGCCAAGGTGTCAGCCTTCACGACAGT
GAAAAGTTAGTTTGTCAGAACCAGGGTGTGATTGTCTGCTGATTAAGCCATCTGCCACCACAGAAACAGACCAAGATCATCAACTGGTACACTG
GTGCCGACGGCCACATTTTTACACACTGGGCCTTTGGCTGCCACCTCAAGTTTGTCAGTTCTCAGGAGGCAGACTCCAGGCACCACATTCGAGA
GGGCCTCCATGCACGCTCAGGCTTCTTCTCATAGCAGGCACACCCTGCCTGAGCCCCACTCCATGCGCTGACGGAGAGTCGGGGCAGGAGCTCT
CATGCAGCCAGGTGTTGGGCTCTGCAAGGGGGTTTGTGTGGGGATGTGAGCCACTGGGTCAGCTCCCTGGTTCAGGCTTCTGCATTCAGGTTAT
AGACATATCTCTGTGTGTATGTTGGGGACTAGAGATGACCACACTGCTAAATTCTTCTTGAGTGACTTTTAGTAGGAAAAAAATATGAACCCTC
ACTTCAACAATGACATTGTTAAAAACACATAAAATGCACACCACTTCACCGAGCAGCATTCAGGCCTTGACTTCCCTGTGGGAACAAGCTTTTA
GCCTATGCCTCATACATAAATAGGTGGATTGTGGTCCACTCAGAGGGGACACAGGAGTGATGTAGTCTGTACCCCTCAACACCCCAGATGGAAA
TCTTTTGCCTGGAGGCTTAATTTCGTGAAGAAGTCAGGGTAGGAGCACTGGGTTCTCTTCAGCTAGTGATATCATGAACAATAAGAAGAATTGT
GTGTATGTAGCAAGTAGGAGAAAATATTGGCCAAGTTTATTCATTCAACAAATACTTAGAGTCTACTAACTCTGTGTGGGGCCCTGTTCTAAGT
GCTTGGATGTATCAGAGAACACAACAGAGATCCCTACTCTTATGGACCTGATGTTCAGGAGGGAGGGGGATATGAACCATAAACGACAAATACA
AATTAATTACTGATTAAATTATGTGATAAGTGAAAATGGAAGAGCAGAGGAAGGAGGATGAGGGAGTTGCGGGGAGGAGGGAATTAATGTGGAT
TTGGAAGGCTGCCCAACATGTTTCTGGGTCTGAATATTTTTGGTCTGTGACACAAATCGTATTCTTGATTGCTAACATCCACTGAGGCCACCTC
TGTGCTGGGCACTATGCTGGGTGTTTACTTGGGTATCTCATTTACTCTGCAAGGCTGGCCTGGTTCTTCATACCCCTAGGGCAGAATGCAAGAC
TTTAGTTCTTGGCCTTCTGCATCTTCATGCTTTTTCTTTGGAGCAGAAATTGCTCTGAAAATGCTGGGTTTAACTTAAATCTTACATTGACCAG
ACGTCTCCTCGAGCCCCAGAGCCTACGGAGTGCTTTTGTTAAACCCCAGAGCCAATGTGCTCAGGCTGTCCTTTGTGCAGCCAGGTACCAGTGG
GAAGATTTTCCATGCAAATACTTGGGAATAAAAAAGAAATGAGAGGGAGGCCTGTGGTCTTTGCTACTCTGACTCCACAGGCTGCTGGGATGGA
CGTTGGATGAAGACACCAGCTTAGGGCATGGCCTGTTGCTATTTATGACTCTATTACTTCACAGTGAGAGCACAGTTCAGGCTGACTGCTGGGT
GGCCTCTGTGTTTCTGTCACTTCCTTTTTCACCTATGTGAGGACTGTAGCATTGATTGGGACTTCCAAAGTCCTGTTAGCCAAGCTTCTGCCAT
CAGATGGGCCTGTGGGCACATTGCCCCATAAAACTCTGCCTCCTTCCTAAGGCCCTGGGGCACCACAGAAAGATGGGCCTGCCAAGCCACTGCT
CTGATAAGGCATGCCTTTAACCAGGCTCCATCACTCAGAGCTACAGGAAAATCCCATGGTCATCCGCCCTCTGTTGGTGACAGGGAATTCCATC
ATGCATTCAGATTTTTGCATGCCTGCTCTGTCCCTGGAACTAGAATAAGAGAATAGGGAGAAAAGCCGATAAGAAGTCAACGATAACTATAGCC
ATGGCCATAATTTGGGCTCCAAAAGAAATAATTCTGAGTGGTTACCAGATAGCTTTCAGAGAGGGTTGAAGCCTTCAGTAGACTAATGATTGAG
CAGAAAAAAATGTTTAGAAAACTTGAGACAGATTTTATCCATGCAGTAAGTCAAGTCAGAAGTCAGATGACATGTACGATTCCTGG
AATTTAGTGATTTTTTGTTTGAATGTGTTACTTCTCTTCTACTTTCTGTTCTGCTCCCACTAGAATTATCTCCTTCCCCCAGGCCCTCAGATCC
ACCCCACATACCACAAGCTCATTCTTCACCACACCCTGTTTTCTAGCATGGCTGCAAGCGCAAAACCTCCCTTAGTTCCCACCTGCAACGCCAA
GGTCCCAGAGTTTGCTGAGCTACCATCAGCAAGACCTTGAACATGCCTCGGCCCTCTCTCCTCTCCCTCCACATTGCTCTACTTCAGTGGTACA
GCTCCTCCCATGGCTGTCTCTAGACCTCACCTTGACATCTCACCACCCACCTCTGCCTTGTTCCTACCTGATGCACTCTCCCCTCTCCAAAGAG
TCACCTGGCCCTAGTTCCACTCACCTCTCTGTCAACCTCCAGGAACCCTTTATGTGTCCTCCATGCCTTAGGCACATGACCCGTGTTTCCTCAC
AATCACAGTTACCCTCTCATACTCACATGCAAGGACGAGGAACTTGTTTCCTATTACTTCACACCCACTCCCTGGCCATGCACACAATACAGTG
CAGAAGTTGGTCCCAAATCTATTACCAGAGGCCTAAGCAGCAGCCTCCTCCTGCTCAAAGAAAAATGTTCTGCCGCTGCCAACATTGCACTTCC
TCTGCAAGACATCTCAGAAAATGCCCATCAGAGCCTTCCACCTCATTCCAAGCTTGCAAGCAAGCTGGTCTTTCATTTGTCTTGTTTGTTTTTA
AGCAAGAAGAATCCCTTTAGAGGAGGAATTAGGAAAGAAAAAAAAGTCAAACAGAAACAGAAGGAGTGGAGGTTTGTCTCTCTCTTTTGTCCCC
TGCCTTGCCCTTCCTCCCTATCCCATCCCCCTCACTTTCTGTGTTGCTTTTCATGCCAGTTGCTAAAGACTGTAATTTTAAAACTGAACGGGCT
TTTCCAGAGCCTTGAGGAATGTGCATCTGCACGTGGATTTTTCCACAAAAAAAGTGTCCCTGTCTTTTGGATCTTCTTAGCCAGAAACAATGAG
GCCAGGCAATCAGAGTCCATCCGTCTTCCCAACTCTTATTCTAATTTGTTTGAGAGGCTCAGAAGGGGCTGAAGGGCATGGTTGTGTTTCACCC
CGTCAGACTCTGTTGTTTGATGAGGTTTGTGCTCCATTTGTTCGGATGGTTTTTATGGTTTCTTTGTTGTTCATGGAATAACTTTGAAGGTCAT
AATTCTGTATCCTCAAGCTCCTCTGCTATTCCTGCTCAATGTCTCAATGGGACTCATACCAAGAGAAAGGGAAGGAAGAAGTTTCCAGCTAGTT
AGTTAAGCAATTTCTCAACACATTTATGGAAGCATGTGGAATCTTTCAAGAAAGGGGTTACGATCACAAAAGTTCGATTTGAGGAGTATTCTCC
AAGACAACTGAGAAGCAAGCCCTTAGTCATGCCCAGGTGGGGAGCAGGTCTCCAACCTCTCATTTCCTGATCCAGCCCCTTTCCCAGCCACATT
TCTGGCCTCTTCCCTTTCTCTGTGGTCATCAGCCCAGCCCTCTCCACTATCAATAGAAAAGCCCGAGAGCCCTCAGAGAGCCTGGAATGTGCTC
CCACCGCTGTGATGTCATCCCACATCATCCATGTGCTGAAATCAGGGACTGGAGTCGGCCCCCAGGAATGTCATGGCCATGGGCTTTGAGACAC
TCTTCTTATGGGCCTTTCACCCAATCCAGACCTTGCCTGCTCTTCAGAGCTGCTTGAAGGATTTTGCTACAGAACTATGGACATTTAAGAAATG
TCTAACCTTGTGTCAGTTTATATTTGTAGAACGCTTCATAAGGTGCTTTTCCATATGTTATCTCATCTGATCATTTCCACAACCCCATAAGGTA
GATAAAACATAAATTTTTATTTCCGTATTAAAATTGAAGCCCAGAGGAGACTTTTGATTCATCCCAGGTTTCACAACAAAGAGTGTCAGGAAGA
GAACTTGAACCAATCCTCTGACTTCACATTCAGGGTTCTTCCCATTACTTTGGCTCCCAGATAAGACTACAATCTTCTGAAAGTCAGAGTGTTA
ATATTCCAACCCCAGGGGGTGAGTACACTTCCAGAATTTAGGGATGCTTTAAAAGCCATTGCTGAATTGAATTTTATTTCTCCTGATCACTACA
GATAATGCTCATGCAACTTTTCTGAGAAGCAGGCGATGCTAATGTACCCCTATTTGTTATTGTTCATTAGACCCTTCTTATGACTCAGTCAGAA
GAGGAGCTTGGGGCAATAACATGAATTCTGGCCTCAACAAAAGTAAGTAAATGTTTTATAGTTCTTTGGAGGAAAGCATGTTTCTGAGGACAGG
ATTGGAGAACAGGATCATGAGACACAGGAGAGCAGCAAGCATTTGTTTCCCTGCTTTTTGAGTAGACATCAAAATTATTTGCCAATTTAGGGCC
TTTCCATGATACCAGTCCTTGAAAGATGATATGGGATTTTCGTTTAGATTTTTGAGTTTTGTTTTATTGCGCTCGGTTTTAGAACATGGGAAAT
TTGAAGGTTTTCTTGAGACAAGGTTCTGTACCAATGAATGGTCACTGTCACTGGGTTTTGCTTTTGTTATTTAAATCAAGATAATGACTCGCTA
TAATTTTGCTCCCGTAACTGTTGAGGCTAAGTCGTACCAATTTCCCCATTCCCCTTGATACTGGGTAGATTTCCTCATATCATCATCTCACCAC
TTGGTGGAGAAATTGATGTCTCAGAACCCTGCCATCTCCTCAACAGGTTATCTTCTGTCCCTGATGAGGAGATGCCGGGGGGGTCTGGGACATCA
GGTTCTCCACCAAGTGGTGAGATGATGACATGTCGAAGTCTACCCAATATCCCCCAGTAAGAGAATAAGGGGCAAGAATGACTCATGAACTCCT
GTACCAGAAATCAAACTTGCCATGCCTAGGAAGCAAAATATGAAGCACATGAACAGGTGGTAAAGGGAATTCTTTCAAGAAAGAGGTTGGGGTT
ACAAATTAATGCCCAAACAATAACCAAGACCCCTTCCAATTATGTGTATTAATTATTTACTTACTCTGCACATGACATTTGGCAATATAAGATT
CACAAAGATGAATCAGACATGCACTGGTCTCATAAGCGGGAGAGAGAAATCAAGCACACACAGAACTCCTTTCTTCTGGTTGGTATCAAGGAAG
GCTTTGTGGACCTGGTAGCACTTGAGTTAGCTCTGGAAGGAGAGGCAGGATTTGGACCTGTGGCGATATGGGCTGGGGAAGACATGAGCTTGGC
ATGTCTGACAGTCAGTGAGGACCTCAGGTTCCTGGAGCTTAGGATGTGTGATGCAGAAGAAGTCTGGAAAGGTAAGAAACAGAATTGTAAATGA
TGCTATGAAGATATGCCTTAGTTCTTTAGGCAATGAAGAGTCACTAAGGTTTTGAACACTGGCGTGTATGGTGGGTTGTGGGGAGACAGAAGAG
TAATGAGGACACCAGTCAGACTAAGCCAGAAACCATGCAAGAAGCAATACAGATCTGTGATGCAGAAGTGATCATGGGAATGGAAGGGGTGTGT
GAGAGATACCAAGGAGGAAACTCACAAGACAGGGACACCAGGAAGCAGCTGATCTTTGCTCAGATGTCACTTTCTCAGTAAGGACTTCTCTAAC
TTTCCGATTTGAAAATGAAATCCACAGCCTCAGTACCATCAGTGATGCTATACTGTTAGTTTACTTTTTAAAAATTTGAAAATGAAAAGGTGAC
ATTTAAGCAAAGACAAAATTTTAAGAATTTAAAAATGTGTTTATTATTGTCTCTCCCATTGGAATGCGAGTTCTACCAGGAACTGCTTGTTCAT
TCCTGAATCTCCAGCCTGGAGAACAGGGCCAGCACATAGTAGATTCTAGGTAAATGTTTCTAAAATAAGATGAATAAATGAGTCAGTGGAGAGT
GGGCGAAGGAATGAGTGAGAAAGCACATCTGTCAAGACGTCTTGCTCCCCTCGGGGAGCTGGGTCCTACTCACTGCATTTCTTTCCCTCTTGCC
ACAGGTCCTCCCCTTGGAGGGGCACAAACGATCAGTAAGAATACAGAGCAACGGCCCCAGCCAGGTACCTGCCCAGGATATGTAATCTCTCCTT
TGCTTCCTGCACAGTTGTTGATTTCACATGGTCAACTGATGGAGGGTTTAAACAATATACCACATATGTTTTCTCTTATTTCTCTCAAAGAGGG
TCTATCTTTGACCCTAATAGTCCTGTGAATGAAGTAACAGGTACTGACATCAAGTAGAGACTTGTTAAATATCAAAGGTGAAAGAACTTGAAGA
TGAACTATTCCAATGCTTTATTTTGTTCAATAAAGAAACTGAGGCCCGGGGAGGTGAAGTGACTTGCTAAAAACCATACAGCTGGTTAATGAAA
GAAATAGGGCTACAATCCCAGATCCCCCAAATTCCTGTCCAAGCCTTTTATGCTTCACCAAACCTTACTTTCAGAAATATCCCCATCCTGTGAT
GAGTTGGCTTAACAATTAAGGCAGAGGAACTTTGAAAGCCATGGACCTGGAGACTCCGTATTGGAGAGGAACTTGGAGATTTCTGGGTCTATCC

TACCCTCACCTCTACCTTACTTGTGCTTGTAGTAAAACAGGGCGTTGACTTTCTAGCTGGGCTCAGTTCCACTATCTGACCCAAAGTCTGCCTC
CTGGAATTTCCACTCAAGCTTTTCCTTCTGGAGAAGCCTTCCTCCTGCTTCCTCCGAAATCCTTTGCATATCTGAAGACAGCTGCTGTGCCCAA
GCCCCAGCTCCCTCTCTCTATCTTCTTATGTGATGCAGCTGAGATGAAGTTCTGAACAAGTCATTTGCTTTGGGGTAGGCAAACATTGTTCCCCA
TCTCCACAGAAGGCAGAGCAAGAGAAAATCAACTGACATTTCACCTGGAAGGTTAAGAAAAAATTTGCTGACTGTGGATCATAAGTCAGATGTA
GAGAGTTTTAAAGACTGTCCAATAACAACAAAATTATGCATTAGTCATCACCTGCCAAAAATAATTATCATATTAATGATGTGGATGAGAAAAG
ATGGTCTCAATGGGCTTAAGGACTTTTGAAGGTAATTTATGGTTCTAAGTAGAAACCCAAAAATCATAGTGATATTTTTAAAACTGCAATTATA
GTTGAAAAATAGCAAAATTTTACAAAATACATGACAATTTTGCCAAGTCGAGACCCAGCTCTCTACCATGATTTCCTCAACTAACAAAAAGGA
GATAAACCTCTCACCTAAACCAGTATTGCAAAGACTTTTTCATGGCTAAATAAACACATACGTTTTGAGGAAAGTGAGATTTTAAGAATAGTCA
TTTTATAGCTAAAATGTACACTCTGGTTTGTGCTGACATTTCTGGCTTGTGTGACATTTCAAATCACAGAGTGTTATACTAGAAGAAAACTGAG
GAATCCAGTAGCCCAACCCACTCATTTGTCAGATGAGAAAACTGATTCCCAGAAATTGTCCAACAAGTTATTTGTTTATCACATAGCTGCTGCT
AAAACCCAGGCTGCTTGGTTTCTAGGCATGTGTTTTTCATGCTACATTCAAAAAAAAAACAGATTAATAATGTTGTTAGTATTAGGTAGAGTTA
TTAAAGACCAGTAACCATGAGACCTGCTTTAAGCCCATGGAGTCAGCTGTCCGTTGTATCATTGAATATTATCCAGTTCCTTTCCAAATGTTTT
CTTTGTTTTGCTTTGGGTAATGACAACATAATCTGCACATTTTAGATGCCAAAATAAGAAAAAGTAATCCTGTTCCTATTCTTTGTTCTTTCTG
TAATTATTGAGATGAAGACCACAAATGTCATCAAGATCTTTGAGATCTGCAAATAAAAGCAGTAAAGTTTTCTGAAATCAGTCTTTCCTGTGAT
CTTGAAATAAAAGTATAAACCCTTATGGTTTTCTTATGGTTGGTACGGTTGTCATATTTTTTAAAAACACTGAAGCAAATTTCCTTTTTTATTT
CCTTAGATCCGTATCAGATCCTGGGCCCGACCAGCAGTCGCCTAGCCAACCCTGGTGAGTTTACCTTGGCCTGCAAGCCTTTTTTGCCAGAATG
TTTCGTAGCTTTGTGAAATCACAGAGACTTCTGTCCTAAGTCCAGACACCTGAGTGGGGAGTAACATGCACCTCTTTCCTTGAAATGTTCAATG
TCTGTTTCTGGAGCATGTGAACAACAGGTCAGGGCTTGTTATGAGGTGTCAAGGTTGGTTAGCTGAGGATACTTCTAGGAATAAACACATCAGC
ACTGCACATGTGCACTTAGGTGTAGATGAGTAATAAGTGGCACAGGTAGGTAGGCGTTTCAATCAGAGAAAATGGGCAAGAAAGAGAAGAAGAC
AACTCCACTCAGCTCTCAGTTGTCTCCCACATGCCAGGCACAAGTTCATAAATATTCCAAAGGGTTTTATTTGTGATTTTAGAAAGTGTTGCCA
AGTTATCTGGCCTTATAAAAGAGATGTGTCCTGGAAAAGTTGCAGATATAGTCAATTTGACCTTGTACTTTAAAGATTTAGTATCAAAAATAAC
TCTCAAGAGGGTCCTTCTAAACCAAGTCCATCGAGATTGGGAGCTAGCAGGCCCTTGTCGCAGTGTGGCCCACTCACCTTCCCATCCCAGGGAC
TCTGCCTACCCATTCCTTAGTGCCTGGTCATTACTGCCAGAGGAGAAAGCAGCCACCCAGCATATTCTGGGTATTTTTCTCTCTGCACAAGTTC
TCTGTAGAACTTAGAGCTGCAAGCCAAGCTCTGGGCCTGCCAAGGGCCAATCCAGGTCCTGTCCATCCAAAAGCTAAAGCTCATGGCGCAGCTT
CTCCCAATGACTCCCACAGTCATGCCTTGCCCCTGACTTTTTATTGCTGACAGGGAATTCCCTGGGGGACATGACCACTAATTAGAGATCAGTC
AGTGATTCAGGCCTTTCTAGATGAAGAGATTCAAAAGCCTTGCCAAAGGGATTGAGGGGGGATATGGCTCACCCAAGATCACACAGCTAGTTCT
GGGCAGAGTTTGCACCTCACTTCCCACATTCCATTTACCAGGCCTTGGGGCAAAGCATCTTAGGATCTAACCTCGCTTATTATACCCATCTCCA
AGGCAAGCAGAAAGGCAAATCAACAATGACATAAGAAGGGCTTGTCAAGTCGATCCCAATGTCGAAGGAAACAAAAGGTTTCTTTAAAAGGATG
AGAAGCTCCCTGCATTTAGGGAACTGGGTTCTGCCTTCTCTGGGCTGAGGTGTTCTGTTCTCTCCCGTTTGCCTCACGGCGTGCAGGAAGCGGG
CAGATCCAGCTGTGGCAATTCCTCCTGGAGCTGCTCTCCGACAGCGCCAACGCCAGCTGTATCACCTGGGAGGGGACCAACGGGGAGTTCAAAA
TGACGGACCCCGATGAGGTGGCCAGGCGCTGGGGCGAGCGGAAAAGCAAGCCCAACATGAATTACGACAAGCTGAGCCGGGCCCTCCGTTATTA
CTATGATAAAAACATTATGACCAAAGTGCACGGCAAAAGATATGCTTACAAATTTGACTTCCACGGCATTGCCCAGGCTCTGCAGCCACATCCG
ACCGAGTCGTCCATGTACAAGTACCCTTCTGACATCTCCTACATGCCTTCCTACCATGCCCACCAGCAGAAGGTGAACTTTGTCCCTCCCCATC
CATCCTCCATGCCTGTCACTTCCTCCAGCTTCTTTGGAGCCGCATCACAATACTGGACCTCCCCCACGGGGGGAATCTACCCCAACCCCAACGT
CCCCCGCCATCCTAACACCCACGTGCCTTCACACTTAGGCAGCTACTACTAGAAGCTTACTCATCAGTGGCCTTCTAGCTGAAGCCCATCCTGC
ACACTTACTGGATGCTTTGGACTCAACAGGACATATGTGGCCTTGAAGGGAAGACAAAACTGGATGTTCTTTCTTGTTGGATAGAACCTTTGTA
TTTGTTCTTTAAAAACATTTTTTTTAATGTTGGTAACTTTTGCTTCCTCTACCTGAACAAAGAGATGAATAATTCCATGGGCCAGTATGCCAGT
TTGAATTCTCAGTCTCCTAGCATCTTGTGAGTTGCATATTAAGATTACTGGAATGGTTAAGTCATGGTTCTGAGAAAGAAGCTGTACGTTTTCT
TTATGTTTTTATGACCAAAGCAGTTTCTTGTCAATACACGGGGTTCAGTATGACACAGAATCATGGACTTAACCCGTCATGTTCTGGTTTGAGA
TTTAGTGACAAATAGAGGTGGGAAGCTTATAATCTAATTTTAGGAGGACCAAATTCAGTGGATGGCAACTGGAACATTGATTGTAAGGCCAGTG
AAGTTTTCACCCAACTGGAATTTGATGGAAAGAAGGTTTGTGTGTTTAAGACGCCAAGGGCATTGCAGAATCCCTCTCAGTGGACAGTATGCAC
TCAGCTGACCACTCTCTCTAGAAATAGTCAAGATATGAACTAAGAAATTTTAATGCAAATACATACATTCCTGAAAGACGGGGAATTAAATTAC
TAATTTTTTTTTTTTTTTTAAATGATGACAGTGGTCCCAGAACTTGGAAAAGTTGTAGGGATTTCTAAACTCAAGCAGATTCGCAAGTGCTGTGC
GCTTGTCAGACCATCAGACCAGGGCCAACCAATCAGAAGGCAACTTACTGTATAAATTATGCAGAGTTATTTTCCTATATCTCACAGTATTAAA
AATAAATAATTAAAAATTAAGAATAAATAAACGAGTTGACCTCGGTCACAAAAGCAGTTTTACTATCGAATCAATCGCTGTTATTTTTTTTAAT
GTAATTTGTACATCTTTTTTCAATCTGTACATTTGGGCTGTCTGTATGTTTTTATAGCTGGTTTTTAAAAAGCATAATATGCCTATAGCTGAAA
AGGAAACAGGGCTGTTTAAGTCACTGACTTATGAGAAAGCAAAGCACTGGTACAGTTATTTAACAGGCATACACAAGCAGGGAAAAGATAATCC
ATTTAGATCTTTAATGCTTTGGAAATGCGTGTAACAGTACTGCAATAATCACAGCTCTGGGAAAAACAACGAAACTTTCCCTTGTGGAGAGGAG
GGATTTTCCTGCTCTATATAAGCAACATATTTTTAGACATTAAAATATATATAATTTTGCAGGTAATTGTTGACTTTTTTAACTATATTAAGTG
TTAAGCTGACAACTGTCAAAGAAGACCATGTTGTAAAATAATTTGACTAAATAAATGGTTCCTTCTCTCAGTGCTGAGGACAGTTTTCTTATTT
ACCGCCCCCGTTAGGTCAAAGGGTTTTCCCTGGGGAACTTTCCTATTTACTTCTTGCACTATCAAGAATTTTTCGAATGTACCTACTGCAGTAC
AGCAGAAGGTAAAAAATCAGTGTGGTTTTTCATTGTTGTTGATGATGTTTGTAGTGTTTTTGTGTGTGTTATTTAAATCTTCCTCCAGCCTAAA
AGGGTTTTATAAAACAGCAGCTAAGGCCATGGATAAACCTGTATGTAAGGACTGGAGCAAAGCGAGCTGGTCTATCCAGACTTGTCTGTGAGAT
TTAACTCTGCAGCCTCCCCTGGGCACTTCAGACCCAGACGGCCACCTTCTGCCACTCCAGCAAAGAATAAGCGCCCTGCTTCCTTCAGGTCTCA
GACCAGGACTTTATGGCTCATGCAGATTTTTAAGGTCATTTTTCTTCCCAAGGAAGAAACTTGCCTCCAGTTCCTTCACTGTTAGGTAGCTTAT
TTTCATTTTCTCTATTTTACAATGAAAAGAGTGAGACCTGGGAAGTCCTTGATTTGCAAGGAATTAGACTCACAGCATTGGTAACCCTAGAACC
TTCTTAGGGTAACACTAAGTACCTTCTAGACAACATGTCTACCTAAATGAAATGGGATGTGTTTCGGAACATTTGTCTCCAGTTTTTTTTTAAT
CTTGCACCCTGCCATTTAAAAAGATGTGTAAAGCACATATTCTCAACATATGCACATTGATTTATAAATCATATATACAAACTGTTACATTATT
CTTCATATTAGAAAACAAATACAAAATAGAACATTTTAAATGGTGATATAAAAATAAATTGAAACTGAAATTCTACTCTTTTCCTCCTATTTTC
TCTATATTGAATATCCTCTGCTATTAACTCTCAAAACAAAGATGTTGGTCTTTAGTGAAAAAAGTGTATGCATGTACTGGATTTCTAGTGACTT
CCAAGAAAGGAGAAAATTAAAACTTGGTATTAGTGGCCCAAGCATAGAAAGAGGAATGATGAAGGCCAGGTATGTTTAAGAACAAACTAGCTGA
ATTCTTTGGCAGATCTCCATCTTAGCCACGCAATTTCCCCATCAATTTTGAAATCTGCAAAGTATTCATTAGGGAAAATGGAGGCATATATTTC
TGAGTGCTGTAAGAAGATGCTCAGCCCATTAGTTCATTCTTTTAAAGGTTTTCTTTATGTGTCCTACTCAAACACTGGCTCAGGCTCATCTTCT
CTACACAGTCATAGAGCTTTAGCCAAATCTCGCCCCCTGAATATGTTCCACAGTGATTTGTCCTATGCCTCAGAAGCTGGCCCACTGGCTGACA
GGACTGGGGCACCATTTTCTCCTCATAAGCATTTGTACAGAGGGGGCACTGGCATTTATTCCCCTGCAATGCCCAGATTGAACGTTTGCTAGCT
GGCTCCAGGGCATGAAGCGGACTAGTCCCAGAGGACAAACAGAATCTTTGCCCTCCTGTCTGCTAGTCCAGTCTTTTCCCTGCTGGATCATTGT
GTGCCTGTGCCATGAGGTTTCTGCCATCTAACAAACAGTGCCAGCCAAGCAAAGCGGGCATGCAGGCCTGCAAGTGGTTCTCATGGAAGCTGTT
CCTCCCCACAGTTTGGGACACTGACCAACAGTCCTTTAGCAGGAGGTCGTCTTAGTCCATTTGGTCTGCTATAACAAACTACCATAGACTGGGT
GGCTCATAAAAACAGGACTTTATTTCTCACAGTTCTGGAGGCTGGGAAGTCCAAGATCAAGGTGCCAGCAGATTCAGTGTCTGGTGAGGGCCCT
TGCCTTGGTTTATAGAGGGAACCTTCTCACTGTGTGCTGATATGGTGTAAGGAGCAAGGGAATGCTCTGGGGTCTCTTTCATAAGGGAATTAAT
CCCACTCTTGAGTGCTCCACCCTCATGCCCTAATCACCTCCAAATACCTTCACATTGGGGATTAGGTTTCAGCATATGAATTTGGGAGAAGGGA
CAGACACAGTCAGTCTATAGCAGAGGTCATCTTTTTTCAGTGTCGAAAAATGTTGTTGAGTCCCACACAAAGGAAGTTCTATTTTATTTTATTT
TATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTCTGGAGATAGGGTATCTCTATGTTGCCCAGGCAGGTCTCAAACTCCTGGCTTCA

AGCAATCCTTCCACCTCAACCTCCCAAAGTGTTGGGATTACTGGCGTGAGCCACCACACTGGGCCTATTTTCAATATCTGTTATTTTAAAACAT
TTTTAATAGTCAACAGCCACTAGAAAACGTAATGACACTTAAAAAGATTGTTATTTTACTTAACCAATAACATCTGCATGCAAGTGAGCGATGA
ACATACACAATGGGAAATGGATTAAGAGGTTCTCAGATAAGGTTTGCTAGTTTAGACCAAATGAGATCAGGAGGTTCTAGAACACAAGGGAGGA
AAGCAGCATCTGTCCACCCCAAGCCAAGTTACTGCCAACCCAAGGCAATGCTTAGTGGATAAATAAAAAACTGAACAAAATGCAGTACTTCATG
TGAGAGGTGGTTTCTGTGGACTTGGATTCTTACCGTATTTCCTCTAATATCTGTTCATTACAAGCACCATGTAAACCTGTTGCCTTAAAAACTC
TTGAAAAGGTGTCCTTTGGGGGAATGTGCTTGGGGGAAGCAACCCTTAAGCATGGCTGTCTGCTGCCCAGCCCCACTCCCACACCTTGCTCAGA
AGTTCCTCCACCATCAACAGCACCACTGAGCTTGTGTCCAGAAGGCCCTCAGGAGGTCGAGGTAAGAGGATGCTTTGTATCAGTGGGGGCAGGG
ATGGGAGAGGTAATAAGAGCCGGGATGGGGGCCAGGGGAGTGACTGGGTTCTGGTGAGCATACAGAAGCTTTGCTGTTATTCAGGAAGGAATGC
AGGTTTTGCAGAAAGCACATTGGGCATTTCATCACGTAGAAAGCTACTGAAACTGACACTACACGCCTTCAGCCAGGGAGTCCCGCTAAGGGAT
TATGAAAGGCCGGCTGATTCCAAAACTACAAATCCCAGGCTCCCCCGGGGGATGGACACTTGTGAGAGGAAGTGGGTTAGCCAGTCAAACCTCC
AGGGTTTCAGCCAGTTGAGAAAGGATAGGGAGGGAAGTTTTAAAAGGAATGTGGGCCCACAAGCCTGGGATCTGTCTCTCTCTCTCAGTCTGAT
GCGGCCTCCTGTCTAATTGTTTCAGTCTGTCCGAGCTGGTAAATCCCTAAGCACATAGTCAATTTACACTCAGCTTAAAAGCTCTAGAGGGAGA
CAGGAAAAATTTCCAGTGAGACCACTCACTCACCTACAACTGCTAGATTAACCTTCTGCATTTTAACTGAGTTAACTCATATGTTTTCTTAGTG
GGAGGAAAGAGGCAATTTGAGTAGACAAATGAAAATGAATATAATGCCAGAAACCCTGGGTTCAAATGCTGGCCCTTCCACCTACTGGGTAACT
TGTCTTCATCGATTAACTAGGACCTGAGTTATACCTCCTGCATGAGTTTCTGTGAGGCATCGGACGACAGTGTGGAAAACCCATTGTAGACTGC
TGTACAGGAGGTTTATGGATAATCATCGTTGTCTGCTAGTATTGGCTAGTATTTTTCAAGAACATTCATTAAGTCCTTGGTAGCTGGTGGGCAC
CCTGTTTGGGGAGTTCAGTGCAGGGTCATTTTTGTTTTGTGGTCAGAAAGACATTTTCCAAATGGGTGCAAAGTAGAAATAAGTTGGGTTTTCC
AGAGAGCCTTTGCATTTTCCCCATCCACGGCCCTCCCATTGCCCCACTTGGGCTTTTGCCCTTCCTTGGCTCTATGTGTGCACCTAAAGCCAGG
GGAGCGTGTGGCCAAGCTGCAGGATGTTGCAAATAAAATGAGATTTTATAAAGGAATGCTAAAAATGTGCTTTGACAGCAATGTTGGATGGGAT
TTTTCAATCGGCTAAGAAATAGAGGTTGGGAGCTGGGATTTTATGCCCGGCAAGCTCGGAGCTTGATTTTTCCATCTATAAAATGAGGATGATT
TAATAACTATACAAGAGTATCACTGGAGTTAAGTAAGATAGTGTACATAAAAATGCTCTGTATGTTGAAAAGAACTAGGAAACTGCAAGATTTC
CTAGGTATTATTGCCAAGGTCTTACTGTCTTCATCGAGAGGCAACTCCTCTTTACCTTCAAAACTCTGTACAGGTCTCTGTTCCTCTCTGATCT
AAGATAGAGTGAAGCCACACTATTCTATTCTATTCTATTCTGTATTGTGAATATACATTGTGATTTTTTAAAAAACTGTAAAATCTTGAAATAG
TCACAAACTTCCAGAAAAGTTAGAACAGTACGACGAACAATTTTTAGTGAATCATTTAAGAGAAATTTGCCAACCATGCTTCATCAACCCCAAA
TGCTTAAGGGTATATTTCATTTAAACAACAACCTTTTCCTACATAGTCCAGTATAATCAAGAGAATCGAATAACTAATGCAAGCGGATTACTCC
TATGTAATCCCGAGGCACCATGCACTGTTGGCTGATTGTCACCACTGCAGTCTTTTGGAGCAAAAGGTTCCCATTCTAAAACACTGATTGTGTA
TAGTTGTCATCTACCATTAGTCTCCCTCGGTCTTTCAGGTCTGTGACAATTTTGAATATGACAGGTCAGGTATTCTGTAGAATGTTCCCCAATT
TGGGATTGCTGGTATCTCTTCGCGATTGGATTGAGCCAAGGCTTTTCTGAGAGGACCATCGCAGAAGTCATGCTGCCTTCCTCTCCTGTATTCC
ATTGCGTGGTACATCATTTCAACGTATCCCGTTATTGATGAAGTTCACTCTTTGTTTAAGGTGGTGCCTCCCAGCCTTCTCCTTTGAAAAGTTA
TTCCTTTACCCTTTGTAATTAATAAGTATTTTGCGGAGGTTTACTTTCAAAATATGTAAATATCCCATTCAACATCAAATTTCAAAGTATTCAT
TCATTTATTTATATCTCTAAGACTCATGGCTCTCTATTTTATTGAGTGGATATGATCTGTTCTTTAAAGATTACATTGTCCCAATGGAAGGATA
TTCACGCTGGCTTCTGTCTCCTTTGACATGTTCCCATCAGTCTTTAAGTGCTTCCTTACTTTCTCGCACAACAACTTATTTTGGAGTTTCTGCC
CTAGCCCTGGAATTAGTCATCTCCTCATGGATTCCTAGTTCTTTTTAGTGGAAAATGCTATTTAGAACCCAATACCTGGGGGATAGATGTGCCA
ATTGCTAATGGGGTGTCCCTGCTCCCAGGCTCCCTCAGTGTACAGAGCCAAGCAATAGACGTAGATACATACATACACATATATTATGTATGTA
TGTATGTGACTATATGCACTCACGTACATACATATACAGTCATGCCTTGCTTAATAACGGGGATACATTCTGGAAAATGTGTCCTTAGGT
GATTTTACGGTTGTGAATATCATAGAGTGTACTTCACACACCTAGATGGAACAGCCTATGACACACCTAGGCTACATGGTACAGCCTATTGCTC
CGAGGCTACAAACATGCACGGCATGTTACTCTACTGAATACTGTAGGTGACTGTAATACAATGGGAAGTATTTGTGTATCTAAACATGGAAAAG
GTACAGTAAAAATAGGATAAAAGTTAAAAAATGGTACACCTGTATAGGGCACTTACCATGAATGGAGCTTGCAGGACTGCAAATTAATCTAGGT
GAGTCAGTGAGTGAGTGGTGAGTGAATGTGAAGGCCTAGGACATAACTGCACACCACTGCAGACTCTGTCAACATTGTACACTCAGGCTACGCT
AAATCTACAAAACCTTTTCCTTTCTTCAATAATAAATTAACCTTAGCTTACCGTAATTCTTTATAAAGTTCTAAATTTTTTAACTCTTTTACTC
TTTGGTAATAACATTTAACTTAAAACACAAACACATTGTACAGTATAAAAATATCTTCATATCCTTATTCTATACACTGTTTTTATTTAAAAAA
ATATTTCGTTTTACTCCTTGAAATTTTTGTTAGAAATGAAGACATGAATTCATATTTAGCCTATAACCTGCCTGAGGCTGTTTTACAGTTAACT
TTCTAAACATGTAAGTAGGCATTATCTACGTATATCTAAAATCTATCATTCTAAAATAATGATAAAAATCTATCATTTTAAAGTAATGATACAT
AAACAGTAACATAGTTGTTTACTATCATTATCAAGAATTACGTACTCTACACCTGCTAGACTTTCATAGACCGTCAGGGAAGTAGGTTTGTTCA
CATCAGCGTCACCACAGACATGAAGATTGCATTGCACTTCCACAGGGCATGAGCACCGATGTCACTGGGTGATGGGAATTCTTCACCTCCTTTA
TAGCCTTGTGGCACCACCATTGCATATGGGGTCTTTCACGGACCTAAACATCTTTATGCAGTGCATGACTGTATATGCTTATACATTTATATCT
ATATTTATTTCTGCTATCTATATGACTATGCATATACATCTATTTCTGTATTTATTTCTACTACCTATCTATATTGAAACCCTGAGTTCACTCA
GAAGCATTCATTTCTAATCCAACACTGGATGTTGATTCCCCTTTTGTGTCTGTAATTCCTTTATTTGACAGTGAAAAGAATGGTTTCCATTAGA
CATCCTATAAGCCCTTCCTTGTCAATCCTTCTGCATGCACCCGGTCTTCCATCTCTGCTGCACCCCTCACCTCCATGCAACGTGTTCATCTCCC
TGCATTGGCCCTAAACTCCCATCCAGGCCACCCCACTGCATGGGCACCCTCCTCACCCCACCCCAGGCAGTGCCTCTGTGTGGATGTTGTTCTC
ACCCTGTTCAAGCTCTGATGCCCCAACCCAGGCAACGCCTCCACAGGCAAACCCTCCTCAACCAGCTGTAGCCCTGACAGCCAGGACAGGCTGC
ACGCCCTGCGTCCCATGCTCTCTTTACTCCACTTGGGCACTAACACTTCCCATCAGGACGCGCCACACGGAAGCCCTTCTCACCCCGTTCAGGC
TCTGATATCACTACCCCCTGACACCTGCCTTGCTGTGCTGCACCCATGGCTCCTGGAGTCAAGACTTCAGTGGGAGGGGGAGGAAGAGGGAAGG
AAGGGGAAGGAAGAAGGGAAGATGCGTGCTTACACATTTACAACAGCACATATCTCATTGGGTGTGTGTATGTGTTGCCCATGCATGGCAAAAA
GGGACCACAAGATCCATTAAACTGTAGTTTTGCCTGCTTCCATATTCTCTCTCTCACACACACACACACACACACACACACACACACACGCA
CACACCCTTGTGCCTTTTGAGATGCAGAATCTGGCAAGCAGTTAGAGAAAGGAGAGAAAGAGATGAAGGAGTAGTTAACCAGAGAGGCTAACAA
GATAATAATAAGGAACGAGGCACAGACAAGTGGAGAAAATGAAATGTTAAAATCTTGTTTTAGGTGTGCAGGGGAGAAATTGGAAGTGTGGCTG
GTAAGGATGAAAAAGCAATGTTCTGGGTTATAACGTTAATGTTTTTGATAGAGGCTGGGGTGAAGAATGCATGGCTTTTTAATTATTTTTGGTT
GTTGTGTTCTGTCAAGAGAGAGTAATACAAGACCCCAGGATCTATTTGTATCTGAAGTCTGTGTCCTCCATTAGACAATAAGGGAATGAAGGGC
AGAAACTTTGTCTAACTCTTTCTTTATAAGCCAGTGCCTGGCTTCTAGAAAGATCCAGAACATGTCTATTTGTCAAACTACACCTACTGGACAA
AACGTGTCCAAACCCAATACAGCTGCCCAGAAATTCTGAGGGAAGCATGAGCTGTCCGTTCTGCTCAGTTACTGTTAATTCCGGAAATACACAG
AGAAAATAAAAATCACGGAAGATGCAGTTAAAGTATGGAGCTAGACCACTGTTAAAACTTGCCAGCAATTTTTACCAATCCAATCTTTGGTGTT
AATTGGTTTCCCCAGAAGATGCAATATCTCTTTCCCCACTGATGATTATATTGCCCAGAGCCGCTGGCTTTCAGAAATGTTTAATCAAGCATTG
CATATATTCAAGCAATACTTTCCAGACACCTCAGCTTTTCTTGACAGCGTTACCTTCCTTCGCTCTTTCTTTGTCTCTTTTAGGAACATCAAAT
CATCCAGTGATTTTCTGCATAACTCAAAGTTTTGTCATTTAGAAAAAAAATCATAACAGAACAGATAACCATTAGGAAACCAATTTGCATCAGA
CATCCATTTGAGAAGTTTAAAATGTGGGGAATGCAAACTCTACCCATAGGGACTTAGTCTGTAGGGAAGAAATATGAACTTGCCACTAATTTCT
GAAAAGCAAAATTAATTCAGTTATAGCTAGATCTGCCTTCATAAGGATATTTCTGATGCTTCTCAGCCTGTTCCTTTTATACTGAATATTTACA
AACTTCAGTGATCACCTGATCAGAATCCAAGACACAAAACTCAAATGAATCCAATTTTTCAAGTGGCTTCAACCCAGCAACCAAATCATAGGGC
TGCCATTTGTGCTCAAAGCCAACACTCCAAGGTTTTGTGTAGATGAGAATGAAGAGGGAGAAGGCGAGAAAAGAAGCCATTTCCTGCCGGGGGC
GGTGGCTCATGCCTGGAATTGCAGCACTTTGGTAGGCTGAGGCGGGTGGATCACCTAAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTG
AAACCCTGTCTCTACTAAAAATACAAAAATTAGCTAAGCGTGGTGGTGCATGCCTGTAATCCCAGCTATTCAGGAGATTCAGGAGGCAAAGGCA
GGAGGATCGCTTGAATCCGGGAGGTGGAGGTTGCAGTGAGCCGAGATGGCACCATTGTATGCCAGCCTGGGCGACAGAGTGGACTTGGTCTCAA
AAAAAAATAAAATAAAATAAAAAATAAAGGTGTTTCCATCCCCACAAAGAGCTATGTCACCAAAGACACAGGCACCCCCTATGACGTCCTGCTC

ATTTAGGAAACCCATATTCCTAGAAGATCAAAGCCCATTACCTCTGGGGAAGTTTGTTTAATTCCGGGAGGGATATTATGGGCATTTGTGGAGT
TTCCAGAAAACTCAAAAGAGCCATAAAAATCGTATTTACATACAACATTCATCTAGGTTAAATTTCTTTGCAAGAAGTGTCTAATTCTCAAGAG
ATCAGCTATTCAGCTTGCTGGGAGCTAATTACAAATGGTCCCTTAGCTTTGCTCAGTCAACTGGCCAAAAGGCAACGGAGAGGAAATTGGAGTT
AAGACAACTGCAGTTGGTCCCTGGAGGGAGCCTATTCTACTGCCAGCATTCTGGCTAATCAGAATGGATACAGATGGACAAGTATCCTTTATGC
ATGAGGGCCTGCTGGTTTTCCTGGGCGAG

HUMAN SEQUENCE - mRNA
GAATTCCCAAACGTGCACAGGGGAGTGAGGGCAGGGCGCTCGCAGGGGGCACGCAGGGAGGGCCCAGGGCGCCAGGGAGGCCGCGCCGGGCTAA
TCCGAAGGGGCTGCGAGGTCAGGCTGTAACCGGGTCAATGTGTGGAATATTGGGGGGCTCGGCTGCAGACTTGGCCAAATGGACGGGACTATTA
AGGAGGCTCTGTCGGTGGTGAGCGACGACCAGTCCCTCTTTGACTCAGCGTACGGAGCGGCAGCCCATCTCCCCAAGGCCGACATGACTGCCTC
GGGGAGTCCTGACTACGGGCAGCCCCACAAGATCAACCCCCTCCCACCACAGCAGGAGTGGATCAATCAGCCAGTGAGGGTCAACGTCAAGCGG
GAGTATGACCACATGAATGGATCCAGGGAGTCTCCGGTGGACTGCAGCGTTAGCAAATGCAGCAAGCTGGTGGGCGGAGGCGAGTCCAACCCCA
TGAACTACAACAGCTATATGGACGAGAAGAATGGCCCCCCTCCTCCCAACATGACCACCAACGAGAGGAGAGTCATCGTCCCCGCAGACCCCAC
ACTGTGGACACAGGAGCATGTGAGGCAATGGCTGGAGTGGGCCATAAAGGAGTACAGCTTGATGGAGATCGACACATCCTTTTTCCAGAACATG
GATGGCAAGGAACTGTGTAAAATGAACAAGGAGGACTTCCTCCGCGCCACCACCCTCTACAACACGGAAGTGCTGTTGTCACACCTCAGTTACC
TCAGGGAAAGTTCACTGCTGGCCTATAATACAACCTCCCACACCGACCAATCCTCACGATTGAGTGTCAAAGAAGACCCTTCTTATGACTCAGT
CAGAAGAGGAGCTTGGGGCAATAACATGAATTCTGGCCTCAACAAAAGTCCTCCCCTTGGAGGGGCACAAACGATCAGTAAGAATACAGAGCAA
CGGCCCCAGCCAGATCCGTATCAGATCCTGGGCCCGACCAGCAGTCGCCTAGCCAACCCTGGAAGCGGGCAGATCCAGCTGTGGCAATTCCTCC
TGGAGCTGCTCTCCGACAGCGCCAACGCCAGCTGTATCACCTGGGAGGGGACCAACGGGGAGTTCAAAATGACGGACCCCGATGAGGTGGCCAG
GCGCTGGGGCGAGCGGAAAAGCAAGCCCAACATGAATTACGACAAGCTGAGCCGGGCCCTCCGTTATTACTATGATAAAAACATTATGACCAAA
GTGCACGGCAAAAGATATGCTTACAAATTTGACTTCCACGGCATTGCCCAGGCTCTGCAGCCACATCCGACCGAGTCGTCCATGTACAAGTACC
CTTCTGACATCTCCTACATGCCTTCCTACCATGCCCACCAGCAGAAGGTGAACTTTGTCCCTCCCCATCCATCCTCCATGCCTGTCACTTCCTC
CAGCTTCTTTGGAGCCGCATCACAATACTGGACCTCCCCCACGGGGGGAATCTACCCCAACCCCAACGTCCCCCGCCATCCTAACACCCACGTG
CCTTCACACTTAGGCAGCTACTACTAGAAGCTTCTTCTAGCTGAAGCCCATCCTGCACACTTACTGGATGCTTTGGACTCAACAGGACATATGT
GGCCTTGAAGGGAAGACAAAACTGGATGTTCTTTCTTGTTGGATAGAACCTTTGTATTTGTTCTTTAAAAACATTTTTTTTAATGTTGGTAACT
TTTGCTTCCTCTACCTGAACAAAGAGATGAATAATTCCATGGGCCAGTATGCCAGTTTGAATTCTCAGTCTCCTAGCATCTTGTGAGTTGCATA
TTAAGATTACTGGAATGGTTAAGTCATGGTTCTGAGAAAGAAGCTGTACGTTTTCTTTATGTTTTTATGACCAAAGCAGTTTCTTGTCAATACA
CGGGGTTCAGTATGACACAGAATCATGGACTTAACCCGTCATGTTCTGGTTTGAGATTTAGTGACAAATAGAGGTGGGAAGCTTATAATCTAAT
TTTAGGAGGACCAAATTCAGCGGATGGCAACTGGAACATTGATTGTAAGGCCAGTGAAGTTTTCACCCAACTGGAATTTGATGGAAAGAAGGTT
TGTGTGTTTAAGACGCCAAGGGCATTGCAGAATCCCTCTCAGTGGACAGTATGCACTCAGCTGACCACTCTCTCTAGAAATAGTCAAGATATGA
ACTAAGAAATTTTAATGCAAATACATACATTCCTGAAAGACGGGGAATTAAATTACTAATTTTTTTTTTTTAAATGATGACAGTGGTCCCAGAA
CTTGGAAAAGTTGTAGGGATTTCTAAACTCAAGCAGATTCGCAAGTGCTGTGCGCTTGTCAGACCATCAGACCAGGGCCAACCAATCAGAAGGC
AACTTACTGTATAAATTATGCAGAGTTATTTTCCTATATCTCACAGTATTAAAAAATAAATAATTAAAAATTAAGAATAAATAAACGAGTTGAC
CTCGGTCACAAAAGCAGTTTTACTATCGAATCAATCGCTGTTATTTTTTTTTAATGTAATTTGTACATCTTTTTTCAATCTGTACATTTGGGCT
GTCTTGTATGTTTTTATGCTCCTTTTTAAAAAGCATAATATGCCTATAGCTGAAAAGGAAACAGGGCTGTTTAAGTCACTGACTTATGAGAAAG
CAAAGCACTGGTACAGTTATTTAACAGGCATACACAAGCAGGGAAAAGATAATCCATTTAGATCTTTAATGCTTTGGAAATGCGTGTAACAGTA
CTGCAATAATCACAGCTCTGGGAAAAACAACGAAACTTTCCCTTGTGGAGAGGAGGGATTTTCCTGCTCTATATAAGCAACATATTTTTAGACA
TTAAAATATATATAATTTTGCAGGTAATTGTTGACTTTTTTAACTATATTAAGTGTTAAGCTGACAACTGTCAAAGAAGACCATGTTGTAAAAT
AATTTGACTAAATAAATGGTTCCTTCTCTCAAAAAAAAAAAA

HUMAN SEQUENCE - CODING
ATGGACGGGACTATTAAGGAGGCTCTGTCGGTGGTGAGCGACGACCAGTCCCTCTTTGACTCAGCGTACGGAGCGGCAGCCCATCTCCCCAAGG
CCGACATGACTGCCTCGGGGAGTCCTGACTACGGGCAGCCCCACAAGATCAACCCCCTCCCACCACAGCAGGAGTGGATCAATCAGCCAGTGAG
GGTCAACGTCAAGCGGGAGTATGACCACATGAATGGATCCAGGGAGTCTCCGGTGGACTGCAGCGTTAGCAAATGCAGCAAGCTGGTGGGCGGA
GGCGAGTCCAACCCCATGAACTACAACAGCTATATGGACGAGAAGAATGGCCCCCCTCCTCCCAACATGACCACCAACGAGAGGAGAGTCATCG
TCCCCGCAGACCCCACACTGTGGACACAGGAGCATGTGAGGCAATGGCTGGAGTGGGCCATAAAGGAGTACAGCTTGATGGAGATCGACACATC
CTTTTTCCAGAACATGGATGGCAAGGAACTGTGTAAAATGAACAAGGAGGACTTCCTCCGCGCCACCACCCTCTACAACACGGAAGTGCTGTTG
TCACACCTCAGTTACCTCAGGGAAAGTTCACTGCTGGCCTATAATACAACCTCCCACACCGACCAATCCTCACGATTGAGTGTCAAAGAAGACC
CTTCTTATGACTCAGTCAGAAGAGGAGCTTGGGGCAATAACATGAATTCTGGCCTCAACAAAAGTCCTCCCCTTGGAGGGGCACAAACGATCAG
TAAGAATACAGAGCAACGGCCCCAGCCAGATCCGTATCAGATCCTGGGCCCGACCAGCAGTCGCCTAGCCAACCCTGGAAGCGGGCAGATCCAG
CTGTGGCAATTCCTCCTGGAGCTGCTCTCCGACAGCGCCAACGCCAGCTGTATCACCTGGGAGGGGACCAACGGGGAGTTCAAAATGACGGACC
CCGATGAGGTGGCCAGGCGCTGGGGCGAGCGGAAAAGCAAGCCCAACATGAATTACGACAAGCTGAGCCGGGCCCTCCGTTATTACTATGATAA
AAACATTATGACCAAAGTGCACGGCAAAAGATATGCTTACAAATTTGACTTCCACGGCATTGCCCAGGCTCTGCAGCCACATCCGACCGAGTCG
TCCATGTACAAGTACCCTTCTGACATCTCCTACATGCCTTCCTACCATGCCCACCAGCAGAAGGTGAACTTTGTCCCTCCCCATCCATCCTCCA
TGCCTGTCACTTCCTCCAGCTTCTTTGGAGCCGCATCACAATACTGGACCTCCCCCACGGGGGGAATCTACCCCAACCCCAACGTCCCCCGCCA
TCCTAACACCCACGTGCCTTCACACTTAGGCAGCTACTACTAG

TABLE 34

MOUSE NOMENCLATURE
ICSGNM Tk2
Celera mCG21547

HUMAN NOMENCLATURE
HGNC TK2
Celera hCG1640726

MOUSE SEQUENCE - GENOMIC
AGAATCCAAGAGGACATGACAAGTGCAGTGGAGGAAGAGGGGGCAGCTTCCTGTTTAGCCAAAGAAGGGATGGAGAGTCGGGGGGCGCACAAGG
CAGACCAGGAGAGACGAGGTTCTGGGATGTGACTTGGGAGAGAAGAGGTAAAAATTAAGCTGTGTTTTACTTTGCTTTGTTTTTTGTTTTTGTT
TTTTTCTAGAACTAACTTTGCAATCTCTTGCTGAAGGGCCACCTAGACCTCACCCGATGATTTCCATTTGTCTGTTTTGACAGCTGTGGTAGCC
ACTGGAACAGTTGATGGTGCAAGCGTCCTCGATGGTGTGAGTGGGTCTCTTGACTCGTGTGCCTGCTCTTGGGACTCTTTTCCTCCCGTTGAGT
TGTCATGTCCAATTTCAATATGATAGCTTTTGCTTCCACTTATTATATTTATTTTGTCATGCTTGGTTGTTATCTCTTAGAAGTGTATTCTTTT
CTAATGAGAGACAGAAACAGAGTGAATCCAGAAGGAGGGGAGTTAGGGAAGAACTCGGAGCAGCAGAGGAAGAAGAAACTATAATCAGAATATA
TTGTATGAGAAAAGGATCTTTCTTTTGTTTTTTTCTTTTTTTGTTTTTTGAGACAGGGTTTCTCTGTGTAGCCCTGGCTGTCCTGGAACTCACT
CTGTAGACCAGGCTGGCCTCGAACTCAGAAATCTGCCTGCCTCTGCCTCCCGAGTGCTGGAATTAAAGACGTGCACCACCACGCCCGGCTTATT
TTTAATAAAAGAAAAAAAGCAGAAAGAAGTGGGGGGGGGCCAAAAGTTAAAAACATGCTCTAATTTATTAACATGGTTCATGGCTCTAAATCTA
AATTTCTTTAGGACATTCATACTTAAGAGAATTCTTCAAATGGAAAGGTCAGCCATACCTACTGGTACAAACAATAAAGAGAATTTATGTTCTG
TGGGTATCCTGAATCCCTGAGAGCATCCCCCAAGCTTGGATTGATTAGCAGTGAGCAGAGATCACCTTAAATATTTAGGAGATCCAAGTAGTTG
ACTAAGGTGTCTTCCTAAGGCAGGAAAGGTAGTTAAGGTTGAAGTTCATCACTTACAAGCAAAGGCAAAAGAAAGATCTCATTATC
TTGTCAAGTCCACACGTGTATAAGACTAGGAAACAGAAAATAACGGTGACTTCAAACCCAGTGATGACGATATATGGTTCAGGGGCTTGTCCCA
CGATGAAAAAGATCATAGATGTCACAGTTACCACCTAGCAGAAGAAAACAAAGACTTAGTCATTGATCATACAATGGGTTTAGTTCCTATGGGG
AGGTTGGGTGCATGTGTGGTACTGGGGGTTGGATCCAGGGTCTCAGGTAGTGAGTGCTGTACCATGAAGTTACACATATCCCTAGCCCCCAAAT
GAGGTCTAAAACCAATAAGATTTCTGTCACACATTGTAGAAAGGAGAGGCATGGCTAACGTGGGTACTGAGTCCTGCTTGTGGTTTAGAGGACT
AAGTGACCTGTTCAAGTGCAGCTAATCACTGCACTGTGCTCTCAGGTCTGTCCCCTCCAATTGTCTCCTCTCCCTCTCGGTCTGCCCTCCTCGG
CCAGCTCATCTCTTCGTCTTCCTCTAAGACATCTAGGTTGTCTTCTGTAAAACACTCCTCCCAAAGCCCTTTCCTTTCACCTCTTCCCCAGACA
AATCCTATTCTGTTCTGCTTGTTTGTTGGTTTTCTGCTTCTTGCTGCTTCTCAAAAACATCTGCATCCTGGCTGCCTGAATTCTTCACCATCCA
CTCCCTCATAACTCCTTAACGCTCAGTAATCTGCAATCTCCTATTGGACTTCAGTTGAATGTTGCCGTGAGGGGCAAGATGAAGGGGAGGGTGG
GAGTGGCAGAGGAGGAGGAGATGGATAGAAACATTGTCAGAAGCAAAAATAAACCTGTGTGCATTTTCATGTAAGTCCTCTTACTAAATACATT
GCCATTAGAATTAAGGGACAGCTGAAGTCTGGAAACAACCTAAATGACACCCAGAAGTGAATGGATAAAGAGCATGTGATCAGAGCTGGGATGC
AGCTCAATGATTGGTGTGAGAGGTCACTAACTTAGCACATGTGATGGCCTTTGTTAATTCCCAGAAACACATGGACGTGCACATGCATACACAT
ACCACATACATACATGTATACACCCACACACAAAAACATACATATACGCATGTACATACACACACACACATACTCAAGTGCATACATGCATGAA
AGGCAGGGGAATAGGTCTATCCATAATGGAATGTTAGGAACAAAAAATTTGAAGTATTAATATGGATATACTATTGACATATGACATCGATGAC
TCTCATAATTAGATGGATGAAAGATGACAAGATGAGTATACATCATGCTATTTATAGAAAATTCTAGGAAGTAAAAGGTCATCTGCAGTTACAG
AAAAAGCTTATTTATACAAAACAGAACTAAATTTTATAGAAAATATAGTTACAGAGAGCACATGAGTGGACCCCTGGGGCTAGAGTAGGCAGGA
AGAAGGGATTATCGTGGCCATGAGGAACATTTTAGGGGTTTGGGAGCCAATCATGTGCCACTTAACAAATAGATCCACTCTGGGAAATACGGTG
AGTGATTTTGTCGTGCAAGTTATCATAAAAATACAGATACTAAGATGGCGCTGATATCACCAGGTGACATCGTCTCATGGGACTGCTGATATAT
AAGCAATCAGCCCATACCTAAGAAAGTTTGCCAGGCATGACTGTATTGATTACCCTGATTATGGTGATAATTTCATTGGTTATATCTGTGTCCA
ATTGATCCAATGACACACACACTGGAAATGCAAGTGTCTTTCCCATCAACTATGGCAACACGACCTTCTAAAACATAAATTTGTTCACATCCTT
TGTCTATTTAAAATTCAAGTCTACATTTTCTCTATTATATAGTCCCCCTTTCACCATGTGTCTTGTATCTCAAAGTCAGCTACCATTTACTGTA
GCAAAAATTCGCCTCTCAATTTGTCCATGAAAATTCCAGTGGTCACTTCCCAGGCCTCATTTACTTCTGTTCCCCCTGGTGTTTAATGCAGCTG
ATCACAGCCTCAAGTTTCTTCACTTAGCACCCAGGACACCCTGACTTATCTTCTTCTACCTCCCTAACAACTCCCTCCCACTCTTTGCATGTTC
TCCCTGCCCTGCCTTTACTGCTCACAGACTGCTAGAGTTCACACATCCCCTTGTATCTTCTATTAAATTTCTTTCTTCATGACTCCACCCACCA
CTTGACTTTCAATACGACCATCTCTCACCCAAATCCAGCTCTATCCAGTTCAGTTTCGCTACTCATGGCTCTCACAGGTATCTCTAATCTACTA
CTGCATTCAAAGCTGCCTGCTCCTCCTCCCACACTTGCTTCTCCTGCAGGGCTTCTGATACCAGTGTGTCGCACCTACACTTTTTCATATGTGT
AGGCCCCTAAATTCCCAAATACCAGGACTAAAGGCAAGTATCACTGTGCCTGGTCAAAATGCAAAAATGTTGACTGCTGTGTGTGACAGCTGAC
CTTTGATGGTTTAATGTGCACAAACTTTTGCTTCATGTATGAAATCACTAAAAACACTGTCTACTACCCCGCAGGCTATGTGTACGAGGTATCC
ATAAAACGTAAATCAATTCTGTATTTAAAGTCGGGTTCTATCTTCGAGATATCTCATTACACACTTGTGGATACTCCAAATATCCTAGACAGTG
CTGGTCTTAAGCATTTGGGATAGGAAATCTGTAGATCCCTGATCTGACTATTTGCTATTTGCTGCGCACTCAGTCACCCGACCCTTGCTTGCTT
GGCGTGTCTTGCAGCGATGAGCTGTAACCCTGGTACATTCCCGCCTCATTTACTTCACATCACTGGCTTTTTCTATTCACAACGTATTCTCATC
ACTAGCACTCCGTCTCACTTAACTCTGACCGATACCATCCCAGCAAAGTCTAACCCCAAGACTACAATCTGAAACCTTTGTCAAACTCCTCCTC
CTCCTCCTCACGTTCCGTTCTCTGCCTTTTATTTCTCTTATCCCCTAGCACTTAGGCTTAAGATGCCAGGTAATGCACTGGGCTTGACTCTGCT
GCCCTATCTCCCATCCCAATATGTAAATGTCTTGTTCACTGCGGACAGCAGGCATTCAGTAAGTGCTTGTTGGATGAGTACACGAAGCACCAAA
CTTCTTATTGTTCAGAGCAGAGATTCTTAAGGTTTTCTTACTAGCCTTCATTCACGTGGGTTCTTTTGGGAAATTTTCTTCTGGTATATGTCTC
GCTTCTGTATCCTACCTTTATCCTATCACATATAGTACCCCTTTGCTTTCATGTTTGTGTCCTGGACTAAATGGAAGCATTCTATGAGGCAAGA
ACTTCTGTTCTGTGCCTGGCATAGAGGTGCATGCATTTAATCCCAGCCCTTGGGAGGCGGAGGCAGATCTCTGAGTTTGAAGCCAGCTTGATCT
ACAGAGTGAGTTCCAGGACAGTCAGGGTTACACAGAGAAACCCTGTCTCAAACAAACAAACAAACAAACCACAAAAACAAGGGGCTGGAGAGAT
GGCTCAGTGGTTAAGAGCATTGACTGCTCTTCCAGAGGTCCTGAGTTCAATTCCCATCAGCCACACAGTGGCTCACAACCATCTGTAATGGGAT
CTGATGCCCTCTTCTGGTGTGTCTGAAGACAGCTACAGTATACTCACATTAAATAAATAAATAAATAAATCTTTAAACAACAACAATAACAACA
AAACCACTACCACACCCCCAAAAAAAGAAAGAAAAAAGAGAAATTTTGTGGTTGGTGACATGGCTCAGTCAGTAAAGCACTTGTTGAATAGTA
TAACACTAATATTAAAAACAACAACAAACAAACAAACAAAGAAACAAAAACAAACAAAAAGCCAAAGCCGGACATGATAGAACACCCTAACTCT
GCCTGTTATCCTTGTAATCCTACCATTGTGGAGTTGGAGACTGTTTGCTGGCCAGCCTAACCTAATTGGTAAGCCCAGGCCAATGAGAAACCCT
GTCTCAAAAGCCAATGTGGGTGGCTCCTGAAGAGTCACATATTTTGGTGACTAAATATAAAAGTTTTATGATTCAGGGATTTCTGTCTTGGTAA
CTAAATGGAAGAATTCTGTGAGTTAGGAATCCACTTTTGTCTTGGTTGCTCTTTCTTCCAGCTACCAGCCCAGAAGCTGGAACACATTAAATAG
TCACATCGTGTACAGCTTTGTGTCTCAGGTGTGCAGCACCCATGGTGGCCAGAAGAGGGCATCCTATCTCCTGGAGCTGGAGTTAAACAGTTGG
CCAGGAGCAACTCAACATGGGTACCAGAAGTTGAACACTCGTTCTCTGTCAGGGCAGTAGCTGTGGCACTGAGCCATTACCCAGTCTCTCACAC
TGAGTAGAGCGGTAATATCAGGGCTGGAGATTTGACTCAGTGGTTAAGGGCATATATTGCTCTGGCAGAGGGCTTGGATTTGTTTTCCAGCATC
CCATGGTGGTTCACAACCATCCATAACTCTGCTGCCAGGAGATCTGATGCCCTCTTTTGACCTTCAAAGGCACCAAACACTCGTGTGGTGCATA
TAAATACAGGCAGGCAAAACACTCTCACATAAACGGAATAGATCTAAAATAAATAAATAAAGCAAGCAAGCATCTGGGTGGTTGGGTGGTAGAG

ACAGATGAAATGCTTGTGAGTTTTTCAAGACCAGCCAAAGACATGCTATGCGAACCTGTTAAAACCCAAATGGGGCTGGAGAGACAGCTCAGCG
GTTAAGAGCACTGACTGCTCTTCCAGAGGTCCCGAGTTCAATTTTTAGCAACCAGTTGGTGTGGCTCACAACCATCTGTAATGGGATCTGCTGC
CAGCTTGTGGTGTGTCTGAAGACAGCTACAGTGTACTCACATAAAATAAATAAATCTTTAAAAAAAACAACAACAACCCAAAACCAAAAAAAAA
CAAAACAGAACAAAAAACAAGTTATATTAAACTTAAACTCCTCCCCCCTCCCCAACTATCTATCTGTTTCAATGTTCTGGAGCTAATGTAAAAC
TCCAGGTGGCCAGTCACCTTCTTGATTAAATAAGGCAAAGGTAACCTCTCCCTCTGCTCCAGAGTCTTTTTCTGAATGTCTCATATGAATCATA
ATTTGGAGCTACCTCTCCGAATCACGGATTTCTGACACGGGGAAGGTTTCCTATGCAATTAATTTTCCTCATTCACTTGAAGTTTGAATCTCCT
TTACAACATCCTCTTTAGTGCCCACCCGTGCCTTCTGTAGTCAGGGAAATACTGTCTTCTCTGGCGGTCATTTAAGTTTGTCGCCCCTTCAATA
TAATAAACTCTTCGTGTTATGTGGAAACGTTACCCTTGGAACTTTTAACCATCTCATTTCAGCTCTCCAAATTTTTTGAACGGCTTAACTTTTC
TTTGAGTTTTCTTACATTCCTTTTAATATGGTAGTTCAGTGAAAACCAGGGCTTTTAGGTATGGTTGAGGAGAAAGTTGTATTGTAGGTATGAC
GGAGGATACAGTCAGAGGTATCTGGAAGTGGTCAGATTGAATTGAGCCATGAGAGGAGAGGGCAGGGGAGAGAGGAAGAGGAAGAGAGGGGGAC
GGGGAGAGGGAGAGAATCAAGAGGACCAGGAGAGGAGAGTGTGTGTTGGGGGAAGGGGGTGGGGTACCAAGAGAGTCTGCAGAGATGGCCAGTT
TATATGGAAATGAGAAGCTGGGAGAAGGGAAATGAATCCCAGCCTCTGGGCTGGAGAGGTTTAAGGTAGGGGCGGGGTGAGAAGTTCTGGGAGG
AGCTACAGGTACAGAGTGAACCCAGTCCCTGGCCGTTTGTACTTCTCTAACGAGCTGAGAACATTACCCTTTAATAATGATCTCCTTTCTCCAA
AGTGCTGTCCAGAACAGACTGCAATGCCCCTGTTAGGGCTTGGAGCCCTAATACGGGCAGTTTCCTCTTTGCTCTCGCTCTGGGTTGTATCCGC
TCTAAGTTCGGTAACATCCAATGTCCGACTTACAGTAAAAGACCACCAACTTAAAAAAAAAATCTTAAAAAAATATTTATGACTTTTGAGTGGT
GAGACTATACAGCGCCTGGTCTGGTAGAGGTTATCACCAAGTTCGTAAAACAAGTGAAGGGTTTTCGGATAGACCCATGGGCGTGTCCCTACAT
CATCTGAAGGAGGAAGCCACTCTACCCTATAGTTCTTCTCCGGTCGAACTGAGCCACAGAGCAATCAATGCCTTGCGTCTGGAAAGGCGTGGCT
GGAAACCAGGTGGCCGAGCAAACGCTGCTCCAGGCTTCCGAACCCAGTCTTCTCTACCCCGGAGCACTCCTGACTACCGACCGCCCTGCATTCC
CGCCCTGGTCCTCACCAACCGCAGGAACTTCACAAAGCATTTCAGAGTACAGCAGAAGGGCCGACGGCTTACGACCGGCCGTGGAGTCTCCATC
TTGCCCACAGACCCAACAGTCACGCCTCTCTTTCAAGCCTTCTCGATTAATGGCTCTTTCCAGGACTCGCGCCACCAGCTCAACTGCCGGGGCT
GGGCCTGCGGCACCGCGCTCAGGCCAAGTCCGGGCGCGCCTGCGCACTAGCGCGGGCCGCCCACTGGCTCCGCCTCCTGGTCTCTTAAGTTCCT
AACTCTTGCTGACACCTGTCTAGCCTAACCCAAGCCAGGTCCCCACCACTGCTCCTCTGCCCTGGAGCTTTCCTGTGGAGAAGCACTGTTGGAG
TAGGCGAGAAAAACCCAAGAATGCCAGCCCAGCCTCTTCGCCATTTGAGCATCTCAAATGCCACCTCCTTAGGATTTCCCTTGGTTACCTTGTC
TAGTCATTCCTCAGCATTTTTTTTTTTTTTTTTTTTTTTAGATCCCATCCAGATTACAAGTATAATATCCCCCAGGAAAACGTTGATTCAC
TGGTAGTAAGTTAGACTTAGGCAAGAGAAGTTCCGATGTTCTGTTAGTCTGGTTGACCACGGATAATGAAAATGTATAGTTTTATTTAAAAACT
AAAAGGCTACAAGAAAGGAATTTGGCCGTTTTCAGCACAGAAATTATTCCGAAGAGACAGACTTATCCTGATATGAATATCACACAATGTGCAC
ATGTAATAAAACATCCAATGGTATCTTGTAAATAAATACAATTATGTATCAGTTAAAATAAAAAATATAAATTCTATAAAGCAAGGATCTGTCT
GCTTCTCTGCTCGAAGGGTCCCCATGGTCTGGGCCACTCATCAATAGCTATAGAATATATAGCCTGAACTTATGGCCTGGCCCTGTTAGTCTGT
CCTTGCTCTCAGAACGTGCAAGCCTGTCTCTAGAGTACTTTTCGCCTCCCACTGCTGTTAGTTGTCCCACAGTTTATAAAGTGCTCCGGTGTAG
CCAGGACAAACCATCTTGGAGCATTTCATGATGATAGACACAGGAAGAATATGTCACTTCCATTATGTGAATTAAGTCTCATGATTTCTTTTGG
AGAACTGAATAACCACCCGTCCTAGTTTGCTTCTCTGTGATAAAACAAACACTGACCAAAAGCAATTTGGGGGAAGAAAGGGTTATTTGGCTTA
CAGGAGGGAAGACAAAGTAGGAACTCAAGGCTGGAACCGGAGGCAGAAGAAGCAGAAGCAGAAGAACTAAGAGTGTTTATCAGCTTCAGTAGTT
CTCTGGTTTGCTCATTCATAAAGACCCGCAGCTCACCTGCCCAGGGACAGCATTGCCCATAGCAAGGAGGCAAAAAACAAAAACAAAACAAAAC
AACAACAACAACAAAACCCCTCCTTCATCAATTAGCAACAGGAATATGCTCCACAGACATGCGCACAGGCCAATCTGCCGCAGCCAGTTTCTCA
ATTGAGGCTCCCTTTCCCGAGGTGTTTCTAGTTTGTTCTCTGTGATAAAACAAACACTGACCAAAAGCAATTTGGGGGAAGAAAGGGTTATTTGGCTTA
CCTGCCCATCTAAGATCTGTTCATTTGGCTGAATCTGATCAACAGTTACCAACAATCTCACCCCAAGACGCTCACACACACACACACACACACA
CACACACACACACACACAACTGTCGACTTTGAATTTGAAGATTTTATTTGCCTTTACTAGGTGCCTAGCAAATAAACAGGAAGCCCTGTTAGGG
TGATGGCTTTTTTTGTTACAGATCTAAAAGAGTAAAACAAAACCCAGAAAATGTCTTTCTTCATTTTGCCCAAGACGACTGCCAGCATCTTGCCA
CCTGGAAGAAGTGGAAATCTTCTTTACACGCATTGTAACTGCCCATATACAGTCAAGGCGGCAACATCTGGGCTTATTGGTCTTGAATGGGTGA
ATTATAGTACCCAAGCTTATTTTTGCTTACAAGTTGGCCTTACATGCTTTTTTTCTTATCCCTTTTTTGTTCATTCAGGGGAGATATTCGTTAT
GCTTTCCCGAGGAACATTAAAATCCAAACGTTGAAAATGTCAAAGACTGTAACATTTGGGAACAATGGCTTTCACGGCCCTCTCACCTGTGTCC
CTCACACTGTTTTTTTGTGATGGTGGGGATTAAACCTAGGAGGGCCCTTTGAAGCCCAAGGACAAGCTTGGAAAATGTTCCCAAGTTTGACAAGG
TCTACTTGCAGAGTATTTTCGAAGGAAAATACAGGACATCCTGAGTAGGCGGTGCGAGGTGTGGATGGAGCCGGCAACCAAGGAAGTAATCGGA
TATACTAAGCAGTCCCCGGCATTATTATGCCATCCATTCTCTAAATCTACTTGGGTCAGGGCCATTCTGCGGTCTGTAAGTGGGGAAATCCTCA
CTTTGAATCTCTTCGGTGTAGCCTAGAGGGAGAAATACTAGCGGATCCCTTAAGGGGCGGGGCCGGACAAGGGGTGGGGCGGGGCTCCAGGACG
CACCGGAAGGAAGTAGGACTTGCACATCAGCCAGGGACTATGCTGCTGCGGTCGCTGCGTAGTTGGGCTGCCCGGTCCCTGCGTAGCGTGGGCC
CGGGGAGCTCCGGGAGCCCCGGGAGCCTCGATTCGGGCGCCGGGCCGCTGTGGGCACCTCGCCGCGCCTGGCCTCCGGGTAACTAGTGCTTTTG
TGCCACCTCGTAGGGGCCACACTGAACCCCGCCCCCTCACCTGCTAGTCCCCAGGAAGGGTCTGGGGACTGTGGGACCCTAATGAACTGTCAGG
ATCGGCACTTAGTGGGGCTCAAACGCGGCTTCTCGGCCCATTTTTTTAATTTTTATTTTTTATTGTCAGATTCTTTAGGCTTGGGAGGTGGCTA
GTTGGGGCACGAGCTGTATTTAATCAGCTCTTAGTGGATGCAGGTGTCTGCGGACCTAGGGGGCGGGTTCAGGCTTGCGACTTTCTCCTCTTGC
TGGCAGTGCGGATCTTTCTCTTCGGAAATGGAAGCCAGGTGACATAGCTTTCATTGGCCTCGGGCTGCTGCTGCCAGGTGGGTTGGCAGTGTTG
CCAGTCTTGGCCTAGACAGCCTGGGTCCCAACCCTTGGAATCTCTCAGAGTGTAGGTTATCCCTGGGTGCGCTGTGAAGATCCTAAGCACACAA
TCCAGGTGAAACGGAAAGTAGAATGTACCGAGCAAAGGAAACTAAGCAAGCACACATGGGCCTGGGCCCAGTACAGCGACACATACGGACCCAA
CTGTAGAGAGTCCCAAGAATGGCAAACATTTTTTGTAAGCCAGGGAACACGCATACGCAATGACTGTGTGGTCATTTATCAGGTCAGCACAGAG
CAGAGTGAATAATTGAAACATCGATTTCCTTTCCTTTTTTAGATAAAGATAGAGAAAATGATAAGGAGAAAAAAGCAGTGGTAAGTTTCTCTTT
GCATGCTTTCTCCAGCGTAATTTCGGTTTGGTTTTGTTTTTTTTTTTTTTTTTTTTTTTTTGAGGCGGAGAACAAAAACAATGGTGCGCACAGTGAA
AAACCAAACCCAAGACGATATCCAGGGTCACAAATCTCTCTTCCTTCTTGTGGCCCGGTTCCTCTCCTTAGATTCCATCACCGTTAGCCATTTC
TTGTGTGTACGGGCGGGAGTGGGGCCTCGAGCTGCATTCAGGTAGTAAGCACTCATGTTCAGGTGTTTGTGAACTGCCAAAGATGCTGACCGAG
CCATCTAAACGGCTTAAATTGCATCTATTTGCTTCACTGCCGATTGCCCCGCCCAGATGTGGGGGGGAAGTGTTCTTCTCACTTCCTTCTGCTG
TCTAGTGGAGACCAGAGAATCCACGAGGGACCTCAGGGTGGCCTCAGTCAGGAGGTGCTTGACAGGCAGGCTCTGGGGGTTGGGGCTGTGAGGT
CAAAGGAAGTGCAAGTTAGACAGGTTTAAATGTTGCAGCAGTATTTTGGTTACCACCAGCCCAAGGGGTTCAGTTTCTTCCTTTGAGATCATCT
CACCCCAGGCTGGCCTCAAACTTGTGATCCTTCGGCTTCGACCCCTCCTGAACACTGGGATTTCAGTTGTGTGTCACTCCCAAGTGGTCAGGGC
CCGTTTCTGTAAGGGAGCTGAAAGCCTTGAGCTCAGATGGCTGGGGAGAAGGCAGCTGGAGCACCTTAGTGCCTCTGGAGGGTGGAAGGTGTGC
CCTCCTGTACCCCTTGGTGGGGCAGTGGAGGTAGTCAGGAGGAAGGCGTGTCCCTGGGAAGCAGGAGTGACATCACAGGAAGAGGAGGCTTGGT
TTTCAAGGCTGGAGAAATGGCTCAGCAGTTAAGAGCTCTTGTTGATGTTACAGAAGATTCAGGTTTTTGTTCCTAGCACTCACGTGACAGCCCA
CAAACTGTTTACTTCCAATTCCAAAGGATCTGACCCCGCCTCTGCTGCTCTTCATGGACACCAGGCATACACTGGAGCACAGACGTACAAGCAG
GCAAACCATTTATCCATATAAAATACATCTAAAAAGTTAGAGGAGGAAGGTGGTGGTGGCGGCACAGGCCTTTGATCCCAACACTCGGGAGGCA
GTTCTCTCAGTTGAAGGCCAGCCTGGTCTACAGAGGGATTTCCAGGACAGCCAGAGTTACACAAAGAAACCCTGTCTTAAACAACCAAAATAAA
TAAATAAAATGAATGAAGGAGAGAAAGAAAATATGGATAGCTAGTGACATAGAATTTGTATTTGTAATTGTTGAGCTAACCTTGCCAAGTGTTG
GACCTGTTCTGGATATGGTCTGATGCACCCCTGGGTGTACAGTAGCAGTTTGTAGAAAGTGGTAGTGTGGAGCCTGGTCTCAGGCTCAGGGTAG
CCATTTAAGTACATTTTTGTGTGGGAGGCGCTGGGCTGGAACCATGAGACTTGAAAACAAAGCCATTGGCATTGCGCACGGTAACCTGACAGAC
GGGACAGTAAAAAGGACATCAGTGAATCTAGAAAGCAGTGAGTGAGCTTGGGGCTTTGAGGAGGGGACTCAGGACTCTGTGCAGCCTTGGGAAG
CCTTGATGCCCCCTGAGAGGTAGAGGAGAGGGGACTGTAGTTGTAAGAATGTAGAGAGAGCCGTAGGCTGGCTTTATAGTCTGTCCTTAGATAG

TGGAGGCTTGGAAGTGTTCAGAGAAATTGGGCTAGATGCCAACGTCAGAGTCACCAAAGGACTTCACCATAAACTGTGTAATTTTTACTAATTT
ATTTATTTATTTTTTAAGTTTTCGAGACAGGGTCTCACTGTCTTACCACGTAGCCCTGTCTGAATTGGAAATCACAGATCCTCCTGCCTCCGCC
TCCCTAGTGCTGGCATTAAAGGGTGTATCATGTAACCTTTGAGGAGTAGAAATTTATTTGTTTCGTGTTTCTGGGGGCTGGAAAGTTCAAGGTT
GAAGGACTAATATCTGCTGGAGGCTGCATATGTGTTTCATCCCATGGAAGAGAAGAGAAGACAAGACCAGACCCACTCCACAGATCATGCCTTT
TTTTATCAGGAACCCATCCACTGATAACTGCCCTACCTCCACAATACTACTCCCGAATTCGCCTCCACAAGTCACTCTTTGTGCATGACTGCTC
TATTTGCAGGTACACCTGCATGCCAGAAGAGAGCATCAGATCCTATTACAGATGGTTGTGAGCCACCATGTGGTTGCTTGGAATTGAACTCAGG
ACCTCTAGAAGAGCAGCCAGTGCTCTTAACCACTGAGCTATCTCTCTAACCCCCACCAGTCACTCTTGATGGCGGAGTTCACACAATCTCTCTG
CAAGGTCTAATCTCTCAACACTGTTGTACCGGGGACTAAGTTTCCAGCTTGTGAACTTTAGGGGATGCATTCAGATCGTAGCACTGCCACGCAC
TGTGGTCCGACTTGCCTTTCAGGGTGAGATGGTAGGGATCACAGCAGGAGAGCTGTGGGGTAAGCTGAGAGGTACAGAGGAGTAGCGAGGTCTC
CCTCTAGGAGTAGGAGAAATGCTACTTGTTTGTCCTTGGTTTTCATTAAACATCCAAATTGATTGGCAGTTCTGTAGGGTTACGGTGATCATTA
CTATTGTATTGCTCCTCCCCTGACAGGGTCTCAACTGTGTCCTGGCTGGCCTTGAACTCACAGAGACCACCTATACAATGAGAATGTTTAACTT
CCTTTTTTTGATATATTAAATGTTACTTAAAAAGAAAGGTGTAGAGTTGGGTATGGTGGTACAGGCCTGTAATACCAGCATTGAGGAGACTGAG
GTGAGAGGTTGGAGAATTTGAAGTTATCCTGGGCAACAGCAAGACACTCACATACATCCCCCCCCCCAAATAAAAGACTTATTTACTTTATTTA
TATGAGTATACTGTAACTATCTTCAGACAGAAGAGGACATCGGATACAATTACAGATGGCAGATGGTTGTGAGCCATCATGTGGTTGCTGGGAA
TTGAACTCATGACCTCTGGAAGAGCAGCCAGTGCTCTTAACCACTGAGCTATCTCTCCAGCCCCCCTCTGTCTCTAAATAACTAAAAAGTAAAA
ATGAGAGTGGGTGGATTTCCGTCGTAACGCGTGCTTAGCAAGCATCAGGTAAGTTCCATTCCCAGCACCAGAGAAAGATGCTCACCCGTGCCAG
TTACAGTGGCTGGAGAGTGGACTCTGCTTCTGGGGGAGAGTGGGCTGAGCCGCGGCACAGACACAGAACTTTGAGCCAAGCTGCCTGCATCCTA
CAGCAGCACAGCCTCCTATCTCTGTAATCTGTTACTTTCTTTGCTACCCTCACATTTACTGTGAACACTGTTGAGGCTGGGACCAGATTTTCCA
TATGATGTGCTGGGCTCATAGTAGGCCTTCAAGCAGTTGAAAGACTCAAACCTGCCTGGTTTACTGCCTTGTCAAATCACCACGTATTGGTGGT
AACTTCTAGCGAGGGTGTGGAGCAACAGGCTACTTGCTATATGGTAGGGTAGGCACTTCTCTGTGTGACCCAGAGGATGTGCAAGAAGGTTCTG
AAGGAGCAATCTGTCTTAGATTGAACTGTGCACCTGTCGTGATCTGCTGGAGCCAAAACCAAAATATCGATTGAGGGCTTCTCTGTACAAGTCA
GCAAGTTGGATCCTAGACGGCATGCACGCGATTTTTAGTCTCAAAGCCATTGATAAAAGTCAGGTTAAGGAAATGGGACACTTTTATACTAACA
CAGAACAGTGTGAAGGGTGGATCTAGGGAAGGGCTCAGAACTTGACTGGGCAGACAAGTTGTGTGCAGTTTAGGTGACGTAGGTGGCAGGGAGA
AGGGTGTGTTGTTTGGGCTGAGGATGTAGTCCAGGGGCAGATAGCTTGATTGGTATGTATGAGGCTCTGGGTTTGACCCCTAGCTTATTTAAAA
CAAGAACAAGCGGGACCGGGTCAGGTGTGGATGGATCACATGGGTTTGTCAGAGGGTGCGGCATGAGGGATGCTGATACTGTGTGGTGGGACCT
TGGGGGATTCCCAAGGTAGGGTTTTAGCTTACCTCTCAAAGTCCTGGCCCGAACCAAGAACCTGGCTATTCACCTGAGCCTAGTTCTGTCGTGC
TTTATCTCTATGCCTAATGTACATTTGTCTTCTGCCAGGTTTGTATTGAGGGCAATATTGCAAGTGGGAAGACGACATGCCTGGAGTTCTTCTC
CAATACAACAGACGTCGAGGTAAGGCTCTTACAGTGGGTTTGTAGGAACCCGAAACACCTCAGTGGAGTAAGTTATACCGGGCACAGAGAGCCC
TGTCCAGCAGAAGGCTGATGCGAGCTGCCAGTGAGCTGCACGTCTGATCCGGTGCCTTTAAAGCCTCGTGGAGTGAAGCAGGGGGAGCTGTAAG
ACAGCCCTGATGTCAATTAACATGTCAACATGAAGTCAGTGTTAAAGCAATGAATGGACTGTTCACATTCTGTGTTTGATACTCAATCCCTGGG
CCTGGAGTTCAGTTAGTGTTTACAGCTTTCTCAGTTTGGACTCCCAGATAATGCCCAAGGCATGATTTCTCAACTCCGGATTTTGTTTGACTAT
ACCGTGCTGCCAAGGCAGTATACATTCAGTCCAGTAGATTAGTAATGCACTTCAGCTCGGCCTGTTTTCAAGTGAGGACACAGCCCCCTTAAAG
AAGAGGCGCATCTGTGGTCAAGCTTCAAGGTCATCGTGGTTGCATGTGGCTTGTGGCCCCTGTATGCAGTGGTACATGAGCTCCCACCATTCCT
GTCTGAGAAGGGAACTTTCTGTGTGGGGGCTGCTGATGCAAACAGTATGGATCATCCTGGACAACTGCTTGCTTCTTGGGGAGCTGGGCTTTTG
GAATGTGCCAGGCAGTGATAGTCTGTGTAGTTATGTGACCCCTGAGCTTCCAGGCCTAGGTCACCTTTCCTGGTAGACAGTACTTGACATGTGT
TGTCACAACTTGTTGCTGGGAAAATTGAGTGTGTCTTGTGTGACTCCATTGGGCAAGGATACTTGGGAGTTCTGGCCCATCTCCCTCCAGGTAC
ATCCCCTGTGCAGATTTGGTGCTGTGACCTCTCATGGCAGTTAATATTGGCTGTCAGTGTTGGATGATGTCTCATCGATCATCAGCGACCCAGC
GACCGGCCTTGAGTGGTGACCCTCTGAACAGAACTTGAAAAGTGCTTATATCCTCACTGTAGACCTTGGGGCCAGTTAGCAACAGTAGCCGCAG
CAGTAGCTAAAATGATCCAAGGCACCGTGTTAAGTGTTTATGGCATATCTAATTGATTCCATGCTTATCTGCTTAACAACCCTCTGAGGTAAGC
ACTGTTATCTCTGCTGAGGCGAGGAAGCAAAGGATAACTGGCTTATAGAATTTATATGGTGTGATAGTTAATTTTAGGTGGCAGCTTGCCAGAA
TTAACGACTGCAGCAGCCTCCCCCACTCAGCGTGGTTTCAGTTACCCGAGGTCAACCAGGATCTAAAGTATTAAGTAGAAACTTTGGGATGTAT
TTAAGTTCTGCATTGTTGTACGATGTACCCAAAGAGATCTCATCCCGCCCATGTAAGCCATCCTGCTGTCTAGCATAGGAAAGAAAAGCATGGC
AAGTGTTAGGCTTGTTGTACCTGAAGCTTCAGGCATCCGCTGGGGATCTTGCAACCCCAGGAACAAGGAGGCAGCACTGTGCCTGGGGGCTGAT
GAAGTGTTACCTCTATACACGTTTAGAGGGTGCTTCTGGAGAAGACCGATATGTAAATTGGCAGCCTTACTAATATATAATATAACAGGTCATA
TAATTGGCCACAGTCCTGGATAGAACAAAAAGGAAAGAAAAGGATTTTCCCCCCCTCTTCCTGCTGTGGGACACCAAACTGCTGGCTTTCCAGC
CTTAGGACTTAGGGACTTAGCCAGAGGCCCCAGGCTCCAGGGTTTCAGCCCCATACTTAACATTACGCCAGTGATCTCTCTGTTATCAGACTTT
AGACCTAGACTGAGCTCTGCCGCTTGCATCCCTGGGACCCAAGCTGGAGACGACCTGTCATGACACAGAGGTCTTGGCCTCCATAATGGTAGAG
CCAATCTTGCTCACGAATTTCATCTTGTATGTCAGTTTCTATGTTCATGCAATTGGATCTACCTCTGAGGAGAGTCCTCACCTATCAAGTAGTG
TGTGTCGGGGCCAGTCCCAGCAAAGGCTGTGGAGCTTCAGGGATGCTGTCCATGTTTGTCTCCAAGCTGTGAAGAGCTTGGTTGACTTCACCGA
GCCTATTCCCCTCTAGACTGAGCCAGTTTGCAGTCAGTCACAGGAAGGACTTCCCCACCTAGAAGGAGCTGTGGCCGTTCAAGGGTTCATCCCA
CCCTTGGTCTGTAGTGCTTGCCTGCCTGTATTCTAGATTTGGCATGCTGTCACACGTTTGCTCTCCTTCCAGGTGTTAATGGAGCCTGTGCTCA
AGTGGAGAAATGTCCATGGCCATAACCCTCTGGTGAGTAGTTTGTCTCTTGCACAAATGCCAGCTTCCCTGTGAGTGCCTAGGAGTGCTGGTTC
TGAGGCCTGTGCCCAGCACAGCCAGTCTGTCCCCATTGTTCTAGCTCATTCAGAGGAAAGGGGAATGGCGAGCCAGGGATTTCTGAGGCCTGGG
TGGGTTTGCACGAAGCCCAGGAACCTCCCGTGAGGTGTCTCCAAGGTTCCAAGTGGCTTAGCTTTCCTTGGCACTTGTTCCAGGTCACCAGGTT
TCTCGATGAGCCTCTGACTTGGGTTTGGGCTTTACATTACCGAGGAATGGATCCCTGTGGTTTACCCTGGAGCTACCCATGTTCCTTGCCAAGG
TGGGGCTAGAGAGCCAGGGACTGTAATGTGCATGAGCCTTCTCCCTCCTACACTCTGAAAGCTTTGTGCTGCCTGCTTGAACAAAGACTGATAG
AAAGCAGATGCTACCAGAGGGGATGAAGAAGGACTGTGGTCCTGGGCTCCCGTGCTATGGTATGGGGTGCTTAGTATTTCTCAGCTAAGAAAAC
TGGTCATGTAGGTTTAGCAGTGCCTCGCAGTACCTCGGCAATACCACGTGTAGAGTCCATTAGACTCAGGCCCACAGCAGACAGCACTGTGTCT
GCTGGAACCCGGCTTTAGGACCCACTTGCTCACTCACTCAGGATTTATTACATACCTTTTATGTGGCCAACACTGCTTCGCACTCTAGGACACT
GAGCAATTTAATAAAGCCTCTGGTCTCCTGGCCCTAACATCCACTGTGGAGATGAAGGAGACAGGTATTAGAATGTGGTGGCGAGTGACAGGAG
CTGTGAGGAGAGCTACAGCAGGTGAAAGGATGCTAGTTAGATAAGACAGAAGCTCACAGTTTTAAAATAGGAATCGCACAGAGCTGTGACAGGA
ATCTCACTTGTGTGCATGTGGGAAGAAGATGGGATTGTCAGCCATCTTTTAGTATAACAGAGATAATCCATTGCCCTTCATANNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
GTCTGAGACTAAAGGAGACACTTCACAGACCAGAAGTACAGTCTCAGAAGGTCGCATAACAAGTGTTATCCTTACCATCTCTTCATCATCATCG
TCATCACCACCATCATCAGATATATTTCCACTCCTTTCTGCTGGTTGGAAACACAAGACTGCTGCTTGTGTGACAGTTACTGGCTCACCACGCT
GGCTCCGTGATGCAGAAAGTCGCCTGTTTCCGCAGTCATCCAGCTTCTGACTTTGCTGAGATTTTCTTTGACCCATAACTAGGAAAGCCTTTAG
TTCTCAGTGCTGAGCACCGAGTGCGGAAGTGCAGAAAGGAAGCTGGCGTCCTGTCACATGCCTGTGATCTCTCCACCCGTGAAAGCTGAGGCAG
GAAAACCCCAAGTTCCTGACCATCCTGGTTGTTTAATAAGACTCGGTCTTCCCTCTTCTCTCCAGACAGAACCCCATCCTTATCCGTCCAACAC
ACACCAGCACACACACACACACACACTCGTGCATATGCACACGTACACCCTAGAGAGAGAAGCAAAAGATTACTAGAATTACTAGAGAGTAGAC
TGCAGCAGGAAGTGCTTTTATCTGTAGGTGACAGAAGATTGAGGGCTGGCCTCTATTTTATCAGGGTAGGTAGGACAATGCATCTCTATGAAGG
CGACATTTGTCAGAGACCTACATGTGAGGGAGGGGGCACTGCAGGCACCTGGAGGAAGAGTAAAAGAGGCAGGTGCCAGAGCCCTGAGGTGGGG
GCCTGCTTGGCATGCTTGCAGAGCACTAAGGAAGTTTGTGTGCCTGGAAGCTGATTGGCCAGAGAAAGAAGGGTAAGAGACAAGTGGATGAAGG
TGGGTTTCTAGGGCCTGTGGTTCAGATGGGGGTTTAGATTTGATTTGCACCCAATGCAAAGTCCCTAGACGGGAGATGTTAGCAAGCTCATTTT

GGCTGCTGGATAGAGAACAGACCACAGGGAAACTCAAAGGCCAACTATGAGTGTCTAAGTGCCTTTTCCTCAGGCAGCACATCCTGGTCTGGCT
GTTAGGGGGCTCTCTTATAGTTGTGTTCACATTTGTCTCTGTCCACCTACTCTGAGATTCCTACAGCTGTCCTGAGTACATCTCTGGCCTCAGC
CCTGCCCCTGTGGGTTTCCTGAAATGGCTTTCACGGACTTCAAGACCTGGGCCCTGCCTGTACTTGCCACTTGGACACAAAGTGCTTTGCTTTC
CTCCCTGCAGAGCCTCATGTACCATGATGCCAGCCGATGGGGCCTCACACTGCAGACGTACGTGCAGCTCACCATGCTGGACCAGCACACGCGC
CCTCAGGTATGTCACAGGTCTCACTTTCAACCTTATAAACATCCTTCAGATTCAGGTGTTGTCAGATAGGGACATCATAGTAAATGTCCCTTTG
GACCTTTATGCTGTCCAGTCTTCTGACTTCAGTAAGGTCTCCTGTCCTCACAGGTGGCTGTGCTGGTGCCATCCTGAGCTCACATCTGTAATCT
GATGAAAAGTTGCTAAGGATAACACACACAATGCAACCTTCTGAGACTGTACTTATGGTCTGTGAAGTGTCTCCTTGAGTCTCAGGCATCTAAA
CTACTACCCTTGTCTTACTTGATATCAAGCCTTGAGTTCTCTCTGACTTCTAGAAAGTATGAAGGCCGGTGGTTTTTCTCTATTATACCAACGC
ATGCACACAAGTGAGATTCCTGTCATAGAGCTGAGTGATTCCAGCTTTTGACCATCCTTTAACACAGAATCCCTGGCTTGGGGCATCATTGTCA
CCTGGGGGCTTGTTAGAATTGTACATTTCTCATCTCCTCCCCAGATCTACTGAGTCAGGAAATCTGGGGCTAAGGTCTAGGAGCCTGCTTTATC
CAGCTGTGCAGGACTCCTGGATATGTGTTCTGCGTGTCTACCTGTTTGAGAGCAGACCTTTGTGAGGTCTGGCTTTCAGATTCTCGAAAGAATC
TGATTCACCTTGGGTCACAACCAGGTGTTGGGGCAGGACAGGACACACAGCGATACTTAGGTCCTTCCATTAGCAGGAGCAGGTTGTCTTAGGA
GGTCAGGTGGCAAGGGTGACCATGGTTGCTACCTATGGGAAAAGCTTTATACACAGGTAGACCCTTTCCCTGTAGGAGACAGGATACCCCTATA
GCCAGTTACGTTAGCACCATCATTAGGCTGAGCAGTTGGCTCCAAGTGTGGCTCCCTGCAGCTGTAGGTGTCATTCTTCTGTCGACATCAGTCT
GTATCTTTACAAATTGACAGATGGGAATAGAATCTTTAGAAGAATATGAATTTGTCCTTTCCAATGGTTTCCTAAGTGACAGAGAGCAGAACAC
CTGCAGTTAGCACCTTCCCCTTGGTTTGCTCTGCTTTGCCTAAGTGGGCATTTTAAATTATATCCGATGATCTGTGAATATTATGGGATGTGGG
CTGAAATCTGCTAAGGAGGCAAAGGCAGAGCTGGCTGGACTCAGCAGGAGAGAGATGGCTGAAGAGGGAGCCGGAAACAGATGGGAAAGAAAGA
TAGGAGCAGCACGTGCAGAAGGGACAGAAGGAAAACAGATGGGTGCGCAGAGCCAGGAGGCCGGGAGGTAAGCAGCGAGTGGGCTGTAGGCTTG
AACGTGCTCTGGGTCACACTGTCTACTAGGTGTCGGATGGGCAGGTCCCTCCTGCTCTCCAAAAGGACGTAGTAGACGAAGGGAAAGATGATCC
ATGGAGGGTGTGAGCAACTTGCAGAAAGGTGATGTGCAGCCTCTTCTCTGTTGGTCAGAGTACTTTTCAGTTCCAGCAGGCAGTGCCTCCCTAA
CCCTAGTCTTTTGGGGCTCTGCTTCAGACACCCAGGTCCCTGGCTCAGGGCTCCACTCACCAGACTGTGTCAGCGGGGCAGCTTTGCCAACGTG
TTCCATATCCTAGTGAGTCTCCCTTCTCCTGTGAGAGCAACTGTGGGGCTGCTGGCAGCCCTGGGCCCCCACATGGCTGCCTTTACTGTCCTCT
GTCCTCTAAACTTCAGGATGGCTCAGGTCAGGGTGGAGGGAGACACACAGTGAGTCTCATGGCAGATTTGGCTTCTGTTGACTGTTGTCCTCCC
TCACAGTCTCTGTCCAGCAGAGATGGAAGGGACCCGTAAGAGGACTGGGGCAAGTTCTTCAGGGCTTCCTGTACCTTCCTCCTCGCCTGAGAGT
AAATCCCTTTTTCCATTCCTTTAGATGTCACCTGTACGGTTGATGGAAAGGTCAATTTACAGCGCAAGATACATTTTTGTAGAAAACCTGTATA
GAAGGTACTGTAGCTTGTATAGCCCATCATTTATTAACTGATTTTGTGTATGTGTGTTTGTGTATATATATTAATATGTATATGTGTGTTTAGG
TGTAGGTGGGTGTGAGCATGTAGGTGTGAGTGCATAGGTGTGGGTATGTAGGTGTGGGTGTGTAGGTGTAGGTATGTAGGTGTGGGTGTGTGGG
TGTGTAGGTGTGAGTGCATAGGTGTGGGTGCGTAGATGTGGGTGTGTAGGTGTGAGTGCATAGGTGTGGATATGTAGGCATGTGGAGGCCAAAG
GACAGCCTTGGGTGCTGGTTCTCAGGAAGTATCTATATTACTTTAATTATTTTTTCTTTAGGTTTGTTTAGTTTTATGGGTATGAGTGTGCTTA
CATATATGTATGTGTTCCAGGTGTGATCATGGAGGACAGAAGAAGCTATTAGATTACCTGGAACTGGAGTTACAGATGGTTGTGAGCCATGTGG
GTGCTAGGACCTGAATCCAGGTCCTTTGAGATAGTAGCAAATCCCTGAGCCATCTCTCCAGCCCTCCACTGTGCTTTTTGAGACAGGGTTGCTC
ACTTCTTAGTTATCGCTTCTAGGCTAGGCTGACTGGCCAGCATACCTCAGGGATCTGCCTGTTTCTAATTTCCAGTGCTAAAATTGCAAGCAGA
TAGCCTCATGCCCGTGCTTTTACATGGGATCTGGCAGCTGAACTCGGCTCCCCATGGTAGCACAAATACTTTACCATCAGAGCTGTCTCCCTGG
CCCTAAACTATTGCTGGTGGAGTTAGTTGCCTAGTTACCTGACAGATTCGGAGTACCAACAGTATTGATGAGCTTCGGTTGCTTTATAATGTTG
TGTAACAACCACCAACCCACTAGTGACAGCCACCTTCCTTTATTGCCAGGTCAGTTTGGGAGGTCAGCCAAGTGGCTCCTTTTACCTTGGCTGG
GCTTAGCAAAATGCCTGGGAGTGGGCTGGACTAGAATGGACTTGACCCAGGTGGTCCAGGCAACTCATTTCTCTTCCTCACCTGTCATCCCC
TCTGGGACCAGAAGCAAGCATAGGCCCTGTCATCTCATGTGTGTGGCATAGGGCAAAAGTCCCAGTGGACACACAGCGGCATGCTTACATTTGT
TGTTCCGCCCTTGCCCACATCCCATTGGTCCCATGCCTAGGGATGGCAGGCGAGAGGGCCAAGGGGGTCCATGGCACAATGCAAGCTTCTGGGA
AGATGGAGATTTGGGATGCTTAGAGCAGTTAGTCTGCCCCGTGCTTATGCTGTGTATAGCTTCTGTCCTCAGTTATCTAGACAGTTGGAAGGCT
TCAGGTGCCCACCCGGGCTTAGGGCTCCAGTGTGGGCAGGGCCTAATGTCTGCTCAGGTTATTGATAATTTGGGAGGGTCTTAGAGGAAACAGG
TTGCAGACTGAGGTCTGAAGTTTCAGCCTTTTCTGAGCTGTTTCCATCTTCATAGCCATGTATCTTGTCCTCATGTCCTTGTCAGTGCCCGATT
CTTACCACCTCTTCCTGCTCTGAGCCTGCAGTGCCACTGCCACTTCTTAGGCAGTCCTGACACTTGTACAGAATGTTCCTAGCTTCCCAGACCC
CTCCCTCCCATCACAGCTGTCCTTATGGTTCTGTCTCAGCCCTTCATGTGTCTGTGTGTCTGTGTGTCTGTGTGTCTGTGTGTCTGTGCCTGGT
GCCCATGGAGGTCAGAATAAGGCATTGGATCCTCTCAGACTAAATCTATGTACACAGCTAACTCCATTTCCTAGGTGGAAGCAGCAAACAGTTC
AAGACAAAGGATAATTATCTACATCTTGCTAGTGGGGCAAGCAAGGTGTGCGGAATAGTGAGAGGCTCCGATTTCTCTTATTCAGGTCATCCCT
CAGGCACCACTGAAGCCCCTCCTCTCTCCACACTGGCTTTACTCATGCCCTCTATTACCATACTGAGCAAGTCCCCTTGTACTGAGGCCGCCCA
GGGCTCTCTGTGTTTATCAGGCACCTTCTGGTTGAGGACTGTGATGTAAACGAGGTCCACCAGAGGGCAGCCACTGCGTAACTACAGGGGTTCC
TGCATCCCTATGCTTTAGCCCTTTTCCTGCCGGGGAGGCCTGGCCTTCTGTCCTGGGAACAAGACTGAGCTCTGAGAGTTGTCCTTGGGATTGA
GGGTTTATGGTGCAGGGTTTCCTCTGTGTTGTACTCAGCCTGTGGGTTCCATTTCACACGTGGGACCTGAGGTTTTGCTGGTTGGGTTTTTACA
CTTCTATGGTAAAGAGTCCCAGGTTTTTGTCCAGGTCTAGAGTGGAGCAGCTGTCAGCCAAAGGCTTTCTGTTTTGACAGTGAAAAGGGTTTTG
ATCAGAGCTTCAGAGGACCAATAGGAGGAGAAGGGAGTTTGGGGTTCTTATACGGTCACTCTCCTCGTAACTCCAGCATGCCCAGTGCACCGGT
GTCTCACAGGGGGTGCTATAGAGAAAGGAAATTGTCTAGAGCTTTCTACCTCCTGTTCCCATCTCATCGAGAATTAGTCACCTTAGGTAGAAGG
TGCTGAAAAAACAAAGAGGCTGATAGATCCAGGACTGTGCAAACTGCAGTTTATTAGGGACTGGGGGCAGAAGCGGCNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NTAGCTATCTGAATATCTATTTGCTCCTTAGGGCTTGAAATACACGCCAGGTTCTCATGGTGGATAAAATAGAGTTACGACAAACATGTATACG
AGCCGTCAACTTGTTTCCAGCCTGAAAGCTGGTTCTGTAATGCAGAATTAGCTTTAGTGGTATCCTTAGCCTGTATTTGGACTAAAATGTCTTG
GTTCTTACCTGTGGAAGCTCAGCTGGGCACTGGTATGCTTCCCCACTTCCTGTGCTGCCCATGGCTTGCTAATGTGCAGTGGTGGAAAGCCCTT
TCATAGACGGGTCTAGTCATGGCTGACCTGGCAGTGCCAGGTTCATCTTTTCCCCAGGGATCCCTAGACCCTTTGCTGAGGATCTGGAGGTGGG
GGCCTGGCTCTGCAATCTGTAATTGAAAGGTTGGGTTTCTGGAGAAGCCCACAGATATGAATTGGTGTTCTACATTTCCTCAAAGCAAAATTTC
TCCGTGTTCTTGCCTTTGGGATCTTGAACAAGTAACTGCGAAGGAGAGACATACCTCTTCTGGTGAGGTAGGAAGGCAGAGTGAGCTCAGTTAC
ATCACTAGCAGTCCGAGAGCTTTGTGTGGATTACTGAAGAGGAAGGTCAGCTTTCATGCTGTCCTCAGAAACAGGAACTGAGCTGTGTGCACTG
GGCTGCAATGCAGAGCTAAAGGTGGCACAGAAGCGTTATGGCCAAAGAAGCCACGCAGGCAGTTGTGTAGTAAGCTCTGTGGCTGAGGGATTGA
GCAAATGTTTTACAAGACTGCTTGGTCTTCCTTTCCTAAGGTCAGGGTAGAGGAATGGAGTGGGTGCAGCTGGGAACATGGCGTTGACTCACCT
GGCACATGGGAACAATGGGCAGGTCCTCCCTACCTCCCTGCCCAGCCCCAGAACCAGGAGGCCAGGCCACAGAAACACGGGGGATCCAGGTTAG
CCCCTCAGGGAGGACAACAAATGCAGTGGAGAGCAGGTGGGACTGAGGGCAAGGCTCTGCTGGAACACAGGGCTAGAAGAGGAAACAGTGTATT
TAAGTATCAGGTTTCTGTCTTAATTTGTTTGAAATAGTGTGTTATTGTGTAGCCTAGGCTAATCTGGAACTAAGAATTTTTATGTAGCCCAGGT
TGGTGTCAATCATGAGATCATCCTGCCTCAGCCTCCTAAGTGCTAGGATTACAAGCAGGTGCCACTTCAACCAGCCTTTGATTTGGTTTTTTGA
GCATCAGGTACTTTCAACTGAACTAAATAGAAACATGGTACAAAGTATGGTGAACAGTGGGACTGTCCATGGCTCAGCTAAGGAGTTGAATTGG
ACTCTCTGTGTTTTGGTCAGGGTTACTATTGCTTAATGAACACCATGACCCATAGCAGCTTGGGGAAGAAAGTATTTCACTCACAGTTCCATGG
ATCAGCTCAGCATCAAAAGCAGTTAGAACAGGCAGAAACTTAAGCAGGACAGGAACCTGGAGGCAGGAGCTGATGCAGAGGCCGTGGAGGGGTG

CTGCTTACTGGCTTGCTCCCAGTGGCTTGCTCAGCCTGCTCGCTTATAGAACCCAGCGTGTATGTGTGCTCATTATACACAAGTGTGGAGCCCA
GATAAGGACACAGTCCCTGCTCTATCACATTTATACCTTCTTCTCTGAGACAGAGTCCTTGACTGAACCAAAGCTTGCTTTCGGTTAGACTTGC
TGGTCTAGGAGCTCTATCTGTCCCAGCACCACAGGGCTGGGTTTAGAGGCTCAGGGCCATGCCTGGCTTTTTTTTTTTCCCTATGGGGACTTGAA
CTCAGGCACTAATGCTTGCAGAGTAGGCACTCTTATTTACTGAGCCTTCTTCCCAGCATTGCTTTTTTTAGTCTTAATATTTAAACTGTGTAATA
GTGCCGCCTCACTCTTGTTCTGAGCACTGATACTTTGCTCAAGTTTAAAAAGTAAAGAGCCAAGGAGGAAGAGTCTACAGTCTGCAGCTCAGAG
AGAAGCCCTGCAAGCATTTCTGTGTATCTTTTCAAATGAGGACATATGTTTTTTGTGTGGTTGAGGCATATGCATACAATTTAGCCTCCTGTAT
CCATTGAGCAGCATCAAGTTCAGAGTCTTTCCCCTGTCTGCGTATGACTTTCCTACATCATCCTTCAGCTACTGTGTGCTTTTGCTGCAGAGAT
AGATCAAGACTTCATTTCTCACAATGCTGAACAGTGGTGCATGGCGAGCATCCATGAGCATTTTCACAGAGAATGAGTTCTAGAAGTGAAAATG
ATTGGCTGATCCACTCCCAACTTGAATGATGTCTCCACGTGTAGAGGGCAGACTAAGATGCTTTGTCTCCTTGGAGTTCATTCCAGAGTAGGCT
CCATCAGTCACTGCTGGGGCCAGCTCCCATCTCCCAGTGGTGGAAGGTCAGACAGACAGATGCTCAGGGTCCTGGCAGTACCATGTGGGCATCA
TCTGTGGACCACACTATGCAACATGCTCTTGGTGCTGCCCTTCCAAACAAAAGCCACCCCTTAGTCCTTTGGGGGAATGACACAGCACATGGGT
GAATAAAAATCTTTGACCTCTGATTGCAGTGGGAAGATGCCCGAGGTTGACTACGCGATTCTGTCTGAGTGGTTTGACTGGATCGTCAGGAACA
TTGATGTCTCTGTTGATCTGATAGGTAAGACAGTCTCTCTCTGTCCCCTACCTGGAGGCTTCCCTGGGCACAGCTGGGGTATACTTGGGAGGTT
CTACCTTGGATCGACAGAAGGCAGGGACACCTATCACCTGTGATGCCTCCTCTATCACAGCTCACCAAGGCAGGCAGCATTTAGGGGGTTCTTC
TGTCCATGAAGGAACTCTGGCCTTGGTTCCTTAAACTTCCTTCTTCTGGGTCAACTACTTCTGGTGGCCCCCATTTGTTCTGTTTTGATGGCTT
TTCAGTATTGTGTGGGAGGGACAGAAATTGAGTAGTGGCTAAAGCCAATGGCTTGCCAGACCCTGTCTAAGAATGGAATTCCTTTAAGCTTCAT
GATGATACTGTAGGGCTGAGGACAAGAAAGGGGACTGGGGCCTGAGGGTCGGGAATCCTGTTGGTCCCACAGACTGAGCAGGCTTGGTGAGGCT
CCTGCACGCTCCACCCCAGGCCTGTGTTGCCCTTGTCTGCTCCCACACCAGGAGCACAGCACTCAGTCGCTTGTGGTTTTACTTCTCAGTTTAT
CTGCGAACCACTCCCGAAATCTGCTACCAGAGATTAAAGATGAGGTGCCGGGAAGAGGAGAAAGTCATTCCGATGGTAAGAGACCAGAGCCACC
TCCACCTCATCCTGCCAGCCCTCTCCTTTCCTCCACCATGACACTATCACGCTTATCTGGAGCAAAACCCAGGAAGTACGACTGAGGCAGCTCA
GGCTTCCTCTATGGCTTTGGAGCCCTTGTGGGTCCCAGGGCCACTTTACTTCCTATGTTTCCTGACTCAGGCCTCTGCACCTCCATGTACACAC
ACACACACACACACACACACACACACACACACACACACACACACACACGTACAGGCACACCCCCCCCCCCCACACACCCACTGTGTATATACTC
ATTTGTTCTGTACAGTAGCTTGTCTTCACACACGCACATGCATGCACTCACACCCCATGGACTTAGACAAATGTGCCTTTGCATAGTAGCTTCT
CTTCAGCTGTGATGTCACTTTCCTGGCCTTCCTTACATTGCCCCTAGGCCTCCTATGGTGATAGCCCTCAGAACAGCATATTGGCAGAGTTTGT
TCCCATTTATCTTTACACCATAAACACTTTTAGATTTTGGTTTTATTTCTTCTGTCTTCAACATGTGTCCTGGGGCCTAGCACCTAGCAGTTGC
TTAGTTAATACTGGACTGAGTGTGAGTACTTTATGTGCACAGTTGTCCTTGAAGGATAGATAGGGGCAGGCTCTTTTGGGACATCATGGTGCTC
TGAACCTAGGATGAGACCTAAAAGCCAGGTGTGGTGGCACACACCTTTAATCCCAGTACTCTGGAGGCAGAGGCAGGCAGATTTCTGAGTTCGA
GGCCAGCCTGGTCTACAAAGTGAGTTCCAGGGCTATACAGAGAAACCCTATCTCGAAAAACCAAAAAAAAAAAAAAAAAAAAAAAAGATGAGA
CCTGAAAGACCAGTCTGATCCCTTAAGCTCAGCCAGGTTTTGTTTTGGACTAACAAGAGACATCCCAGCCATGAAGGCCTAGGCCTTGCTCTGG
GCACTTCGTTTGAAATCTCAAAGACAGGAGTGATAGAGGATGGAGCATTGTGGGCTGTGCTGTAATGAGGCTTGGCATTTAGAAATGCCATGTC
TGGAGTTCTTCCAATCCATTATCCAAGGGGTTGCCAAGGTCTTTAGGACAAGCTTGGCTCTAGTACCAGGGGGAGTCCAGGCTGTTCATGTCAC
TTCCTAATAGTCCTTGAGAATTCTGCCCCGCCCTGTCCCTGTGAGACCCTTGGTGGGTGGGATTCCCCCCTCCCCTCTCCCTACAGCCCTTGTG
TTTCCATGGCAGGAATACCTCCATGCTATTCACCGCCTCTACGAGGAGTGGCTGGTCAACGGGAGCCTCTTCCCAGCTGCAGCCCCTGTTCTGG
TAAGTCACTGTCCCTCCCAGAGAATGTCACCTGGACAGAGACTCAGAGGGACTCGGACTTGAGGAGGCTAGTTATTTTAGTAACATGTCGTACT
CATCATCACCACAAAGAAGTCCTCAGTTACTCTGGACCTGGGTTTGCATTTGGACCTTTGGGGATGATGGTGTCCATTCTTCAGTGGGTGACAC
GGAGCCCATCGTCACCCATCGTCATAGTTAGGTGACTGGGCATCTTCTGAAGGCATCTCAGTGGTTGTCCTCAGTTGTCACACAGTGGCACCTC
AGGAGCTGCTGAGGTGTAAAAGTGCCACGCTCCTGCTGCCTCCAAGCTGCAGGCCAATGTAGCAGTGCTGGTGTGTCCTACCTATCCATATGTC
CTACTGTGTGTCCTGTGCCCCAGTGTGCTCCTCCTGAATTTCCTCAGGCAGGCAGGTGTACTTGAGGCCGTCTCACATCCAGCCGGTGATCATG
GGCTTTTGTTTATGCCCTTGGGCTGTAGGCCACAGAGACATCCTGGTGCTAAGAGACAGGTGATAAGGGACATGTCACTGTGGGAACTTTCAGA
GTTTATTGTTTCCTTCACTGTGAAAAGCAAACCTGAGAGGGCTGGGAAAGTGGCAGAGTGGCAGAGAACTTGTCTAGACATTGGAGTCCCCGGG
TTTAGCCCCCAGCAGAGCCCCAACTCCTGTCTCAGTGAAAAGAAAAGGCATTGTTGGTGGGATGTGGAAATCTGGTTGAGAGTGTCAGTTGCCC
TGGAGCCAGAGTGTGTGGTTCTGACCCTCTTGGCCTCTCAGCCTCTTGCCTCCCCAGTGGGGATGGAGATGGCCAGTGCAGCCTGTGACCTGTT
TGTTTTATTTCCAGGTGATTGAGGCTGACCACAACTTGGAGAAAATGTTAGAACTCTTTGAACAAAACCGGGCCCGGATATTAACTCCAGAGAA
CTGGAAGCATGGACCCTAGGACTGAGTGATCTACAAGACAGCGCCAGGAACAGCCCAGCCAGGGCCAGGTTAGCTGCTAGGAGCATTTGGAAGA
ATCTACTCTTAGGAGGGTCTGTTATCTAATCAGATCTATTTTCTCAATGGTCTTTTCACTGCAGTACAAATGGCTTTTGTCTGTCAGATGCTTG
CAGCATACATCCCTCCTGGTGCCCCTCCTGGTGGCTTCCTAACGATGAAGCCCTGTGTTAAAATCACTGACTGTATCCCTGGGGTTGTTCTGGA
TCCTCTGCATCAGGTCACCTCATGGGTGAGGGAGCAGTCTTCCACCCCAGGCAAGGATTTGAAGCCCAGAGAGGTGTGGGGACTCGTCAAGCCA
GAGCATTGTGGAGGGAGCTGGGACCATTCAGATACCTGGTTTGGGCTGCCTCCTCCTAAGCTGTTCCCCACCGCCCTGCTGCTCTGAGCACCAG
CCCCCGCCTCTGTGAGAAGAGTGGACAGTTTGTGAATTCCATCATCTTTCAGTACCGGGCCAGTTCAAGGAGACCAGACATCACTAGGTGTTGG
CACACCTCTCTTATTTGGCATGAGCCCAGGGTGTCCTGGTATGAGGGTACTGTGACCTCTATCCATTCCTTTGTCACCTGGACCTCGGTGTCCA
CTGGGGACTCCTGGATCGGCCTCTGCTTGGTGCCAGAGTCCTTGAGGATGAGTCCTCCCCAGACTCTACCAGTTCCCTGTCGTTTTGTGTCAGA
AAAAAGGGGGTTATGGGACCTGGACACTTTACCCTTTGCTGAGCGAGGCCAAGGGCAGCCAGCTGAGCTTCCAAGACCCCATCACTCTCTCCTG
TCCTTGTGTGAGGAGCAGTGTCCCCTTGCTCCAGGGAGAGTGACAGTGGCCTTAACTCCTTTGAAGTGTTTTTCCATCTGAGCAGATGTCATGG
ACCACGAGCATGAAGAAGTCATCTCTATTGGATCAGAAAATACCTTAGCTTTGCTGAGCCGTAACTGTGCACTGAAGGTGCAGCTGTTACTTGA
ATCAGTCATGACCAAGAGAGGCCGGCCATTCCTCAGGACCGTGAGACTGGAAAGTCATGGTTTGCCAACAAAGACAATTTAAGCCTTGCTGCTC
TTGACATTCTAGAATGGATGGAGTGCATCTGGAAAAGACTGGACACAGATGATACAGGGGAATGATGACCGTATACCCTGGAGAAGCACAGCAC
AGGCTGGGGAGGGGGCTGCAGGGGAGCCCTGCTCCCCTGTTTAGCTGCCTGGGAGCTAGAAAGAGGGCCAAGAGTCCAGCTCTTGGTCCTTTCT
GTTTGGACCAATTCTTGGCCCTTTTGGTAGTATGAAGAGTAGCATCCAGGGAGATTGTCCATCAGCACCTGCAGTCCAGCAATGGATAAACCTG
AGAAAGGCAGGAACTTTGAACCAGCAGTACTCATGGGGGCATCTTTAGAATTTGCAAACGAACAGTCTAGTACTTGCCCTTTGCTCTACCAGAA
CACTTGTTTTGGGGAGAAATGTGCTGTTTCTCTTTCTCTCTAGTAGCCAATAAAATTCTACAGCTAAACCATGATGTAAATTCATTTTCATTCA
TTCATTCATTCATTCATTCATTCATCCATATTCTCTCTCTCTCCCTCCCTCCTTCTCTCCCCCTCTCTCTTTCTCTCCCTCTTCCCTCCC
TCTCCTTTTCACTCTCCCTCTCTTCTTTGAGTCAGGTTATATTTTATAGACTGGCCTGGCCTTGAACTCTCAGAAGTATTTTTGCCTCAAACTT
TTGAGTTACAGGCATGTGACACTATGTCTGGCTTGTGTGTTCACTTTTGAGTTGACTTTATTTTATTTTTATTGTTATGTTTTGTGTTTTT
GCCTGTATATATAAAAGTATGCCTGGTGACCATAGAGGCCAGAAGAGGGCATTGGATCTTTTGGGACTGGAGTTGCAGTTGTGGCTTGCCATGGGC
ATGCTAGGACTTGAACCTAGGGTCCCTAGAAGAACACCCAGCGTGCTTAACTCCTGAGCCATCTCTAGCCCCATGTGTTCATTTTTCAAACACC
ACATTTTATAGTATAGTGCGCATGGCTCAAAAAAGAGCCTGCTGTCCTTGCACTTCAACACTGCAGACAGGAGATCATCTCCAGTAATGGCTAA
GGTTTGCAGAACCTTCCAGCTCAAAAGATCACACTCAAAACAGCCAGAAGCATCTTTCCCAAGGACTGCTATCAGGCAGACCTGGTAGGGGCAG
GGGTCATGGAGCAAGTACCAGCACTAACATCTCATGGCCAGAAAAGGGCAGGTAACACATGGTGGGCCACAAGGCCTAGTTCTTAGACACAGGG
CATCACTGCCTTCAGCTGTCTCCGAGTGGCTGGTGGAGCGTGGCAGGGACTGGCATCCCTGAAGAGCTAGAGTGTTGTCACTTGATCCTAACCA
AGACCACTTATTCCTTTCATCTGGGTCAGATTTCACAAACTGCATTTTGGAGGGTCCCTTCTCAGTGTTTGGAAAACGACCTGTGGCTAAATAA
ATGTGGTAAACACTCTGCCAAGCAAGGTGCCCTTGCTTCTGGCCTCCACGATTCCTCAGGCTAAGTAGTAGGCTACTGAGGTGTGGTATTCCTG
GAGGGAGAGAGAGGTACTTCCCGACCTCGTGGACTCGCTTCCTAAACGAAAACATTCTTTTTATTTTGAATCATGTATATGCCCATGTATCTGT
GGCGCCCCATATATGTACATATATACACACATATGTACCTGTGCACAGTGTGCACGGAGTCCAGGAGAGGGCCCTGAATGCCCTGGAGCTGTAG

TTTCATGTTGTGAGATGCTGGACGACGGTTCCGGGGATCAGATATGGGCTCACTGTGTATTTTCCATAGCTCCTTTGCCAGGTAATGTGAGGCC
GGCAATCTAGGGATAGTTCAGTAACTTGGGGCTCTTCTGGTAGGCTAGGTACATCTCCCTCTTCTAATAATAACGGGCAACCTAGCTCCTTTAT
ATGTACATACTGTGCACACACCCCTCCGTAACCAGGTTACCTAGCAATATGGGCTCACTACCTCTGTCAGGTTGCGCACACACACCTTGAAACA
ATGGGGTGAGTTTCTCTTCCTCTAACAACAATCAGATGGTTTCTATTCAAATATATTCCTAGTGTGTCTGTGTATAAAGAATAGAAAGGCTGGT
GTGGCCTCAGCTGGTTTTGGGTGTACATGCAGGATAGGCAAAAACACTTGTAGGCAGAATCTTCTATTTTTACCATCTTATATGCCTATGCCTA
GCAGGGTGTGTGTATGATGAATGTCAGATGCATTATGAGAATCGGTATGCCCAGCAGAAAGATGGTTAGATGTCCAAAGCTATCAATCAAAACA
GAACCACCTCTTAGTAACAAATGATTCTCTTGGGAACCGTAATCGGAGCCTTGGGCATCCTCACCCACTCGTCTTGACAGTGTGTCCCTCTCCA
GTCTGTTCCATCACTTTGCTCTGATTAGAGGTACTTGCTATGGCAAGGGAGCACATTCAGAGACCTTTTAGATCTGTAGGGTCAGGCTGGAATG
CTGACAAGGCGCACACTTTCAACCCCTCTGCCTGTAATACACACATAAAATGCCTTTAGTACACACCTTCAATCCCAAACAATGCAGCTAAGGT
TAGGTTGTAGAAGGAAGCAGCCATATTTGAAAGTGATGTCTAATTGAGTGGTAGAGTGACAAATGAGAGAAAGATTTGACAGAATAGGATATGC
CCAACTCTCATGAGGAGAGGGAAGGAGAAGGGGGAGGCGGGGGACAGGTCTACCAGGACAATATTACTGAGACAGATTGCGGGTGAAGACAGAA
CGAGCCGGAGAACGAGAAGGAACCAGAAGATTAGAAACAGACTGCCAAAGTTCCGAGGTCAAGCCGAGCAATTCAGTCAGAAGCTGAGAGAAGC
CAGTTTGAATCAGTCAGCTTGGAGAGAAGTTTTGAGCAACTGAGTTGAACCAGCCAGCCGGAGCTCAGAAAGAACTAGAAAGAGTGAGCTTATT
CAGCAGTAAGCCTCGAAGATGCCAATTATATCTGGTAAGTTACATTTACACAAATTGGTGTGAGCTCGTCTTCTTTTTTCTTTTTTTTTTTTTT
AGCCATTAAGTTAATTTATTGAAACAGTTGACTTAGGCATCTACAGTGGTGACTTCAGCCTCCACTCCTGGCTCCATATTAATGGAAGCAGTCC
GCTCGACAATCTCAGAAGGACAGTGTAGATCACTGAGTAGCTTGTGGATCCTCCTTTGGAAATGATCACGTTTGGAACCTTCACCACAAGGGGT
TNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCATGGCTGAGGCATGGCTTCCTGACCGACTTGTTCTTCAGCAGGAGGGAACAGCGGTGA
GTGGGGACGGAGCAGACTGTACAGCGCTCCACAGCCCGCACCACCACGTCTCAGAAAGCTGAGCCCTTATTTTCAATTCTTTGGGTAAAAGGCC
AAGAACCTAGAAATACTTGCTGCAACCCTGACAGTTCTGACCACCAGTAAGAAAGGCAGCAGGTTCACAGGTTCTGAGATTACGATACAAGCAT
CTTTGCATGGGAGGGGAGTCCTGTGGTCCACCATCCCAAGTCTAGCTGATACTCAAAGTCATACCTGTCCAATATTGTGAAACTTGGTCGTTGA
GAACAGGGGTGGGGGGCTTCTAGATGGGGAGATGCAGGACTTTAGGTCCTTGGCGATTCGGGCTGGTTTTGTGTGTCAACTTGACAGAAGCTAG
AGTCATCAGAGAGGAAGGAGCCTCAGATAAGGAAATGCCTCCATGAGATCCAACTGTAAGGCAGTTTCTCAATTAGTGATCAATGAAGGAGGGC
CCATTGTGGGTGGTGCCATCCTTGGCCTGGTAATCCTGGGCTCTATGAGAAAGCAAGCTGAGCAAGCCAGGGGAAACAAGCCAGTAAGCAGCAC
ACCTCCCATGGCCTCTGCATCAGCTCCTGCCTCCAGGATCCTGCCCTGTGTCCTGACTTCCTTGAGCTGTGAAGAGCGAGGTGGAAGAGCAAGC
GAAATAAACCCTCTGCTGTCTACGTTGCTTTCTGGCCATGGTGCTTCAGCACAGCAATGGAAACCCTGACTAAGACACTTGACCACGAAGTGTG
TCCGTGGGAGCCAGAGTCTCCACTCTCCCTGATTTTTGGAGGCAGAGGCTCATGCCACTCAGGCTGGCTCAAACCCAGTATGGAGCTGAGCCTG
GTTTTGCTCTGATTCTCTGGCCTCCATCTCCTGAGTGCTAACACGCACTTGGGCATCTTAAAGACACTAATCACCGTGTTTGTCTTCCTATCTC
TTTCTTTAATCCCTTGGCTGTGGGCAGATTAGTTCCTTGAAGAGAAGGCGGGAGTGGCCTCCTTTTCCACTCTCCCAGACCTCGAAAACTGGCA
GACTCAGTTTCCCCCTTCTCATGGGATTCTTCTGTTTGCTTTGGATTTCTTAGTAAGTGAACCATTTCCCCAGATCTAGACACCTTAGTCCCCA
GCACCCATTGGGCCTAAGAGCCACCCACTTCTAGTTCTCAAAGGGAAGCCATGATTGGGAAGGAGAGTGAAAACGCTGCGTATGGTTGCTGAAG
TCCCCTCTCCGGCCTCACATGTTTGAACCTGTCCTGCTTCTCCACGGCAGCTTCCTGGCCTGATGCCTGCCTCTACATTTGGCCGGCTGAAGCC
TGGTTATACTCTCTGGGCCCTCAAGAGAGTGATGCGCTCAGAGAGAACCTGCTCTCACTGATGCCCAAGCACTTAGCTGCAGGGAAGCAACGGG
GATTAGTGCGGAGGTTGGACAACGGCTATTCAAGAACTTCTTTTGTCTCAGCAGGCCGGAGGACCTTCACTTTCAATAGCCCTAAGGTCCCTTG
TATAACCTATGAACTTGGGCTCATAAAGGAGAGAGATCCAGTTAAGGATGCGGCCTGGGCACAGGGTCCCAGGCCTGAGACTCAGCACTTAACT
GTCATCAAGCTCATGTGTAACACCAGGGAAAGGGCTGTTTTCTGTCAGAATAGAACCGTATGTTGTTACATGTTCTCTCCCTTGCTCTGCCGCC
AACCACAGCCACTTAGAGGCTCCAGCAGAGTCCTGTCCAGTCCAGTCAGAGTCCTGTGAGATCTGATACTTGCTTTCTGGAAGAGAAGCATCT
CTTCATTCTGGGTCAGGAACCAACCAAGTCAGACATGGGACATTTATCGTCATTTTACCAATGGGAGAATGGAGACAGTGTGGTGGTCAGAGTC
CAGAGGGACAGTATATCAATCCATGCCCTTGGACTTCCTGGATCTAGCCACAAATGAAGCCTGACTTATCACTTGGACAATTTAGTCACATGAC
CCAGTAAGTATTCTTTCTTGCCTCTTGCAATTGAATAAAGAAGGGGGTGATGGTTGGGGCTCAGAGCCTGTCAGAGGGTCAAACTCTCCATTTT
AATAGAAAACAGCCCTGCAGCCCCTCCCCGGGCCCCAAGGACTCAGCCTGATGAGGGTGACAGTTTGGTGGCTGAGACTATAACAGGGCTGCCG
CCTTGGAATTTCTTGGAAATGTGCTGAGCAGACACAGCTCTGCTACAGCCCAGTGGTCAAAGGTATACCTAGCTCCCAAGCTCAGACCCATTAG
GCTTTGGCTAGATAAGGGCTCTTGGGCTCCAGAGAGTTAGCATGGGCTTGGGAAGTACCGCGAAGCTAGGCAGAACAGAACCCAGGACAATAGA
TCGCTCTCTGATGATAAAGCGGTGGCCTTTATATCCAGTCCTTGGACAACCATGTTAGTGTCAGAGGATGCAGACGGGAGCTGGGAGCAGGTGT
GAGCTGCACCTGGCTGTGCAAACGAGAGCCTTGCATGGAGAGGGTACTTGTGTGGGCACCAAGGTTGTCTGAGTAAACGTGTAGGAAGGAGGAG
GGAGTTATGTAATGGTGCCGTGTGCATGCACACGGTTTGTATATATGAACACAGGCTTAACCCAGTGATGGTGGAGGGTGCGCATGGTAGCCAT
GGACTGCTGTTAGCCTCGCTAGTGACTTGTTCTTTCCGTCTGTGCTTCAGTGAGGCCTGGTGCTTAGCAGTGGCAGAGGCCTCTGGTTGCTAGC
CAAAGCCTGGGACTTTCTGTGCCCATCCATAATGATTCAGCTACGGTATGGCTTTGTCTGCCACCCGCTGTGGCTTCCCTGTGTGAAGGCCTCT
TCTGATCTAAAGAGCCTGCATGGCAGGAATCAACACTCTGTAAAAGGCTGCCTCAAAACAGCGCTGCTGAGAGCCAGGTATGAGCGACACGGAG
CTGTCACCTCCGAATGCCTGACATCGAGGCCTTCAAGGCATGGTGTACCCTGTCTCTTGGGTTGCCACTGGGAGAGTTTGGTGGCCTGCATCCT
TTCAAGCTTTCATCTCCCGCCACCTCCACCTTCTACTTCCCCGATGCCATTTCCCTGACCGGCGCTTTTGATAGTATGGCCATGTACCAGGAGT
TGGTCCTGCTTCTTCCTGGCTTACCATCCGAATGATGGACCATCACATGCCATCTCCCAGGGATTCCAGGCACCCAGCTGTTCTCCTTAGGCCT
TGTCCCTGGCAAACAGAGGGCTCAGGCTCTTTGTAGGAATGGGCAGAGCCCTGAGCAGGATGCCTACAGCCCAAGGAGTACGTGGATAGAAGAG
ACAGGCAGAACCAAGAGGCTGAGAGTCCCAGGAGTTTAAATCGTTAGAATGAGCGTCAGTGTAGGTGGTCCGGGTGGGAGTCAGCATGTGGCTG
GACACCAGCACCATAAAGGAGGTAGAGCCCCACAGTGCAACATAGTAGCAAACAGAACAGAGGGCCAAGTGTTTTGCATAGAGAGGAGAATGCA
GCCAACAGGAATTATCAGAAAATGAGACCCAGAGACAAAATCTCCTCTTGAAAATCAGCGGTATAATACAAACCCGGGATCCAAACATCAGGCT
CATATAGCTGTGAGTGTCCCACAGCAGCAGTGGGCTTAAAAATAAAAGGGATTTCCTCCTCCTCCTAGGGTAGAGTCTGTGACAAATGAACAGT
GGCAGCAGAGAGCCAGCAGGGGGCAGTGTGTGCTTGAGTTAGGCCAGTTGCAGGACAGCAGGCCTAGGGATTTTTCAGAAGGAACCTGTGGGTC
CCTGTCTCATAATACCCCCGACACCCCCATCTGCCTCACTTTGTTCAGGGTCACACCCCAATTTTAGGGTGTGATTTTTGGGATTCTCTGTGCT
AGCGGAAGGAAAACATGTCCGAGAAAGACAGTCTCTGTGCGTAAAAAGAGGTCACCAGGCAAAGCCTCTGTCTGAAGGGCAATGAGAAAGATGA
GTGTTTCTGCAGAGGGAAGCATGGAGCATATTTCTATTTTCCTCAGAAGGATAAGCCTATGGAGTACTGAAGGCCAAAAGATGGTACCTTGTGT
ATGTGGAGTCAAGTTCTGAAATTGGTGGCTCATCATATCCTCACATCAGACAGGTCTCAGAGGAGTGGCAGCAGGCTCCATATGAAGGGGGCTG
GGAGATGGCTCAGTAAGTGAAGTGCCTGTCGTGCAAGCAGGTCCAAGTAGGAGGATCTGAGTTCAGATTCCCAGTACCACATAAAGTCCAGGTG
CACAAGCACAGCGGGGCACAGGAGGTCTGGGGGACTTGGGTGGCCAGCCAGCCGGTCTAAACTAATAAGGAAGCAGAGACAGGAGGATCGCCCC
CTGGGCTACATAGCAACATTTGTTTCTAAAACCCAAACACAAGCAGAGAAACAAAAGAGGAAATCCCATGAGACTGTGCAGACACCCCCTCCCT
ACAAGAGCGCCACCTGGCGCAAACTTGAGAAACAGCCAGCTGGGCGTCTCAGCGTTCAGAGGGCATACTTAAGACTGCCTGTTTACAGGGTTC
CCTTCACCCTCTGAATTTGCAGCCACCAGGAACCCGCCGGGGCCCCTATACACCCCTCGAAAGTATCACTTCCTTCTACGTATTTGTTGATAAT
GAGCATTTATTTTGAGTACAGAAAAGATACATTGCTGCTTATTCAGCCTAACCTAGGAAGGAGAAAAGCTGTTCCGCAGATCCCTCCGACGTGG
TGAATAGGCGGGGATGTTTTTCTGCCCCCACCACTTTCCAGAGCTCTAGAAACAGACTGCCTTTCTTAAAAAGAGTCTCATCCCCGGGGTGTGT
TTTAAAGGCTGGACAGTACCACAGACAGACATCTTTGCCTAGAAAGCAGAACGCCACAAAGGTGGGCAAAAGGGCTTGTAAACAAGGCTCCCTC
CCCCAGGCCTGGGACTCTAGGGTGCTGCCCGCAGCCTGCAGCCGCTGCCGCCTAGATGCTACAGAACTGGTGGTTGGGCCCTTTCGGCTCTGCA
TCAGAATAAATGCTTTCTCTATAGAAAATAAAAATCCTTGCTACCCCTCTGCTTAGGAAAGGGATTGATGAATTTTCTTAGCCCTTCATTGGAG
GAGTTGAATGTGGGAAGGGGTTCAGTGGGGATGGGTCTGCTCTTCTGGGATGACCGTCAGAAGGTAGGAGTCCGGGAGGCAGGAGGTCTCACTC
CCTGCCAGCGGCAGTGCTGACAGGATCCTCCTCAAAGGTGCTTAGCTTTGGCAAGCCGGGTCTTCAAAGATGGCCTCGTCACCTTATATAGTCT

TCGATGGAGATCACATCGCTGGAGCTCAAAGGCTAATATCTGAGCCTATCTCCAACTGGCTGCCTCCACACACCTGCTTCCGTGATGGGATGTT
GGCAGCAGACACTGGTCTCATAGTGACATGAAGTTTTTTTTGTTTTTTTTTTGCTTTTTTTTTTTTTTTTTTTTTTTTTGTGGGGTACATGTGTG
TGTGTTGTCTCTGTGTATATCCCAGAGAGGCAAGGCCAGACTTCATCAGCCCAGTCCCCAGCTGGGAGTTACCACCCTGGATGACAGCGCTGGC
TCTTTGGTTGGTCTGAGACCTCTTACACCCAGGTCACCAGAGCTGGCTGGGCACTTACTGAGCAGTGGACTCTTCTGTGCCTCCTCTGAGTGAT
GTCTAGGAAGCATTATGTGTGTATGGGGCTGCCCACACCTTGTTTCTCTTGAGCTCTCAATCCTGGCACAGACATTAGAAGAACTGTGTTGTTC
CTCCACGATACAGGCCCAAGGGCCTGTCTCCCCCTGAAACTTAGGGTGGGTGTCTGAGCTAACCCCACTAGCACCGCCACACTAAGGACATCGA
GACAGGCTAAATGGGCTGTGAGGACCTCCAGGTCATGCCTAAGCCACCAGACCTGTTTCTCTCCCACCTCGGAAGTGGCAGGACGGTGACATTG
TGGCTCTTCAGCCCTGGAGTTGAGAGATAGGCACAGTGCACAGTGGGACCTTATTGGGACCTGTCTCAGCTCCCAATAGGATAAGCCCTGGGGT
AGGAGTTATGGCAGGAAGCTGACCAAGCAGTCTCTGCAGGAGAATCAGATTGTGGCCATAGCCTAGAGGAGGCTGGGGAGAGGATAGAAAATTG
GGTTTCCTATCTCACCTCTGCCCAGCACTGTTCAGAGAGGCACGGCCACCAGGCACCAGGCTGGGGAGGAAGAGATACCATGTAGGGAACACCT
CATCCAAAGAAAACCTTCCCAGGTGAGTTTGTGTAGTAGTGGGACATGTGCATATGCAGGTGTCTACATATGTGTGGGTTGTGTCAGTGTAAGC
ACTTGGGGATATGTCAGTATATATTGATAGTCATATATATGCATGTGCATGGGTTGTGTGTGCACCTGTATGCCTGGAGGAGAGAGGGTAGCCT
GGAAAGACCAGCGGAATTTATGAGCTTGGCCACTCACACAATCCTTTCAGGGCTGGGCATCGGAGCCTGGGTTGGGATGGGTGAGCCCTGGGAG
TTACTTGGCCATGGTTCTGGTCCTGGCAATGGCAGCAGGTCAGATGGAGAGCCTGTCCCACACACAGCTTCATAAGGTGGCAGTGTGTCCATGG
AGACAGTGTGGAGTCTGCTCTGACCCTGGGTCCTCTGCTCTTGCTGACGGTGGCTGCGGCTCTGGCCGCTGTCTGAGTCAAGGGCGCCATTCAG
CCTGGGACAGGAGTCAGTCATGGAGTAGGGCGGTGGTGCATCCGTGGGGACATACAGCTGAGTGGCCCCTGGTCCCATGCATTCCTCATAGCTG
TGAGAGAAGAGTTTTCACTCAGGGGTTGTAGATTCTGAGACCTTCGGGCAGATGGAAGAGTCTGTATTCTGTATGGCAAGGAGCTGCCCTCATT
GTAGAATACAGCCAACTTCATATATGCTGGCTCCCATGAGACCCTCTAGTCCTCAGGGAGGACAGTCTGACACCCTTAGCTGGGTCAGACTTGA
CCCTCACATCCCATGTGAACCAAAGCAAGTCCTTACACCCCTGCCCCTCTCTGTGGGGGTTTTAGATTCCCTGGAGCAAGAACAGCCCTGTCTAG
GGAGGAGTCCCAGCCTGGGCACTGTGAATGGGCTCGGTAGGACCCACTGAGACATCTCCACTGCTGTTTTCTAGATTTAGGAATGAGTCTCTAG
CCCTGAAACCAT

MOUSE SEQUENCE - mRNA
ACTATGCTGCTGCGGTCGCTGCGTAGTTGGGCTGCCCGGTCCCCGCGTAGCGTGGGCCCGGGGAGCTCCGGGAGCCCCGGGAGCCTCGATTCGG
GCGCCGGGCCGGCTGTGGGCACCTCGCCGCGCCTGGCCTCCGGATAAAGATAGAGAAAATGATAAGGAGAAAAAAGCAGTGGTTTGTATTGAGGG
CAATATTGCAAGTGGGAAGACGACATGCCTGGAGTTCTTCTCCAATACAACAGACGTCGAGGTGTTAATGGAGCCTGTGCTCAAGTGGAGAAAT
GTCCATGGCCATAACCCTCTGAGCCTCATGTACCATGATGCCAGCCGATGGGGCCTCACACTGCAGACGTACGTGCAGCTCACCATGCTGGACC
AGCACACGCGCCCTCAGATGTCACCTGTACGGTTGATGGAAAGGTCAATTTACAGCGCAAGATACATTTTTGTAGAAAACCTGTATAGAGGTGG
GAAGATGCCCGAGGTTGACTACGCGATTCTGTCTGAGTGGTTTGACTGGATCGTCAGGAACATTGATGTCTCTGTTGATCTGATAGTTTATCTG
CGAACCACTCCCGAAATCTGCTACCAGAGATTAAAGATGAGGTGCCGGGAAGAGGAGAAAGTCATTCCGATGGAATACCTCCATGCTATTCACC
GCCTCTACGAGGAGTGGCTGGTCAACGGGAGCCTCTTCCCAGCTGCAGCCCCTGTTCTGGTGATTGAGGCTGACCACAACTTGGAGAAAATGTT
AGAACTCTTTGAACAAAACCGGGCCCGGATATTAACTCCAGAGAACTGGAAGCATGGACCCTAGGACTGAGTGATCTACAAGACAGCGCCAGGA
ACAGCCCAGCCAGGGCCAGGTTAGCTGCTAGGAGCATTTGGAAGAATCTACTCTTAGGAGGGTCTGTTATCTAATCAGATCTATTTTCTCAATG
GTCTTTTTCACTGCAGTACAAATGGCTTTTGTCTGTCAGATGCTTGCAGCATACATCCCTCCTGGTGCCCCTCCTGGTGGCTTCCTAACGATGA
AGCCCTGTGTTAAAATCACTGACTGTATCCCTGGGGTTGTTCTGGATCCTCTGCATCAGGTCACCTCATGGGTGAGGGGAGCAGTCTTCACCCC
AGGCAAGGATTTGAAGCCCAGAGAGGTGTGGGGACTCGTCAAGCCAGACATTGTGGAGGGAGCTGGGACCATTCAGGTACCTGGTTTGGGCTGC
CTCCTCCTAAGCTGTTCCCCACCGCCCTGCTGCTCTGAGCACCAGCCCCCGCCTCTGTGAGAAGAGTGGACAGTTTGTGAATTCCATCATCTTT
CAGTACCGGGCCAGTTCAAGGAGACCAGACATCACTAGGTGTTGGCACACCTCTCTTATTTGGCATGAGCCCAGGGTGTCCTGGTATGAGGGTA
CTGTGACCTCTATCCATTCCTTTGTCACCTGGACCTCGGTGTCCACTGGGGACTCCTGGATCGGCCTCTGCTTGGTGCCAGAGTCCTTGAGGAT
GAGTCCTCCCCAGACTCTACCCGTTCCCTGTCGTTTTGTGTCAGAAAAAAGGGGGTTATGGGACCTGGACACTTTACCCTTTGCTGAGCGAGGC
CAAGGGCAGCCAGCTGAGCTTCCAAGACCCCATCACTCTCTCCTGTCCTTGTGTGAGAGAGCAGTGTCCCCTTGCTCCAGGGAGAGTGACAGTG
GCCTTAACTCCTTTGAAGTGTTTTTCCATCTGAGCAGATGTCATGACCCACGAGCATGAAGAAGTCATCTCTATTGGATCAGAAAATACCTTAG
CTTTGCTGAGCCGTAACTGTGCACTGAAGGTGCAGCTTGTTACTTGAATCAGTCATGACCAAGAGAGGCCGGCCATTCCTCAGGACCGTGAGAC
TGGAAAGTCATGGTTTGCCAACAAAGACAATTTAAGCCTTGCTGCTCTTGACATTCTAGAATGGATGGAGTGCATCTGGAAAAGACTGGACACA
GATGATACAGGGGAATGATGACCGTATACCCTGGAGAAGCACAGCACAGGCTGGGGAGGGGGCTGCAGGGGAGCCCTGCTCCCCTGTTTAGCTG
CCTGGGAGCTAGAAAGAGGGCCAAGAGTCCAGCTCTTGGTCCTTTCTGTTTGGACCAATTCTTGGCCCTTTTGGTAGTATGAAGAGTAGCATCC
AGGGAGATTGTCCATCAGCACCTGCAGTCCAGCAATGGATAAACCTGAGAAAGGCAGGAACTTTGAACCAGCAGTACTCATGGGGGCATCTTTA
GAATTTGCAAACGAACAGTCTAGTACTTGCCCTTTGCTCTACCAGAACACTTGTTTTGGGGAGAAATGTGCTGTTTCTCTTTCTCTCTAGTAGC
CAATAAAATTCTACAGCTAAAAAAAAAAAAAAAA

MOUSE SEQUENCE - CODING
ATGCTGCTGCGGTCGCTGCGTAGTTGGGCTGCCCGGTCCCCGCGTAGCGTGGGCCCGGGGAGCTCCGGGAGCCCCGGGAGCCTCGATTCGGGCG
CCGGGCCGCTGTGGGCACCTCGCCGCGCCTGGCCTCCGGATAAAGATAGAGAAAATGATAAGGAGAAAAAAGCAGTGGTTTGTATTGAGGGCAA
TATTGCAAGTGGGAAGACGACATGCCTGGAGTTCTTCTCCAATACAACAGACGTCGAGGTGTTAATGGAGCCTGTGCTCAAGTGGAGAAATGTC
CATGGCCATAACCCTCTGAGCCTCATGTACCATGATGCCAGCCGATGGGGCCTCACACTGCAGACGTACGTGCAGCTCACCATGCTGGACCAGC
ACACGCGCCCTCAGATGTCACCTGTACGGTTGATGGAAAGGTCAATTTACAGCGCAAGATACATTTTTGTAGAAAACCTGTATAGAGGTGGGAA
GATGCCCGAGGTTGACTACGCGATTCTGTCTGAGTGGTTTGACTGGATCGTCAGGAACATTGATGTCTCTGTTGATCTGATAGTTTATCTGCGA
ACCACTCCCGAAATCTGCTACCAGAGATTAAAGATGAGGTGCCGGGAAGAGGAGAAAGTCATTCCGATGGAATACCTCCATGCTATTCACCGCC
TCTACGAGGAGTGGCTGGTCAACGGGAGCCTCTTCCCAGCTGCAGCCCCTGTTCTGGTGATTGAGGCTGACCACAACTTGGAGAAAATGTTAGA
ACTCTTTGAACAAAACCGGGCCCGGATATTAACTCCAGAGAACTGGAAGCATGGACCCTAG

HUMAN SEQUENCE - GENOMIC
CAAACCTCACTCTTGCCCCAGCTCTTGTTCACAACTCAATACCCAACCATTCAGATACACCTGCAGGTCCTGGAGGGTCATGCTCTTTCTCCAC
CTAGACCCTCACATATGCTGCTGCTTTTCTAGCAGAAAAGCACTTTCCCTTCCCTGTATCAGTCATCTGCTAACTACGTTTCATCCTTCAGCCC
TCAGTTTGGGCACTTTTTCTTCACAGCCTACTGTGACTTGGTCCCTTTCCCTTGCTGGGTTGCATCCACGCCATCCTAGGTGTATATCTCTCAT
AGCACCTATATTCTCTGTGTTGCTTCCTGGGTGCATTTAAAGTTTCTGAGGTACAAGGTTTTTGTTTTGTCTTAACCAAAGAACCAATTACAGA
ATCTAGGATTAGCAAATACTTAACATTTGCTGAATAAATAATTTCATTAGATCAAGATCAGAAAGGATTCTGGGTTTCGTAATGGAGCAAAAAC
TTAGTTACCCATATAACACCCCATTTCTAAGAGATACAATATCAGTAAAGTTTGATCCTTAGAGATTTGGGGACTATTCCTTTCAGTGTGCTAC
ATATAAGCTACTCTCTCTCAGTGTATTCTGTTACACTCCTGGCTCCCAGTTTATTACTGGGACATGTAAGAAACTCCAAGGAATTATGTTTGGA
AAAAAAGAAAGGCTAAAATGTGTTAGTTTTATTAAACTCTAGAGAAGCAGAGTGTGAAAAGCAACTATACAAGACCTAGAGGATGTGGACCAGT
GTTCATTATCCTCTTGAAGAAATCTTTAGAAAAATTTAGTTTAACCCTTTCTGCCACTAAATGAGGGCCAACTGAGGAAGACTTTGTAATCTCT
TCTCCTAGACCTCCCTCCAACGAAGTCCAGCTCTGAAGTGTACATCAAGTAGTTTTGAGAGGAGAGGTTCTATGAAGATCCTATTTCCCAGCTT
TTCCCTTTTAGGACTTTTAAAAAGCTTATGATTTGCCTGAAATGCTTGCCACTGGCCTTGAAGGTGGTTCCAGAAGGTACCATTTAAAGGCATG

CTTATGGTTTAAGAATAGCTCTAAAGTCTTTTCTTGTTAATAGGAATTATCAGCTTGGATATTAGCACTGTGGCATCCAAGAGGATGAGACCAC
TGCAGCCAAGGAAGACATGGCAGCAATCAGTCCAGCCAAAGAGGAGAAGGGCAGCAGGGGGATTCAGGAGGGAGACCTACAGAGACAGGATGCT
GGGAATGAGACTTGCAAGAGGACAGAGGAGAAGTCACTCAGTTTTTCTTAGAATCAGCTTCTAGTCCAGGCTGAGGGGCTGCATACATCTTAAC
GAATAACTTCAATCTGCCCAATTTGACAGTTTTCAGAACCATCTGGGCATTCCACTGGGCAGTTATTCCTAATTATATGAGTATGGCAGGTTAC
AGTCTATATACTATGAAATATAAGAGGTGCCAACATTATTTAGTAATAACTACAGATATTTTCAAGTGAGATAACATTGTACTTTAGCCTCCCC
AATTAGTTTGATTTTCCATTTAGTGACCAAAGATGTGCAAGGATAGATACTTGTGTATCTGTCTCCATCTCTATCCCAATTTTGAGGCCATATT
AACATGCATCCAAATAGGTAATAAAGATTAAGAATGCACTACAATTTTGTTAACATGGTCCTAAATTTAAATTTCTTTAGAAGATCTATCCAAG
TGAATTCTAACAGAAGCGTCAGCCACATCTACTGATAGATGGTGCAGAGAACTTATGCTCTGTGGCTGCCCTGCATCCTTGAGACCCTCTCCCA
AAGCAATACAGGGCACATTAGCAATGGGTAGAGCTCCTCCTTCCTAAGCCTAACAGAGATTACCTTAAAGGTTTAAGAGAAGCAAAAAACAGAG
TTCATTAGAATATCTCACTATGGTAGGAAAAAGTAAAATTTAAGGATGAAACTGAACACTTACAAGCAAAGGCCAAAATAACCACTTCATTAAT
CGATCAAGTCTGAGTACATATAAAAGTATGAAAAATAAGATAACGGTGACTTCAAATCCAGTGATAACAATATATGGTTCAGGGGCTTGTGCGA
TGATAAAAAAAGGTCATAGATGTCACAGTTAGTGCCTAGAAGAAAAAAACCCACGATTTATTCAGTGACAACTGAATACAAATTTAAACTGTAAA
AATGACAATTTCTAAAATAATAGGCTGGGCACAGTGGGTCATGCCTATAATCCCAGCATTTTGGGAGGCTGAGGTAGGAGGATCGCTTGAAGCT
AGGAGTTCAAGACCAGCCTGGGCAACATAAGGAGACCTCATCTCCAAATAAACAAAAATAACCAGATACTGGGGTTTCTGCCATATACACACAC
ATATAAAACAGCCATGCCTAAAGTGTATGATATTGACTTCTCTTTGTCTTTTAGAGGACTGGGTATTCCTCTCTGTTTTAAGTCCAATTAATTA
TTCCTCTTGTGCTTCTGACACTATCACTTCCCACATCAGTTCTCTTGATGTTTTTCCACCAAGTACCTCCGTTCCCCCTTGTACTTTCAATCTG
TCCTCTGCTAGCTCCTTTTCTCATCATCCTAGAAACATCTCAGTTGTGTTCTTTTAAAATACACACACACATACTCCTTCCTTTTATCCTGCTC
CCCACAGAAACCCTTGTTCTGTTTTCTACTGTTGTTATGCTTCTTCAAAAAGTCTGTATACTGGCTGTCTATAATTTCTTACCATCCATTTATC
ACTCCTTAATTCTTAACAATCTGGAGTCTACTGTCAGATTTAAACTTAGAATGCTGCCATGAAAAATACTGAGGAGCAAAGTTCAAAACAAATT
GTCAGGGTGGGCGCGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGCAGATCGCCTGAGGTCAAGAGTTTGAGACCAGCC
TGGCCAACATGGTGAAACCTTGTCTCTACTAAAAATACAAAAATTATCCAGGTGTGGTAGCAGGTGCCTGTAATCCCAGCTACTCGGGTGGCTG
AGGCAGGAGAATCGCTTGAACCCAGGATGCGGGGGTTGCAGTGAGCTGAGATGCCACTGCACTCCAGCCTGGGTGATAGAGCTAGACCCTGTCT
CAAAAACAAAAACAAAAAAAATTGTCAGAGAAAAACAATTCTGATGTTTAATAGCTTTATTACCAAAGTACCATTTTTTACACACCCCACCTAA
ACAATGCAATCAGAATCTATGCTATTTTAAGTGGAAAAAAAAACATAAAAAACTCTGAAATTTCTTCATTTCCAAATGAAGATACAGAACATGG
CAATGTTAAGTGAAAAAAATAGCTGGTGGGTCCCAGGGGAGTTCTGTCAATGTTCTTAGGAAATAAAGCTCTTTCCAAAGCTCTGTGTTTTTGG
TAAATGGTTTGGTCAAGAGTCTTCCCTGGCTAGACTTTTAAAATATCCTGTCAGCTGGTAACATATACATACTCATTTTAAGTCCATATAGGTT
ACTTATTCATAATTCTTCCAATTACTTTATTAGCATAAATATGCCTTTCTTTTAAACTTCTAAACTGATCAGTTTGATTACAAATAACTAGTTA
CTAAGTAACTTCATTCTTTATAATTAATATAATTACTATTAGCAACACATAATCTCAAACTACTCCAATTACTCTATTGGACCAAGGTCTTCAG
CCCACAGATTATGAAATGAAGGGCCACTTTTTCAGTCCCTATCCTCTGTAACCTTTTTCATCATGGTGATTTGCACTGGTGATTACTCCATTTC
CTTAAACCTTTCTATGGTTTCTGTCAAACTGTGTTCTCCTGTGATTTATATTTACAGTTCTTACATCTTTCCTAAGCTCCTGGCCTTTGTTTCC
AGTTATCTTTTACATATCTCACTAATAATATTTCAGACATTACCACTCTATGGATATTGCTTTTGCTAACATCAGTGATTTCAGAAATACTAAA
TTTAATGAATGCTTTTTTCTTTTTTTCCAGTACTTTGAGCTGCTGTTTTACAATGAACATTTTTCATTCCTTATCCTAGTGGACCCCTATGACG
TTATTGCCATTGGCTGTCCTTCCCCTACTAGTGTTTTCTTTTGGCTCCCGTGTCAGTTCTCCGAGATTTTAAACCTCCGCGACTGTTCTCTCTT
GGTGGGTTCTTCTCCTTTTATTCTCCCCTGTAAAATGCTGTCATTCTCATTCCACTCAATGAGTCTGGGTCTCTAACCCAGGTCCATTCTCCAC
ATTTCACACCAAGTAGCCATTTAGAATCCCTATCTGGATAACCTACAGGAATCTCAATTCACCATGTCTAAAACTGAAATCCCGCCCCTTCCTC
CTGGATTCACAACCTCAACTGGTGGTACCACAATCTACCTTATCACCCATGCCAGGAACCTAAGATCACTGTTCCTACCCATTCCCCAACTGAT
CAATAATCGGGTCCTGCTAACTTAATGCCTAAACATTTTGGGCACTCCCTCCTCTTCATCCTTACAACTACTGCCTTTCATCGTCTTTTCCATG
AACTATCATGATGAAATTTCTAACATGCAAATTTGTTTACGCATTTCTTCATCTATTTAAAATTCTTCAGTGGCTCTCCAGGGTCTTTAGAGCC
TGCTTCTCACCATGTTTTCAAGATCTTCCACAATTTGGCTCCTGTCTACTTCTTGAGAAAAGACTTGCTTCACAATTTATCCACATGAATCAAA
CTCCTGATCCTTTTTTCACATTTGCTTTATCAATAGGCTGTCTCATCTCAGTGGATGGTGACTCCATCCTTCCAGTTGCTTAGACCAAAAACTT
CAGAAGCTGTCTTGGACTCCTCTTTTTCCCCACATCTGGCTCATCAGCAAATCTTGTTGGTGCTACTTTCAAAATATTACATCCCAAATGTGGC
CACTTCTTATTACCTGCTTTGCTACCACCAGCCACCATCATCATTTCTTGCCCAGATTACTGCAATTGGTCTCCTTGGTTTTACCTTTGCCCCT
GCAGCAATCCCCTTCTGTCCTTCCCTACCAATCTACTGTTAACATAGCAGCTAGTATATTTTTGTTTGTTTTTTGAGACGGAGGCTCACTTTGTC
ACCCAGGCTGGAGTGCAGTGGGGTGATTTTGGCTTACCTCAACCTCTGTCTCTCCGGTTCCAGTGATTCTCCTGCCTCAGCCTCCCGAGTAGCT
GAGATTACAGGCATACGCCACCATGCCTGGCTAATTTTTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTGGTCAGGCTGCTGGAACTC
CTGACTTCAAATGATCTGCCTGCCTTGGCCTCCTAAAGTGCTGGGATTACAGGGTGAGCCACCGGGCCTGGCCTAGTATACTTTTAAAATGTAA
GTTAGATCATATACTTTACTTAAAACCTTCCTCATCTTCACTCACTCACCCCAGTCCAGTTACGCTGGTTTCCTTGCTCTTTCTTGATGCCTTC
CCACACATTCCTGCCATAAGGCCACTGCACTGGATTTTCTCTGCTTCAAACACTCTTCTTCCAGGTATTCTCATAGCTAACTCCCTCATTTCAC
TCAAATCTTTGATCAGATGTCATCTCAACAAAGCCTAGAATTCTATTCATTACGCAACTTTTCTCTGCAACTCCTTCCCCGCCTTACACTCCCT
TACCTGGCTTTTACTTTTCTCGTTCCACTGCACGTACCACCTTCTAGAATACTAAAATTTATTGTGTTTGCTTCCCCTGCCCTCCCATCCCAAT
AATGTGTACTCCACGAGGGCAGGGATCTTTGTTTTTTTTTCACTAGTATTTTTCAAGAGCCTGGAATAGTGCCTGGCACATGACAGGCATTACAC
AGATTATTTGTTGAATAAATGAGGTAACACTCAACTTCTTATATTTCTCTGCATCAATTGTGCTATTTTTTGCCTCCATGCCTTTACTCAGGTG
GCTCTTAGATCCAACCCTAGATTGCTCTAGGAAGAGCTTTTTTCTGACACCTCTCCTTGGTTAGACGCCTCGCTTCTGTGTTCTATCTCCATCT
TATCACATATCTTAACTATCTGCTCATGTGTCTGTCTCATAATTAAACTGAAGAACTCCATGAGTCAGGGATTTTTGTCCTGGTTCGTCTTTGC
TGTTCCAGCTCCTAGCCCAGAGTTTGGACCATATTAAGTATTCAAATGGTTTGTTGAGAGAATTAATATATCAAAAACTAACCATTCTCACAGG
ACCATTCTCACATGGTTCCCCCTTCAGTGTTCAAGATCTTTCCTTTTTCAGTGTTCAAGATCCCAGACCTTCTGGTCACTTTTGCCCTGAGTAT
TTACTCCCAATCAAAAGTTATTTCTCCTTCCCTCAACTCCAGAGTGGTTTCTAAACCTCTTATGTATCTCAACTTACATGATATGAAAGCTACT
TCTCACAATCACAGACTTTTGGTGTGAGAAGGATCTTATATGCACTTTGTTCAACCCACTCACCTTAAGTTTGAGTCTCCTTTATAACATCCTC
ACCAAGTGCTCACATATGCCTGGTACTTTTGTCTGGGAATGTACTGCCTTCCCAAGTGGCCATTTAGTTTTGGGAGCTCTCCCAATATAAGATT
CCTCCTCACATTAATTGGAAATGTTTTCCTTGTAACTTTGAACTATCTCCATTTTGCCTCTCCCATGTCAACTCTTTAAAACTTAAAATGATTT
ATTTTTTCCTTCCCTGTAAGGTTTCTCTGTGAATTCCTCCAATGATGAGTTTCTAGAATAGATTCCTTCAACTAGGATAGTTTCCACTTCTCTA
ACTAGCTAGGTCACTTCTCTCCAAATGATCAACTTCCTCCAAACCTGTTCAGAAGTGACTGCAGTGCTCCCGGTAGGAAGTCTGCTCCCGGAAA
CGAGCAGTTCTCTCCTTGTCCTGGTTCTGGGCTGTATCAGCCTTGAACTCAGTCACATCAAACGTCTGTCTCACGGAAGTCCACACACAACATTCA
CCGAAACCCCTGAGGCTTTTTTTTTTTTTCTTTCAAATCTTGTGGGCTTCTGAGAGGTATAACTGCAGTTGTCTCGCCTGGTAACCTGGGTACCC
GGTTTGTGGGTCCAAATGTAGACCATTTGGGTAGATCTGATTTTAATTTAAAAAAAGGGTTTTTTTTTGTTTTTGTTTTTAAAGAGGCAGGAC
CTCTCTGTCGCCTAGGCTTGTGTGCAGTGGTGCGATCAACGTTCACTGCAGCCTCGAACTCCTGGGATCAAGCGATCCTCCCGTCCCGGCCTCC
CAAAGTGCTGGGACCACAGGTGTGCGCCACGGCGCCCCGCCCTCTCTGGTTTTCATGAATGAGTGTGTCCCTAAACCCTCCTAAGGGGAGGACA
GTGCCGTATCTCTCTCCTTCTTCCCCAAGGAGGCCATGCCTTGCCTTTCAATCTTGATCAAAGCGAGGTTGAAAAGCAAACAGGCGTTCAGCTT
TGCACTTCACACCCACATCTCCCGCCCCCCAGCAGCTTCATCAGCCTCCCGCCCTCCGCGGCCCGGCCTCACCAGCCGCAGCATCTTCACGTGG
CCTTTCACACTGAAGCAGAAGGGGCGATGTTTTATTTTCGGCTGCACGTTATCCATCGCGTCTGCAGACCCAGCAGCAGCACTTTCCCTCAACT
CTTCTCAGCTGGCTGCCTGAGTAGGTTCTGCGAAGCGATAGCAACCGCCACCGCGGCGGAGCACCGCCCTCCCCTACTTCTCGCCCAGCTCGGC
TTCCCGCTCTCTTGCGCGCATGCGCACGGCGCCGCGTTCGCTCTCGCGCATGCGCCCCAACGGGATCCCGCGGCCGTCCGCTCTGGCTTGTGCT
GTCTTTCAGTTATCGCGTAGCACATTAGCGGACCTAGAGCTGGGCACATATTAGCGGACCTAGAGGTGGGCACGCAGGCCAGCGCCCTGTTAGC

CCGCCGTGTTCTGGCCTGGCGTTAATGACGGCAGCACTCCAGCTCTCCTGAGGAGTCTTCCTGTCGGGAAATCCTCCCAGGGTTGGGAGCAGAG
GAGAGGGAGGGGGCTGTAGAAATGGCGGCCCCATCTCCCAACAACTTGGGCATTGTGAATATCACCTCCTTAAAGGGGATCTCCTTTGGTCATC
CCGTCTAGAGCAGCCACCATAACTTCTGAGCGTTTATTGCTAGCTGATATATATCAGAAAAATACAAATTCCACAAAAGCAGGGACTGGTCTGC
TTCTCTCCCTGCAGGGCCCAGGTTCTGGCACATAGTTGGTGCAGAAAGTGTGCAGCCTCAGGTCCTATCCAAGCCCCCAGGGCATCACACTCGG
GACTTGTTCTGCATATTTTTACTTTTGCCTCCCACTGGTACTAGTTCTTCCGTGGAACAGCCTGAGTCCCTTCAGATACTTAATGTTTTTTCTC
AAGTGCTGCCATGAAGCCAGATCTCCACCGTCTTGGGGCATTCCTTTTTAGGGATGGGAAGTATATGTCGCTCCTTTTATGTGATTTACATTCT
ATCTTGGATAATTTGGCCATCACCGTAGTTCATTCAGATCTGTTTGGATCCTGCCCATCTCAGCTTCAGTCCATTTCATTCTTTTAAATCTGAT
CGACAGTTACCTCCAACAGCTTCATCACAAATCACTCACAAAAATGGCCTTAATCCTGAAGTTTATTTACGGAGAGCACACTTGCTAGGTGTGT
GGCAGATATACAGGAAGCACAAGATGAGGCAGCAGATCTAGAGGCAAATGACTTCCTTCTCCCTGCCTAGTGGTGACTGCCAGCATCACGCCCT
CCCGGGAGAGGTGAGAAACCCCTCCACGCAAGCACTGGAACCTTCACAGTCAAGAGTGGCAACAGCTCCGGTTACTGGACTTGGGCCTGTTGAA
TTCTAATACTCTGTGACTCCACATCTGGGCTGAATTTTTGCTGAGTATGATGGAATTTACATGCTTCCTCCCTAGCCCCTACTTGTCTGTATAG
TTGGAATATTTGGTTGCCTCCTCTGGAGGGATCTAGTACGTTTAGAGTCTAGACGCTGGAACTGTCAAAGTTCAGAGGAAAGAGCTCCAGCTGC
AAAGCAAGAGAAATGGGCTGGAATTCTAGCTTCACCCCTTAATGAATGCTTCTGATTTTTTTTTTTTTTTTTTTTTTGAGACGTAGTCTCACT
CTATCGCCCAGGCTGGATTGCAGTGGCCACGATCTCAGCTCACTGCAACCTCCGCCTCCCAGACTCAAGCGATTCTCGTGCCTGAGCCTCCTGA
GTAGCTGGGATTACAGGCGTGCGCTACCACGCCCGGCTAATTTTTGTATTTTTAGTAGAGACAGTTTTTGGCCATGTTGGTCAGGCTGGTCTTG
AACTCATGACCTCAAGTGATCTACCTTCCTCGGCCTCCGAAAGTGCTGGGATTACAGGCCCGAGCCACCGCGCCCAGCCGCTTCTGATCATTAA
AAAAAAATTTTTTTTTTGGCGGGGGGAACGAAGTGTCCCTCTGTTGCTCAGGCTGGAGTGCAGTGCAGTGATCTCGGCTCACTGCAATCTCTGC
CTCCCAGGTTCAAGCGATTTTCCTGCCTCAGCCTCCTGAGTAGCTGGGAATACGGGTGCCCCCCACCACACCCAGCTAATTTTTGTCATTTTTAG
TAGCGATGGGGTTTCGCCATGTTGGCCAAGGCTGGTCTCGAACTTCTGGCCTCAGGTGATCTGCCTTCCTTGGCCTCCCAAAGTGCTGGGATTA
CAGGCGTGAGCCACCGTGCCTGGCCAAAAAATTTATGTTTTAAAAAGACTAGTCAAGTGCAGTAGTGAGAAGGGGGGAAAGAGTAGAGCAAGGA
GTTATATCTGTTGCTTCTGACCATTTTGAACAAGTTACCTAATTCTCTGAGGACAAGCTCGGAGAATGGGAGAGACAGTTATCTATTTGCAGGG
TTGTTGGGAGGAATAAGTGACATCATGAGTGTGTGCCAGGTGTCTGATTACAGAAGGTGTTCAATTAATCTGCAATCATTAATTAACCCTTCAG
TCGCTGGTATTATTTGCCATCCATCCTCCGAGTGTTGCCAAGTTATGGGTGCGTTCTGCCAGCGTCCTAGCAGTGGTAAGGCTTCTGGCTGCCA
GCGGCGAACCTCTCCCTTCGAGTATTTCTCCTCTTGCTGAGATGAAATGCGACCGGGTCTCTTTAAGGGCCAGGCGCCGGGATCCAGGCGGCGC
CCAACGGCTGGACTAGCAGTCGTCCGCGCCGACTCGCACAAGAAGGAACCCCGGGCCTCTGGATCCGCTCGCCCGGCTATGCTGCTGTGGCCGC
TGCGGGGCTGGGCCGCCCGGGCGCTGCGCTGCTTTGGGCCGGGAAGTCGCGGGAGCCCGGCCTCAGGCCCCGGGCCGCGGAGGGTGCAGCGCCG
GGCCTGGCCTCCCGGTAACGCGCGTCTTGGTCCCGCCTCCCAGGAGCCCCTATGCGCCCACCTACTCCCGGCCCCTCGGCTTCCGGAACCCGCC
CGAGCCCGAAGCGCCTCTTCCGAGGCGCGGGATTTCCTCCCCGGCTGCGGCTGGGACGGGGGCGGCCATCGGCCGTTACCCGGGCGCGAGACCG
CAGCGAGCGCTGGGGGCGCTCGGCTTTGGTTCTGGGATGGAGAGAGGGCCTTTAAAGAGCAGGACGGACACGCTCTGAACATTCCGGCCCAAAC
TCGGTCCCCCGACCCATTTCCTGTCCCGATTCTTTCGACCTTGGGGGCGATGGGGACTGGGAGCTGCCTTAAGCCGATTCTGCTCACACTCTGG
TGCCAGCGTGGGGGAGGGGGGTTACGCCCCCGGCGCTCTCCTGCCCTCCCTGGGAGTGGGGACCCACACAGAAACGGGTCACTGTTACACCCGG
GTTCTGGTGTCCGCCATATGGCTGTTGAGAGACGCCTCAGAACCACCTGTGGGACGGATGGGCAGCGATGCCCGCCCTGGGCCTAGAGGAACAC
CTGGGTCCCAGGCCCAAAACCACGTCCGCCGCCCACTCTTCCCCGTGCACCGCGAGTGGAGGCTGTTCTGCCTTTCCACTTGCTTAACATCCAG
TCTGTGAAGATCTAAATAAATAACGTGGAAAATGCAAAGTATAATGTACTAAGTGAAAGAACTCGAGCACACTGGGGGTCCACGAAGCTGCAGC
TGCAGCCCAGGGTGGCACATCGGCGAGACGGTGGTGCGCGCCTCCAATCTCGGAGGGCGCCCAAAATGGAAAATGTTTTTAGGCCAGGGAGTGA
GCATAAACATTAGTGTTTTTGTGGTCATGTAGCAAATTAGGGCAGAGGAGAGTTATTTAAAAGTGAGTTTAAAAACTGATTTCCTTTCTTTTGT
AGATAAAGAACAGGAAAAAGAGAAAAAATCAGTGGTAAGTCCCTCTTTTATGTGTACTCTCTAGGATAATTTGGTTTTTTGAAGAGGAGAGAGA
AAAAAGCAGAGTAAAAAGCAAAAATACATTCCATAGTAAAAAGCAAAAATACAAGAGGATCTCCAGGGAGAAGGAAGTCTGTCACCCTCCTAGA
AGGCCACCTCTGTTACCAATTTCTTGTATCTTTCCCCAGAGTCTGCACAGATAGGAGCACACAAGTATTTGTATCCTTCAGGTAGATTTGGGCT
GTTAAAGCTTAAGGGATGATTGTGAAAGGATTTGAAAAACGCTCATTGTGTTGTGGGGAAGGTCAGTTTCATCTTGGGTTGGGCAGCTCAGATG
TGAGGGAAGCTCTGTCCACCACCACCCTCTCCCCCCAGTGTTGAGACTGGTGGGTGGGCAGGGGATCAGAGAGAAACCATTAGGGTCCACAGAT
GTGGGTTCAGTTATCAGGGTGGCTTTGAGATGCTGGCTCTGGGCTGGGGCTGTGACTAGTGTGAGGCTGAAGGTCAAAGAAGGGTCAGGTTGGT
GTCCATGGGGATATTGGGTGCTTTAGCTGGCTGGGGTAGGGAGTGATATTTTGGTCACAAACCAAGGCTCAATTCCTTAAAAGAACTGAAAGTC
CCTAGCTCCAGTGGCTGGGAAGGGGGTGGCTTGGCAAGTGGTGGCAGGAGTACCGTGGCTGGGATCTGCAGAGGGTAGACAGTGCGGGCAGGCC
CCCAGCGTACTCAGGGTGGTGGAGAGCTCTTGGGAAGTAGTGAAACCACATAGAGAGGATTGAAATGCTTGAGATTTGTGGAAGTTTGTTGAAA
TTAGGAGAAGGATATGCCAGCGGGTGCCATAGAAGGGGAGGGAAATGCAAAGTTGAGCTGGATGGTAATTAATGTATTTTTGTTTGTTTATACA
TTTAAGAGACGGCGTCTTGCTGTGTTGCCCAGGCTGGCCTCCAACTCCTGGGCTCAAGTGATCCTCTGGCATCAGCCTCCTGAGTAGCTGTGAT
GACAAGTGTGAGCCACTGTGCCTGGCTATTTATTAGTTATTGAGCTAGCATTGATGTGAGCTGGGCCTGTTCTTTGTGCTTTTTGGGTGTGGTT
TGATGTGCCCCCAGACACACAATAGCTAGTTCATAGAAAGTGGTATGGAGCCTGCATTCAGGCTCAGGACTGTTTGTAAACATTCAAGTCCTGT
GAGCTCCTGTGTGGGATGCACTGGGCTAGGACCTGGGCACCTGGCAAACAGCCCTGACATTTGGGAGTCTGCGGTCTGTCTGATGGGGGAGGTT
TGTCTGATGGGGGAGGTCTGTCTGATGGGGGAGACAGCAGTAACTAGGAGAATGGTGGAACTAGAACAGCAGTGAGTATGGTGGCTGTGAGTAG
GGGGGCTGATGACTGAGAGGAGCTTTGGGAAGCCTTATTGCCTGCTGGGAGATGGAGCAGAGTTTGAGGCAGGAGTGTTGGAACAGGTACAAGT
CACAGAAGAATGAGAACCTGCAGGCCTGGGCTTGTGGCCAGTCCCTAGAGAGGTGGCTGGGGAGGGCTGGGGGATAGGTGCAGAGGGACTGAGA
ATAGGTCCTAAAACCCAGAGTCACTGAAGGGCCTCACCCCCACCCAGCACGATCCGGGTTGCCTCTCAGGGAGCGATGTGGGGAACCATGAGTG
GAGGGCCTAACTGGGTGAGACTGGAAGGGGAGAGACCTTAACTAAACTAGAGATGGCACAGAGCCCGCAGCTGAGTGGGAAAGCAGGGCCCAGG
GGAGTTGCTGGTTGGTTGACTGGTGTTGGTGGGTGAGGAGAGATGTCCAGAGTGTTAAAGGTGTCTGGGTGGATGGTGCAGCCATTACATGGCA
CAGTTTACAATATTAGATAATTGAGTATCACAACAAAGTTTTTTAATAAAATAACTGGACAGAACTTAACATCCAACAGGGCCATACCTAATGG
CTCATGCCTATAATCCCAGCACTTCGGGAGGCAAAGGTGGGAGGATTGCTTGAGCTCAGGAGTCTGAGACCAGCCTGGGCAACATGGCAAAATG
CTGTTTCTACAAAAAATACAAAAAATTAGCTGGGCATGGTGGCATGCACCAGTAGTCCTAGCTACTCGGGAGGCTGAGGTGGGAGGGTTGCTTG
AGCCTGGGAGGTCAAGGCTGCAGTGAGCTGTTATTGCATTGCTGCACTCCATCGTGGGCAACAGAACGAGACCCTGTCTCAAAAAAAAAAAAAA
AATCAAATAGTAGGGAGTTCAATAAATTGTGACAGGTCTTATATAATGGATTATGTAAAGCCATTAAAAACCATGTTTTTGAAAAATATTTAGT
GACCTGGGAAGGCACTCACTATGTAAAAGATGAAAAAAAAAAATAACAAAACCAACAAAAGTATATGAAGTATGATCCCAAATGAAAAAAAAAA
CTGTCCTTAGGAAACAAACAGGAAAGAAATATTATAAACATTAATGCCGAAATTCTCAGTCTAGTTAAGAGATAGATGTGGGGTTAACAAGGAG
CATGTAAGAGAGAGTTTGTGGTGTGATGGGGTAAAAGTGTCTTCCCTTAGTTATTTGAATGTTAAATGAAATTCAGCTGGGTTCCTTTTTAAAA
CAGCTTTATTGTAATTTGCATACCACAAAATTCACCCATTTAAATGTGCAATTCAATGATTTTTAGTAAATTTACAGAGTAAACAGCACTACAG
AGTAAACACCACTACAATCTAATTTTATTTTATTTTATTTTTATTTTTTGAGACAAGGTCTGGCTCTGTTGTCCAGGCTGGAGGACA
GTGGCACAATCACAACTTACTGCAGCCTTGACTTCCTGGTCTCAGGTGATCCTCCCACATCAGCCTCCCAAGTAGCTGGGACTACAGGCACATA
CCACCATTCCTGGCTAATTTTTGTATTTGTTGTAGAGATGGGATTTCTACATGTTGCCCAGGCTGTGCAATCTAATTTTATAACATTTCCATTA
CTCCAAAAAGAAACCTTGTGCCCATTTGCAATCTCTTCTGGCCCCAGGTGACCACTAATCTACTTCCTGTCTCTTTAGGGATTTGTGTTTTCTG
GACGTTCCATATAAAATGGAACATATAGCGTGGGATCTTTTGTATCTGGCTTCTTTCACTTAGCACATTTTTTTTTTTTCTTTTTTGAGATGGA
GTTTCTCTCTGTTGCCCAGGCTGGAGTGCAATGGCATGATCTTGGCTCACTGCAACCTCCGCCGCCAGGGTTCAAGCCATTTTCCTGCCTCAGC
CTCCCAAGTAGCTGGGATTACAGTCATGTGCCACCACGTGCAGCTAATTTTTGTATTTTTAGTAGAGTCGGGGTTTCACCACGTTAGCCAGGCT
GGTCTCGAACTCCTAACCTCAGGTGATCCGCCTGTCTAGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCTCCTGGTTGCTTAGCA

TAATATTTTGACATGCATCTGCCTTGTAGCACGTATTAGTATGTCATTTTTTCCTATAGCTGAATAGTATTCATGGCGTGGCTGTAGTGCACTT
TGTTTATCCACTTGCCAGTTGTTAGACGTTTGGGCAAGTTTCTTTTGACTGCAGATTTCTCAGGGTCTTTGATAAGACAGGATATTTGGATTCT
CCCTGTGGAGGCTTTGGCACCCAAGCCAGTTTGCCTCTGGAACCCTGGGTTCTAATTAAACATCCAAATGACAATGATTGCTGAGATTTACGAG
TGATTTTTATTTTCTTCTTTTAGGGATTGTGTAATAAGGTTTGATCAGAGAAATCCAACTGATAAATACATATATGCATATTCATAAACATATA
CATATATTCATGCATACATACATTCTTGTGTGTGAGAATGTATTTCTTTTTTTTTTTTTTTTTGAAGACAGGGTCTCACTCTGTCACCCAGACT
GGAGTGCAGTGGTGTGATCTCGGCTCACCACAACCTCCACCTCTCAGCTCCCAAGCTCAAGCGATTCTCTTGCATCAGCCTCCCCAGTAGCTGG
GATTACAGGCATCCGCCACCACGCCTGGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGATCTCCTG
ACCTCAAATGATCCCCTGCCTCGGCCTCCCAAAATGCTGGGATTACAGGCGTGAGCCACTGCGCCTGGCCACTGAGAATGTATTTCTTAGCACA
AGAATGCTTAATTTCCATTTTTAGGAAAGATTAAATATTGTTACTTATAATAGGGATAGATGGCTCATCACAGTTTCAGTTATAATCATGGAAA
ATTGGACTCAAGGGCTCATAGCAGAGGAAAATGGAGATAAATTGTAGCGTAATCACAGAGTGTTGGGCCAGGCCGGCCATGTGCTCCCACAGCA
TGGGGACCATCTCCTTTTCACAGTTTCCTGTTGCTTTCCTCCACACACTCATGAGCTCTTTGGCCGTTGCAACGAGGCCCTGAGTACACAGTGC
CTGGCACAGCATAGGCCTTCAATAAACAGTTGAAACGTGCTCAAAGATGAGGACTGTATAGAAAATAATATTTGGCATGAAATATGCTCATATG
TCATGGGGTTTATCTCTTAGTATTGGGATTATGGGTGATAGTTTCTCCTTTTTGATTTTCTGTATTTTCTTCAATGGGCATGCACTTCTCTTAT
AATATTTTTAGACATCACTTTAAAAAGAAATGTAAAGACTCCCTTTGCTTGCTTCCTGTTCCCCCTTCCATTTCAGGGGAACTTTGTGAGATTC
TTCCTGCGTTGCCTGCTGTAAACCGGAGGGCAGATTGGCTGAGCTCATTCAGGGCCTGACATTCACCAGCTCTTCAGGATTTCATGCTGGGGAT
AGGAACAAGTTTCTGGGAGAAGGGCTTATCTGAACAACCTGTTAAAATGCTTCAATGAACAGGAAAGAAAAAAGACTGTAGAGTGATGTCTAGG
TTGAGCTCTTTTTATATATCTAGGAAGAGGAAAAGTTTTCTTTAAAGAGCAATAAAAAAATTAAATCCATTAGTGCCCTAATGGGGTCTTTTCA
TGCCCTTTTGTTCATTCCCTTGGGTTCATTTTGTAGTTTGGGGCTCTAAAGGAGTGGGCTGGGAGGGACCCAGGATGGGAGAGTGGCCTTGTGT
CTCCTGGATACCCGTTAGGATCAAGGCAGGAGGAACCTTCTCCGCCAGCTGACAGAGTTCTAGTTGCTGGGGAGACTTTAGTGGGGTCGGGTGA
GACGGCCCACTGTGACCTGGTGTTTATGTGAGGTGTGACTGAGGCTCCATCAGGAGTCGTGAGAAGGGGCCTGGATGTGAATTCTAATTCTGAT
TCTTCCCTAGCCAAGTCTGGCACTTGGGTAAGTTACCTGTGTTGCCCAGGTTTCTCTGGGTGCTTCCAGCCTGAGTGCAAAGGAACAGGCCTCT
GTGCAGCAGGTCGGGCCCCTCTCTGTGTGTGCCCCTGGAGGATGTCTAATGTGTTCTCAGGGGACAGTTTGTCTTATGTATTGGAGCTGCCCGT
TCCCTGTGGCCATCTGCTGGAGCCAGAGCCACTGGGCCTATGTCATCAGCAGTGCCTGGCTGAGCAGAGCTTGGTCAGAATCACTGGGCTACAG
GTTCAAGGGCTCCAGCCTAGAGTCTGATTTAGGGTCTGGATGCTACCTGGTGCCACCTCATGTTTAACCAGCTCCTCTGGTGCATCTGAAGCAG
GCATCTGTGGACTAGACAGGGAGAAGCTCTGCTCCAGCCTCGTGGTTCCCATCCTTGCCTGCACATTGAAATCGCCTGGAGAGCTTTAAAAGTT
ACTGAGGCTTGGCCGGGTGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACCTGAGGTCGGGAGTTTGAGA
CCAGCCTGGCCTACATGGTGAAACCATGTCTCTACTAAAAATACAAAAAATTAGCCGGGTGTGGTGGTGGGCACCTGTAATCCCAGCTACTCGG
GAGGCTGAGGCAGGAGAATGGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCTGAGATCACGCCACTGTGCTCCAGCCTGGGCAACAAGAGTG
AAACTCTGTCTCAAAGAAAAAAAAAAGTTACTGAGTCTTGAGTCTCACTCCCAGAGATTGTGGTGTAATTGGTCTGGGCTGTGGCATCCCTGTAG
AGATTTTTAAAAGGTCCCAGGTGGTCCTAGCGTATAGCCAGAGCTGAGAACCGCTGCCTGGAATACCTTCTCTCCCTAAGATGAGTTACTTCTA
GGATGCTCCTTGGTCTTTGGTATAGGTAGACCCAGAAGGCTGTTTCTGGCCCCTCCCACTAGTGCCATGACCCCCTTTCCCTCCCACGTGCAGT
CATTGTGAGCAGAGTCTAGGTTCAAGCTGTCCTTGCTTATTGTCTTCTACAAGCCTCATTTTTGTTTTCTGTGAAAAATGTTAGGACTTACCC
TTCTCAGGTTTCAGTGAGGTTACATGTGATAATGGTGTGTTACCTGTCTCAGGGCTTGGCCTGTGACAAGGTGCTTAACAAAGTCCTTGCTCTT
TTTTTCTTCTCCCCTTTCCTAATGGTTTCCAGTCAGTGACCAAGTGCTTTTTTTTTTCTGTAAAGCAGTGAATTCGATTCTAGATAACATATATG
TGTTTCCTAGCCTCAAAGCCATTGATTAAGCTCTCGTTAAGGAGGCAGGACACTTAGGCCTAAAATCTAATAGTCTGTGGGGTTGAACTAAGGA
AGGGCAGAGCTGGGCTGGGCAGACAAGCTGTGTATGGTTTAGGAGTTGACGTAAAGGAGGATCTGGTCTGGGGGGACCACATGAGCCTGCCACT
CAGGGAGGATCGGCTTATCTGTTATTACTAACAATGGGACCTTGCCAGTTTCCCGAGGAGGGATTTTGGTTTACATGTGAAAGTCTTGGACTGA
ACCAATTATGCTGGTTACATGAGCCCTTTCCGTAGCCATTATTCCCTGACATTCCCCTGGGTGCTTGAGTTCTGGCTCTAATATGCATTCGTCT
TTTGCCAGATCTGTGTCGAGGGCAATATTGCAAGTGGGAAGACGACATGCCTGGAATTCTTCTCCAACGCGACAGACGTCGAGGTACAGCCTCT
ATGCTAGGTTTGAAGGAAGCGGAGAAAGCTTGATGGGATAATTTATAGAGGGTGTGGACTAACCTTGTCCAATAGGACTATAATTTGAGCCACA
AGTGCAAGCCACAGGTGTAATTTAACATTTCTAATATCCTCATTAAAAAAACAAAAGGGGCCGGTGCAGTGGCTCAAGCCTGTAATCCTAGCAC
TTTGGGAGGCGGAAGCAGGTGGATTGCTTGAGCCCAGGAGTTCCAGACCAGCCTGGGCCACATGGCGAGACCCCATCTCTACAAAAATATGCCA
GGCATGGTGGTACGTGCCTGTAGCTCCAGCTACTTGGGAGGCTGAGGTGGGAGGATTGCTTAAGCCCAGGAGGTGGAGGTTGCAGTGAGCTGAG
ATCACGCCATTGCATTGCATCCTGAGCAGCAGGAGTGAAACCCTGTCTCAAAAAAAGAAAAAAACCCACAAAAAATAAAAAGGACATTTTATTT
CACATAACATATGCCAAATGTGATCATGTCAACATTTAATCAATATAAAAATCATCAATGAGCTATTTTGCATTCTATCTTGTTATACTAAGTC
TTTGGAATATGATACTGGTTGAGCATCCCTTATCTGAAATGCTTGAGACCAGAAGTGTTTTAGATTTCAGAATTTTTCAGATTTTGGAATATTT
GCATAAATGTAATGAGATATCTTGAGGATGGGACCCAAGCCAAAACACGAAATTCATTTATGTTTCATATATACATAGCCTGAAGGTAATTTTA
TACAATATTTTAAATAATTTTGTGAATGAAACAAGTTTGTGTTAAGTATTTATGTGTGGAATTTTTCATTTGAAGTGTCATATCGGTTTCCAGA
AAGTTTTGGAGTTTGGAGCATTTAGGATTTTGGATTTTTCAATTAGGGATGCTCAAACTGTTTGTATTTGTAAAATAAGTGTAACTTATAGCAT
ATCTTAATTTGGACTACTCATATTTCAAGGTCTTAATAGTTGCCTGTGGCTCATGGCCACTGTATTGGACAGTGCAAGTGTTGACTGCCTCAAA
GTCTGGTTAGGAAAAGAGTCTACATGGGTAAGAAGAAAGGACAGGCTATTGAGCAGGGCTAGAAGTGTGACATCTGAGATAGCAATGTCTGAGC
AGTGGGTATTACTATGCATAGGCAATTAATTTAATTTCTAGTTCATTTAAAGCCTAGTCACTAAAACTAACCTCAGAGATGTTTAAGAATCATC
TCTACACTAAGACATTGACCTGTCTTCCTTGTTCTAGATTTTAGTGGTATAATCTTCTCTATTGATGGCTCTCTTTTGTTACTACAGAAGCTAC
AATTTCTATACTTTTATAGTCATTTTCTTTCCTTCTTCCCTTCCTTTCCTGTTTTTACTTCTGCTAGAAATATATGCATGGCCAGGTGTGGTGG
CTGATGCCTGTAATCCCAGCACTTTAGGAGGCTGAAGGGGGAGGATCACCTGAGCCCAGTAGTTTAAGAGTAGCCTGGCCAACATGACAAAACC
ACATGTCTACAAAAAATACAAAACTTAGCTGGATGTGGTGGCACATGCCTGTAGTCCCAGCTGCTCAAGAGGCTGAGGTGGGAGGATTATTTAA
GCCCAGGAGGTTGAGGCTGTGGTGAGCCAGGACTGTGCCGTTGAACTCCAACCTGGGTGACAGAGTGAGGCCCTGTCTCAAAAAAAAAAAAAAA
AAGAAAAAAGAAAGAAAGAAAAGAAATATATATAGTTTGATAAAAATAATAATAAACATTATATAGCCCTTGTCCTGCTGTGTTCATGTGCTGC
TGTGCAGGAAAGAGTTAACATAGCAGACCTAAGACTGCTGCCCTTTAGAAATGCCTGCTTGCAAGGGTGGTCTTTGGCTGGCATCTGGGAACTT
AGATCTTGGGAGGGCCCCCACCATTCCTAACTGATAACAGTGGCTCTCTGCTTAAATTGTTTCTGCAAACAGTATGGTTTATGCTGACACCTGC
TTTCTTCCTGGGAGTCCGGAATTTTGGTACATGTCAGGAAGTGGTTGTCTGCATGGCTGAGCGCTGATGAAAACCCTGAACTCCCAGGTTCAGG
CCAGCTTGCCTGCTAGACAACATTTCACATGTATTGTCACATCTTGTTGCCTGGGGAATTCAGTGTGTACTGTGCAGCTCCTCTATGAGAGGAC
CCTTGGAAGCTTGTGCCTGGTTTCCTCCAGACTTTGTCCTTTTTCCCTTTGCTGATCCTTTTTTCTTTTTCTTTCCTTTTTTTTTTTTTTTTT
TTTTTTTTTCTGAGATGGAGTCTTGCTCTGTCACCCAGGCTGGAGTGCAGTGGCATGATCTCGGCTCACTGCAACCTCCGCCTCCTGGGTTCAA
GCAATTCTCCTGCTTCAGCCTCCCAAGTAGCTGGGATTACAAGCACCCACCACCATGCCCAGCTAATTTTTTTGTATTTTTAGTAGAGATGGGG
TTTCACCATGTTGGCCAGGCTGGTTTCAAACTCCTGACCTCAAGTGATCCACCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCC
ACCGTGCCCGGTCCCCTTTGCTGATCTTGTTTTGTGTCCTTTCGGTGTAATCCATCTTAGCTGTGAGTATGACTGCGTGTTGTCCTGTGAGT
TCTCATGAATCATCAAACCTGGGGAGGAGGGGGGGCTTGGGGACTCTTGACCCCTGTCCTGAGTGATATGACTCTTAATGGCACTTTAGAAGTG
CTTATAGTCTCACTGAAGACCTTGGACCCGATTAACAACGATAGTTAACATCCAGTGAGTATACTGCTATTTGCCCAACACTGTGTTGAGGGTT
CATCATAAATACTAAATGATCTCACCCTCACAAGAATAGTCCCTCTGAAGTAGGTACCATTTTTACCACAGTTTTAGATGGAAACCATGGCC
TAATGAGGTTAAGTGGCTTGTCCAGGGTCGCTAGGCCAGTGTATGATACAGCCAGATCCCAGCCCGGATACAGCCAGATCCCAGCCCAGGCTGT
CTGGTTCCAGGGGCCACACCCTTGTTTGATTCTGTGGTACGAAGAGCTTTGTTGGCTTTAGGAAGACCACTCTCCCTTCAGATCTGAGCTCCGT
GTCCCCTGACCTTCCCAGCGAGGTTATGCTTCCTGACAGAGGATCCCCTGGCCGCTCTGTACCTCTCTTTTATACCACTTCTTGGGGTTTGAAA

ACATGTTGGCTTCTGTGATTACCTGAGTAATGTCTGCTTCCCCTGGTAGGCTTAAGGTTCTGTGAAGGCAGAGGCTGGGCTGGTTTTGCTATTG
TTGTGTCCTCAGTGCCTAGCATGGATATCTGGCACACAGTGGGCACTCAATAAATGTTTGTTGGGTGACAGTGCTATGGATGGAGCACCCCTGA
GCTGGGTCGGGGAGCAAGGCTGCCTGTGACCCAGACTCTGGTGGGCCTGTGTGGTGCTGTGTATGCTACTTAGGGGCTAGGAAGAAGACCTAGA
AGAAGGAGAGGGGGTTTGAGAGGGGCAGGGGAAGGGCATATTTGAACTGGATTTTGAAGGGTATACAGGAGTTTTCCATGTGATGAAAGTTGAT
GTGAAGTGGAATGGGGTGGGAATGCTGGTCAGAAGAAACAACGTAAGCAAAGACACAGAGTATCTTGCTTGAGGGTGGATCACTTGAGGTCAGG
AGTGAAGGGTGGGGGGGTGATTACTTTTCTTTTCTTTTTAGAGACGGAGTCTTGCTCTGTCACCCAGGCTGGAGTGCAGTAGCGCGATCTTGGCT
CACTGCAACCTTTGCCTCCTGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGTATCTGGGATTACAGGCATGCACCACTACATCCGGCTAA
TTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGACTTGAACTCCTGACCTCAAGTGATCTGCCTGCCTTGGCCTCCCA
AAGTGCTGGGATTACAGGTGTGAGCCACTGCACCCAGCCAGGGTGGCTACTTTTCAAGAGTTCCATGCATTGCCTGCCATTGGTCTTTTGTCAC
CTATGGCCCCTTCTCACATGTACTCTGAAAGTTCCCAGATGGATCCTGGCACTCTGAAGATCTTGGCCCCAAGAACACCATTTAAATCTTTTCT
AGCACACACCTGCATACCCAGAAAGGCTCTAGCAGAGTCTGGGGTTGTCCCAGATTTGTGTGTCTAGACCACAGATGGAGGCTCTAGAAATGCC
CAGCAGAGATCCTGATATGTGTCTGAAAACACACAGGATGTTGGAGAGATTGGCAGTCATCCTAAAAGGTACAAACAGGACCAGAGGGAAAGAA
TGCCTCCAAACCAGTGAGACAGGGAGCGTACTAAAGAAACAGGGACTATCAGCAGCCAGTGCACCCAGTGCAGTGATCAGAGGCAGGAAACGGA
GGCAGGTGGCCTGCCAAGGCCTAGCCCTGTCCAGTGTCCCTCCTGGCTTCTCCCACCCACCTGCCAGCTTGATGTGGTAGGCAGGCAGGGGTGG
GATAGAATACACAGAAGAGGGATGGACAGAGCCAGCTCTGACCTTGGGGAGGCTACCAGGGCAATAGAGAGGTAGGATGTACCTATGCTTGGCA
CATTGGGTAACATGGATAGAGTTATTCTCAGGACATTTCTGGAAGTAATGTGAGGAAGCCGTGTCTAGATAGAGTTGTGACCTCACGGGGGTTG
TCAGCTATTTTGGCCTACCTTGGGCACCCAAATTTGGATAGTCTTTTTCTCTCTTTTTCCCTTCTCTCCTCACTTTCCCCTCAACACTTACACA
CTTTTACAGGGTTCAGCACAGAGAAACAGTAGCTCTGATGTTTTCTTTCCTTCCAGGTGTTAACGGAGCCTGTGTCCAAGTGGAGAAATGTCCG
TGGCCACAATCCTCTGGTGAGTGGGTTGTTGGTTGCATGAACCCCCGGCTTCCCCTTAAGCACCTGAGAATGATGGTGCCTCTGCCTGAGCCCT
GCCTGCCCAGGCATTCTCTGCGCTCTTAACTGAGTTGGAGAAGACCAGGGAGGGACAAGCAGAAAATGGTGGCATGTTGGTGTTCTGAGGTCAA
GGATCTCTGAGGCCTGAGTGGCTGTGCACAGAGCCTAGGGACTTCCCGTCAGCTATCCCATACTATTCCCAGTGGCCGACCTTAGCCACTAGGG
GTGTCCATTTCTTGTTGCTCATTCCAGCCTTCCCCTCCCCTAGAAGAAACCTATCAGAACCCGGGACTTCTCAGGCCTAACCCCCCCAGGACCT
ATCTCTAAGTAACCAGGATCCTTGGTGGACCCCTGACTTGGGTTTGCAAACTTGGCCCTGTCTGGTAACAGGGGCCACCTCTGGCTTACCTGGA
AGCCACCAGCCTGCTTTCCCAAGGGTGAACCTAGCAACAGGGGCTGTAGTGTGCTGTGTCCCTTCCTTCACCTTCCCCAATTCGAGGTTCTGCT
CTGGTTGCTTGAAAGAGATGGATAGAATCTGGGTCCTGCAAGAGAGAGCTTTAGAAGAGGATGTTGGTTCTGAGCTCCCATCCCATGAGGTAGG
GATGATTAGTCTCATTTTTCAGCTTAGGAAATTGCACTTATATAAGTTGCCTGAGGTCACACAGCTAGTAAATGGACTTGGAAGCCTGTGCTGC
CCTGTGATTTTTTTTTTTTTTTTTTGAGATGGAGTCTCAGTCTGTCCCTAGGCTGGAGTGCAGTGGCGCGATCTCGGCTCACTGCAACCTCTGT
CTCCCAGGTTCAAGCGATTCTCCTGCCTCACTCTCCTGACTAGCTGGGACTACAGGTGCGCACGACCATGCCCAGCTAATTTTTGTGTTTTTAG
TAGAGACAGGGTTTTACCATGTTGGCCAGGATGGTCTCCATCTCCTGACCCTCATGAGCCACCCACCTCAGCCTCCCAAAGTGCTGGGATTACG
GGCGTGAGCCACTGTGCCCGGCCATGCCCTCTGATTTTTAGCAACACAATTGGCATCTCCTGTGTGGTTCATTAGACTCTGAGTTCTACTAGGA
GCAGGGACTGTATCTACTTTGTTCATTGTTATTTGCTAAAACCAAGGCACACTGCCTAGCACTTAGTAGGGGCTTGTGCATTCATCCATTCATT
CAACCAATATTCAGTGCATGTCAGCCATGTGGCAGACACTGTTCTGGATGATATGGCAGTGATAAATTCAAAGCCCTTGCTCTCCTGCCCCTAA
TATTCCAGTGTGGGGAGGCAGAAGTCAAACATATAATCTGGCGGGTGGTGATAGGGCCTAGGAAGAAAACTAAAGCAGGTGAAAGGATGTTTCT
TAAATAAGGCAAAACCTCTCAGTCTTTCAATAAAGAATCCTAAAGAGACATGAGAAGAATTTCTTCTCTGTGCATTCGGGAGAAGATGGAATAC
CAGTCATCTTCTTTGGATATAACAAAGAAACCTCTGTAACATTCATATTCTCTAGAAGCCAAGGAGGAACCCAGGCTTAGTTATTAAGTAAGAC
AGCTAGAGTTGCAGGTGTTAGGGATCATAAGTGACGTTTCACGGGACAGAATCACAGCCTCAGAAGTCTTAGTGTCCTTGGTACAGATAGCCTT
TTCAATGAGAGTTTCCTAATAAAAAATACAATAGAAGTAGCCATTTTTATATAAGTTTCCACTCTAGACCAAAAGAAAGATCGATACTTTTGTG
AAAAATCTCAATTCATCACTTTATCTGAATTGGTTTTCTGATGCAGAAAGGTGACTGTTTCTGCGGCCATCAGGCAAGAGGGAGTGTTTCTCCT
AGCCTTTATGAGATTTTCTCTCAACTGCAGTCAGAGGAGTCTGCAGTTCTCAATGAAGAACACTGGAGTTTCATTAGTTTGCACCAAGAGAAAA
ATGAAAAGCAAAAATGAGGAAAAGGCCGGGTGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGATCAGAGGATCACTTAAAGC
CAGGAGTTTGAGACAACCCTGGTCAACATAATGAGACCTCCATCTCTAAAAGAAATAAAAGTAAATAAAATTAATTTAAAAATGAGGAAAGGAG
CAGAACAGGTTTCTTAGCAAGTATGCTGGAGCATGAAGTGTTTTGCTTCTAGAAGGGATGGAGAGTGATTGAGTAGGTGGGTTGGCTTCTGTTT
TACATGAGATAACCAGGGAATGTGTCTATGATAAGGTGCTTAAACATGAGGGTGTGAGCACTGCAGATATCTGGATGAAGAGTGTTTAGGCAGA
AGGCGCTGCAGAGGCAAAGGCCCTGAGATGGGACCATGCTTGGCATGTTTGAGGAATGCTAAGTAAGCTCATGTGGTTGGAAGCCAACCAGGCC
AGAGGGAGATGGGTAGGAGATGAGAGAAAGCCTTGTGGGCCATGATAAGGGTTTGGATTTCATTCTGCATGCAATGGGAAGCCACTGGAAGGTT
CTGAGCAGGGGAGTGGCAAGAACTGATTTAGGTTTCACAGACTCACTCTTGTGGCTGGATAGAGAACAGACTACAGAGGGCTCAAAGACCATTC
ACTGAACGACTTGAACGCATGTTCCTTGGTGATTTTATTTTATTTTTTGAATTTCCAAAGAAAAGTAATTTATTTTTTGCAGTTAGGGCAGCTG
AGAAGTCCAGGGTTGAAGGGGTGCATCTGCTGAGGGCTTTCTTGCTAGTGGGGACTCTTCAGAGTCCCCAGGTGGTACAGGGTGTCACATGGTG
AGGGAGTTGAGCATGCTAGGTCAGGTCTCTCTCCCTTTTCTCATAAAGCCACCAGTGTAAGATAACCCATTAATCTATTAATCCGTGAATAGAT
TAATCCATTCAAGAGGGCTCTGTACTCATGATCCAATCTTTTTTTTTTTTTTTTTTTTTTGAGACAGAGTCTCACTCTGTCGCCCAGGCTGGAGT
GCAGTGGCGCGATCTCGGCTCACTGCAAGCTCCGCCTCCTGGGTTCGCGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGC
CCACCACCACACCTGGCTAATTTTTTGTATTTTTTAGTAGAGACAGGATTTCACCGTGTTAGCCAGGATGGTCTCCATCTCCTGACCTCGTGAT
CCGCGCACCTCGGCCTCCCAGAGTGCTGGGATTACAGACGTGAGCCACCATGCCCGGCCGATCCAGTCATTTCTTAAAGGCACCACCTGCTACA
TACTGCCACATGGGGGATTAAGTTTCCAACACATGAAATTTAGGGGATTCATTCAAACCAAAGTATTATTTGTTAAAGATGATCTTAAAGAGCT
TAACTTCTTTAAAAATTTTAAACTTATTTATTTATTTATTTTGGAGATAGGGTCTTGCTATATCACCCAAGCTGGAGTGCAGTGGCACAA
TTATAGCTCACTGTAACCTTTAACTCCTGGGCTCAAGTGATCCTCCTGCCTTGGGCTCCCAAAGTGCTGGGATTATAGGCATGAGCCACTGCAC
CTGGCTCTCTTTTCTTTATGCTAGAAACATTCAAATTATTCTCTTATAGCTTTTTTTTTTTTTTTTTTTTTTTGAGATGGAGTCTCGCTCTGTC
ACCCAGGCTGGAGTACAGTGGCATGATCTGCCTGGCCAGCATGGTGAAACCCCGTCTCTACTAAAAATACAAAAAAATTTAGCTGGGTGTGGTG
GTGCATGCCTGTGATCCTAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGAAGGTAGAGGTTGCGGTGAGCTGAGATCATGCCA
CTGCACTTCAGTCTGGGTGACAGAGCAAGACTCTGTTTAAAAAAAAAAAAAAGATTTTTATCAAAAAGACAGGTGATAGGTGTGGAGAAAGGGG
AACCCTCATACATAGTTGGTGGGAATGTAAATTAGTACAGCTACTATAGAGAACAGTTATGAAGTCAGGCAGTGTGATGCCTCCAACTTTGTTT
TTTTTGCTCAGGATTGCTTTGGCTATTTGGGGTCTTTTGTGGTTTCATATCAATTTTAGGATTTTTTTTTTCCCTATTTTTGCAAAGACTGTCA
TAGGTATTTTGATAGAGATTACATTGAATCTGTAAATTGCTTTGGGTAGTATTGTCATTTTAATAGTATTAGTTCTTCTGATCCATGAGTGTTG
AATATCTCTTTTTTTTGTGTGTGTTCTGTTCAATTCTTTCATCAGTGTTTTATAGTTTTCCTTGTATAGATCTTTCACTTCTTTGGTTAAATAG
ATTCCTAGGTATTTTACTTTTATTAATTAATTAATTAATTTATTTTTTTTTTCGAGACAGGGTCTCACTCTGTCATCCAGGCTGGAGTACAGTG
GTACGATCTCGGCCCACTGCAGCCTCTGCCTCCTGGGTTCAAGCGATTCTCATGTCTCAGCCTCTAGAGTAGCTAGGACCACAGGTGCGTGCCA
CCACACCCAGCTAATTTTTTGTATTTTTAATAGAGACAGGATTTCGTCATGTTGGCCAGGCTGGTCTTGAACTCCTGGCCTTGAGTGATCTGCC
TGCCTCAACCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGTGCCTGGCTGGTATTTTATATTCTTTGTAGCATCGCAAATGGGATTCCT
TTCTTGATTTCTTTCTCAGGTTGTTCACTGTTGGTGTATATACATGCTACTGATTTTTATATGTTGATTTGTATCCTGTGGTATTACTGAGTTC
GTTCATCAGTTCTAACAGTTGTTTGGTGGAGTCTTTAAGGTTTTTTTTTTTTTTTTTTGGTCATTTCAACTTTTATTTTACTTTTAGCGGGGTA
CATGTGCAGGTTTGTTACCTGGGTATATTTCATGATGCTGAGGTTTAGGGTATGATGGATCCCATCACCTAGGTACTGAGCATAGTACCCAATA
GGTACTTTTTCAACCTTTGCCCCCTCCCTTCCTCCCCACTCTAGGAGTCCCCAGTGTCTATTGTTGCCATCTTTATGTCCATGAGTACCCATTG
TACCCACTTATAAATATCCACTTAAAGTGAGAACATGCAGTATTTGGTTTTCTGTTCCTGCATTAATTAGCTTAGGATAATGGCCTGAGTCTTT

SAGRES DISCOVERY 02-34

AAGCTTTTCTAAGTGTAAGATCATGTTGTCCGTGAACAAGGTTAAGATGACTTCTTCCTTTCCAATTTGGATGCCCTTCATTTCTTTGTCTGGC
CTAATTCCTCCGGTCCCTCGGAGACTTTCCATAGGCTCCTATTATAGCTGTTACCATACTGTCCTATAATTGTTTCAGTGTCTGCCTTTGTCCA
CCCTGCTGTCAGAGCCCTGTGATCATGCTGGGTTTATCTCCAGCCCCAACCCTGCCTGTGTAGGTTTCTTGAGCTGTCCTTCAGTGCCTTGTGA
GACCAGGGTCCTCCTGCAGATGCCACTTTGATGGAAAGTGCTGTGTTTTCCCTTCTGCAGGGCCTGATGTACCACGATGCCTCTCGCTGGGGTC
TTACGCTACAGACTTATGTGCAGCTCACCATGCTGGACAGGCATACTCGTCCTCAGGTAGGTTTCAGATGCTCAGTTTCAGCCTTCTTAAACGT
TTTCTTCAGACTTGGGGTATGTGATTGCCAGGAAGGGAAACTTTACAAGGAAGCCAGGCTAGGCCTTCAGTGCTGTGCAGGCCTCTCTGTGTGG
GGCCAAGGTCTCTGGCTTCTGTGGTTCTCTTCTGACCTGCCTCTAGTGCCCCCACCTGCAAACCTCAGCCAGCCAGGTGGTGCCCCTGCCACCA
TTCTGAGCTCACATCTTTATGACCTGACCACTGCTGGGCTTAATGCCGTTTAACTCAGTTCTTCTCAAAGTGTGGTCCCTGGACCAGCAGCGGA
AGCATCACCTGGAAACTTGTTAGAAATGCACATTTTCAGCTGGGTGTGGTGGATCCCACCTGTAATCCCAGCACTTTGGGAGGCTGAGGCATGC
GGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAAATACAAAAATTAGTCTGGCGTGGTGG
TATGTGTGTGCCTATAATCCCAGCCACTTGGGAGGCTGAGGCAGGAGAATGGCTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCTGAGATCATA
CCACTGCACTCCAGCCTGGGTGACAGAGTGAGACTCTGTCTCAAAAAAAAAAAAAAAGAAAGAAATGCAAATTTTCTAGTCACATCCCAGACCT
GCTGAATTAGAAATTCTAGGGATGAGGCCCAGCAATCTGTGTTTTATCAAGCCCTCCAGGTGACTCGAATGCATGCTTTGTTTGTTTTCATATT
TGAGAACCACTTATTTAACCTTCATGGGGTCTGGCTCTTAGTTCAAATTCTTGAGACAAAGAATCTGATTGGTTCAGCTTTGGTCAGGTGTCCA
GCCCTGGTTCAATCAGGTGTTGGGGACAGGACCCCAAGGCACAAACATGGCTGCTTAGGCCTATTCCATCAGTGAGGATGCATCTAGAGACAGA
GTCTCTTAGAAGAAAGGGGGCTGTGGAGGTCCTGATCAGCACCTATGTTTCAAAGCTGTAAGCACAACCTATGATGCCAGCTTTAAGGCTCTGC
ATGAAGGAGACAGACTGTCCCTACAGCCAGTTAACACTGGCACAGCTGCTGGGCTGGACAGTTCGGTCCCAGTCTGGGTACCTGCAGCAATAGC
TACCATTCTTCTGTAAGTCTGTCTTTTAAAATTGAAAGATGTGAGTGGGCCGTTTTTGGTGAATAAGAATTTCCATCTCCCCAAATATCTGTCT
AAATTGCACAAATCCACAAATCGAAAGATCTGAGGTTAGTGCATTTTGCCTTTGCTAATTTGCTTTTCCTGAGCAGGCACTCAATTGCAAACCT
AAGTTGTATCTAATGATATTTGAATAGGAAGGGATATAAATGCACTCCTCTATTTAAGGAAATCTACCTCAGGAGGCAGAGAGAGATGGACAGA
CCAGGAAAGATGAGCAGAAGGAGACCAGAGGGATGAATGGGGAGCTAGGAAGTAAGGAAAGAGAGGATGGAAGAATGGAAAGGAAGATGGATGG
GCAGAGGATGGATGGACAGAGGGACAGCAGGGAGAGGGAGGAAGTGCCTGGGTTATGGCTTTGAATCTGCCTTGGATTTGTTGGCCCAGGTCCC
ATGGGTGCTGTGGGCCATGGCCAAGTGAGAGTAGTGTTAGTGTGCCTGGCATCAAGGGTCAGGGCGCCTCTTGCTTCCCAGAGGAACGCTGGAC
AAAGGGCAAGGTCGTCTGCAGAGGGTTTGAGCATCCTGGCAGAAAGGGGCACTGTCAGGCTGTCTTCCTCCCTCTTGGGCATCGTTCTTACCAG
TTTCCTTGGGCAGAGCCCCCAGAACGTCACCCCCAACCCGACCCTCTTGGGGCTGTACCTCATGCATGTGGTCCCTCTGCTTAAGCAAACTCAC
CCTATTTAGGTCCGTGGTAGTCACCACATGTTGCCTCAAGTGGACAGCTTTGGATGGTTTCTCCAGGGCTTGACCGTGTTCTAGTTGAGACTCA
CCTGCCATCAAAGAGGCAGCTGCTGATGAGCCCTCAGCCTCGGCATTGCTGGGCCATGCATGCAGCTTTGGGGTGTGGGGCAGGTCAGGGTGGA
AGGGGGACACAGCCTGAGCCTGGTGGCAGATGTGGCTTCTCCTCCCGGCAGGGGAGTGAGGAGGTCCTCCTGCTTCACTCTCTCTGCCGCCTTG
ATTCTCATATTCAGCAAAGTCCCCAGGCAGGGGGAGTAACAGACATTTCTCAAGGCCTCCTGGCTGTCTCCTTTTCCCCTGAGTTAGTGATTCT
CTTTTTGTTTTCCTTTAGGTGTCATCTGTACGGTTGATGGAGAGGTCGATTCACAGCGCAAGATACATTTTTGTAGAAAACCTGTATAGAAGGT
ACTGTAGTTTGAATAGTTGATAATTTATTAAACCACTAATTTTTCAAAATGAAATAGAAACTTGTTTATTCGATTGACAGATATGGAGTACCCG
CTGTTGTATCAGTTATCCATTGCCATAGCAATGCGGTGTAACAAACAGCCACGAATCCTCATGGCAGACAGCTATCTGCATTCATTGCCCAGTC
AGCCAGGGTGGTCACCAGGCAGCTCTGCTTACCTTGGCTAGGCTCAATGAGATGTCTGGGGATCAGCCGATGTAGGATAGCCTAAGCAAGGGTG
ACTGGAGGTGGCTCATCTCTTTTCCTCTTGCCTGTCACTCTCCTTCTGGGACCAGCAAACCAGCCCAGGTGTCCACTTCTCACGGTGACAAAGG
GTAGAAGCAACAGCAGAGATGCAAGGACATATTTTTCAGGCCTCTGCTCCAAGTTTGCTAGCATTCCATTGGCCAAAGCAGATCACATGGTCAC
ATGAGCCCAGGGTGGAAAGGTGGGAGGGTCCAGTGAGTTACACAGCATGGTACAAGGCTAAAGGGAAGGGTGGAGAGTTGGGCGAGTCAGACGC
ACAGTGTGCGTCGCATTTGTTGTGTTTTTCACTAAAAGCTTCCCTCATGAGAGCAGACTCTGTGATGTATACCTAGTTAGGGGCTTCTGGTGGC
CTGTCAGTGCCAAGGGCTCAGGCATGGGGCCCTCCATCCCTGTGCTCAGAGACTGCCGATTTCTAGGGGTCTTGGAAATGGGTTGCAGACCCCA
CCTGTCCCTGCCGCGAGCTTGGGATACTGCTGTCCTTCCCTCGCAGAGCTGTTCGGATGTCAACGCTGGAGGCCCTTCCTCCCACTCTCATCTG
CAGCTGTCTTCCTAAATGCCACCCTGTCTCCCAGCCCTCCCCGACCACGCTGTCTAGATAGGGCAAGCTCCTTGTTAGTCTTTGTTTCGTTTTT
GGTTTTGGTTTTTGTTTTTTGAGGCAGGGTCTGGCTCTATCACCCAAGCTGGAGTACGGGGGCACGATCTCAGCTCACTGCAACCTCCGTCTCT
CAGGCTCAAGCCATCGTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCACACACCACCACACCTGGCTATTTTTTTTGTATTTTTAGTA
GAGGCAGGATTTCGTCATATTGCCCAGGTTGGTCTTGAACTCCTGGGCTCAAGTGATCCTCCTGCCTTGGCCTCCCAAAGTGCTGGGATTATAG
GTGTGAGCCACTGTGCCTGGTCCCCTTGTTATTCTTAAGGACTACTTTCTGTTAGTTTTCTTTGTAGTATTTAAGGCAATCATATGAAATTGTT
TAACCAATTATGACCTACAAAAATGGCAGTTTTGTGTGGTTCAACTTAGTATGTGTCTAATTGTTTATTGCCACCCACCCCCCGGACCATAAG
CTCCTAAGGGCAGGCACCAAGTTTGTTGTCCTTGCCTAGGGTGGACCCAGCACAGAGCAGGCTCCTCGTTGATACCTGTTAGCTATTGTTGGAT
GAGGGGACCTGTGGCTGTGCTTTGGTCTCCAGCCCAACTTGTTCCCCAGGCTCTGGTCCCCCACTGTTTTGCACCTTTCATTTGAGGGGCCACT
AAAAAGGCTTCTCCTAGGAGCCCTGAGCTGCCATGGATCATGCCTTTGAGCCTGTGTCACCCCCCAAAATGAGAGCCTCTGCCCCAAATCCACC
CAGAGCATCAGAGCAATGCTGTGGGCTCAGGGGCTGGCAGCCAAGGTGAGTCCTGGCCGTGGCTTTGCCCCCTGGCCTCAGACTTTTCTTGTGG
GCTGCAGCTTGCCCTCTGAGCAGGTGGCATTCCTGACCTTACGGCCCCATTTTCACCTGACAACCTGGGTTTCCAGGTGTCCACTGCTAGGTTT
ATCCAGCCCTCTGCGGTCCTCAGCTCCTGCTCCTTAGCACCTCAGCCAGAGGGAGGACAGGCAGGACAGAGGAGAGCGAGAGCAGAAGGGAGCC
TCTGTTATGTTTGTGTACTGCTCTGATTAGAACTGTAACCCGAGGCGGAGGTTGCAATGAGCCGAGATTGCGCCACTGCACTCCAGCCTGGGCA
ACAGAGCGAGACTCCGTCTCAAAAAAAGAACTGTAGCCTGAGGAACAGATCTTGGCAGTGGGGTGGGATTACCTATGAACCTCGCAGAGTGGGG
CTGTGTCTGTCTTTTAATCACATTCAGCTTGGCCTGTTCTGTGTGGGGTCAGTGGCTCTTGTTGCTTTTTTTATTTTTGAGATGGGCTTGTGCT
CTGTCACCCAGACTGTAGTGCAGTGCCATGATCATGGCTCACTGCGGCCTCGATGTCCTGGGCTCAAGAGATCCTCCTACCTCAGCCTCCTGAA
TAGCTGGACCTACAGCACATGTCACCACTTCTGGCTAATTTATTCTTATTTTTTGTAGAGACAGGGTCTCCCTGTTGCCCAGGCTGGTCTC
AAACTCCTGGGCTCAAGCGATCCTCCTGCCTCAGCTTCCCAAAGTACTGGGATTACAGGCATGAGCCTGATTACAGCTCTGCTCGGCCTCGTGG
CTCTTTTTGAAGCAAGTAATCTGGAATGGAATGACCAGAGGTTAAGGGGAGAGGATAGAGTGTGGCATTTGGTGGGCCTGGGTTCTATCCTGGC
TCTGAAGTTTGCTCTGTTTGTGAGCAAGACCAAGTTTCTAAATTTCTCTGAGCCCATCTCTCATCTCTGATTCCTCTTGTCCATCTCTGAAGAG
CCTTTGGACCTGCCACCTCCTTCGTGTCTTAGGACCCTTTTGTGGGTCCTTGCCCACCTTGGTCTTTATTAAATTTGTGAGTTCCCCAATCCTA
CCCCCAAACCTGTAGGCCACCCAGCGCTAGGTAGATTTCCCCAGGAGCCATTTGTCTTTGTTTGGCCGGTCACAGTTCCTGCTGATGGCCATGG
GCTTTGGTAACTCACGCCCATGGTCCTGCATCACCACATTTCTGATGCGTCAGTTCTGTATCTCCCAATCTCTGTGGTTACGGCATTGGTCTAG
ATGACATGGGCCTTGCCTGGAGCTGTTCTGTGGGTAGTTTAGGAAGAGAATGTAGCTTTTAATTTTTTTAGCTCTTTTCCTGTCCTGATGACTT
TATATTTATGTCTCTCCCTGGCCCTCCCAGAATGCATGGCCTCTGTGGTTAGGATTTCTGTGGGACAATGAACCACAGAAGAAACTTACAGTGT
CCTTTCTGTTCTTGGGATCTAATTGTTTTAAGTTCATATGGCTTTCGGGGGGCTCAGATTCCCCTGAAGACCTTGTTGGGGCCTTGAGATCCAT
CACTGGGATCTCTTGAAGCCAAAGGCTCTCAGTGGGCATGTGGCCTCGGGCACTCCAGAGGCTACTGGGAGCACTGTGGCTGCCTGGAGGGCCA
GGCTATCTACCATGGTCTCCAGAGAGATGAGAAAAGGCGGTGTTCCTCAGACCCTTTCATCGGATTCCTCTGAAGGCAGAGGAAAGCTCCCCAC
AGCACTGCTTCCTCATCCTCCCAGACCCTGTGGTCCAAAGCAGCCACCTGCCAACAACCCAGAAGTTTCTTGGAGTCTCCTATTTTAACCTAGA
ATTCATTGGGATTTTGCATTTTCCTCCATAATATGTTCTTAAGTTTGTATCTAAAAATAATAATTTACATAACTTATCATTGAGGACAATGGAT
GTTCCTGTATTAAACACCATGCTTTGCATGTGGCTTGGAGTTCCCACTCCCTCAGCCACATACCCCAGAGTCCCTAAGTCCAGGAGGCAGAGAA
CCAAGGGGTAGCGGCATTCAAAACACCTTCCCAGGGCAAGTGATTCACTTGTGAACTGCACCTGCTTATGTGTTCCCTGGAAACGGGGGCATCT
GCTCTCATGGTTAAGGAACAGGGCAGGGACCCATGGACAGGAGCTGCATTTACTGTCTGGTTGTTGACCCTATTGGGCAGATAAGGAACTGAGA
AAGGATTACAAAGCCAGTGCTCCTTCCTGATCGGGCAGGAACTAACCACAGGAGGGGAAGGTGTTCCGAACCCTGCTGTGTGGGGGCAAGCAGC

AAATGAGGAAGTGGCAGGAGGCATCTAGATTTCTCTCATCAAGGCCAAAGGCTTCAGGGCCCACTGGGTTCCCCAAAGCTGAGAATCCTGAGGT
ACTAGCCCAAGGGGGAGACTCTGCCTCTTTCCAGACAGGCTTTACCCTAAGCTTCTCCCACAACCACCTGTGCATCTTGTTTACAGGCAGATTC
CACTTCAGTAGCACTGAGGTGGGGCCTGAGAGGCCACATTTCTAGCAGGTGCCCAGGTGGGACCATACTCCTACTGGTCGGGGATCACACTTTG
AGGAATACGGGCCTCAGAAGAAGGTGGCAGGGCCGGGTGTAGTGGCTTATACTTGTAATCCCAGCACTTTGGGAGGCAGAAGGGGAAGGATCAC
TTGAAGCCAGGAGTTCGAGACCAGCCTGGGCAACAAAGTAAGACTCCCATCTCTACAAAAAATTTAAAAAATTAGCTGGGCCTGGTGGTGCACA
TCTGTAGTCCCAGCTACTTAGGAGGCTGAGGCAGGAGGATTACTTGAGCCCAGGAGGTCAGGGCTGCAGTGAGCTATGAGCATACCACTGCACT
CCAGCCCAAGTGACACAGTGGGACTTTGTCTCAAAAAATAAAAATAAAAAAAGCTGGTAGCCAGGTGGTCCACAGGGCGCCCTCCATCCCAATG
CCACGACCCTTTTCCCCTGGAGTTCTGACGGTAAGGTGGGCTTCCTTGGGGCTTCACTGGACCTTTGGGGGTCATAAGAACAAGAGCCTCGGCC
TGAGGGTTGTCTTTGGGACCATGGTGAAAAGTTCTGCGCAGTGCAGGATTTCCTGTTTCCTGCACCTGGCCTGTGGTTTCTTAATTTCACATTT
GTTGCTTCATATTTGGGTTGCTGGGGGCTGTGTTGTGTTATCTTTGTTTTTAAGGTTTCTGGACTTATTCCTAGGCCAAGAATCAGGCAGCCAT
AGGGCAAAGTAAAAAGTATTTTTAGCCAGAGCCACAGAAGGGATAAAGGGAAGGAAGACTAGAGCTTGGCCACTCTCCGGACAACTCCAGCTGC
CCTCGATGGAGCGGTCATCCACAACGAAGTATTACTGAGAAAGTAGATGTGGGGTTTTTTTGTTTTTTGTTTTTTGTTTTTTTGATTTTGAGAC
AGAATCTTGCTCTGTTGCTCAGGCTGGATCACTCAGGCGATCTCAGCTCACTGCAACCTCTGCTTCCCAGATTCAAGCAATTCTCCTGCCTCAG
CCTCCCGAGTAGCTGGGATTACAGGCGCCCACCACCACGCCTGGCTCATTTTTGTATTTTTAGTAGAGACAGGGTTTTACCATGTTGGCCAGGC
CGGTCTCGAACTCCTGACCTCAAGTGATCTGCCTGCCTCAGCCTCCCAAAGTGTTGGGATTATAGGCGTGAGCCACCATGCCTGGCCAAAGTAG
ATGTTTTTAGAGGTTTCGGCTCCTTCAAAATGCAGATTACTGTCATTGTCACTACCTATGCAAAATGTAGCATAGAACTGACTTTGGCTGGGTC
CTTTGCCCATACCTAGAATAAGGTGTCTTGGTTCCCACCTGCAGGGAGTTCAGCCAGGTACTGGGAACCACACGGTGGCATGTGGGGCGTCAGC
TCCTGCCTGGGAGCTCGTGTTTCCTCATTTCCTGGGATGCTCTAGGAAAAGGCTTCCCAAAATGCCATGATGGGGAGCCCTTCACAAGGTGGGA
GGGCACATTACCATTGCCCCTTCAGTGCTTGGGTTGATCTTTTTCTCCCTCTCAGAAGCTCTTGCAACCTTGGTTCAGGATCTGTGGGGGCCTA
GACAGAAGGCTATATGGCAGGCTCAGGTCCCCAGAAAAGCCCACATATTGGAATCCTGCATCTCCTCGAAGTAAAATTTCTTGAAGGGTGTTCT
TGCTCTTTGGGCTGTGAACAAATGAAGAGCTCGCCAGGGAAAAGACCCACCTCTTCTGGCACTGTCTACCCTGGCGAGGTTGGGGTGTGCAGAA
TGTAACTGCAGTTATGCCACCAGGGATTCGAGAGGGCTGTGTTAATTGCTGGAGAGGAAGATTCCAGTTACACAGTATCCTTAAAGACGGGAAC
TTCTTTTTCTTTTTTTTGAGACGGAGTTTTGCTGTTATTGCCCAGGCTGGAGTGCAGTGGTGCAATCTCGGCTCACTGCAGCCTCCACCTCCCG
GGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTAGTCATGTGCCACAACGCCCGGCTAATTTTGTATTTTTAGTATAGATGG
GGTTTCTCCATGGTGGTCAGGCTAGTCTCGAACTCCCGACCTCAGGTGATCTGCCTGCCTCAGCCTGCCAAAGTGCTGGGATTACAGGCGTTAG
CCATTGCGTCTGGCCAAAGACAGGAACGTGTAAGGGGCAGGCAGCTGGCTGGCATGAAAAGCTGAAGGTGGTGAGCAAGATTCATGTAGCTAAA
GAGGCCACACAGGTGACTGTGTGGGCCGAGTAATGGGAAGCAAAGGTTTTACAAGATTGCCTGGTCGTCCTTTTCTAAGAACAGAAGTGAGGGC
GTGGAGTGGGACCCAGCTCGGGAAGTGGCATGCTGACTCACCTGTGGCTTGTGGTTGGGGACACTGAGTAAGACCTGGTGTTTGGAACCACAGG
CTGGGCCTCCTCCCCTGCTGATTGGCCCAGGGGCTTAAGTTCTTCCCAGCTCCTGTCTAGACTGAAACCTCCTGGTGTGGGTCATGCGCCTAAG
AGCTGTGGCCTTCCTGGAGCTCAGGCTAGAGAGACACTGGACTTGATCCGAGTCAGCTGACAGACTGGGGTGGGCGGGTGGTGCAATGGAGAGC
ATTTGGGTTTGGGGGTAGGGAGAGCCAGGCTTGGACCCCTGCTCAGACAGAGTTGGCCTTCACTTCTCTGATCCTCAGGTTTCTTCTATAAACT
GGGACTGAAGCCAGCCTCACAAGGTCTTGTGAAAACAAAAGGAAATAACGTATACAAGGGAGCTCTTCCATTCCATTCCGCACAGACTGGGGGG
CTCTCTTGGCCTCAGGGAAGGATGCAAGAAATTGTACTGATGTAACAGCAGGATTCATGTGGATCAAGACCTTGGTTTTGCCCCCTTGGGGTCA
GGGCAAGGGTGAGACCCCCATGCCCACTGTTGAGTTGTGTGCTTGGATTTGCCAAGCTTGGATTTGCTTGGTATTGCTCTCCGTGCATTCTGTA
GAAATAAAGGCAGTGGCTTGTCTTGTCGGTGGTGTGGGGAGCCCATGCTTGAGACAGACACAGGAGGAGCTGGGCAGAGTTCCTAGGAGGAAA
TACAGTTAGAGCAGCGCCCACTGTGCCCCATGTCCCTCGGAGTCATGGAGATCAGGCTTCTGTTTCCTCACTCAGCTCAGACACTGGTCATTCA
GTCCTCCTGGATCCCCCAGCCTCTTCTGGCACATGGTTCTAGTCATGGAAGGGTTTTCAATAGGTCTGGCCTACTGACCCTGCCCATGGGAGGC
CACCCGACCAAGGACCCCTTCCAAGAGCATTGGGAAGGGAGAGGCTGCCCCTCAGTCTGCACCAACCCTGTGGGGGAAGCCTTTTGTTTGGCTG
TGATGGGGGTGGGAGTGGGAGGCCCCTGTGACTACCTGGAGCCGATTCCCAGGGGAGCTGTGGCAGGGGCAGAGCCACCGGAGTCTGTCAGTCC
CAGAGTCCCCCACAGGTGTGACCCCCTCCCCATGTCTCCATGTGCAGACCCCCGTGTACTGTGACTGTTTTGCAGTGGTGGTTGGTTTGGTTTT
AGTTAACACTGCTTCATTTGTTCTGAGCTGTGGTTCAGTTCCATGATCATATCTGTGGGCACCCTCCCAGCTCTGGGATTGGACAGAGTCTCCC
TCGAGCTGTGCAGACGCATGAGGTACTCCGGTGGCTAGTCCAGCCTTGGACACTTGGGAGACTGTCCCATGGGCAGCTCAGCTTCTCCCCAGTT
GCTGCTAACTGGCCCCACCCCTTTGGTGCCACCTCTTCTGTGCCCTCAAGCCATGAGTTTGCTGGAGTAGGCGAGAAGCTAATCAGCAGCTTCC
TCATTGCACATCCTCATTTTCTTAGAGTCAATTTTGTTCTCAGTCTTCTTTTTCCAGAAAAGGAAAATAAGAGATAGTGGTTTGGTTTCTTGAA
CATCAAATATTCGGAGCTGAACTAACTGAAACCCAACTCAGGGTAGCCTGAACAATGAGGTGTCATCAACTCCCAACAGATGGCTTATTTGGTG
CCTCTGGCCTGGTTTCTCTACATTTTGCTACTGTGCATCCTGTTCGTGTCCTCATGCAGTTCTCTCAGGGTGACAATGTAGTCGTGGCAGCATT
GGGCTTCTCACTCGCTGGTTGGAGTAAGGGCAGGTGTCTTGCTAGTGGCTCTTCCCTAAGCGTGCGGAAGTATCTTTTCTGTAAGTCCCTGCAA
ACCTCCCTCACGCCTGCCTAATCCAAATTGGGCCCCTGGCTGGGGGAGGCCCTGCACTGATTGACTTAGCTTGGCTTCCTGAACGCATTGCTGG
AACTAGGGGAGACGACTTCCTTTAGACCGATTGTGCCTACCCTAAAGCTTGGAAGCTTGGGGTGGGGTGAGGTTTCCCTGAAGCCCTTGGGTCT
GTGGATGGACCCTGAATAAAGAATGGGCTACTTTTAAGGAGGTAAGCGGAGAGGAGGCAGGGAGGCAGCCTGTGGACACAAAGTTGTCACCTGA
ACTTGTAGTGCCTGAGTTTTGTTGCCTGGGAGTCCCCTCTGCAATGCTGTAGGATTTCCTTCCCACTCCTCCAGCCTCCCACGCAGCTTCTCCA
GGTTTTCTGGGAGTCCTGGCCGTCCCACAGGTTGGTCTGCCCTGGCCTCTGTGCTGCAGTCTGCTCAGGCCCCGCTGCTGTTCTCCGTCCACTC
TCCCGCTCCTCTGTCAAATACTCTTCTCTTCTGAGGACATGGGGGTGGTCTCAGAGACTAGGGGAGAATGTCCCTCTCCAGTTGGTGCCATGCC
TTGCTGTTAGGGCCCCAAGACAGGGCTACTTGTGCCCTTGGCCTCCCAGAGTGCCTGCCTCACTCTTCCAGCCTCTTACTTCCTTCCATGCTCA
TCCCCTCGTGGGACTGGAGTCAGCCCCTCCCTGCCCCCTCCCCACTGAGAGCCTCCCATTGCACATGGCTCAGGTACGGCCACTCCCCCATGGC
CAGTCTTGCCGAACCCAGCTCTGAGCGGGACCCACATGGAGCCACTAGTGGAATGGAGGATGTTAAAGGGAGAATTCCTCTGCTAGGCCTGTGA
GGGTTGTCTGCCTGCTGATGGGCTTGTGCCCTCCAGCTGTGTCCATTCCTGCTCTCTCTTTCCTGTTCATTTCCTCCCAGGGCACAGGAAACCC
ACAGGAATACCAGGAATAGATGCCAGATTTCTCCTTCACCCTGGCTCGTTCTTCCTTCCCACTTTCTTGCCTTTTTTTCTTTCTTTTAAAGTTA
ACATTTAAAATGTGTAGTAGGCCGGGCGCAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCATTTGAGGTCAGG
AGTTCGAGACCAGCCTGGCCAACATAGTGAAACCCCGTGTCTACTAAAAATACAAAAATTAGCCAGGCATGGTGGCGCACACCTGTAGTCCCAG
CTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCTAGGAGGCGGAGATTGCTGTGAGCTGAGATCACGCCACTGCACTCCAGCCTGGGCGA
CAGAGTGAAACTCTGTCTTAAAAAAATAAAAAATAGACCATCCTGGCTAACACGGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTAGCCC
GGCGTGGTGGCGGGTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCGTGAACCTGGGGGGCGGAGCTTGCAGTGAGCCAAG
ATCACACTACTGCACTCCAGCCTGGGCGACAGAGCGACACTACGTCTCAAAAAATAAAAAAAAAAAATAAATAAAAACTAAAATATGTAGTAAT
GCTCCCCAACTCCCACTGCTGATTTGAGAAGTAATGTGTTGTTAAAATTTGGAAAATACAAAAAGGTATAAAGAAAAAAAGAAAAGTCTCATGT
AGTCCTGCAGCTTGAGAAAAGCACTTTTTACATTTTGATATTTTTCTTTCCCACCTTTCCAAGATGCATTGGTGAATACTTTTGGAAATGTGGT
TGGGATATACACAGTTTTAGATCCTGTTGCTTTCACTGAACATTAGATTTGAAATTTTTCCATGCCATTAAATATTATTTTACAATATCATCCT
TCAGTTACTGCGTGAATTTTCTGTTATATAGATTTACCAAGATTTAGTTTTTTATTGGTTTAAACAGTGCCGCGGTGAGCATCATGATTATTTT
CACAAAATAAATTTTTTTGTTTTGTTTGAGTCAGGGGTCTCACTCTGTTGCCCAGGCTGGAGTGCAGTGGCATGATCATGACCCACTACAGCCT
TAAACCCCTGGGCTCAAGTGATCCACCTGCCTCAGTTTCCCGAGTAGCTAGGACCATAGGCATGCGCCACCACCCCTAGTTAATTTTTTTGTAG
TTTTTGTAGAGATGGGGGTCTTTCCATGTTGCCCAGGCAGATCTTGAACTTCTGGCCTCAAGTGATCCTCCCACCTCACCCTCCCAAAGTGCTG
GGATTACAGGCATAAGCCACCACCCTGGTCCACAAAATAAATTTCTAGAAGTGAAATTGGTTTGCTGATTCATTGCCTAACCTGAGCACTGTCT
CTGTTCTCAGGGTACAAGCTTTAAAGTCCCTTTCTCTGCTTAGAGTTCCAATCCCAAGTGAATTCTCCCATCACTCCGTGCCATGGCCCTTGCA

GCATTGTGCCATAAGCCGCTCCCAGGCAGCAGGAGGTCGGGAATGCTTAGGGTCCTTGTCACTGCATGTCCAGTATTGCACGGATCACACTGTG
CCCTGGTACCCTTGGTGACTCCTTTCATTGAGAGCCGTCTCAAGATCCTTTTGGGGGAATTGCATAGCCCAGAAGTTTTCTCTTAGGTGAATAA
GCCCTTACAACTCTCATTGCAGTGGGAAGATGCCAGAAGTGGACTATGTAGTTCTGTCGGAATGGTTTGACTGGATCTTGAGGAACATGGACGT
GTCTGTTGATTTGATAGGTGAGATGCACCCCTCCCACCTCCCTCTCTTGTCTCTCTCCTGGGTCCCTTGAGGATGTGCTTGGCTGGGCCCCAAC
CCTTGGGGGCAGTGGGTGAGGCACTTGCCCTTGGCAGTTCCTTCCCCATGGGAGTTCAGCTTTCTCCCTGAGGGCAGACAGAATTCGGGACTTC
TGGTCTCTCATGGAGAAGAACCCTGGCCTTTGTTCTTTAAACTTCCCTCCCTGGCTCAGCTACTTTCAGACCCAAATCCACTGTGATCTGATGG
GTTTTTCTAGTTTGCAAAGGAACAGGAAGGACAGAGCCTGAACATTCACTGAGACCTGCTGGGTGTGAGGCCTGTTTTGAGCTCTGTCTATGAA
CAGAATCCCATTCAGCCTCAAAACGACCCCACGGGGCCGCTGACACTGAAAGAGAATGAAAGTCGAGGCGGAGGGTCAGTGGTCAAGCCAAGAG
CTGGCCCTCCCTGCTTCCTGCTCGAGCTGTGCAGACCTTCCTCCCGCCTTTGCCTGTGTGCCTGCTTTGCTTCCAAGCCATGAGCAGAGTCCTG
AGAGCCACGTATTCTTTTAACCTCAGTTTACCTTCGGACCAATCCTGAGACTTGTTACCAGAGGTTAAAGAAGAGATGCAGGGAAGAGGAGAAG
GTCATTCCGCTGGTAAGAGGCCTCTTTGACTTGGTTAAAGACAAACTGGGAAACCACCTCTGTCCAACCCGGCTTCCTCTCCCGGCCCCACCCC
CATGAGATCATTGTGCCCTTGTTTGCAGAGAGAGAACAGGAACCAAGTGTATCAGAGGGTGAACTCTGACTTCCTGTTTGGCCAGAGACCCACG
TGGATGTCCAGATCTGCTTGGCTTCCTGTGGTCGCTGACTCACAGTTTGGCAACCCTCCTGCTTGGAGGCGTTCCCCTCCCCTCCCCACCTGCC
CCTCCCCATCTTGGCAGCACCAGGGCTTGTCTGTTCTGCCTCCTGAAGATTGCCTGGCCTTGTGCTCTCTGTGTCCTCCCTAGAATGCGAGTTC
CAGGAGGGCAGGACCCAGCCCTCTTGTTCACTGCTGCATCCCTAGTGCTTAGCACAGTGCCCGGCACGGAGGCGGTGCTCATGCTTAGTGGTGT
TTGCCCACTGGAGAGATGCCATGCCCTTCTGAGTTCTGCTCAGGCCACACTGACTCTCATGGGGACTCTGCCAGTATAGGCCCGGGCTGTGCAT
CTCGCCCTGGCCCTTCCCTCCTTGCATCTCCCTTCAAAATCTGGCCTCCAGGCTGCCGCCCGGCTGATATTTCCAATACTCATCACCACTCGTG
CAATTTCCCAGCCCAGAACCTTTCAGTGCCTTGCTGCTGGCTAGAATGCAGTCCCCACTTTGTAATACGGCTTATGACCCGGCCCCAACTGCCT
CTCTGGCGTTATCATCCTCCATTCCCTACTTTCTATGCTCTGGCTATAAGGAACTAGTTGTGGCCACACACAAACAACCACATACACAGTGGAG
TTATGCAAATGTGCCTTTGCACAGTCGTTTCCTTTGTCTTTAAAGTGTTACTCAGATGTCACCTCCTCCAGGAAGCCACCCCTGACCTTCCTTC
CATTGTAACCCCCCCCAAACCCACCCCCTGGCTTTCTGTGATCATGGGCCTTAGGACAGCATACTGACACTATTTGTTTATACCTTTGTTCCCC
ATCCCTCACTAATGTGAGCTTTTTAAGATTGGGTCTTATTCCCTCCGTGTCCTCTGCATGTGCCTTGGGGCCTGGTGCCTAGTAGTTGCTCAGT
TAGTATTGAACTGAATGTCCCATGTGAGAAGCTGCCACTGGAGGGAGACAGAGGCTGGGCAAGCATTCAGTGGGGTGTCAGGGGCTCTGAGCTC
AGGATAGGCTGGACTGGGGGCCCTGGGAAGCCTATCCAACTCCTGAAATCCTGCTCAGCCTTGTTTTTCCTTGGTGCCAGCACGATGCATTCCT
GCCACGAGGGCCCAGGCGTCACTCTGGGCAGCTCCTTTGAAATCTTGGAGACAAGAATGCTAGGAAGATGGAATGTGGTGGAATGGGCCAGGC
TGGACCATGCTGTGATGCGCACAGCAGCTCTGTGCAGTGACCCAGATGCTCCCCAAGCCTGGGGGCCGTCCAAGCCGTGATCCAAGCCATTGTC
TTAAGGGTTTGACCAGGTCCATGGGACACATCTGGCTCCTATTGCCAAGGGAGAGCTGGGCAGGAGATGTAAAGGCTGCTGCAGAGTTGACACG
CGAGCCTCTGGGATGGCGAGTGGAATCTGTGTGAGGAGCCATCCCACTCTGTGCCTGGGAGAGCACGAGTATCTGCTCTGCCTGGCATGCAGGC
CCCATGGCTCAGGAGGGCCTGTGCCCCTTTCCCTTGGGCTCCGCTGCATCAGGCTTTCTGCAGTTGGTGGTCTTTATAGTCTGGAGGGTCTAT
AGGTTACGAGTTGTTGAGGGGGTAGAAGGGCAATGGGTGAGGGTCACAGTCCTCTTGGTGGCAAGACAGAGCGGAGGGTTTAGAGGCTGCCCAG
GGCTGGGCCCCTGCCTGAAGGAACTGAGGCCCTGCTGCTGCAAAAGTGGCAGTAAATGGGAGAAGCCAGGTGTGGGTCCTGCCTTTTTTTTTTT
TTTTAGTATTTATTGATCATTCTTGGGTGTTTCTCGGAGAGGGGGATTTGGCAGGGTCATAGGACAATAGTGGAGGGAAGGTCAGCAGATAAAC
ATGTGAACAAAGGTCTCTGGTTTTCCTAGGCAGAGGGCCCTGCCGCCTTCCGCAGTGTTTGTGTCCCTGGGTACTTGAGATTAGGGAATGGTGA
TGACTCTTAATGAGTATGCTACCTTCAAGCATCTGTTTAACAAAGCACATCTTGCATCGCCCTTAATCCATTTAACCCTTAGTGGACACAGCAC
ACGTTTCAGAGAGCACGGGGTTGGGGGTAAGGTTATAGACTAACAGCATCCCAAGGCAGAAGAATTTTTCTTAGTACAGAACAAAATGGAGTCT
CCTATGTCTACTTCTTTCTACACAGACACAGTAACAATCTGATCTTTCTTTTCCCCACATTTCCCCTTTTCTATTAGACAAAACCGCCATCGT
CATCATGGCCCGTTCTCAATGAGCTATTGGGTACACCTCCCAGACGGGGTGGTGGCCGGGCAGAGGGGCTCCTCACTTCCCAGACTGAGCGGCC
GGGCAGAGGGGTCCTCACATCCTAGACGATGGGCGGCCAGGCAGAGACACTCCTCACTTCCTAGACGGGGTGGCAGCCGGGCAGAGGCTGCAAT
CTCGGCACTTTGGGAGGCCAAGGCAGGCGGCTGGGAGGTGGAGGTTGTAGCGAGCCGAGATCACGCCACTGCACTCCAGCCTGGGCAACATTGA
GCACTGAGTGAACCAGACTCCGTCTGCAATCCCGGCACCTCGGGAGGCCGAGGCTGGCGGATCACTCGCGGTTAGGAGCTGGAGACCAGCCCGG
CCAACACAGCGAAACCCCGTCTCCACCAAAAAATACGAAAACCAGTCAGGCATGGCGGTGCGCGCCTGCAATCCCAGGCACTTGGCAGGCTGAG
GCAGGAGAATCAGGCAGGGAGGTTGCAGTGAGTCGAGTTGGCGGCAGTACAGTCCAGCCTCGGCTGGGCATCAGAGGGAAACCGTGCAAAGGGG
AGAGGGAGAGGGGGAGGGGGAGGGGGTCCTGCCTTTTGCCTTGGCTTTGATTCAGGCGCCAGGGGAAGGGCCAGTGTTTGTGCCCACGAACCCC
CAGTGGAGCAGAGCAGGGTGGCTGGTGACACTTGTGCTGTTTTGCTCAGCCTGGCCACCGAGTGTGTGGCTGCGTCTGCCGCTGTCCACTTGAG
CCAGGTTTGCTCTTGCAGGGTTCCTTTGTCTGAGTCACTGCCCATGGTCATTGACTACTTTGACCCCCTCTGCTTGACACCCTTGGTAGGTGGG
GTCTGCTCTGTCCACTCCCGACAGACTGCTTGTGTTTCCCTGGCAGGAATACCTGGAAGCAATTCACCATCTCCATGAGGAGTGGCTCATCAAA
GGCAGCCTTTTCCCCATGGCAGCCCCTGTTCTGGTAAGTAAGACTCCCTTACAGGGTACGAGACTGTTCTAGAAAGAGGAGTGACCCGGGGAAT
GTCAGCCACCTTGCAGACAGGGGAGGGCACAGTCCTTTAGAGTTTGACAACTTAGAAGAAGGAAGGTGGGAAGGCTGGTGCTCTCTCTCCCAGT
GCCTGTTTCTGGGCTGAGTCTCAGAGTGAGTTGGCCAGACCCGAGGGAAGGCAGTCTGTGCCAGTGCCATCACACCTGGCAGTTGTCACTGATC
CAGCATCTTCAGCGAAGACTCTAGACCCGGGTCTCAGTTTTCACCATTTGGGATAGTAGTTCCTCTGATGTGACCTTCCTCCTTCCGTGGATGA
CACAGAGCCTCATTTCACCTTTGTTTGGTGACTCAGGTCATCAGAAGGAATGTCATTGTCTGGTCTGGGCTGTCACACAGTGATGCCCTTAGGA
ATGCTGAGGTGTGTGGAACTGTCTGCCCTGCCCACTAATGTCTCTGCGTTCCTGTGTTTACTTTTTACAGTAATCCTCCTTTCTCTTGCTGCCA
TGTGTCATTTCTGACTGATATTGATGTGTCTGTCCCGTCAGCATTTCCTTACTTCCCCATCTCCTTGTTTTCCAGTTTGCTGTTTCCAGATTTC
TTTACTCAGACAAATAAGCAGTGGCCCAGATGCTCCCAAGAAATGCGGAGTCTGGGGTCCCTCCGAGTCTTGATTGGAGGGAACCTAAGATGGT
TACATATACAACATGGGATTGGCTGTGAGGCAGGGTTGTGCGCAAGCTTTGGTGCATGGCTATAGGAGCATTGTTTGATGGGATGTGAGGCAGG
GCTGTGCATGAGCTTTTGTGCGTGGCCATAGGAATATCTGTTTGGGCTCAAACACTTCTGCTTATGGCTCTTGCAGGCAGTGAGGTTGCCGGAA
AGTGAGATATTACTGTAGTAATTTTTTGTTTGTTTGTTTTTGAGACAGAGCCTCACTCTGTTGCCCAGACTGGAATGCAGTGACGCAATCTCGG
CTCGCTGCAACCTCTGCCTCCTGGGTTCAAATGATTCTCTTGCCTCAGCCTCCTGAATAGCTGGGACTACAGGCGCATGCCACCATGCCTGGAT
AATTTTTTATATTTTTCGTAGAGATGGGATTTTGCCACGTTGGCCAAGCTGGTCTCAAACTCCTGGCCTCAAGTGATCTGCCTGCCTCGGCCTC
CCAAAATTCTGGGATCACAGGCGTGAGCCACTGCACCCGGCCTACTGTAGTAGATTTTTAAATAAGTACAGCTTATTTTTCTCCCTCATTATGG
AAAAAAAGGAGGGTAGAAAGTGATGAGGGAAAAAAACAAATCATTCATGAGCTTACAGGGTCTCACTGTGTTGCCCAGGCTGGTCTCAAACTCC
TGGGCTCGTGTAATCTTCAGGTCTCAGCCTCCCAAAGTGCTTGGATAATAGACATGAGCCACCATACCTAGCTCTTGTAGTACATTCTTAAGTG
AAAACCTCATTGGAAATGTAGATTGCCCTAGAGCTGAAAGCGATTTGGCTCTAACCTTCCTTTTTATCTGCCTGCAACCTTCTGTGCCCTTCCC
TGCCCCCTGCTGCCTGCTTCCATCTGTCTGTCTCCAGCTGTGAAAGGAGGATGCTGCTGAGGTCAGTGCAGCCTTGTGACCCATGTGTCTAATT
TCCAGGTGATTGAGGCTGACCACCACATGGAGAGGATGTTAGAACTCTTTGAACAAAATCGGGATCGAATATTAACTCCAGAGAATCGGAAGCA
TTGCCCATAGGAGGCAAAAGGTCTATGGCTCATGTCTGAAAAATGCCTGCTGCTGCCAAGTTAGCTATTGGGAGCAATCTGGAAAAACTTGCTC
CCAGGAGGGCTTTGTGTCTGGCCAGCTTGATTTCCTAATGGTCTCATCTCCTTTGCTAGTGTCTTTGTCATGCGTCTCTGGCCCTCGTGGGTA
AATGACAAACGGGACCAATGGGTTTGCCAAGCCCTTTGCTGTTCGCAGCCTCACATTCCCCCGGTGCCTCTCCCATGGCTTTGTGCTGCTGAGT
CGCTCTCATGAAGCCCTTAGGGAGAGCACCTGTTGTGTGCCTGACACCACGCTGGAGCTGTGTACCAATCGTCTCAGCCTTCATTAGGAGGCCG
AGGTAGGAGTCTTATATCCCAGGTGAGGAATTTGAAGCTCAGAAAGGTTGAGGGGCTCCCCAGAGGTCACACAGCCTGTGTGCAGTGGAGCTGG
CACCATTCAGACTTTCAGCCGACTCAGCAACTTTCCCTTGCCCTGGGCTGCCTCCTCCTGAGAGCTGTTCCCCACCGCCCTGCCTCTTCCGGTT
GGAGGCTCTCATGTCTCTTTGGGGAGAGCTGGCAGTGTGCGGAGCTGATAACATTTTCCCAATATTGAGCAGTTCCCAAGGACAGTCAGCATTT
CTAGACTTCCACAAAATTATGCTGCATTTGGCTGGAGCCCGGTGTTCAGTGGTTTCCCTGCCCGAGGTCGCTGCAGCCCCATCTACCACATCTT

CATGTGGACATTGAGATTCACATGCTGGCTCCTGAAGGGTGCTCAGTCTCCTTGGTGATTAAGGTCCTGCTTGAACTGCTGCCAACTCCATGTC
AGGGAAGTCGCTTTTGGTGCCTGGCTGGTTTGCCCAGAGCCAAGCTGGGGCAAGGGGCAGCCAGCCCTGGCTTCCAAGGCTCCCGTACTGTCTG
TGTCCTTGTATAAGGAGCTTTGCTCTTGGAATTACTGAAAGTCTGTGGCCCAAGAGAGAGACACAAGTGGCCTTAAGTCTTTTTGAAGTGTTAT
TTCATCCAGGGAAATGCCTCGAGCCATAGAGCCTGAAATCATCTTTGTTGGCTCAGAAAATACCTTAGCTTCACTCAGCTGGACTGCATTGAAG
GCGAGGCTGCCCCTTGGATCAAGCAGAAAACAAGAGAAAGAAAGAACGTTCCCTTTGGGGATAGTCTGGAAAGTTGGGATTTGCAAATAAAGGC
TCTGGAAGCATTGCTGGTCCTGAAGCTTTGGAGGTGGGCAGAGAGAGCTTCAAGAAGACTAGATGCAAACCCTGGAAAGGATTAAGGCTCAACT
CTGGAGAAACAGGCCACAGCCTCTCAGAGCAGCTGTTGGCTGTAAATAGAGGTAGCAAGGCCGCTCCCACAGGCCCCTGTGAGTGTGGGCACCTGT
GCATGCAATGCTCCGACTCTGCAGAGGTGCCAAGTGCCCCTGCTGGGCCAGTCCCAGAGAGTTAGGAAGTCAAGGCCTGCAACTCCTGGTTCTT
CCTGTTTGGACCAGTTCTTGTGCCATTGGCAGGATGAGAGGCAGCAGCCAGGCGGGAGCTGTGTCTAGCAGCACCTGTAGCCCACGTGCTGCTA
ATTAGCTGGAAAACTGGCGAAGGCAGAACCTTTGCTACCAGGAATCTTGACATGTGGGGTCTGTCTTTGAGAATTTGTAAATGAACAGTCCAAT
ATTTCCTCTCGGCTCATTTTGCACATCCATTTTTGGGGAAATGTGATTTCTCTCTCTTTTTTTTTTTTTTTTTTGCCTAAGGCACAATCTCAA
GAGGTCCTGAGACCACGTACCCATGATTTTTTTCTTGCTCTGTGATACCCAATAACTCCTTCACCTAAGCCCTGTTGTTGATTTTGAAGTGCTT
CCTAGGCCAGTGATTTTAGCTTCTGCCAGCTGCTTTTGCCAGTAGATTAACGTGTTTTTATTTTTCAAACTCCGTGTTTCCTAACGTGGAGTGT
ATGGGTCTAAGAGAGCCTGCTGTCCTCCCTGCCTTCCACCTTGGAGAGGAGGCTGGACGCATCAGCAGTGGCCAGGGCAGGTCGCAAAATCTCC
CAGCCTAGAGACCACACCTGAAACGGCTGAAGCCAGCTTGCACAAGGGCTGCTGTCCCTCTGCGGCAGGCAGAGCTGGTGGGGGCAGGGGTCAC
AGAGCAGTCATAGACACCATGGACCAGGGCAGGAGAAGGGCAGATGGCACATGGGCACAACAGGGCCTTGTCCTTAGAGCACTGGGGGGTCATG
GCTGGGAGGGGCATGGCAGGGGCTGGCATCCCTGTAGAGCCAGAGGGGCCACCCAGGGCAGTGACATTCCAGATATGTTGGGCTCACCTCATCC
TTGCTGTGAGACTGGAGTTCCATGGGGACATGAAGTCAGTACACCGCAGAGCTGCTCAGCTGCTCTACCTCTCGCTGACTTTTTTGTTGCACAT
ATACATTTTCTTTCAATTAGCATTTATTTCAGCTTTTATTTAAGCTTTTTGACAGTACATGTAAAATATATGATTATAACCATTTAAAAATACC
TTATGTACCTGGTTTTTTTTTGGAAACTAGATAGAAATATATTTATCTTTTACATAAAAGAAGTGTGTAGTGGGGTGGTCCAGGGCTTTGTGGTG
GCTTAGTGGCCATCGGGGTCCCAGGCTCTTCCCACCTTTCTCTTTTGGGTCCACCTCTTGGCTCCTGGCTTCCTTCCTCTGGGGCCTGACTGTC
CAGGATGGCAGCTGGAGCTCCTGCTCTGGGCACGGTTGGCATCAGAGCCCACTGCTCCCCATCCACTCTTTAATCCAGATGCTGGTAATGTCCC
TTTCCAAGGCATAACTAAGATAAGCTGGAAGGTTCTTACGAGGCTTTGCTAGAGGCCCTGGGAGGTGGGGGGAAAGGCAAGAGGGCAGTGCCCA
CCCATAGACCGGGTCACATGACCTGGCATCAGCGCCGTGGGGTCCTTTGGGCTTCACCTCCCTCTCCCCTCTGCCCCCACGTCATCCCACCCTC
ATCCTCACCCTCACCATTCCCATCCCGTACCGTAATGTCCCTTGCAAGGCCTAACTCTGTGAGGAATGAAACCACCTCATCCTTGTTCCAATAA
CATGAGTGACCGAATTTACAAACGAGTGAATGTGGACCTCTGGAAACATTACCCAGCTTGTTTTTACTTTTCACTTTCTCTTTCTGCCCCTTTC
ATTTCCGTAGGAGCCCTTTACCTAGATGAGAAGTGTCCCCCCGCCTGGGGAATATATCAGTCAGAACAATCTTCCTGCAGACATGCACCATTAG
ACCCGAGTGACGGTGGTGCCATTTAAACCTCAGAGCAGGTAAAAGGTGGTCCTGAAACCTGTCTACCCACAGGGTGCTATGGAATCTGAATCAC
TTCTTTTTTCCTAGAGCCCTGGGGTGGGGAGCTCCCTCAAGTGTTCACATGTGTGTGGAATGAGGAACACCCATCTCCTTGGCCCTCTCCACCC
TGAAGAGTTAGTTATTAAAATAATTGGCAAGCTCTTGCAAATGTCAGTCATCCATTGTTCAGAATGGAATAGCAATAATACATCCCTGGCTGCC
CTGGGCTTGGCCAGGATTACTCACTGAAGGCCTCAGGGTTACTGGCACACACTTTCTTTTCCTAATAATCCCATCCCCTCAGCTTTCCTAAGGC
TAGAGTGAATTTCGTGTTCCTTTAGTTTACATAAGATGGTGAACTTGGCAAAAGCTATCATTAAACAGAAGCTAAGAGAAAGCCTATGTCGTGG
AATCCAGAATGGGTATTGCCATTCACTGCTGTCCACAGAAGCTGTCTTGAATTTCTTTCTGTGTCTTTTCTTTTTTTTTCTTTAAGACTGTTGT
TTACCAGACTGGGCTCTGTGGAACACAGGTGTCCTGGGAGATGGTTAATCATTACAAAATATTGGTAACAATCTAAAGATGCATACATAAGAGA
GTGGTCAAATAAACCATTTTCCATTCACATGGTGGAGTACTGTGCAGCTATACAGAAGAATGAGGAAGATCTCTCTGAATGGTTATGAAGTAAT
GTCTAGGACATAAAGTTATGTGAAAAATGCAATGCCCAAACGAGTGTCTATAGTATGCTACCCTTTATATTAGAAAGAAGAGAGGCCAGGCGTG
GTAGCTCACGCCTGTAATCCCAGCACTTTGGGAGGTGGGTGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGCAACATGGGGGAACCCCAT
CTCTACCAAAAATACAAAAAAGTTAGCCAGGCGTGGTGGTGGGCACCTGTAATCCCAACTATTTGAGAGGCTGAGGCAAGAGAATCACTTGAAC
CCAGGAGTTGGAGGCTGCAGTGAGCCGAGACTGCGCCATTGCACTCCAGTCTGGGCAGCAAGAATGAAACTCCATCTCGAAAAATAAAAAGAAA
ACCGATAGAAGAAAATACACAGATGCAAAGGAAATATAGGAAGGACGCCCAGAGACAAAATAGGTTGGTGGGTAAAGGCTAGAAAGAAGGGAAG
GATGAGACTGGGCTACAGGGATGAGAAGGGAATGACACTTCTTTGAAATATCTTTTTATTTTATTTATTTATTTTTTTGAGACAGGGTCTCGCC
CTGTCACCCAGGCTGGAGTGCAGTGGTGTGATCTTGGCTCACTGCAAGCTCCACCTCCCAGGCTCAAGTGATTCTCGTGCCTCAGCCTCCTGAG
TAGCTGGGATTACAGGTGTGTGCCACTACGCCTGGCTAATAGTAGAGACAGGGTTTCCCCAGTTTGGCCTGGCTGCTCTCAAGTGATATGCCCA
CCTTGGTCTCCCAAAGTACTGGGATTAGTGAACCGCTGCACCCAGCCTGAAATGTCTTTTTCTATAACTGACTGTTACATACTGTGATGTAGCA
ATGTTTCACATACCCTTCACATACTGCCAAAATAAATAAGAGCAACCAGGATGTAGGGAAAACAGAAAACAAAATTACAGATGAACTCCACCAT
ACCGCAGGTGAGTAACATAACCATACTGAAGGGGGCAGGAAAGAACAGAACTAACAAATAACTGTGGAAAACAGTATCTTTACTGGATATGGTA
AGAGTAAAGGCAAAAATTTCTGTACATAAAAGTTGTAGTATAGTTATTAAAAATGTTTCTCGACCATGCGTGGTGGCTCACACCTGTAATCCCA
GCACTTTGGGAGGCCAGGATGGGCGGATCACCTGAGGTCAGGAGTTAGAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATA
CAAAAATTAGCCGGGCGTGGTGGTGCACGCCTGTAATCCCAGCTATGTCGGAAGGCTGAGAATTGCTTGAACCCAGGAGGCAGAGGTTGCAATG
GGCAAAAAAAAAATGTTTCTCACAGGAGTATAGGTTAGTGATTCTGAAACTATGTATACTAAAGTTGAACAAACAAGTAAATAGATTGTAGACTA
TGAGGGCTGGATTTCTTACTGTTAGTGAAAGAGGTTACAAATGATAGGGGTCTAGAATAAACCCCGTGGTGCTGGGTTAGAATAGGAGGTGTCA
GTCTAAACTCATGATTTTAAAATTTTAGGCTCTGGTGGCTCACTCTTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGTGAATAGCTTGAGCC
CAGGAGTTAGAGATCAGCCTGGGCAATGTGGCAAAACCCCATCTCTACAAAAAATACAAAAATTAGCCAGGTGTGATGGTGTGCGCCTGTAGTC
CCAGCTACTTGGGACGCTGAGATGTGAGAATAGATCGAGTCCAGGGGTTCAAGGCTGAAGAGAGCTGTGATTGTACCACTGCACTCCAGCCTGG
GTAACAAAGGAAGACCCTGTCTCTAAATAAATAATAAATAAAATTATATATAGATGGATACAGAAATATAGATGTGTGTGTGTGTGTGTGTGTG
TGTTTATGTGTGCTTAGTATACATACTTATGTTTCCTAGCTCTGTCCTGAGTGTGTCTAGAGGCAATGGCACCCAGTAACAGTGAGCACACCCG
GTACCCAGTTCTTGGTCTCCAAACATCATTCTCCTGCAAAAGGAACCAGGTCTCCTAGGAGATGTGGTTGATTCCAGGGATGCCACAGGGGAAT
GACAGGATGACCCTGGAATATCTTGTGGTGCTAGAAAGAAAGTGCAGGGATGTGGGGGGATGATGGAGCCATGTCAAGGGAATTGAGGAGCTTG
CCTGAAGTTCCTAACGGCCAAAGCTGGAACAGTTTGAGGAACAAAATAAATTATGTTAGTATTGGATTCTAACACATAGACTAAAATAAATATC
CACGAATCCATGCTGATATAAACAGTTGAAGAAATAAGTAAACAGGGAAGAAAGGGAGTGCTTCCTTATGGTAGATTTCCAGTTAATACACACA
AAAGGCAAGAGGGAAACAGAGACTTGCCATTACATAAACACCACAGTTAAAAAATCACAGGCCAGGTGCGGTGGCTCACGCCTGTAATCCCAGC
ACTTTGGGAGGCCGAGGCAGGCGGATCACAAGGTCAGGAGATCGAAACCATCCTGGCTAACACGGTGAAACCCTGTCTCTACTAAAAATACAAA
AAATTAGCTGGGCATGGTGGCGGGCGCCTGTAGTCCCAGCTACTCTGGAGGCTGAGGCAGGAAATGGCGTGAACACAGGAGGCGGAGCTTGCA
GTCAGCCGAGATCGTGCCACTGCACTCCAGCCTAGGTGACAGAGGGAGACTCCGTCTAGGGAAAAAAAAAAAAAAAAAAAAAATAAATATATAT
ATATATATATATATATATAAAATCACAGACAAGATTTACCTGTTGATACTAAAATTAGTGGACAGAAGTTTGAGGAAAAACAAGATTTGCATAGTT
TCTATTTCCCCTAATATACTTATCAAGTAAAAAGGGAAAGAAATTAACTAATTTGACAGTGGAGATGGAAACCCCATAGAAACCAGCTTAATAA
GTGATTAAGGTAATAAGACGTAGTGACATCATGAAGCCTTTACAAAGATGCACTGAGGACAGCATCTTTTTTTTTTTTTTTTTTTTTGAGA
CAGGGTCTCACTCTGTCACCCAGGCTGGAATGCAGTGGCGCAATCACAGCTCACTGCAGCCTCGACCTCCTGGGCTCAGGTGATCCTCCTCAGC
TTCCCGGGGAGCTGGGACTACAGGTGTGTGCCACCAGGCTGGCTAATTTTTTTTTTTTTTTTTTTTTTTTGAGACGGAGTCTCGCTCTGTC
ACCCAGGCTGGAGTGCAGTGGCGGGATCTCGGCTCACTGCAAGCTCCGCCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCAAGTAGCT
GGGACTACAGGCGCCCGCCACTACGCCCGGCTAATTTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCGTTTTAGCCGGGATGGTCTCGATCT
CCTGACCTCGTGATCCGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCCGGCCATTTTTTGTATTTTTTGTAGA
ATAGGGCTTTTGTCATGTTGCCCAGGCTGGACTTGAACTCCTGAGCTCAAGTGATCTGCCTGCCTTGGCCTCTGAAAGTGCTGGGATTACAGTG

TGAGCCATCATGCCTGGCAGCATCATTTGTTTTTTTGGTGTGGTATCCTTGCCAGAAATGCATACTTGACTCCAGTATTAAGAAAGCACCAGAC
AAACCCAAATGGAGGGACATTCAACAAAATAACTGATTGGAAAAAACTCTTTAAAAGCATCAAGATCGTGTTAGACAAGGAAAAAACAAGAACT
ATTACAGACTGGAGGAGACAAAGGAAAATATACAAATGCAATGTGGGATCCTGGATGGGCTCCTGGAATAGAGAAAGGATTTTAATAGAACACT
AGGAAACTTAAATAATATGTGTAGTATCGTTAATAACATTGTATCAATATTAATTTCCTGTTCTTGATCATTATATTATGGTTACATAAGATGT
CAACTTCAGTGCAATGTGGGATCCTGTATATGCTCCTGGAATAGAGAAAGGATATTAATGGAACACTGGGGAAACTTAAATAAGGTTTGTAGTA
TAGTTAAGAACATTGTATCAATATTAATTTCCTGTTCTTGATCATTATACTATGGTTACGTAAGATGTCAACTTTAGGAGAAGCAGGGCCAGGA
GTGGAAAGGAGTTCTTTGTACTATTTTGCAACTTTTCTCTCCATCTAAAATTAGTTAGAATAACGCCCTTCATGGGAAATAAAGGCAGAGCACA
ACACTGTAAATATTACAATCCCAAATGTTTAATATATGCGTATATAGAAAAAAGACTGGGAGGAATTGCAGGAATGTGGTGACATTGGGTATCG
CTGAATGGTGGAAATTATGGTAAGGTTTGCTTTCGTTTTCATATTCATCTGTACTTTCTAAGTTTTCTACTCATTTGATGGTTTAATATGGTGG
ATCCTTGGAAATAACGGTGAATGAGACAAGATGAAGTTTATCTCTCATGGAGCTTATCTTCTAATGGGGGGAAATGGAAAATGAATACATGAAT
TAAAATCTTTGTGCAGAAAATTAAGCTGATGTGATAGATGGTCAGAGGGGGCCTCTCTGAGAAGGTGACATTTAAGGGGAGATGTGAATAACAA
GGAAGAGAACATGGCAGGGTAGGGTAGGGAGACAGAGCAGAGGGAACAGTCTGTGCAGAGGCTGGGAATAGGGCCAGGCTCAGCATGTTCCAGA
ACCTTGCAGAAGCCAGGGTGGCTCTGGCTACAGCGGACAATGGGGAAGGGACCTGAGATGAGTTCAGAGGGAAAGTGAGGGGCTGAGCCTGGGA
CTTGATATGGCCTCGGGCACCCCTGGAGGGAACTGAACACATGAGAATCATGATCAAATGTAGGTGGTTTTTTTTTGTTTTGTTTTGTTTTTTT
TAACATTTTCTATTTTATTTTATTTTTTAAATATATAGAGACGGGGTCTTTCTGTGTTGCCCAGGCTGGTCCCAAACTCCTGGACTCAAGCAGT
CCTCCCACCTCAGCTTTCCAAAGTGCTGGAATTACAGGCATGAGCCACCACGCACAGCCCTAATGTAGGTTTAACGGAATCCTCCAGCATTCGG
GTGGAGCACAGGCTGCAGAAGGCTGGCAGCCTCCAGGGACGTGAGTGAGAGAGGATGGTGAATTTGGTTACTGTGGAAGGAGGGGGGAAGGGGT
TGGATTCAGACTCTGTTGTGAAAGAGAGGAGCTAGGAATTGGATGAAGGATGTGATAGAGAGAGAGAGCGGGGGGAGGAGGAAAGAGAGAGGAG
AGAGAGATATATGTTGGTCAAGGGTGATGTCTGCATTGGATTGGAGTGAGTGAGTGGATGGTGGACTCATTTACCCAGATGGGGAATGCGGGAG
CGGCAGGCTTAGTGGAGAGAGCAAAAGTTCTGTTTTGGTTTGGAATAAGCATGCTTATTATGTTAATGGTCAGAAAAGAATGAATAAAAAAAAA
ATAATTAGCTCGCCTTTCCTGCCCCTGGAATCCTTGGCCTAAGTTGCTCTCCCAGGTTCCTTTGCTGCAGGTCAGGTGCCCTGGGGGATATGCC
TTGGAGTGGCTGTCATGGTTCCAAGCTGACGCAACCTCTTGCCTCATCCTCCTGAGATTGCTGACCTGCTCTGCCTCCAGATCAGCCTGTTCTT
TTTTTTTTCCATTTATTTATTTTAAGAGACAGGGTCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGTGTAATCACGGCTCACTGCAGCCTTGA
GCTCCTGGGCTCAATCAGTCCTCCCATCTCAGCCTCCTGAGTAGCTGGGACTACATGGCTGGCTAATTTTAATTTTTTTTTTAAATTATACTTT
AAGTTTTAGGGTACATGTGCACAACGTGCAGGTTAGTTACATATGTATACATATGCCATCTTGGTGTCCTGCACCCATTAACTCGTCATTTAAC
ATTAGGTATATCTCCCAATGCTATCCTTCCCCCGTCCCCCCACCCCACAACAGGCCCCAGTGTGTGATGTTCCCGTTCCTGTGTCCATGTGTTC
TCATTGTTCAGTTCCCACCTATGAGTGAGAACATGTGGTGTTTGGTTTTTTGTCCTTGCGATAGTTTGCTGAGAATGATGGTTTCCGGCTTCAT
CCATGTCCCTACAAAGGACATGAACTCGTCATTTTTTATGGCTGCATAGTGTTCCATGGTGTGTATGTGCCACATTTTCTTAATCCAGTCTATC
ATTGTTGGACATTTGGCTTGGTTCCAAGTCTTTGCTATTGTGAATAATGCTGCAATAAACATACATGTGCATGTGTCTTTATAGCAGCATGATT
TATAATCCTTTGGGTATATATCCAGTAATGGGATTGCTGGGTCAAATGGTATTTCTAGTTCTAGATCCCTGAGGAATCGCCACACTGACTACCA
CAGCGGTTGAACTTGTTTACAGTCCCACCAACAGTGTAAAAGTGTTCCTATTTCTCCACATCCTCTCCAGCACCTGTTGTTTCCTGACTTTTTA
ATGATCACCATTCTAACTGGTGTGAGATGGTATCTCATTGTGGTTTTGATTTGCATCTCTCTGATGGCCAGTGATGATGAGCATTTTTTTCATG
TGTCTTTTGGCTGCATAAATGTCTTCTTTCGAGAAGTGTCTATTATATCCTTTGCCCACTTTTTGATGGGGTTGTTTGTTTTTTTTCTTGTAAA
TTTGTTTGAGTTCATTGTAGATTCTGGATATTAGCCCTTTGTCAGATAAGTAGATTGCAAAAATTTTCTCCCATTCTGTAGGTTGTCTGTTCAC
TCTGATGGTAGTTTCTTTTGCTGTGCAGAAGCTCTTTAGTTTAATGAGATCCCGTTTGTCAATTTTGGCTTTGGTTGCCATTGCTTTTGGTGTT
TTAGACATGAAGTCCTTGCCCATGCCTATGTCCTGAATGGTATTGCCTAGGTTTTCTTCTAGTGTTTTTATGGTTTTAGGTCTAACATTTAAGT
CTTTAATCCATCTTGAATTAATTTTTGTATAAGGTGTAAGGAAGGGATCCAGTTTCAGCTTTCTACATATGGCTAGCCAGTTTTCCCAGCACCA
TTTATTAAATAGGGAATCCTTTCCCCATTTCCTGTTTTTATCAGGTTTGTCAAAGATCAGATGGTTATAGATATGCGGCAATATTTCTGAGGGC
TCTGCTCTGTTCCGTTGGTCTATATCTCTGTTTTGGTACCAGTACCATGCTG

HUMAN SEQUENCE - mRNA
GCCAAGTTATGGGTGCGTTCTGCCAGCGTCCTAGCAGTGATAAAGAACAGGAAAAAGAGAAAAAATCAGTGATCTGTGTCGAGGGCAATATTGC
AGGTGGGAAGACGACATGCCTGGAATTCTTCTCCAACGCGACACGACGTCGAGGTGTTAACGGAGCCTGTGTCCAAGTGGAGAAATGTCCGTGGC
CACAATCCTCTGGGCCTGATGTACCACGATGCCTCTCGCTGGGGTCTTACGCTACAGACTTATGTGCAGCTCACCATGCTGGACAGGCATACTC
GTCCTCAGGTGTCATCTGTACGGTTGATGGAGAGGTCGATTCACAGCGCAAGATACATTTTTGTAGAAAACCTGTATAGAAGTGGGAAGATGCC
AGAAGTGGACTATGTAGTTCTGTCGGAATGGTTTGACTGGATCTTGAGGAACATGGACGTGTCTGTTGATTTGATAGTTTACCTTCGGACCAAT
CCTGAGACTTGTTACCAGAGGTTAAAGAAGAGATGCAGGGAAGAGGAGAAGGTCATTCCGCTGGAATACCTGGAAGCAATTCACCATCTCCATG
AGGAGTGGCTCATCAAAGGCAGCCTTTTCCCCATGGCAGCCCCTGTTCTGGTGATTGAGGCTGACCACCACATGGAGAGGATGTTAGAACTCTT
TGAACAAAATCGGGATCGAATATTAACTCCAGAGAATCGGAAGCATTGCCCATAGGAGGCAAAAGGTCTATGGCTCATGTCTGAAAAATGCCTG
CTGCTGCCAAGTTAGCTATTGGGAGCAATCTGGAAAAACTTGCTCCCAGGAGGGCTTTGTGTCTGGCCAGCTTGATTTTCCTAATGGTCTCATC
TCCTTTGCTAGTGTCTTTGTCATGCGTCTCTGGCCCTCGTGGGTAAATGACAAACGGGACCAATGGGTTTGCCAAGCCCTTTGCTGTTCGCAGC
CCTCACATTCCCCCGGTGCCTCTCCCATGGCTTTGTGCTGCTGAGTCGCTCTCATGAAGCCCTTAGGGGAGAGCACCTGTTGTGTGCCTGACAC
CACGCTGGAGCTGTGTACCAATCGTCTCAGCCTTCATTAGGAGGCCGAGGTAGGAGTCTTATATCCCAGGTGAGGAATTTGAAGCTCAGAAAGG
TTGAGGGGCTCCCCAGAGGTCACACAGCCTGTGTGCAGTGGAGCTGGCACCATTCAGACTTTCAGCCGACTCAGCAACTTTCCCTTGCCCTGGG
CTGCCTCCTCCTGAGAGCTGTTCCCCACCGCCCTGCCTCTTCCGGTTGGAGGCTCTCATGTCTCTTTGGGGAGAGCTGGCAGTGTGCGGAGCTG
ATAACATTTTCCCAATATTGAGCAGTTCCCAAGGACAGTCAGCATTTCTAGACTTCCACACAAAATTATGCTGCATTTGGCTGGAGCCCGGTGTTC
AGTGGTTTCCCTGCCCGAGGTCGCTGCAGCCCCATCTACCACATCTTCATGTGGACATTGAGATTCACATGCTGGCTCCTGAAGGGTGCTCAGT
CTCCTTGGTGATTAAGGTCCTGCTTGAACTGCTGCCAACTCCATGTCAGGGAAGTCGCTTTTGGTGCCTGGCTGGTTTGCCCAGAGCCAAGCTG
GGGCAAGGGGCAGCCAGCCCTGGCTTCCAAGGCTCCCGTACTGTCTGTGTCCTTGTATAAGGAGCTTTGCTCTTGGAATTACTGAAAGTCTGTG
GCCCTAAGAGAGAGACACAAGTGGCCTTAAGTCTTTTTGAAGTGTTATTTCATCCAGGGAAATGCCTCGAGCCATAGAGCCTGAAATCATCTTT
GTTGGCTCAGAAAATACCTTAGCTTCACTCAGCTGGACTGCATTGAAGGCGAGGCTGCCCCTTGGATCAAGCAGAAAACAAGAGAAAGAAAGAA
CGTTCCCTTTGGGGATAGTCTGGAAAGTTGGGATTTGCAAATAAAGGCTCTGGAAGCATTAAAAAAAAAAAAAAAAAAAA

HUMAN SEQUENCE - CODING
ATGGGTGCGTTCTGCCAGCGTCCTAGCAGTGATAAAGAACAGGAAAAAGAGAAAAAATCAGTGATCTGTGTCGAGGGCAATATTGCAGGTGGGA
AGACGACATGCCTGGAATTCTTCTCCAACGCGACAGACGTCGAGGTGTTAACGGAGCCTGTGTCCAAGTGGAGAAATGTCCGTGGCCACAATCC
TCTGGGCCTGATGTACCACGATGCCTCTCGCTGGGGTCTTACGCTACAGACTTATGTGCAGCTCACCATGCTGGACAGGCATACTCGTCCTCAG
GTGTCATCTGTACGGTTGATGGAGAGGTCGATTCACAGCGCAAGATACATTTTTGTAGAAAACCTGTATAGAAGTGGGAAGATGCCAGAAGTGG
ACTATGTAGTTCTGTCGGAATGGTTTGACTGGATCTTGAGGAACATGGACGTGTCTGTTGATTTGATAGTTTACCTTCGGACCAATCCTGAGAC
TTGTTACCAGAGGTTAAAGAAGAGATGCAGGGAAGAGGAGAAGGTCATTCCGCTGGAATACCTGGAAGCAATTCACCATCTCCATGAGGAGTGG
CTCATCAAAGGCAGCCTTTTCCCCATGGCAGCCCCTGTTCTGGTGATTGAGGCTGACCACCACATGGAGAGGATGTTAGAACTCTTTGAACAAA
ATCGGGATCGAATATTAACTCCAGAGAATCGGAAGCATTGCCCATAG

TABLE 35

MOUSE NOMENCLATURE
ICSGNM Nupr1
Celera mCG22384

HUMAN NOMENCLATURE
HGNC N/A
Celera hCG1745228

MOUSE SEQUENCE - GENOMIC

TTGCAGATCTAGACATTGACATCTGGTCTTCTCAAAGCTAAGGGCAGGCATGCTCTGGCCTTGAACTCCATGCTCAGCCCTAGTCCTTCCTTTC
TTCTTCTTCTTCTGTTAAATGGGGTTTGATTTCTTTGTCTGATAAATGAGGCTGGGAGGGAGGGAGATGATGACTCAGCAGTTCAGAGCTCT
TACTCTTTCAGAGGACCCAGGTTTGATTCCAGCACCCACCTGGTGGTTCACAATTGCCCACAATTCCAGGGTGCACATGATACAGACAAAATTC
AAGCAAAATAGTCACACACACACATAAAATACACTAAATAAATCTTTTCTGAAAAGACTAAAAGGGAATTGTGATTGCTGGTCTCTTGGGCTAC
AGCCAGGAGCTGCATGTTTATTCTGTATTCTTCTAGTTTGTTGCTCTATTTGCCCACTATTTTTTTAGTTACCAGGAAAAATGTATGATAGCTA
TATTTTGCTGAAATATGTATAACGCATAGGCACTTGTTCTTAAATTTCATGCAAATAGTATTACCTGGTTGGTTGGTTGATTTGAGAAAGCCTT
GATAATCATGTAGCCCACTCTGGCCTGGAACTTGCTATGTAGCTGTTGTGTCTGTCATTGTCCCAGCCAAGCAACTGCAGTCTTGAGGAGTTCA
ACTGTACCCCCTTGCAAGAAAAAAAAAAGTATCCTAAGCTGGGCTTTCTTGACTCTGTACACCTCCTCATGAAGGAGTGAGGAGGCTTGTGAGA
CCCTCACCTGTTCCTCCAGGTAATAAAACCCCAGTCCCTGTTGTTTGCAAGTCTGCCTTAATTGCACATGACCTGGGAGGAGGCTAGAGTATAT
AGGCCAGGGGAGCACAGAGGAAGGGGAGCCCATCCTTGTGGGATGGGTAGGAGAAGGAGCATCTATGCCCAGGTAGGTAACACCCCTTACCTCT
CTGCTCTGGAAGGAAGCCCAAGAAATGCATTGTTTCCCTAGGGTGAGCTTTGGCAGAACCACGCCTTCCTTTGATGGGGGACCTTAAAAGAAGA
AGTAGACTTTGTGTTTATGTCTCCAGGGAAGGAATTTTAACCAAAGTAGCTGGGATAAGCTTGAACTCAGGTGTGAACTACCACACCCAGTTTA
TGAAGTTCTGGAGATAGAACCAAGAGCTTCAGGTATGCGGGGCAGGAGCTCAGCCAAGTAAACTGCATCCACAGCCCTCGCCTCTTTACTTGCT
GTGAGAAACTCTGCACGTAGAACAGAGTATCAGGGAGGTTTGTACAATTCGGGATCTCACCAGGATCCCCTAAGCACGTGTTAACAGCAGCATC
CAGTCTCAGAACCAAGAGAAATTAATTCCCAGTGCAGCCCTGGGTTTAAGGGTTTTATGGACCAGGCACAAGCTGTAATTACTGGGCTGTGCTA
GGTATTCCTGGCAACCACCTGGAAAGTTATAAAGGTGTAATGAGTGATAAATAGCAATCTCCCTCCCCCCAAACAAAACAAAATCCCAGAATGG
ACTACCTGGAGGCCACAGGATGTGGAAACTTAACTCTTCATTTCCCAATGAGTCACTTTTGAATTCCTACTGATCTGAGTGGAGTTTAAAATTT
TTCCACAAATCCTTTTCTCAGGTTTCTATTCTTTCACCCAGCACCTACTCCTCTCTCCCTTCCCCTAGTGTTTACATTTCCTTTCTTTTATTCC
TGCAAGTTCCCAGCCAGAAACCCTTACCCTTACTCCATCATCACAGAGTCTCCTAGGATCTTGGAGGTCCTCTGTGAGGTCTGCCTCTTCAGAG
CAGAACATCTAAAAGTTGGACACACAATCCTGAGGCACCTTGTCAGAGTTTGTGTGTTTTGGGTTGTCATTTGCTGAGCTGGGTGTTCAAGACA
TGGAGATTAAGCAAATTGCCTGCCCTAGTGAATAACAATACTATCTTCAAGGCGCTGTGCTAATAAGCTCCCCTCACCCCCCAGTTTTTTCTTC
TTAAGACGGAGTCTTAGCTGGGTGTAACGGCCTGTAATCCTAGCACAGAGGCGGTAGCAGAATCAGGAGTCCTAGATCGGCCTACGATACATAG
TAACCCGAGTCTTAAAAGAAAAGAAAGCATGCTGAGTATGGTGGTGTATACCTTTAGTCCCAGCACCCCAGCACTATGGAAGTAGAAACAGTCA
GATCTCTGTGAGTTTGAGGCCAGCCTGATCTATATAGTGGGTTTCAAGATAGTAAGGGATATGTAGAGAGAACTTGTTTCATATACATACCCAC
AAGCAAAGCCAGGCTAGGTGGTGACTGCCTTAAATGCCCCAGCACTCAGTGTTAGCTCAGGCTTAATGAGATGATGTGAAAATAAAAAGGGAGA
GAAGGATGAGGAATGGGAGCTTCCCTTGCCAAGGAGACGCAGATCTGTTCCCTGCAGTCTCATGGTAAATAAAACTGAGGTTTGGTTTGGCTTT
TCGAGACAGGGTTTCTCTGTGTAGCCCTGGCTGTCCTGGAACTCACTTTGTAGACCAGGCTGTCCTCAAACTCAGAAATCTGCCTGCCTCTGCC
TCCCGAGTGCTGGGATTAAAGGCGTGCGCCACCACGCCCGGCACAACTAAGCTTAAGAGAGGTGGACTTCCTTGTCAGGCAGCTGTACTCATCA
GAAGCTCAGGCCAGAGTTGCTCAGATCACCTGAGGCTCTTTGTTTCATGGACTCCTCACTCCAGGAAGCAGAGGATCTCTGTGACTTTAAAGCA
GGTGTGAGACAAACCAGGAGCTATATTGTTATACATTGTTATTAAGTCTCCATTCCTTACAAGAATAAGTTTCTCTTTCCTAAACCTAAAGTAT
CCTGCAAACTGTTTTCAATCTACCCTGAACCGGGCCCACTCTTTTGTCTTGATAAACCCCTGAGCCTGTGATAAGTGATCACCCTTTTGCTTTA
TGAAAGTGTGTCTTCCCAGGTACCTGATGGCTCCCCTTTGACATAATGTGTTCTTGCTCTTATTTTTATTGCCTCCTTTCTAGCAGCCAGTAAC
CACAGCTGTTTCCTATTACACTTATCTACCCCAAGGCAGCCTTGAGCCCTGAGTGCCCCCATTCTCTGTCCAGTGCTAACAGCCATTATCTTTA
CCGCTGTCTTTTCTTTTCCTTTTCTTTTGTTGCCCCCCCCCCATTTTGTTTTGCTGGCCTTAAATTCAGAGACCTGCCTGTCTCTGCCTCTCAT
TATAGGCATGAGCCACCACTGCCCAGCATGGACAGCTGTGTCTATCAACCCTAACCCATTCCTCATAAAAGGGTTCCCAAAAGCCAGTGAGGGG
CTGTTCTCTGAAACCCCAACTTAGGGTAAGGCAGCCATCTGGCCAGTCCCTTGTGCACTTCTCAATAAAGCTCTCTTAATCAGACAGTTGTGGA
AATGGTTTTTTTTCTCAGATCTAACACCAGTTGGTTCTACACAGTGAATTCCGTGCCAGCCAGGGCTACAAAGTGAGACTTTGTCTCAAAGCAAA
AGAAAGAGAAAGAAAAAATAATGTGGAGAGGAGGAGACAAGATCTTGCTGTGTGTTCTAGGCCAGCCTCAAACTTGTGATCCCCTTCTTCAGCC
TTCCAAACAGCTGAGATCACAGGCATGCACCACAGCACCAAACTAAGAGTTCTGCCCCTTGGAAGTTAGAGGGAGGGAGTATATATGCATGTGC
ATATGCATGTGTATGTTCAAGAGCGCCTTGGGGGCAGAGGGTTGGGGAAGAGGCACACAAGTATTTCACAGAGCTCGTATATAGGTTAGAAGAC
AATCTATGGGAATTGGTTTTCTCCTTCTGCCACGTGGGTCTTGGTAACTGACCTCAGATCCTCAGGGCTGACAGCAAGTGTTTTGATGTGATGA
GCCATCTCATGAGCCCCAAGAATTATCCTTTTAAAGCTCCCAGAGACCCCACTGAAATCTACGAATGGGGAAACAAAGACACAGAGAGGTTAAA
TAACTTGTTTGATGACACACAGCCAACAAAGGATGGAACTAAAACCTTGGCTCCAGGCAGCCAGATTCCAGAACCTTCTCCTTTAACCACTGTC
TAATCAATAATAGTTTGATTCTAATAAAGACAAATTTCTAAAAAGTGAAAAAGATACTTTATTTTGTTTGTTTTCCTCTGTGTAGCCCTGGCTG
TCCTGGAACTGGTTTTGTAGAGCAGGCTGGGCTTGAACTTTGAGATCTACCTGCCTCTGCCTCCAGAATGCTGGGGTTACTGGCGTATATCATG
CCTGGTAAGATACCTTGTTAATGCTAAGTGGATGCTGTGCAGATAGTAAACTAGAGCAAGGTGGCGCAGGACTACAGCTGCTGGTGTGTGTGGA
GGTTTTGTGTTTGGCCTGGGTTTGTCTGTTATTTGTTTTTGATAAGGGTTCATTATGTGGCCCAGGCTGGTCTTAAACTTGAGATCCTCCCGCT
TCAACCTCCTGAGTGCTTGGGCTACAGGCATGTGTTACCATGGTTGGCATATATGTGGTACTTTGAACAGGGGTGTGTACTGCTACATTGAGCA
TCTATCTCCCTACGTCATAGAGCTTTCAAAAGGTATATGATGTTCTCTGCAGGCTCTGTACAAGGCCTGGTCCAGGGAAGACTCAAATGCCTGG
GAAGGAAGGGAGTGCAGAGGGAGAGGCCTGGCAGGTGACTCAGTGCAAACCCTTGTCAGTGTTTGCCCAGCTGGGGTCTGTGTGTAGATCATGG
GTCCTGTGACTTTGAAACAGATACCCCTGGAGCCTCTTTGAGGAATAAGGAAATAACATGATGTCACATGTTGGCTCTGGGCTAAGCCCTGTCA
CACACATAGAGGTGTTCTCATTGTCCTGGAATTACACAGGAACAAACTGAAACTTGGAAGTTGACAGCATGGTGTGCCATGATGAAGCAGGGAG
TTCTGTGTGCCTTTAGGAAGGAAAATAAAGGTAGGACAGTTGTGTGTCCATGTGTCCCACATCCTGACTGTCCTGCTGTCTTCCTGGACATTCA
GGACACTAGTAAGCTTTTTTACAGTCTGTTTTCCTATAACCTGATGTCAATCTATTTCAAATGAGAGGAAATATTTTCTGTCATGATGATAAAG
GACAGGTAACAAGGACATCATTTTCGGTACCTTTGTCTTGATACGTTAGCCCTGGGTTTTGTTTCTTTGCTTATTTTAACTTTTTTTTTTAAA
TATTGATTTGAGGTCAGGGTCTCCCTGGGTAACCCAGGCTGGCCTTGTTAATCTTAGTATCACATTAAAGAACTTCACAAATCAGACATAATCC
AGCAAAGCAATTTCTTTTTATAGAGTCGTGACCCAAACCAGGCTAGCAAGCACACCGGAGCAGGAAGTTCACTTAATTGTTATTCTAACGCAAG
TATTGACTGAGTCACCTCTCATTGGTGCAGCTTGGCCTCATAATCTGAAAAGACTGGCTAATTTATAATCACACACAAAGGAATTGAAAGAACA
GAGGGCTGTGTGTCATCACATTCTGGGACTTAGTGAGGTTTTGTATAATAAGAGTTTCAGTTGGGCATTTTACATTGTGGGGAGATTTATGGCA
CACTGGCTCTTGGTGGGCTAACCACATTAGGTGGAAAAAAAAAGATTCTCGGAGCCTTGGCTTTGAGATCTTGTGGTGGTGGGATTTCAAGCCG
GCACCACCACACCCAGAGCTTTGTTTCAAGGTTTCTTCCCTTGTGTTTATTTCCACCTTGGGATTAGACCCAGAGCCTCAAACCTGCTACTCTC

TACTCTCTGTCCCTAGCCTTCTTCTAACTTTCTGCCTTGGGACAGAGTCTCACCAGGTTTCCCAGGCTAGACTTCAACTCATTTTGTAGCCCAG
TCAGGCTTTAAGTTTGCCTTGTTTCCTCAGTAACTGAGATCTCTCATTCTCAACACCAGAGTCAGGCTCCATAATGTTATCCTCTCTGGAGTCT
CCTCATAAGGTTTCCAATTAGCCCAGTACTGCTCTGATTCAAGCAACTTGCTGGTTTTACTCTCATATCCTAGGTTTACATTTTGATTTACCCT
ATCTGTCTGTCTGTCTGCCTACTTACCATATGTTTTGTGTGGGACTGTGATGTAAGCACTGCCTCTTGTGGGCATCTGTGTGTTTTGTACACA
TGTGTGTGTGTGTGTGTGTNNNNNNNNNNNNNNNNNNNNNACACGTGTGCACCTGTGTGTATGCTCGTGTGTATACCTGTATGTGTGTGTGCCTG
AGTGTGTACACCTGTGTGTGTGCATGCCTCTGTGTGTGTGCCTCTGTATGTGTGTGTATGTCATTAGTATTCTGTCTAAGCTCCACCCCACAGT
TACCTGGCAACAGCCAGGTAGGCCTGACTCACTATAAAAGGGGCTGCTTGCCCCCTCCTCCTTCTCTTGCTCTTCCCTTCTTGCTCCTGCTGTC
TTTCCTCCCTACCCCTCCAGTCCCTTCTCCCCTCTCTTTCCATGTGCTCATGGCCAGCCTCTACTCCTGTTCTCCTCTACTTCTCTCTCTCTAC
CTTTCTCTGCCTCTACTACCCTCTTAACCCCACCCCCACCCCATGCCCTGAATAAACTCTATTCTATACTATACCATCCTGTGGCTGGTTCCTC
AGGGGGAAGTGCCTTAGCATGAGCCCACGGAGGCACCACTTCCCCCATACCTCACCACACCTCCATAGAACATATCTCCCTTTTCTTTATTTTT
TGTTTTTGTTTTTATAAACATATCACACGTGGTAGCAGGAGGATGCTTTATTCCCTGAAACAGGGTCTGTCACTGAACTTGGAGCTAGGCAGCA
GCTAATAAGCAGTCCTTCTGTCTGCTTCACTAGTGTCACAGTGCTGGGGGCAGAGGTGTGCACATGGCCGTGCCTGGCTTTTAACCTGAGTGCT
GGGATCTTAGCGCGGGCCTTCTTGTGCAGCAGTGCTCTCACCCACAGGCCATCTCTCCAGGCCCTGGGCCGGAGCTTTAAAGCAGCGCTGACAC
AAGAATCTGGAAAACAGATGCTTGGTTTTGTTTATGTTCAGGGGAGAAAGCCGCAAACAGAAACACAGCCTCTTCTTAACCAGGGCAACCAGGG
CCTGCAGCAGGCCTGGGGTCACATCCGAGCCTTGTGCTGACACGGAGGGAGGTTCACAGCCTGTGGACGTGGGCAGAGGACTTGATGTCTGGCC
AGGGTTGAGAGGGTTTGGTTTTTCTGGAATCCAGTTTTGTTTTGTTTTTAGATGTGGAATGTTTTGTCTAACTCCCTGCCTGGAGACAGCAATG
CAGATAGAATTGGTGTGGGCACCCTTTCTGGGCTAACATGACTCACAGGGTTCATATCCTTCCATCAAGAGTAGGAAATTCCCCTTTCCTCCGA
GCTCAGCAGCTCTGTGGAAGAGGAGGTGGAAAGATTGTAAGAGCCGGGGAGTGTGGATACCACGAAGGAAACAGTGTCTTCCAGACACAACAGG
ACTGATTGATACACATATGAACTCAACACGCTGGCAGCCTGCCTGCGCCTGCCCAGGTTCAAGCCACATGGGGTCACAGCACTGAGAGGGGAAA
GTGGACATGGACTCCCACCCCTAACCAAATTGACACCTGCTTACAAAGGAAAACTTAGTTTCCTCCAATAGAGTCTCACTGGCTGCATTAACCC
CAGGTAAGGGTCAGCCCCATGGCCAGCAGGAGATGCCAACACAACAGTACTTTTATCGGCTTTCTTTTCTCACGGTGTTTTCATCAGACATGTT
TTGGTCTTATTGGTCCTTTGTTTACATATTATAGTTTCTGATTTTGTGTTTTTATGGATTTGTGTGTGTGTGTTTTGTTAGGACTCAACCCC
TGGACAAATGGCTAACTGAAGTGCCTATTAACATATCAGGGCAGATGCTGTCAGCCTGCCTCTCTCAGCATTGCCAGCACCTATTACGGAGCTG
TCCTGGCTGGTATACCCCACATGCTACCCTAAACTCTCCCTTCCCACAGTTTCTCTGATTCCTAAATAAGATGACTATGCTAGTATCTTTGCCT
TTTTATTACCTCTTGGTCTCTGGGTTCTCAGGTTTTTTTGTTTTTTTGTTTGTTTTTTTGCCTCTTGGTCCAAGGTTCCTCTG
TCGACCCTCCTCTCTTCTCTTCCCCCTGTCTCTTTCTCTCTCTGTCTCCCACAGGCCCTGTTAAGTCTGCTGGCCATGTTCACTCTGGACTCTT
GCAGATAGCTCTGCTTGTGCTCTCCCTCATGTCTACACTAAACCTTCTCCACCATACCCAGGAGCCGCATGGCCTCTGCTTTTTAATTTTTTCA
TTCATATTTCTGACGACGACGACGGTGACAATGATGATTCACCTGTTCGTTTCCTATAGAGTAAAATTTGGGGGCATGGGGAGGGTCTGGGAGG
AGTTGGAGAAAAGAAACCTTGATCAGAATACATTGTATGAAAACTTTTTTAAAATAAAAAAAAAGTAGAAAATTTCATTTCACATGCTTTTTA
TTTGAACTTAAAATTCATACTAATTCTTATCAAACAACCCAAGGGAAGCTAGTATGGACTGAAAAAGCTTACTATTAGTTCACACTTGATTCAT
ACTGGCTGGGTGTGGTGATGCACACCTTTAAACCTGGCACTCAGGAGTCAAAGGCAGGTTGATCTCTGAGTTCAACACTAGACTCAAATCTGGC
CTACAGAGCAAGTTCTTAGCCAGCCACAGCTAAAACAGTGAGACTGCCTAAAAAACAAGGCAGGGGGTATCAAAGCACAAATACCTGTTTATTT
CATTCTGCCCTCAATATATTATTTAAATTTTAGAAGTCACACGTATTTATTGTGTGTGTACATGGATAGGAATGTGAGGGTCAGAGGACAATTT
ATGGGACATTTTTCTCTCCCATACTGTATGGGTCCTGGAAACCGATAAACTCAGGTTGTCAGGCTTGGTGGCAAGTACTTTACCCATTGAGTCA
TCTTGCCAACCCACAATATTTTATTTTAAATTCCTTTTCTCCACTCTTTTTTTTTTTGAGGGGGGAGGGTCAAGGCAAGGGCACTGTATGGGA
ACCCATGGGAAGTTGTGACTAATCCTTACACTGTTCCCGCTTGTGAAGGTTTTCCAGGCCTCATGAGTCTGCAACCTCTCACCAACAGAGCCAG
ATAGAGTTATCCTCTGTTAAAGGGGGAACCTGAAGCAATCAGAGAGGGAAAGTGACGTGTCCAAGGTCACACAGCAGGAAACACTGGATCTGAG
CTGACTTGTGATCCCAGCATTTAGGATGAGGAGGCCAGAGAATTGCAAGTTCAAGGGCTAACCTGGGCTCCATAGAAGGATTCTGTCAGAAAGA
AGGGTAGAGGGAGGTGGATCAGGAATCAGAGTGTGGAATCCAGGGTATTTGCTGTCTCTATCAGCTAGCTATCCTCCATCTTGCATGAGGAAGA
AGTCCCTGGGGACTCTGTTGAAGGGGACTTTTCACAAAAATAGAAGCCTTGGGTGTGACAGGAACTGCTGACCAAGCAAGAAGTGGGTCAGTGT
CCCTCCTCCCTCCCTTTTCAGTATGTATGCTGCCACTACCTCCTGAATCTGAACCAGACTACAGTGTGTGTGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTCTGTCTGTCTGTCTGTCTGTCTAACTATGACCCAGGCCCAGGAGGGGCTTGTGGCAGAGGCTGAAATGATAGGAAGGACTG
GCCTATCTGAGGCCCTCTGCTCTCCCTGGCCAATATCCCAAAGACTGTGCCCAGATCCTGTCTGCTTCCTCCGCCCCTGAGGCGAGAGCTTTCC
ACGTGGAAAAACACAGCTGTGCTTGGGTGAGTCCTGTGAGGGAGGAGGGAGGGGAGGGTGCTCCTCTCTGCTCAGGACTGCTGTCTATGGGCCC
AGTTCTGGGAAAGGGCCAGATTGCATCAGACAGGGCTTGGAGGGCGGGGGCCAACCCCGTGGTTTAGGGAGGAGACAGCGTTATAAGTAGGGTG
AGAAACTGGGAGAGGGCAGACATTCAGACAAGGAGACACAGGCAAGACTTTGGAGAGAGCAGACTAGGCATAATGGCCACCTTGCCACCAACAG
CCAACCCTTCCCAGCAACCTCTAAACCTAGAGGATGAAGATGGAATCCTGGATGAATATGATCAGTACAGCCTGGCCCATCCCTGTGTCGGTAA
GGTTTTCGTGGTAGCTCCTTGGTCAGCCCATCTGCTTCTCACTGGGTACCCCGGTTTACCTTTCCTAGCTAATCTATTCCCAACTCCCAAGTAA
CCCCTTCTAGTCTCATCTACTGAGTTCTGTCTCCCTTAGCCCCAAGAACTCACAAGTGAGCATCTCTCATTCTATACTTGAGTAAACAGCAAGG
ATAGAGTGCTTCAGACGTGAAGACGTGACCGCCCCACTCTGGCCATTTATATGCCTGTCCTAACCTCACACACCTCCTCTACCTCCTGCTCCAC
CAGTCGGGGGAGGTCGGAAAGGTCGGACCAAGAGAGAAGCTGCTGCCAATACCAACCGCCCTAGCCCTGGCGGGCATGAGAGGAAGCTGCTGAC
CAAGTTCCAGAACTCTGAAAGGAAAAAAGCCTGGCGCTGAGACGGAGCTGGAGGTGAGTCGGGAGAGCCGGGCCTAAGTGTGCAGAGCGGGAAG
CGGGGAACCAAGAGCTGGTCCTGGTGAGATGGCGCTGCAGGTAGAGGCACTTGCAGGCAAGCAGGACAACCTGTGCTTGATCTCTGGGACACGT
GGGATGAAACCACGTGATGAAAGGGGAGAGAACCAATTGCAAGCTGTGTTCCCGAGGGAGCCCTGCAGATAGATGTCCAGGCAGGGAAGTGATA
AGAATGAAAACCCCATTCAGACTGACTTCCATCAGCTTGGATCAGATTTCAGGGCATCTAACGCCAGGCGGTTCACTGTCAGCATATTTAAAAC
ACAGTACAATTTGGGAAGAGGTTTCTAGGCAACAGTCAGTCCATCAGTTCAGTTCCAGGAGCACAATAAAGCTTGAGGTCATCAGGCAGATGTG
ACATCTTTCCTAAGAGTGGGTAATGGTCTAGGGAGGGGAGAGTCTGGGATTATCATTCTGGAGAACTTGAGTGAGGTCGGCTTCTATAGCAAAA
GCTGGGGGAGGTCTGACTCCACACAGAGCCAAAAGCTCACCGGGTTGTTAACAAAATCCACTCTCAGATTTCTGAGTGGAATGCAGGTATTTGA
CTTTATCTCCTGCATTGTGGAGACACACGGCATGATTAAAACTTCTGGTTCTTAGTGCTTCTCTTGAGTACAAGGACTTCTGTACCTCCAATGT
CCACCGACTTCCATATGCTCAAAGTAGCACATGAGAATACGCATGTGCACACATGCATGCAAACACATTGGCATATCAATAAATGAAAAAAATA
ATGTTGGCCGGACAGTGGTGGCGCACGCCTTTAATCCCAGCACTTGGTAGGCAGAGGCAGGTGGATTTCTGAGTTCAAGGACAGCCTGGTCTAA
GGAGTGAGTTCCAGGACAGCCAGGGCTATACAGAGAAACCTGTCTCGAAAAAACAAAATACAAAAAACAAAAACCAAAACCAAAACAAAACAAA
ACAATAGTGTTGTGACACTATTTTTATTCTACATCTAAAATAATATGAGACCCGTATTTGACTGAGCTCCCTGGTAACCAGAGGTGGGGGGAGT
TCCCATGGAGCCTTTCCAATGGAGAGGAAGTTTGGTTTATGGAAAGGGAAACTGAGGCAGATAGAGTCAAGTACTTCTCTAAGGTAATAGCAAA
TATGAGTAGGAAAGGTGGAAGTCAAACTCTGATCTCTGTCCCTTTCGTTGCCTGCTTTCCCTCTGCACAGATAAGGCCAGACCACAGACACCAC
ACCCAGCAATGGATACAGGACATCACACCCAGCAATGGATACAGGACATCACACCCAGCAATGGATACAGGACCTTGGAGAAATTAGGAGTTGT
AAGCAGGACCTAGGCCTGCTTGATTCTTTCCCACCTAAGTGAGGTTCTGGAGAGGGAGCCCTTCCACCCTTCCAGACCCAGCAAAAGGGCAAGA
TGGGAGCAAGAAGCAGAGGGTAGACGGGCAGAGCTAGGAAGGCAGCCCCCAAAAGAACTGTGGGGGAAATAAATCGGATGCCCTTGGGTGGCAG
CAACAATAAATCGTACAGCAGTGACAGCTTTGGCATGTGTTGTGTGTCTTTGTTGTGTTTGGGTGTGTTGTGTCTGGCTGTGTCCATTGTGTGT
CTCTCTAGGAGGCTGATCTGGAATGGGAGCGTCCTTATTGCGTAGCATATGGGCTTGAACGGTTCTCCGTGATTGTTGCCTTCTTCTAATGTAT
GCAGATGCTTTGAGGAGCCTGTTTCTATGGTTTCTTCCAGGGAAGTTGCTTTGTTTCTTTGCAGTGCTGTCCCAGAGACAACCTGTGGCCAGTC
CCCTACATATTCTTGAGCACCACAAGGTCCTATTATATAGAGCTGCTTTTGGAAGAGAATGTTTCTATTAATACCATTTGCAAAATGGAAAAAA
AAAACAGCATCCATGATTTAAAACATGCAGAGGATTTGTTTTAAGCAACCGAGGGCTCAAATTCAGTCATGAAATACCAGGCTGGCTTCCAGGA

TGGGGTGCTTGGTGAGCTGGTGAGAAAGCTCTCCCTAAGCATGGTGGGCCGATGGGTCTCAGGACCAGAATTCCAGGCAAATGTGAAGCAAATG
AGAAGATGGTTGAACCAAGTGTAGAGTGGCCTGAGGTCTGAGTTTGGAATGTTGCAATTTTACTCAGACGAAACAATGTTCTTTCTCACACACA
AGTTCTATGAGTAAATACTCCTAAGTAACACAGGTGGCAAGTCCATTTTCTTGAGGCTGGTCTCAAACTCCTGAACTCAAGTGGCCCTCTAAGC
CTCAAATTCTAGGCACCCGTATCACCACTCCCACTTAGCCTATTCGTTCTTAAAAAGAATTATTTATTCATTTTCTGTATATGAGTACCTGGTA
GCTGTCTTCAGACACACCAGAAGAGGGCATCAGATCCCATTACAGATGATTGTGAGCCACCATGTAGTTGCTGGGAGTTGAACTCAGGACCTCT
GAAAAGCAGTCAATGCTCTTAACTGCTGAGCCATCTCTCCAGCTCAACCCTATTTATTTTTAAGGATACCATTTGATAGTAGAACGCATAGCAC
CTGCTCACAGTTTAGTCACATGCTTGAAGAGAGAGGCCGGGGAATGCCATTCTTAGCTGCCAGCCATTTGCTAACCCAAGCTGAGGTGAGGGCA
GAGTTTTATTAGAGGAAGAAGATGGAGCATACTGGAAGAAATAAGCAGAAACATTACTCAACACTCAGACTCAGCCAAAGTGGGAGGAAAGAGC
CCTTGCTCTTGCTCTGGGCTGAGCCTTTGTCCCTTCTCACTAACCCAGCTTGTAGAGCCTGGAGCCCATTGCACTTAGATGGAACCGGAAGCTA
GGGTACTTACGGAATCAGTGGCCTCACAGCAGGCTGTGGGTCAGCTGCAACTCTCAGGGACATATCCAGCCACCTCCTGTGCAGCTGGGAACAT
TAGGACAATTTCTGGTCTGGCTGGGCATGGTAGCTCACATCCGTAGTCCCAGCATTCGGAAGACAGAGGCAGGCAGAGTTTATGAGTTTGAAGC
CAGCCTAGTTTATGTAGTTCCAGGCCAGCCAGGACTCATAGCGACACCCTATACTAGAGAAGGGGGTTGGGGGCGGAGGGAGGGAGTGAAAGCT
GCTTCTGGTCCTATCTCAGTACTCCAGGCCAACCAGGACTCAAAGTGACACCCAATAAATCAAGCAACCAAGCAAGCTTTTGGTCCTATCTCAG
TGCTCTCAGGAATGTCCGGTTTCCTTAGTGCCAAGAAGAACAAGAAGAATAGGACTGGCTTCCTTGAAGGCTGTCCAATTCTACCTCAGGGCAA
CTGCTTTCTGTGGACTACCAGCCAACCACCTGCTCTGGAAGGTTCTGCTTCTCTGTTCAGGATGCCCGTGACGCCACCCAACCTGCAAGGCTGA
GTCAAAGGCCTTGTCTTCAGCATTCCTCTGCTGGGCCCTCTCCCCTCCTTCTGTTGATCTCTCCTCTGGAATGCCACACCAGCTAACAGGCTCA
CGGATATTTCTTTTGGCAGGTGGTTTTGTGGAAATTGTCCTGGTGGCAATGGAGTGGGCCTTTTATTTTTAAATAGGATCTCACTCTGTAGCCT
TGTCTGTGCAGGAATTCTGTAGACAAGTCAGGCCTTGAACTCATAGAGATCTGCCTGCCTCTGCCTCTCTTGAATGCTGATATTAAAAGTGTGA
GCCACCCTACCTAGCCCAAATCATTCATTGCTTTGACATCTGTTAGTTGCTTGTTATTTTACCAGGGCAGGGCCGAAGCACAGACTTTGTAGAG
AGGGACACATGGTACAGCTTTTAGCTTTAGAACCTAAAATAGCACCACCTCTGGGCAGCATGCTTGCAGCAGTATGCATCTGGGTGTCCAGCTT
CAGAAATGACAGCGCCCATATTTTGGGTGCCTGCCCTAGGACAGACAGGTTTGTTCATTTGTTTTGTAGCGTTTGTTTTCTGCGGGGCATCAAAC
ACAGGGTTACATGCTAAGATGACAGTCTGACCGTGGCATCTGTACCTGCCCTGCAATAGGATTTTACAGTTATGTCTCCATTTAATCTTTATAG
TAACCCAATAGGACACACTACTAGTGTTCCTGTTTTTTCCAAACAGAAATCTAAGGCCCAGAGATTTGCAAGTTCATACTAGACCACATATAGTA
AGTTACATTGTATTTCATGGCTCATTTAGAGACACGCAGACTCAATCAATACCACATGAGACTCTGAGCTCAGGTTTTCCAACCTCTGACCTTT
TCCCCTTTGATGGTGTGCCCAAGAAACACGGGGTTCTGGGCAATGAGCAACCCTAGATTGTAGATCTTCTAAGGGTGGGTTCGAAAACAACCTT
CCTTCCGTCAGAGAGAAAATTAAGGTCAAGAACACCCGTCCTCAGTGTCAATGGCCAGTCCTAGCTGCTGGACCCTTGAGCACCTGCTTCTTAG
GAGATGAACACGCCACCACTTACTCTTGACCTCTGATTGACAGCCCTCTGCCTCACCTGTCTCTGGCACAGCCTCTGTGCCAGGAACTGTTACA
GCAATTCTTAGAACCTTGGAGATCTCAGATCAGGAAGGACCCTGAGCAGAATGTCCCTCTTTTCCACCCCGTTTTCATCTCGTGCATATAATGT
CTGATTCTCTCAGTTTCGGGGATTCCTTAGTAGAACTAGAGAAATCACTGACAGAATCTTTCCCTTCAGGGCCTTCCAGAAACTTCTCAGATTT
CCGTAGCTGAAAGGATTCCCAGCCTCTTGCAGAGAATTGAGAAACTCACTATTTTTTTTTTAACTCTTGTGGTTCCTTTCTCAAAAATTCAAGGC
TTGACTGGCCATATATATGTGTGCCTGTGTGTATGTGTGTACATATATATGTATATGCATGCATTCATATAAATTTCAGGATGACTCAAAGTTA
ATTTTCAACTAATACCCCTTAAAGATAATGCTAGTGACAGTCATAGCCGTAGCAACTGCTATGCTGGGTGCCATGGGGATTCCCCAACGTCATC
TCTCACACAGCGTTCCTTCCAGGTCTGTCCCCTGAGGCTCACGTGCTATATTGTATCTACTTGTCATTGAAAAACCACCCCTTTACCTGTTTTA
CTCAAGCGCATTTAAAAAGGAAACTATGTAACCACCCTAACTAGGAAGCCATGTGCTGCTCATAAGCACAAGTTCACTCTGGCCAAGTCCAGTG
CTTGCCACTGTAAGCCTGACTTTAGGGGGATGGAGGCAGGGGGATTGCAATCTCAAAACACAAGACAAACAAAACTTATATACAAATTTAACTT
CTTTTAAAAGTTCATCGAAGCCAGCCAGGATGGCTCATGACTTTAATCCCAAGCACTCAGGAGGCAGAGGCAGGCTGATTTTTGTGAGTTCAAG
GGCACCCTGGTCTACATAGAGAGTTCCAGGCCAGTCAGGACTATATAGTGAGATCCTGTCTAAAAACAAACAAACAAACAAATACAAAAACCAA
GAACAAAAAGTTTATGTGCCTTTCTACAATGACCAAGAGTCACAATTGTGCACACTAGGAAGACACAGTGCAATGTGGTACCAGAACAAGAAAA
AGTATACTTGGTGTGACCATGGATGGATGTCCTCCAACTTACAATAGTTCAACTTGTTCATTTTGAGGCAAGGTCTCACTCACTACATAGCCCT
AGCTGGCATCCTCCTGCCCCTGGCTCCAGAATGCTGGAATTAATGACACGTCAGGCCTCTGTTACGTTACAGTGGTGTAAAAGTCATTCACACT
CAACAGAAAGTATACTCTTGTTTCTGTTTTTGTTCTTGTTTCTGTTTTTGAGACAGGGTTTCTTTGTGTATCCCTGGCTGTCCTGGAACTCACT
TTGTAGACCAGGCTGGCCTCGAACTTGGAAATCCACTTGCCTCTGCCTCCCAAGTGCTGGATTAAAGGCATGCAACACCACTGCCCGGCGTGAA
GACAGTCTCTTGGTACCCAGGCTGTGAACTTGATATTTTGTTGAGCATGACCTTGAACTTCTTTAAGTATCATTGTTGAGGGGAGGCCTAGATG
TGTGTGTGTGACATCAGAGGACAACTTTGTGGGATCAGTTCTTTCATTATACTTTTACAAGTGTTCTAGAATTAACTAGGGTTAAAACTGCCTG
GCACGTGCCTTTTATCCACTGAGTTGTCTTGCTGCTCCAAACTTTGGGCTTCTGAACTTTTTGCCTCCATCATCTGAGTGCTGGCATTATAAGT
GAACAGGACTGGCCCAGAATGAGAACACACTCTTAATCCTAGCACGTGGGAGGCAGAGGCAGGTGGGTCTCCGTGAGTTCAAGGCCAGCCTGAA
CTACAGAGTGAGTTTGAGGACAACTGGGGCTATATAGAAAGATTCTGTCTCTCCCACCCACCCCAAAAAGGCACACACCACTGCTCCTCATTTT
ATTAGGCGATGAGATCAAACCCAGGGCTTCATGCACACGAAGCAAGCACTCTATCAACTGAGCCATAGCCTCCAAGTCAGCATTTAAACTTTTT
TTTTTTTTTTTTTGGTTTTTCGAGACAGGGTTTCTCTGTGTAGCCCTGGCTGTCCTGGAACTCACTCTGTAGACCAGGCTGGCCTTGAACTCAGA
AATCTGCCTGCCTCTGCCTCCCGAGTGCTGGGATTAAAGGCGTGTGCCACCACGCCTGGCAGCATTTTAACTTTTTAAAAATTACACTTATAAT
ATATTGTGTGTATGGTACATGTGTGACAATCAGGACAACATTCAGAAGTCACTTCTTGCCTTCCACAATGTAGGTCCTGGGGGATTGAACTTGG
GCTTGGCGGCAAGCACCTTTACTTGCTGAGCCATTTTGCTACCTCTCCCTAGTTTTTTTTTTTTTTTAGATTTATTTATTTATTATTATAAATA
GGTATACTGTAGCTGTCTTCAGATGCACCAGAAGAGGGCATCAGATCTTATTACGGGTGGTTGTGATTGCTGGGATTTGAACTCAGGACCTCCG
GAAGAGCAGTCAGTGCTCTTACCCAGCCAGATTTCTTTCTTTCTTCTCGGTTTAAACTTTGCCTGTGTGGCAGTGCACACGAGTGCAGGTGCCG
AGTTGCTCCCCACTGGAGCTGGAGTTTAAAAGTGGCCACGAACTGCCTGATGTGGGTGCTGGAGTCTTCTGCAACCCAAGCTGGAGTCTTCTGC
AACCCAAGCTGGAGTCTTCTGCAACAGTAATATGTGCTCTCAACCACTGAGCACAGTTCCCTCAGTCCCTCAGCCAGCTTGTGCAGCCTGGACT
CACCTACTGAGGGATGCACTCACAGAGAGCTGCCCCCCCCCACATCAATCAGCAATCAAGAAAACAATCCACAGACACATCCACAGGCCAGTCT
GATCCAGACACTTCCTCGGCTGATGTTCGCTCTTCCCAGGTTTGTGTCAAGTTGAAAATAGAACTAACCAGAGCACAGGTTTTACAGTGTAGCC
CAGGTTGGCCAGGAATTCATGGTTCCCCTGCTTCAAGCTTCCCATGCTAAGGTTGCAGGTGTGTGATGACACCCCCAACTTTTGCATTTCCTAT
TTATATTTTCATCTTACAATGGACTCATTGAGGCATGAACCCATCATAAATTGGGGAGCACCTGAACCCAGTAAATGAAGTGTTGGGTGCTCCC
ATTGCCTCCCACTGTTCTCTATATTGACAGACAGCTTCTACCCCAAATCCATGCCAACAGTGTACACTTCTCTGTGGACACCTACAGCAGGTCG
TGTGATTTAACCTGATACTGTTAGGATATGAATTTAGTGCAGACTCTACAGTATAGGTCAAATTCTACAAGAACATAGAAGCCAAGTCAAAGCC
TAGGCCTTCCTTACTTCTGACCCACTGAGATAGGTCAGGGACTGCCACAAGAGGGCACAAAGGCAACTGGCTCTGAGCCCTGTGCAAGGAAAG
CATGATGTGTGGTTGCCTTCACCCTGGCACTCTCCAAAAGCTTTGCCATAAGACATTTGATTATGCCGGGTGGTGTTGGTGCATGCCTTTAATC
CCAGCACTTGGGAGGCAGAGGCAGGCAGATTTCTGAGTTCGAGGCCAGTCTGGTCCACAGAGTGAGTTCCAGGATGGCCAGGGCTACACAGAAA
AACCCTGTTTTCATCAGGACAGAATGCTTACAGTAGAGAAGCCGCTTGTGATGTACCCAAGCTAAAATTAGACGTAGCGATACAAATGACAAAG
GCGGAAGAGAATTGTTATTGAGGAAAAACTTTGTCCCATAAAATATTCTTGGTAAACCCCCAAATCAACTCAGATTTCCAGCAATCTGTCAGA
GCAAAACCCACAAAGCCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGCGCATGCATGTGTGTGCTTCTGTGCATGTGTGCATGCATGTGT
GTATTGGTGCTGGGGATTGAACCGAGGGTCTTGACACATGCTATAGTTATTCCACTGAGCTAAGCTCTCAATTCTTGTTTCCTCTTTTTTAATT
CTTTTTTTTTTTTAATTTATTTATTATATGTAAGTACACTGTAGCTGTCTTCAGATGCACCAGAAGAGGGCATCAGATCTCATTATGGGTGGTTG
TGAGCCACCATGTGGTTGCTGGGATTTGAACTTCGGACCTTCGGAAGAGCAGTCGGGTGCTCTTACCCACTGAGCCATCTCACCAGCCCCTCTT
GTTTCCTCTTAATTGACCTAAAAATCACTGTTTGGAGGTAACACAGCAAGGCAATGAATTGCTGACTCTGAATCCCGTTAGCCTTGACATCGCT
AACTTGTGGCCTTGAGGACAGTTGCTTAGGTTCCTTTGCAAAAACTTAAAGGCTGCTTTTGCATTGGGATCGCGTGAGCCTGTAGATGGACCAT

AGACATGAGATAAGAAGCTCGGCTGGTCTCCTCTCCTGTTGTTCCTGCCCCTTTTGCTCTCTTACACTTGGAACTAAATTCTACTCTGCTTTGC
AGATAGACAAGCTGCTTATGGGAGAAATGTTTAGTCCAAGACTATAAGAGAACTTGGGACCGGGCAGTGGTGGTGCATACCTTTAATCCCAGCA
CTTGGCCTATTTCCCATTGAATCATTTCTTTTTTTTCACCCTTGGGCTTTCTCTGCAGTGCAGCAGCTAAAGACTGTACAGTCTTTCGGCCTTA
TCCTTAGGCTGAAACCAATCCTGAGGACAAAGCATTTATGGAAGAGGATGACATCAAGCCAGGTATGGTGGCCTGTGAGCTCTGCCTTGGTAAG
GTAGAGATGGGAAGACCCAGAACTCAAAGCCAGTCTTGGATATATAGTAAAGTCCAAGGCCAGGCTGAGTTGTCTGAGATGGGAGTGGGTAGAG
GAGTGAATGGTGGCCATGGTGGTACATGCCTGCAATCTCAACTTTTAGGAGGCAGTGGCAGAAAGGTTGCAATATGTATAAGGCAAGCCAGGAG
GAGACAAGGCAACTATATCAAGAAATCAAAGACAGAAACTGAGCTGTAGCTCTAGTGGCAGAGTGTTTACCTGGTATGCTCAAGGCCTTGTACT
CTCTTCCCTGTATCCCAAAAAACAGAGATGTAGACGAGAGAGTTGGGAGTGCAGGGTCCTCTAGCTGTATAGTGAGTTCAAGGTCAGCCTAGAA
ACCATGAAACCCTGTCTCAATAATAATAATAATGACATCAACAACAGAAGCAGCTCAGCTTCTGGGGTTAAGCTACGGATTCCAGGTTAGGATG
GTTGAGGTTGTGCAGAGCAAGGAAAAACTCCTTGACTTTCAAAATTCTGCCCTGACCACTGCTTTAGTTCAGTCTAGAAAACCAAATCTGTTGT
CTTCACTAAGCGAGCAGCTTTTTCACGTATTTGGCTTATACCAGCTCCCTTCTACTCCAGAGCTGAAGTCCCTTCAGGAAGCCTTGTCACACAG
CATGTCCTCATTTTGAAGGCCCCATGTCAGCAGAGCCTGCCTCCTGGTAGCGACAAGTCTGGCTGTATTCCCAGACTTCCCAGAAGCCTCTTCT
TGAGCTCCATCCTTTGCTGAAAGGGTCCACAAAACTCAGGGACACATCTGCTTCTGAGGAGTGGTTTAGGCAAAGGTGAGCACTCAGAATCAGC
CAGAGCACAGGGAAGATGAGGAGGTGAAGGCCCTCCTGTGTGACCCCTTCCCAGGCTCTCCATAGGGTCTCTACATCTCTTTTTCTGCTTCTAT
GATCAGTTCTACCTCAGAGATTAGCTCATTTGCCTTTGAAGATTAACTCACCTTCTGGTCCCTTCCACTCTCTGGAGGTTGGTGGGGAGGTGAG
AACTAAGAGTTCAACCTTCTAGTGTAAGGGTCCATGATTTGCCGAAGAATGACACCCCAGACTCAAATAGTATGTAAACACAAAGAGTGTTTTA
TTCTGCAGAAGTCCAGCATGCTGGGACCTCCCATTACCAAGATAGAGAAACAACCAAGCGAGCTCGAAGGCCCAATTTAAAACACCTTAGGGGA
ATCGGGAGGCCGATGGGCTTTGTCTTACTCCGTCTCTAAGGTCATTCTGTCCCTGGGGCATGAGGGCTGGCTGGAAGCTGCTGACCTATTGTCC
TCGTTTCAGGCCAGGTGATGGGGCAGTTTCTGACTAGCTGCCTGAAGTTTGGGTTTTTAGGTCTAGTCTCTTTAACTGCCAATTTGAGGCCTGT
CTTGGAATCAGCCTAGCATTCTCACCAAGTCAGGATGGGTTCCACTGGTGGCCAGTCCCATTTTCCAGAAGCCACCCCAGTAGGATAAATGCAG
CTATGACTGAAAAGGCTAAGAAAAGAACACTAGCCTCTGTTCTTATTGCTGGGGAGAAAACTCAAGGGTTTCAGGGGCTCTGTGCCCGGACCTT
GGGAAAGAAGGCATGATTGCTTAGATTGAAAAGATCTGGCCGGGCGTGGTAGCACACGCCTTTAATCCCAGCATTGGGAGGCAGAGGCAGGCGA
ATTTCTGAGTTTGAGGTCAGCCTGGTCTACAAAGTGAGTTCTAAGAAAGCCAGGGCTACACAGAGAAACCCTGTCTTGAAAAACCAAAAAAAAA
AAAAAAATCTGAAGGAGCTTCAGGCAAATAAGACAGACTTTATTCAGTCTGGCTGAAGGTTGCTGGGAAGGCAGTCACTAGTTGGCATTCTTTC
AGCAAGCACCCAGGCACATGTACGAACTGCACACAGGCAGATACAACTACAGACAGATACTCACAGGCAGACAGTTGATGTTGGAGGAGAGGGA
CTATAGGTGTACTTGTGGGCTACTTCATTGGATTATTTTACTACCACCTTTCTCCTCCCCTGTTCCACCCTAATCCCTTCCAATCCCCCCAACA
CTAGGTAGATCTCTCTAGACTATTTCCTGCTGATTAAAGGCATCAAGTCCCTTGGGGCAAATCCAATCTTCATCCTCAGGATATCTCCAACCAG
CAATCGCAAAAGCAGCAAATGCAACTGCAGGAATCGGCAGAGGCAGAGCTGAAGCAGTGGGAGTAGCAGCAGCCACCTCCACAAGCCCTCTCAG
GGCTCTCACATTTATACCCTCTCAAGGGTTACCAGAATTCCAAATGTAAACTATCTGCTGCTG

MOUSE SEQUENCE - mRNA
CACAGGCAAGACTTTGGAGAGAGCAGACTAGGCATAATGGCCACCTTGCCACCAACAGCCAACCCTTCCCAGCAACCTCTAAACCTAGAGGATG
AAGATGGAATCCTGGATGAATATGATCAGTACAGCCTGGCCCATCCCTGTGTCGTCGGGGGAGGTCGGAAAGGTCGGACCAAGAGAGAAGCTGC
TGCCAATACCAACCGCCCTAGCCCTGGCGGGCATGAGAGGAAGCTGCTGACCAAGTTCCAGAACTCTGAAAGGAAAAAAGCCTGGCGCTGAGAC
GGAGCTGGAGATAAGGCCAGACCACAGACACCACACCCAGCAATGGATACAGGACATCACACCCAGCAATGGATACAGGACATCACACCCAGCA
ATGGATACAGGACCTTGGAGAAATTAGGAGTTGTAAGCAGGACCTAGGCCTGCTTGATTCTTTCCCACCTAAGTGAGGTTCTGGAGAGGGAGCC
CTTCCACCCTTCCAGACCCAGCAAAAGGGCAAGATGGGAGCAAGAAGCAGAGGGTAGACGGGCAGAGCTAGGAAGACAGCCCCCAAAAGAACTG
TGGGGGAAATAAATCGGATGCCCTTGGGTGGCAGCAACAATAAATCGTACAGCAGTGACAGCAAAAAAAAAAAAA

MOUSE SEQUENCE - CODING
ATGGCCACCTTGCCACCAACAGCCAACCCTTCCCAGCAACCTCTAAACCTAGAGGATGAAGATGGAATCCTGGATGAATATGATCAGTACAGCC
TGGCCCATCCCTGTGTCGTCGGGGGAGGTCGGAAAGGTCGGACCAAGAGAGAAGCTGCTGCCAATACCAACCGCCCTAGCCCTGGCGGGCATGA
GAGGAAGCTGCTGACCAAGTTCCAGAACTCTGAAAGGAAAAAAGCCTGGCGCTGA

HUMAN SEQUENCE - GENOMIC
ATGCCGCTGCACTCCAGCCTGGGGGACAGAGTGAGACTCCGTCTCAAAAAAAAAAGAAAAAGAAAAAGAAAATAATTTTTCTTGCAAAAATGGG
AGCACAGATGCACCGTTGCGGAGGGCGACAATGATGTCTGGGCTCGCTTCATTCTACATGGGTTGGGGCATGGGGTAGGGGGGCACGGCCCCTT
GGCCCGAGGTGGGAGGGTAGGGGACGGTGTCTGTGGCCCAGGGGTGGGTGGGGTGGGACAACGCATTGTTTTCAGGGCACTCCGTCTACACCCG
TTACACTCCGCAGCAAAGCCGTCCCAGGTCTCCACCCACCACCCCACCCATCAGGACACCAGGAAGACGCACTTGACCTGCAAGAGACTGTTTG
AATACATCTTCCCTAAGAGGATGGACTGATGCTGCAGGCTGGACAAACCGCCAAGCTGAGCTCCAAGGTCCCCCTGACTGAGCCCTGGGATCCT
CTTGACCTTCAGCAGAACTCCACCTTTGAAGTCCGGTACCCACCAGGCGGCTGGATGAGCGTGCCTCCATGCAGGGGCGCTCAGGCAGAAAGTC
AGCCAGAGCAGATGAAACCTGAATTGTTATCCCAACCAAAAATTACAGCACGATGTTGCCCTCCCTTGTTTTTTTGACATACACCTGGGTGTTA
AAGACCCCTCCATGTTGACCCCGTGGGGCATGGGCCAGACAGCCCAGTGGAGGAGACGACCAGGACCAGCCCTGGTGAACGTGAAAACCCAGAA
GTGACGGCATTGGACATCAGATATCAGTGACCCCAGCTGGAAACAGATTTGATATTTGAGAATTTTCACTGGAGCTTAAATATGATAAGTTTAG
GACGGTAGACATTTTTATGGGTTTTTTTGTAAGTATGATCTTGACTAATCAAACTGTCTATAAAAGAAATTGAATGGGCTGAATCAATGGCTAA
TATGGATACCTCAGGGGTTTTTGTGTGGTTTTTTTGTTTTGTTTTGTTTTGACAGGGTCTTGCTTTGTCACCCAGGCTGGAGTGCAGTA
GCACAATCTTGGCTCGCTGCAACCTCTGCCTCCCCGGCTCAAGCGATCCTCCCTCCTCAGCCTCCCAAGTAACTGGGACTATGGGTACACACCA
CCACACACAGCTAATTTTTGCTTTTTGTGTGTGGTGGGTTTTTTTTTTTCTTCTTTTTTTTTTTTTCAGACAGCTCCTTGCTCTGTCGCCCAGGC
TGCAGTGCAATGGCACGATCTCGGCTCACTGCAACCTCCACCTCCTGGGGTTCAAGTGATTCTCCTTCCTCAGCCTCTTGAGTAGCTGGGATTA
CAGGTGCCACCATGCTGGGCTAGTTTTTGTATTTTTAGTAGAGACAGGGGTTTCACCATGTTGCCCAGGCTGGTCTGGAACTCCTGACCTCAAG
TGATCTGCCTGCCTAAGCCTCCCAAAGTGTGGGGATTACAGGCATGAGCCACCGCTCCCGGTCTTAATTTTTGTATTTTTTTGTATAGACGAGG
TCTCGCCATGTGGCCCAGGCTGGTCTCAAACTCCTGGGCTCAACCAATGTGCCCTCCTCAGCCTCCCAAATTGCTGGGATTACAGCGTGAGCCA
CCACGCCTGGCCTCGTTTTTTTTTTAACAGTGCTAAGAGGTAAGGAGGACTCCCTAGGAGCAGTTCGCAGTGGCAGGGAGGCATATTTTATTACT
GACATTGTTGAGAATTGATAGTGATAATAAAAGGCAGAATGATTTGGATCAGTTTAATTATTAAGTTCTTTATAGACAGCCTGGATCAGGGTAG
GGGACTGCTCCCACTGCCCTGTCCCAAAATGCTCCCTTAAAATTATTTCCAGATATTTAAGAGCTTTATGGCATGACCCAATTGCTATAAAAAT
TTTAACTTGAAGGAAAATCTATACTATAAAGTAATCGTTTCTTTAAAGATACATTTTAAGCAAGAGGGTTTGGAAAAATCTTTATGTCTACACC
TGGTAAGCACAAGCCATGTATATTCCGTTTTTCTTTCTTTCTTTCTTTGTTTTTGTAAAAAAAATTTGTTTTGAGCCAGGGTCTCACTCT
GTTGCTCAGGCTGGAGTGCAGGGGCGCAATCACCGCTCACTGCAGCCATGACCTCCCCAGGCTCAGGTGATCCTCTGGCGTCAGCCACCTGAGT
AGCTGGGACCACAGGCACGAGCCACCACACCTGGCTAACTTTTGTATTTTCTGTAGAGATGGGAATTTCGCCATGTTGCTCAGGCTGGTCTCAA
ACTCCTGGGGTCAAGCCATCCGCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGCACCAGGTCCAGCCATTTCCTTTTTTTTCTATGCAAGAG
TATTGATATATGTACTGAATCATCCCATACTTGCCAATGTATGTGATCACATACTTATCTTGCTGGGATCACAGGCAAGAGCCACTGCGCCTGG
CCCAAGTTTACTTTTTTTTTTTGGAAATGGAGTTTGCTTTTGTTGCCCAGGCTGGAGTGTGATGGCGCCATCTCGGCTCACCGCAACCTCCGC
CTCCCGGGTTCAAGCGATTCTTCTGCCTCAGCCTCCAGAGTAACTGGGACTACAGGTGCCCACTACCACGCTGGCTAATTTTTTGTATTTTTAG

TAGAGACTGGGTTTCACCATGTTGGCCAGACTGGTCTCGAACTCCTGACTTCAGGTGATCCACCCGCCTCGGCCTCTCAAAGTGCTGGGATTAC
AGGCATGAGCCACCACGCCCGGCCCCATGTTTACTTTTATAGTCCCAGCACCAAGCAAGTGCCTGGCACATGGTTAGTACCCTAAACATTTGCA
GACTGGAGAATGCATGCCTCTCTGGTCTTTACTTTCCTCTTCTGTTAAATGGGGTCGGGTTTGCTGATCTCCCAGAAGACATCAGTAATAAAAT
TTATTATTTTAGATTTTTTGCTTCTTTCTTTTCTTCTTTCTTTCTTTCCTTCCTTTTTTTTTTTTTTTTTTTTTTTTTGTGTGTGTGTG
TGTGACACAGAGTTTCGCTCTTGTTGCCCAGGCTGGAGTGCAATGGCGCAATTTCAGCTCACTGCAACCTCCACCTCCTGGGCTCAAGCAATTT
TCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGCCATGTGCCACCAAGCCCGGCTAATTTTGTATTTTTAGTAGAGACGGGGTTTCACCATG
TTGGTCAAGCTGATCTCAAACCCCTGACCTCAGGTGATCCACATGCCTTGGCCTCCCAAAGTGCTGGCATTACAGGCATAAGCCACCGCGTCCA
GCCTTATTCTAGGTTTTTCTACTACTGTGTTTTATGTGGCTGTCTATTTTAGTTGTCAGGAGAAAATGTCACACCTCTATTATGGTGAAAACTG
TGTATTACTCATAGTTATCTATACATTTAATGCAAAAATATAATTTGTAGTGTACATGATGTTCTGCAACCTGTGTTTTTCATTAGGAATGTAT
TATGGACATCTTTCTCATCAGAGATAGAGATACATTCTCTCTCTAAAGAGTATTGAATGGCTACAGTGTTTCACAGAAGGAAACTGATCAGTCA
CCTACTGATGGACATTTAGGTTGTTTCCGATTTTTGGTTTTTGCTTTTTTTAGAGACAGGGTGTTGCTCTGTCGCCCAGGCTGGAGTGCAGAGG
CACCATCATGGCTCAAGCCATCCTCCTGCCTCATCCTCCTGAGTAGCTGGGACTACAAGTACACACCACCATGCCAGTCTTTTTTTTTTTTTTT
TTTTAAGATATGGGGTCTCGCTATGTTGCCCAGGCTGGGTTTCCTGTTTTTCACTACTACAAACAAATGAACTTCCTTGTACCTGCCTCTTTAC
TCACCTCTGGGAAGATTTCTGTAGGAGAGACTCCTGAAAGTGGGACTGCAATATCAGGGGGATATAAGCATTTCAAAATCTTATCAATGTTGCC
AAACCACCCATTAAAGACAGCATCTGGCTGGGCGCAGTGGCTCATGCCTGTAATCCCAACACTTTGGAAGGCTGAGGCAGGCGGATCACCTGAG
GTTAGGAGTTCGAAACCAGCCTGACCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCTGGGCATCATGGCATCTGCCTGTAA
TCCCAGCTACTAGGGAGACTGAGGCAGGAGAATCGCTTGAACCCGGGAAGCGGAGGTTGCAGCTAGCCGAGATTGCGCCACTGCACTCCAGCCT
GGGCAACAAGAGCAAAACTCCATCTCAAAGAAAAAAAAAAAAAAGACAGCATCCACTGATATTTAAAACGATGATATCACACAGCCAAGAAAACT
TGCAAATGCAGCTGCCAGATTTGACATTTTTATCTGGGATGGGGTTGTGAGATCATATGGATATATTTTGTTTAACCTCATTTAGATTTCTTGT
GTCCTCTTGGAACACAGCGATGTCCAATCCACCTTAATTACGTATTCTGCCTTCAGCCTGGGAAGCTTCTGTTCCTTTGAGCTAGTGACTTCGT
ACATCCCTCAGGCTATCCAACAGAGAGGAAGTCTTGCTGTGTTGCCTAGGCTGGAGTGCAGTGGTGCGATCATGGCTCACTGTAGCCTCAACCT
CCTGGGCTCAAGTCATCCACCTGCCTCAGCCTCCTGAGTACTTGGAGCTACAGGCATGCACCACCACGCCTGGCTAACTTTTGGATTTTTTTTG
TAAAGATGAGATCTCGCTATGTTGCCCAGGCTGGTCTTGAGTTCCTGGGCTCAAGCAGTCCTCCTGCCTCGGCCTCCCAAAGTGCTGGGATTAC
AGGTGTCAGCCTTTGCATCTGGCCCACAAACAGCCATTCTTGTTCAAACTTTGCCTCCAGGCCTGGCGTGGTGACTCACGCCTGTAATTCCAGC
TATTTGGGAGGCCGAGGTAAGAGGACCACTTTAGCCAAGGAGTTCAAGACCAGTCTCGGCAACATAGGGAGACCTCATCTCTACAAAAAATAAA
ATTAGCTGGGCATGATGGTGCGTGCCTAAAGTCCCAACTACTTGGGAGGCTGAGGTGGGAGGATCCCCTGAGCCCTAGAGGTCGAGGCTACAGT
GAGCAAGGTTGCTCCACTGTATTCAGCCTGGACGACAGAGTGAGAACCTGTCTCAAAAATAAATAAATAGGCCGGGTGCGATGGCTCATGCCTG
TAATCCTAGCACTTTGGAAGCCGAGGCGGGTGGATGACTTGAGGTCAGGAGTTTGAAATCAGTCTGGCCAACATGATGAAACCCTGTCTCTACT
AAAAATACAAAAATTAGCTGGGTGTAGTGGTGCATGCCTGTGATTCCAGCTACTCAGGAGACTGAGACAGGAGAATCGCTTGAACCCGGGACAC
GGAGGTTGCAGTGAGCCGAGATCGTGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAAAAGAGAAAAAAAGAAAAAAG
AAAAGAAAATTAAAATTAAATTAATTAATTAAAAATAAAAGAATTAGAAAACAAGCTTCACCTCCTCCAGGAAGTGTGCCTTCATCTCCC
TATCTCCAGAGAGGTTAGGTGCCCTCCTGGGAGCTCCCAGCCCTCTGCGTTTACTCCAAGCTGATGGCGCTGGGTTGTCATAGGTGTGCCTAGC
AACGTCACGAAGGTGTAACTCTAAGCAGGAAGAAAATAAACTTCCTCGTGGCAGATTTTACATGCACCTGGAGGCTTGAGGATGGGAAAATGAA
ACCATCCCTGTAAACCTCATGCAATTAATCAGAGAACAGAGAGGAGAAATGGAAACAAGCCAGGCTTGCAGCACACCCAGCGCTGATCATGAGG
TCAGCTGCCCCCTGATCTGCTTCCTCTTAGTTGTCTGGTGCCTGCTGTTCTAGAATCACGTAGACCTGGTTACAAGATCATAGTTCCCCTTAAC
TGCACTAGAGATAGCAACTTGAACGTTATGAAACATTAAATGTTACTTTTGAGAAATTCCTTCAGGTCCTGCGTGCCGGTGAAGCGACTGACTC
CGCCAGCCTGAAGGACCCCACCAGGAGCTAACTCCCCAAAAATGTCTTTTTCACATCATGATGATTTCATTTCCCTTGCTCTGACCAATGACCC
CAATTTTCTAGCCTCTCACCCTCCATAATCCCCTTAAAAGCCCATCCCAGAATTCCCTGGGGAGATGCATTCGCAGGTCTCCTCCTATCCCCT
TGCACAGTGCCCTGTGATCATGAAACTCTCTCTACTGCATCCCTGCTGTCCAGTGTAATAGGGCTGTGACAGGGCAGCAGGCATACAAATCTGC
TGTTCCTGTAACAAAAAGCACACCTCTACGTCTAGATGGAGCCACGTCTAGAGCCCTGCAGATCCATGCTAGAGGGGTTCCAGCAGGCTGGAGT
ACAATGGCGTGATCTCGGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGAGATTCTTCCGCCTCAGCCTCCCGAGTATCTTGAATTACAGGTGC
ATGCCTCCACGCCCAGCTAATTTTTGTATTTTTAGTAAAGACGGAGTTTCACCATGTTGGCCAAGCTGGTCTTGAACTCCTGACCTGGTGATCC
ACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAACTACCGCGCCTGGCCCTTTTTTTTGTTTTGTTTTGTTTTTTGAGATGGAGTC
TCGCTCTGTCGCCCAGGCTGGAGTGCAGTGGCGCGATCTGGGCTCACTGCAAGCTCCGCCTTCCGGGTTCATGCCATTCTCCAGCCTCAGCCTC
CCCAGCAGCTGGGACTACAGGTGCCCGCCACCACACCCGGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTCACCATGTTGGCCAGGCTGGT
CTCCAACTCCTGACCTCAGGTGACCCACCCAACCTCGTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCATGCCCTTCCTCCTTCT
CTCATAGGCTTCTTTCTTCCAGCACCTGTAAGATCAAGGCCAGGGAGACCTCCTTCCCTGGCTCCATCTGGGACAATCACAGTGTTTCTGTGGT
CCCCTGTGAGGCTACAATTCGCCTCTCAGTTCCTGCATTGCAGAGCAGGTGGAAGCTGAGCAAGCAACACTGATCTTAGCAGAGCCTCATGTAT
TCAACTAGACATTTACTGAGCTCAGACTGAGTGCCAGGCATTGAGGATACAATATGGCAGGCAAGATTCCTGCCCCGAGAATAATGATAATTAA
AATAGCAAGCATTTATTGCACACTGATTATCTTCTAGGCACTGCGCTAAGCATTTTTTTTTTTTTTTGAGACCGGGTCTCACTCTGTCGTCCAG
GCTGGAGTGCAGTGGCGCGATCTTAGCTCACCGCAACCTCTGCCTCCTGGGTTCAAGCGATTCTACTGCCTCAGCCTGCTGAGTAGCTGGGATT
ACAGGCACACACCACCACGCCTAGGTAATTTTTGTATTTTTAGTAGAGACGGGGTTTCACCATTTTAGCTAGGCTGGTCTCGAACTCCTGATCT
CGTGATCCACCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCTACCGTGCCCGGCCCCAACCTTCTTTTCTTTTTCTTTTTCGAG
TGCAGTGGCACGATCATAGCTCACCGCAGCCTCAAACTCCTGACCTCAAGTGATCCTTCCACCTCAGCCTTTCAAAACAGTGGGATTGCAGGTG
TGCCTCACCTTATCCAGCCTAGGTGCCATTAATCCCACTGTATAGACGAGTAAACAAACATGCAGACTAAGCTTGTCTAAGAGCACACAGCTAA
CTAGGGGGCAGAACCAAGCTTTAGACCTGAGAAGCCCTGTTCCAGAGCCTACTCCTTTAACCATTAACTAAACTAAACCAACGGTTGCATGCCA
GTGGGGACAAATAATGGTAAAGCAAACAAATAAAAAAGATACTGGCCAGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGG
CAGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACGTGGTGAAACCCCGTCTCTACTAAAAATATAAAAATTAGCCGGGCGTGGTGG
CACAAGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCCGAGATCATACCAC
TGCACTCCAGCCTGGGTGACAGAGTGAGACTCTGTCTCAAAACAAAAACAAACAAACCAACAAAAAAAGGATGGAGTCTTGCTCTATTGCCCAAG
CTGGCCTTGAACTCCCAGCTTCAAGCAATCCTCCCAGCTTACCCTCCCAGAGCCCTGGAATTACAGGCATGAGCTACCGCACTAGGCCAATCTT
TGCTTAATTTAAGATTATTTTCCTCTTTCTCTGATCACCTGGTCTGTTATTATTGGCCCAATCCTGTTTTCATTCAAGTATCCTGTCTTCACTT
TCATTTCCTGGGTGTTAAGGAACTCATACATCATCCAAATCTGGGAAAACAAAGGCTAAATTCAATTCCGGCTCAGGCAAGGGAGAAACACAAG
CAGAAGTTCAGCTTTTTGTGTTTTTGTTTTTGTTTTCAGACACAGTCTCATTCTGTTGCTGAGGCTGGAGTGCAGTGGCTCGATCTCAGCTCAC
CACAACCTCTCCCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCACTTGCCACCACACCAGGCTAATTT
TTGTATTTTTAGTAGAGATGGGATTTCGCCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAGGTGATCCACCCACTTTGTGGATCTCCCA
AAGTGCTGGGACTACAGGCATAAGCCACCACGCTCGGCCTCATTGTGTCTTCTGCCTCAGTACATCCATATTTTGAAATACATATTATTTTATT
ATAATTTGTTTTTGAGACAGGGTCTCCCTCTGTCACCGGGCACTGTAGCATGTGTCTTTCAAACATTATCTCATTTGATCCTCTCCCCAACTCT
AGGAAGAAGATACAATTATTATCATCCTTATTTTACAGAATTGGAAACCAAGGCACAGAGAGGTGAAGGGACTCGCCCAAGGTCACACGGAAAG
TGGTGGGTCAGGGGATTGAACTGAGGGCAACTGGCTCCAGACCCTGAACTCTCCAACCCTCTGCCACCCTCCTCCTAGGTGAGGGAGATTACAT
TACTGGGGACCCTGTTTCAGGATATTAAGGGGTTTTCCAAGATGTTTCTCATAGAAAAAAGAAAAAAAAGGGTGTGGCTCATGCCTGTAATCCC
AGCACTTTGGGAGGCCGAGGCAGGCAGATGACTTGAGGTCAGGAGTTCAAGATCAGCCTGTCCAACATGGTGAAACCCCATCTCTACTAAAAAT
ACAAAAATTAGCCAGGCATGGTGGCAGATGTCTATAATCCCAGCTATTCGGGAGGCTGAGCCAGGAGAATTGCTTGAACCTGGGAGGAGGAGGT

TGCAGGTTGCAGTGAGCCAAGATCACACCACTGCACTCCAGCCGGGCGACAGAGACTCCATTTCAAAAAAAAAAAAGAAGACAAGCAAGATGTT
GAGTGTGACTGGGTGGAAGCCACTGACTTGTCCCTGGCACAAGTGTGCTGATATCCCTTCCCCCTCCTTCCTCACGTCCTGCATCTCAGCGAGA
ATTGGGGTGCCGGGGTTAGCTGTGTGGCCGTCATCCCAGGCCCAGGTGAAGCCCTCGATCAGGTGAGGCCATGATCCCAACGAGTGTTTTAGCC
CAGATCCTGCCTCTTCCCTGCTTTCTGCCGAGAAGCGGGACCTCCTCTATGGAAAATATCCAGCTGGGTGAGCCTGGGGAGGGAGGAGGTGAGTT
GGGCTGGACTCAGGGACCGACTCTTCCCGTCTCATGACTGTGTTTACTGGGCTGGATTTTGGGAAGGGGCCAGATTGCATCAGACAGGGCCTGA
TGGGCTGGAGCCAGACTGTGGTCTGAGGAGGAGACACAGCCTTATAAGCTGAGGGAGTGGAGAGGCCCGGGGCCAGGAAAGCAGAGACAGACAA
AGCGTTAGGAGAAGAAGAGAGGCAGGGAAGACAAGCCAGGCACGATGGCCACCTTCCCACCAGCAACCAGCGCCCCCCAGCAGCCCCCAGGCCC
GGAGGACGAGGACTCCAGCCTGGATGAATCTGACCTCTATAGCCTGGCCCATTCCTACCTCGGTAAGGCCCACTCAGCCATCTCCACGGTCCTT
CCTCCTCTCCCGAAATCAGGACCCACCCCTCTTGTTTCCTCTCATTTCCTTTCCTTTCCTCTTCGTTTCTTTCTTTCTTTTTTTTTGAGAGAGT
CACTCTGTCACCCAGGCTGGAGTGCAGTAGTGTGATCACAACAACTCAAACAACTCACCGCAGCCTCGAACTCCTGGGCTCAAGTGATCCTCCT
GCTTCAGCCTCCTGAGTGGCTGGAACTTCAGGTGTACACCACCTGCAGTGGTGAGATGGGGTCTCACTATGTTTCCCAGGCTGATCCCAAATTC
CTGGGCTCAAGCAATTCTCCTGCCTTGGCCTCCCAAAGTGCTGAGATTACAGGAGTGAGCCACCCTGCCCAGCCCACTCACCCTTTTCTAGCCA
ACCTGTTCCTTGGACCCTCACGTCACCCCTGTCTAATCCCTTATCCCAGGAGTGCTATGTTACTCAGCCTGGGACCTCACACACATCTGGGGTC
CCACATTCCACAGAGGGGAAGCAGCAGGCTTCTCCCTGCTCTTCCCATCCCCACAACCCTGAACCCCTGCCTCTCCTCTGACAGGGCCTCTCAT
CATGCCTATGCCCACTTCACCTCTGACTCCTGCCTTGGTTACAGGAGGTGGAGGCCGGAAAGGTCGCACCAAGAGAGAAGCTGCTGCCAACACC
AACCGCCCCAGCCCTGGCGGGCACGAGAGGAAACTGGTGACCAAGCTGCAGAATTCAGAGAGGAAGAAGCGAGGGGCACGGCGCTGAGACAGAG
CTGGAGGTAAGGAGTCGGGGGGCCCAGAGAGCTCAAGGTGGTGCTTCTGCCATGAAGGACAGGCCGGAAGGTGTGTGATTGGGTGGGGAGGAGG
GATCAGGCAACTGTTGTCTTGATGCAGAATAAAACGAGACATATGTTTGATTGTGAGTTTCCTAGTGGCCAGAGCAAAGTGGGAACACAGAACC
TTTCCAATTGAAGGGAAATTTGACTTACAGAGACAGAAATTGAGGATAGAGAGGGTGGGTCCTTCCCTGGAGTCACAAATCAAGTGAGTGGGAG
AGGCAGAATTAGAACCCAGATCTCTGTCCCTTTTACCACCTGCTTTTCCTCACCCCCCAGATGAGGCCAGACCATGGACACTACACCCAGCAAT
AGAGACGGGACTGCGGAGGAAGGAGGACCCAGGACAGGATCCAGGCCGGCTTGCCACACCCCCACCCCTAGGACTTATTCCCGCTGACTGAGT
CTCTGAGGGGCTACCAGGAAAGCGCCTCCAACCCTAGCAAAAGTGCAAGATGGGGAGTGAGAGGCTGGGAATGGAGGGGCAGAGCCAGGAAGAT
CCCCCAGAAAAGAAAGCTACAGAAGAAACTGGGGCTCCTCCAGGGTGGCAGCAACAATAAATAGACACGCACGGCAGCCACAGCTTGGGTGTGT
GTTCATCCTTGTTCTTTGTGTGTTTTTGTTCGGGCATGTGTGTGCTTGCCTGTGCCTGCACATTCATGAGCCTGAGAGAGCATCTTTGATGTGT
ATTTGTGTTTGGTGTATGTATCTGGGGCAGGGAGTGTTCCTGCTCTTGCAGGGTCTACGCTGTGAATGCAGCTTTTGGTTTGTTTGCTTTTGCT
TGCATATATTTTAGTGCATACATTTCTGTGGGCTCCTACGTAGTGGAAAGGAATTTCTTCTGCTTTTTTGCGATACTGCCCATGAAACACGGCC
CTCCCCAGCACCTGTTTTTGTTGATTGTGTCCTGTTCATAGACGGGAACGCTACTTATGAGTGCCATCTAAAAGTCAGAGAAAACTGAGATTTA
AAATATTAAAAGCCAGGGCCGGGGGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATCACAAAGTCAGGAGTTC
AAGACCAGCCTGACCAACATGGTGAAACCCCATCTCCACTAAAAATACCAAAAATTAGCCAAGCATGGTGGCAGGTGCCTGTAATCCCAGCTGC
TCAGGAGGCTGAGGCAGTAGAATCGCTTGAACCCAGGAGGTAGAGGTTGCAGTGAGCCGACATCGTGCCATTGCACTCCAGCCTGGGTGACAGA
GGGAGACTCTGTCTCAAAACAAACAAACAAACAAAAACTAAAGTCTGGGAGCAGTGGCTCATGCCTGTAATCACAGCAGTTTAGGAGGCCGAAG
TGGGAGGATTACTTGAGCCTAGGAGTTTGAGACCAGCCTGAGCATCATAGTAAGACCCCATCTCTACAATTTTTTTTTTGAGACAGAGTCTCAC
TCTGTTGCTCAGGTTAGAGTGCAGTGGCACCATCTTGGCTCACTGCAACCTCTGCCTCCCGGGTTCAAGCAATTCTCGTGCCTACGCCCCCTGA
GTAGCTGGGATTACAGGTGAGCACCACCACGCCTGGCTAATTTTTGTTTTTTTGTTTTTTTGATACAGAGTCTCACTCTGTTGCTCAGGCTGGA
GTGCAGTGGCATGATCGCAGCTCACTGCAACCTCCGCCTCCTGGGTTCAAGCTATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGC
ACCTGCCACCATGCCTGGCTAATTTTTGTATTTTTAGTAGAAACAGAGTTTCACCATGTTGGCCAGGATGGTCTCAATCTCTTGACCTCATGAT
CCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTCAGCCACCACGCCTGGCCAATTTTTGTATTTTTAGTAGAGATGGGGTTTCATC
ATGTTGGCCAGGCTGGTCTCAAACTCCTGGCCTCAAATGATCTGCCCACCTCAGCCTTCCAGCCTTTGGGAGGCCAAGGAGGGAGGATCGCTTG
AGGCCAGGAGTTCGAGACCAGCCTAGGCAACATACCAAGGCCCTGTCTCTACAAAAATTTAAAAATTAGCAAAGCATGGTGGCTCATGCCTGTA
GTCCTAGTTGCTCAGAGGCTGAAGTTGGAGGATCCCTTGAACCCAGTTGGAGGCTACAGTAAGCCATGATGGTGCCACTGCACTGCAGCCTGAG
CAATAGAGTGAAACCATGTATTGAAAAAGAAAGAAAGAAAGAAAGAGAAAAAGAAGGAAGGAAGGAAAAGAAAGGAAGGAAGAAAGAAAAGAAA
GAGAGAAAGGAGAGAAAAAGAAGAAAGAGAGAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGGAAGGA
AAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAAGAGCGAGCCCCGGCACAGTGGCTCACACCTGTAATCCCAGCAC
TTTGGGAGGCCAAGGCAGGCGGATCACCTGAGGTCAGTAGTTCGAGTTCGAGGCAGAAGTTGTGGTGAGCCAAGATCACGCCATTGCACTCCAG
CCTGGGCAACAAGAGCAAAACTCCATCTCAAAAAAAGAAAAAGAGAGAGAAAGAAAGAGAGAAGGAGGGAAAGAAAGAGGAAGGAAAGGAGGGA
GGGAAGGAGGGAAGGAGGAAAGGAGGGAAGGAAATATTAAGGGATTTGCCCTAGCTCACTCAGGGCTCATATTCAGGGATCTTATTGTCTTCAG
ATATGAGGTGGGTCCCCAGGCCAAGGGGGCTGTGGGACAGGGTTCTGGGAAGTGAGATGGGGGAGGGAGATTCTTATTCAGTGCTATGTCTCAG
GACCAGAGTTGAAGAAAAATATGGGGCAAACAGGAAGTGTGGTTGGAGCTGAGATTATTTGTTGATTGAGATACAGGTTTGGGTTGCTATTATG
AAGAATCAAAACAGGATACAAAGTTACTCCTCTCTTACTTAGCCCCAAGTCCTCCTGGGTTCAAATGGCAGCTCCATTGTGTTGAGGATTCCAG
CTATTTTTACTCACTGTTCTGCCACACCCAAAACATGGCTTCCACTTTGAGGCCCAAAATAGCTACTCCAATACCTGCCATCACGTTTGCATCT
CAGCCTGTGGAAAGAGTGTGGAAGAGACAGAGGAGGCCACACCTCTTCAATTTTAGGGCATAATCTAAAAGTAGAACACATCACATCTGCTCCG
AATGTGGCTACATGGCCACACCCAACTACGAGAGAGGTTGGGAAATGTAGCATTGAGCTGCTTAGCCACGTGGTAGCCAAAACTTGGGCAACAG
CAGGGTTTTATGATGAAAGGGAACCAGAGAGAGTGAATACACGAAGAAGCTAGCAAGAAACATTGCCCACATGCAGACTCAACAGATGTCGGGG
GAGAAAACTCTGAGATTGGGCCCCGGGCAGAGCCTGTTTCCTTTTCCCCTGTCCCTTTCACATAAGCCCCACACTGCAGAACTTGGAGTCAGTG
GTTCATGGGGACCCAAGGACATCCACAGAAGACCGAAGTACCTGATAGAGCAGGAACAGATGCACGTCAGACTACGACCAGCTTGAACCCTTGG
GGACCTGTATCCATCCCCTTCCCTTGAGTCCAGCCTAATCACAGCCACAGAATGAATCCATGACCCGGAAGGACATTTAAGGACCTCTGGCCCA
ACTCTCCCCACGCAACAGTGGGATTGCCTCTGCTTGTTTGAATACCACTATGGAGGGGGAACTTGCTACATTTAAAGGTTGCTGAATTTTTTTG
TTTTGTTTTGGGAGATGGAGTCTCTCTCTGTCGCCCAGGCTGGAGTGCAGTGGTGTGATCTCGACCCACTGCAACCTCCGCTTCCTGGGTTCAA
GCGATTTTCATGCCTCAGCCTCCCTAGTAGCTGGGACTACAGGTGTGGGCCACCACACCTGGCTAATTTTTGTATTTTTAGTAGAGACGGGGTT
TCACCATGTTGCCCAGGCTGGTCTCAAACTCCCGACCTCAGGTGATCTGCCTGCCTTGGCCTCCCAAAGTGTTGGGATTACAGGCTTGAGCCAC
ACCACCCGGCAAAGGTTGCCTAATTCTATCTCAGGGCAAGTCTGTTCATGTGGGCTGAAATCTGTCTCTCATACCTGCCCTTAAATAAGCTTCT
GTTTTTCTGGTCCTTTCTGTCTGAGATGACTTTAATTCCTCCCCCGACCCCATCTCATGAGGCTCAGCTTAGATGTTTCCTTCTCTTCCTCCCT
GATGGCTGCGTGCAGAAGCTCATACCTGCAATCCCAGCACTTTGGGAGGCCGAGGTGGGAGGATTGCTTGGGCCCAGGAGTTCTAGGCCAGCCT
AGCAACACAGCAAGACCCTCTCTCTACAAAAAATTAAAAATTAGCCAGGTGTGGTGGCTTGTGCCTGTGGGCCCACCTACTCAGGAGGCTGAGG
TGAGAGGATCTCTTGAGCCTGGGAGGTGGAGGCTGCAGTGAGCCATGATCTCACTCCAGCCTGGGCGTCAGAGTGAGACCTGTCTCAAAAAAAC
AAAAACCAAAGTTTTCCTTAACTTGCAATCCTCCACCCATCTCCTGACCTCCACCCCAGGCCGACCCTCCTCTGGGATCACACGGAAGCCTGGG
CCCAGAATCTTACAGTCTACCTTGGAAATCCTTCAGATTTGCCTCCAACTCCTCTTTCCATACAAGTTACATATTAACTCAATCAATGCTTAT
TGGATGCCTTCTGAGTTACCAGGATGCTGCTGGAGGCCTGTGCTGCTGAGAGGGACAAATAGAATCCTGATATGACTGGAACCAGGAATAGGGC
CACCATCAGCTCTAGAACCCAGGGAGCAAATGGCAGGAGCAACACCAGGCAGTCGGCCCTCAGCCCAGCACAGACCTGGTGTGTTGGCTTCAGA
AAATCCTGGAAACATCTCTGCTGTGTTTGGAGCTCCTATTCTGTGAGAAGTGTTTTATAGGCTTTGCTCCATTTAATCCTTACGATAACCCAAT
AGGACATACTATTAATGATCCCCTTTTTTTCAGACCGGAAAACTGAGGTTCGGAGACATTAAGTAATTTGCCTAAAGTCACACAGCCACATCCT
GTAGGACTTGGAATTATGAACTCAGGTCTATCTGAATTTTAAAGCCTGGATTTTTCCCCCTTTGCTACATGCCTGGGAAGAACCATGTATTGAC
AATGAAGAATCCTAAACTCTCGTTAATTTCTGGTCAATTACTCCTCTGGGCCTGGGTTTCCTCACCTGTCAAATGGTGAGACTGGCCTCTCTTC

SAGRES DISCOVERY 02-35

TGTCAAAAGAGAAAATGAAGGCTGGGAAGCACTGTGTCCCTAGCTGGAATGGCCACTCCCTGTCCTGGGTCCTTTGACACCAGCCAGGAGTCCT
CACACACTGCCCCTCCCTCCTGGCCTCTGATTGGCCTTTCCTGGCCTCGCCCTCGCCTGGCACAGCCTCTGCCTGAGAGGCCTTTAAGTGGCTG
TTCTGGGAATTAAGGCAATTCTTGGAATTGCAGAATTTTTGGATCCGAAAGGATCCTACCCAGACTCTTCCTCTTCTGTCTCCATCCCCTTTCC
TAAACCCTTTCTTTTTCTTCTGGTTGCATGTCTGTTTCCCCATTTTGGGGGGATCCCCCTGAGAACTAGAGAAATCACTGACCTCTGTCCTACC
CCAGGGGCTTACAGAATTGGCCCTGTCAGGCTTCTGTAACTCAAAGGACTCCCGACTCCTTGCAGAGAACTGAGAAACTCACCATGGGGTTGTC
TGTCTGTTCTGCAAGCAACCTGATTCTCTTCCACCTTCCCCTTTCTCAAAGGCCAGCTCACAGATACAGGAGTACATTTTTAAATTTCAGAATC
ACCCTCAGTTTTCTCCTTTTTGAGACAGGGTTTCAGTCTATCACCCAGGCTGGGGTGGAGTGGTGCAATCACTGCAGCCTTGACCTCCTGGGCT
AATTTTTAAATTTTTCGTAGAGATGAAGTCTCGCTGCTATGATGCCAAGGCTGGTTTCAAACTCCTGTCCTCAAGTGATCCTCCTGCCTCGGCC
TTCCAAAAGTGGTGGGATTACAGGCATGAGCCACCGTGCCCAGCCCCAAAATTGATTTTTTAACTAAAATCCCCTAAAGTTAATGCTAATGACA
GTAATAGTTCCAGCTACCACTATTGATAATCTACCTTAGGGTTTTCCCAACTTCATCTTTCCCATAGCACTTTTGTGATTGATTTCTGCTGTCT
ATACATTCAAACTATACTATATATATTATGCTATATTTACTTAGCATTTAAAAACTACCTCCTGCCAGTCACAGTGGCTCACGCCTGTAATCCC
AGCACTTTGGGAGGCCAAGGCGGGCAGATCACCTGAGATCAGGAGTTCGAAACCAGCCTGGCCAACGTGGGGAAACCCCATCTCTACTAAAAAT
ACAAAAATCAGCCAGGCGCAGTGGTGGGTACCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTGCTTAAACTCGGGAGGCAGAGGT
TGCAGTGAGCCAAGATCGTTCCGTTGCACTCCAGCCTGGGCAACAGAGCAAGACTCTGTCTCAAAAAAAGAAAAAAAAACTACCTCCTTATCCT
TTTCACTCAAATATACTTAAAAAGGAAGCTACAGCATATAACCACCAACAATGGAAAACCATGGTCATATGTCATAATTAGAAATTAATTGTAG
GCCAGACACAGCAGTTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGAGGGTGGATTATCTGAGGTCAGGAGTTTCACACCAGCCTGACC
AATATGGTGAAACACCATCACTATCAAAAACACAAAAAAATTTAGCTGGACATGGTGGCAGGCAGCTGTAATCCCAGGTACTAGGGAGGCTGAG
ACAGAAGAATCGCTTGAACCTGGGAGGCAGAGGTTGCAGTGAGCGGAGATCGTGCTACTGCACTCCAGCCTGGGCAACAGAGCAAGACTCTATC
TCAAAAATAAATAAATAAATAAAATAAATTAACTGTAAAGGCTGAGCATGGTGGCTCATGCCTGTAATCCCAGCACATTTGGAAGCTGAGGTGG
GTAGATTACTTGAGGTCAGGAGTTTGAGACCAGCATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGCTGGGTGTGATGGCACACCCC
TGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTTCCTGAACCTGGGAGGCAGAGGTTGCAGTGAGCCAAGATCGAACCATTGCACTCC
AGCCTGGGTGACAAGAGCGGAACTCCATCTCAAAAAAAAAAAAAAAAAAAAAAAGGAAAGGAAAAGAAATTAACTGTAAAAAGAAATACCGAAGT
TAGCCAGTGTGGTGGTGTGTGCCTGTAGTCCTAGCTACTCAGGAGGCTTAGGTGGGAGGATCGTTTGAGCCCAGGAGTTTGAGGCTGCAGTGAG
CTGTGATTGCACCACTGCACTCTAGCCTGAACAACAGAGCAAGACCCTGTCTCAAAAAAAAAAAAAAAAAAGGAACACTTAACTAAAACTTTTTT
TAAAGTTCATCCAGCCAGGCGCGGTGGCTCATGCCTGTAATCTCAGCACTTTGGGAGGCTGAGGCAGGCGGATCACCTGAGTTCGGGAGTTTGA
GACCAGCCTGACCAACATGGAGAAACCCTTGTCCCTACTAAAAATACAAAATTAGCTGGGCGTGGTGGTGCATGCCTGTAATCCCAGCTACTTGG
GAGGCTGAGGCAGGAGAATCTCTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCTGACTCCAGCCTGGGCGACTAGAGGGAAACTGCATCTCAAA
AAAAAAAAAAAAAAAGGCCAGGCACGGCAGCTCACACCTGTAATCCCAGCACTTTGGGAGGTCGAGGTGGGTGGATCACCTGAGGTCAGGGGTT
CAAGACCAGCCTGGATAACATGGTGAATTCCCTTCTCTACTAAAAATACAAGAATTAGGTGGGCATTGTGGCACTTGCCTGCAGCCTGTAGTCT
CAGCTACTTGGAAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCTGAGATAGCGCCACTGCACTCTAGCCTGGT
GACAGAGCAAGACTCCGTCTCAAAAAAAAAGAAGAAGAAGGGTAGGGCGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGTG
GGTAGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTTAAACCCCGTCTCTACTAAAAATACAAAACAAAACAAAAATTAGT
TGAGTGTGGTGGCACGAGCCTGTAATCCCAGCTACTTGGAAGGCTGAGGCAGAAGAATGGCTTGAACCCAGGAGACAGAGGTTGCAGTGAGCCG
AGATCGCACCACTGCACTCCAGTTGGGTGACAGAGCTGAGACTCTGTCTCAAAAAAAAAAAAAAAAGAAGAAGAAGAAGAAAAAAAATTATGGGA
GATCATTGTTTTGGGTTGAGCTGCTGCACTTTAGGCCCCAACAGATAAGACCAAACCAAAATGTAGTTACTCATGCTAAATGTCACATAATCAA
ACTGAAACTTTAAGGAAGGAGATAGATCCCAAACAGACCAGTTTTTCCTGAAAACAGGAGATTCCAGTCAACCTGAGTCAGTGTAATATTGGTC
CCCTTTGCTTTAACTCTCACAAAAAAGTCACCTGAAGGAACCTCATGTTAACCAATCAGCTTTTTTCCTATTGTTCTGTTTCCTTGGCCAGTGA
GAGATCTTGATTCTGTTTTGTAGAATGAAAGCTGTACCAATTCATGAATTGCAAATAAAAGCCAATTAGATCTATATCCAAAATTGTTGTCATT
TTGTCTTTTGACACGGTGAAAGGTGAATAGGAGAAACTCCACCTTGGTTTGTATATAAAAATATTATCCAGGATGGTGGCTCACGCCTGTAATC
CCAGCACTTCGGGAGGCCAAGGCGGGCAGATCACCTGAGGTCAGGAGTTCAAGACCAGCTTCGTCAACATAGCGAAACCCCGTCTCTACTAAAA
ATACAAAAATTAGCCAGGCTTGGTGGCTCGTGCCTATAATCACAGCTACTAGGGAGGCTGATGCACAAGAATTGCTTGAACCCAGGAGGCAAAG
GTTGCACTGAGCCGAGAACACTCCACTGCACTCCACTGAGCCACTGCACTCCAGCCTGGGAGTGAGACTGCCTAAAAAAAAAAAAAATCTAGCC
ACAGCCATTATTATCACACTGGATATTTACCAAAGCCTGCACTAGGGAAAAACACCTGGGTCACGGGTTCACTGCTGGTTGGAGGCTGAGCCAA
GAGCAAACTAAGTGTGCTGATACCCATGCCCCTGATTTCTAGGGAGTTCTGTGGCCTTCAGGGAGTCCCAGGGGAGCAAGATTAGAGCACCCAG
TCCCTGAGTGCCCTGCTATCAGCGGCCTTGACAGAGGCGATCTCTCCTTGGTGGCTGGAATCAGCATCCAGGGCTCTGTCAACTATTAGAGAAA
CATTTTATTCTTTTTGTAAAACAAAAGTTCTCTTTTCTTTTCTGATTACAAAAGAAGTTATTGCTGTGGAATCGCAAGATAATCCCCATCCTCT
GGTCTGTCTGTCCTTTGTTCCCATGACTGAACTCCAACTTTTGCAAAACACTTACTTTTATTTTATGTTTTATTCTAGAGACAGGCTCTTGCTC
TGCTGCCCAGGCTGGAGTGCAGTGGTGTAATCTCGGCTCACTGAAGCTTTGACCTCCAGGGTCTCAAGTGATCCTCCCACCTCAGCCTCCTGAG
TAGCTGGGACTACAGGCACACGTCACCACACCCTAATTTTTGTATATACACACACACACACATATATACGTATATATATGTGTGCGTATATG
TGTGTGTGTGTATATATATATATAGTGTGTGTGTGTGTGTGTGTGTGTAGAGATGGGTAGGGGGTGGGTCTCACTATGTTGCCAAG
GCTGGTCTTGAACTCCTGGGCTCAAGTGATCCTCCTGCCCTGGCCTTCCAAAGTGCTGGGATTACAGGTGTGAGCCACCATGACTGCCCTGCAA
AAACATTTAAATTATAAAATTAATGTTTCTTTGTCAGCACTTCATGGAATCAGTACTTCATGGAATTCTCATATCAGCTTTGTATCCTGTTCTC
TTTTCTGGAAACTAGTTCGGAAAGTTTCATTTCTTTTTTTTTTTTAGATGGAGTCTTGCTCTGTTGCCCAGGATGGAGTGCAGTGGCGTGATCT
CAGCTCACTGCAACCCCTGTCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGCCTCCTGAGTATCTGGGATTACAGGTGTGTGCCACCATACCCA
GCTAAATTTTGTATTTTTAGTAGAGACGGGGTTTTACCATGTTGGCCAGGCTGGTCTCGAACCCCTGACCTCAGGTGATCTGCCTGCCTCAGCC
TCCCAAAGTGGGATTACAGGCATGAGCCACCGCGCCTGGCCAGAAAGGTTCATTTCTTTAACTGTTTGGGGAAATATCATTTATTCCCTCGACA
AATACTTTCTGAGTACCTACCATATGCCAGGGAATAGTCTAAAACT

HUMAN SEQUENCE - mRNA
CAGCCTTATAAGCTGAGGGAGTGGAGAGGCCCGGGGCCAGGAAAGCAGAGACAGACAAAGCGTTAGGAGAAGAAGAGAGGCAGGGAAGACAAGC
CAGGCACGATGGCCACCTTCCCACCAGCAACCAGCGCCCCCCAGCAGCCCCCAGGCCCGGAGGACGAGGACTCCAGCCTGGATGAATCTGACCT
CTATAGCCTGGCCCATTCCTACCTCGGAGGTGGAGGCCGGAAAGGTCGCACCAAGAGAGAAGCTGCTGCCAACACCAACCGCCCCAGCCCTGGC
GGGCACGAGAGGAAACTGGTGACCAAGCTGCAGAATTCAGAGAGGAAGAAGCGAGGGGCACGGCGCTGAGACAGAGCTGGAGATGAGGCCAGAC
CATGGACACTACACCCAGCAATAGAGACGGGACTGCGGAGGAAGGAGGACCCAGGACAGGATCCAGGCCGGCTTGCCACACCCCCACCCCTAG
GACTTATTCCCGCTGACTGAGTCTCTGAGGGGCTACCAGGAAAGCGCCTCCAACCCTAGCAAAAGTGCAAGATGGGGAGTGAGAGGCTGGGAAT
GGAGGGGCAGAGCCAGGAAGATCCCCCAGAAAAGAAAGCTACAGAAGAAACTGGGGCTCCTCCAGGGTGGCAGCAACAATAAATAGACACGCAC
GGCAGCCACAGCTTGGGTGTGTGTTCATCCTTGTTAAAAAAAAAAAAAAAAAAAAAAAAA

HUMAN SEQUENCE - CODING
ATGGCCACCTTCCCACCAGCAACCAGCGCCCCCCAGCAGCCCCCAGGCCCGGAGGACGAGGACTCCAGCCTGGATGAATCTGACCTCTATAGCC
TGGCCCATTCCTACCTCGGAGGTGGAGGCCGGAAAGGTCGCACCAAGAGAGAAGCTGCTGCCAACACCAACCGCCCCAGCCCTGGCGGGCACGA
GAGGAAACTGGTGACCAAGCTGCAGAATTCAGAGAGGAAGAAGCGAGGGGCACGGCGCTGA

TABLE 36

MOUSE NOMENCLATURE
ICSGNM Zfhx1b
Celera mCG8151

HUMAN NOMENCLATURE
HGNC ZFHX1B
Celera hCG19701

MOUSE SEQUENCE - GENOMIC

CATAGCTTTGGCCAAACAGCATAGCTTTGGTCCTGAGGGTAGACTAAAGCAGTCCTAAACCTTTGTGTCTTTCCCAGCTTGCTGAACAACCCAA
AGTAGAAACAGAGCGCCTACTCAGAGTACTAGCAGTTTTAAAAGTTTAAACTCCACACAAGTTCTTTTACAAAAGAGTCCACCCTTTTATGTAC
CTTTAAAAACATTTAGCCACTTTATTCCTTTGTGTCTTTGAAGAGGAAAAAAAATTAATAAAGTTGTAGGGTCCTTTTGAATTTAGAAAACGTT
GGCAATGTGGGAAAGAAAGGCATTCAGCATTTCAAAGTTCTGGTGAGGAAGGAAAAAAAGATTCTGAATAAAACAATTTTATGTGATTTTGCAG
GTGGTTTGAGCTATCATTTTATATGTACGTTTGTACCACTGCTCATTGGAATGTTCATATAATACTGACCTAATTATGCATAGAAAAAGATAAG
CCATTTACTTGATTCATTTCTTCTTTTTAAATCAAGAAAGGAACAAAAAGGCTCCTATTTTCTGAAAGAAATTGTTCGCTTTTATTGCAGAAAA
GTAGCAGCTTGTGCAGAGCTAGAACTGTAACAATTTTATATTCCAAAGGTTTTGTGTGTATTCGGTTAGTTACAGTAATTATACCCAATAACTG
ACAGCCAAAATCACGTAGGAGAAAGCAAAGGCTGTTTTCTCACACGGGCCCTGCTGCAGAACATCTGCTGAGAGATTTGCATATTAATTAACCC
ATATTAACTCTAATTATTCTGGGAAATTATCAAATAAATTGAATTTTCTAATTTTAACCTTTCTTTTACTTGACGCGTGTCGAGGCTGAGAGGA
CGCACCAGGCCGTCTCACCTGGGCAATGAGCAAAGGCTCTTTTCTCCCCCTTTGCTCCTTTAGGCCTGGGGCAGCCTGGGGAGCCTTTGTGTGC
CTTGTGCTTTTTTGGCTTCTGTGCTTGGTAGGGTCTCCGTGCATTTGTTGAGAGAGAGAACATGTGTGCCTGTGAGCACAGATGGTGGATTTAT
ACAGGGGTGAGGAAAGGTGCTACCTCAGAACACTTGAGCAAACCTTAAGTTGTTTTTGTGCGTTGTTTTGTTTTGGGTTTTTTTTTCTTCTTTC
TTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCCTCCCAGCCTGTTGTTTAGGCCTGAGCAAATAA
ATGGGAGTTTAATTCAATTAGAGCCTGGCTTTAGTCAGTGCCTCATGACAGAAATTATTCAATATTTTTCCCCTCACATTGTTTGGTTTACACA
TCAGTGACTCCCTTCCTTTTGTACTCTGTTTAGAGTGGCCATAATGTGTTGAGCTTTTGTGTCTGAGATGTCACTGTCCCTTTCACCGTTGTCT
GGTTCTGTCAATTGTGAGGTGCAATGACGCTATTTTGCAAACAGGCCTCTGAGAAGGGTACTGCTATGTTAGCCGAGGTGGCTTCACAGTAAAT
TATTTTATTAGTCTCACAGACCTGAACCTAATCCTCTGGGTAGGGAGATGAAGTTTGGAAGTCATCCTTGGGTATTAGACGTAACATAAAACAG
AGATTTCTAGGACAAATCCTGTAGGGGCGGCATGAGGAGCTCAACTCACTGGCATGATCTTGTTTTAGGTGTTTCTTTGGGGTAAGAGACAAGA
TTTACCAAGATTAAGATTCTCTGCATGTGATTAAGTTTGTAATGACCCATGGTTTTAAGCCATGGTGATCAGGCGAAAACTACTGATTTAATCT
GTATGAGGAACAAAGTCTTCCACAACTGCTTTCTGTTGAGCCACACCTCTCCAAAGACAGATGACTCTGTATTCCCCCAATGATTTCACTGCCC
CTACCCACCAAGATTTATTAAGGTGATCCACACCCCTGGCTGCCTTACAGGGGATTATTTTCTTCTGGAAAAGCTGTCCTTCCTATTATTCCAC
AGCTGGGTTAGACACACCGCTGCAGCCTCACAGAACATTACTTAGACCCAAGAATTATTATTGACACCAGTACACTGCAGCAACCAAGAAACTC
ACCAAATAGGTCTGTCCGACTGACACATACTTGAGAACAGTTTGTTTTTTTTTTTTTTTAATAGATTGACTAGAACTGGCACAGAAAATCTTT
TGCTGGGAAAACATTTCTTTAATATGTTTTTACTTCACGTGAGGATATAGATTCAAGTTACTCTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTGATTAATTTGGTGGGATGAAATGGCTAAGTGTATATCAGTATCTGTATCTTAGAAAACTTCGCTATCACAGATGAGGTTCACGGGTGGGGCA
AATCTGTAACAATTGGAGAAAAATATTAATAGTTTTTCTAGTCTGTAATTTTTTTTTTTACAAAACATTCCAAAGTATCCTGAAAGTTACTGAC
CTTACACCTTTTATGGACTTTGAAAGTTGTGTAACCTTTTCAGGGGAAGGTGACAGACACAATATCTAATTACACAAGGACATACTTCCCATCT
TGTGATACTTGCTTTATTCAAGGTTTTATTCCCAAGGCCTTATGACTATAAAACTTAAAGCTAGACAAGGTCTGCCCTCATTTCTGATAAAAGA
AAAACCCCAAAACAATTCTGATGGCCCAGAGCATATTATTTTCTACTTACAGGTCCTAAATAAATTACAGTTCTTTTCACATGCCTCAGGAATG
GCAATGAACATTCTTTTCATGTTGCCTCTTATGACTTTGCTCGGGCCGGTTTACATATAGCAACTCATTGCATGATCATGAAGCCCAATAGTTA
GAGAATCTTCTAAACTCCTTTTGCTCTTTGGACATGCTGTTGGTAGACATAAATTCATTTGGTATTAATAAGAGTAATAAGGCTCTGAAGAACT
GATGACGAATAGATACACAATGTATATAAAATGGATTTGTAGAGCAATTGTTTTGAGGTTTTCCAGAAACATGCTATCAGGACAGGCTCGCTGA
TACAGGTACTTTGGGACACATTGTTTAGCCAGTGATGGGATTAGCTATGTGGTCTATCTTTGGACTGCAGATATAGACAGGGAGTGAAGCTGAA
AAACATTCTGAAGGATGGAAATAAAAACTACAAAGACTTGCTGGATAAAAACAGAATGGAGCATGCTTGAACCAACAGTACAATGACTACTTTC
CTTTGGCAGGGGTTGAGCAAGGTGATCACAATCATTGAGTCATAGATATACAGGAAAACCAAACATATTTACTTTAAAAAGAAAAGAAAAGAA
AAGAAACAGATGTCAAAGCTTTGGGAAATCATGGTTTTTCACTTAGAACACGGTGACCTGGGAATAAAGTGTCTTGTATTAAAAGATAACTGAC
TTCACTATTACACATTCTTTGACTAATATCTGTTTTATGGAGATGGCAAAGGGAGTCTTGCTTTTGTTCACATCTGCCATCACCTTTTAATGTT
TCCTATGTTAAGCAAGAAGTTTAGAGGGGAAATCAGATACCTAAGATGCCACTACCATGTGCAAGTTTAATCAGAACCTCTATAACTTTATGGA
AATTTTCTTTTTAACAATCAGTATCATACTAAAATTTGGAAACAGTAGTGATTCCAGTTGGATGAGAAGCTGCCAGTCTCCCTAAGATGCTCCT
GTAACAGGGTGGGGGGACCCTCAGAATGTTCCCGCCCACAGAATTGTGGCAAGGCAGAAATTCCTCTCTTGTTTCATTTAATATGCATATTTTT
ACATAGCTAATCTGAAATGGAAACATTTTATCTCTACATTCAAAACTGCTTTTGTTTTATCAGCTGACATTTTACAACTCATTAATTTATAATG
CAGGTTTAATGCCTTTGAATGTTCCTGGGATAAAAATTAAAGTGACCAAGCTAGTTTATAAAGGCTCACTATAGTACGTTGGTAATAATTCTTT
TATAACAGTGTGTTGTACTTAATAGTGCATTCCATTTGGATGTTTTCAGTTGGCATAGTCTCTCTCTAGTATTAATTCATATTTTCACATCTGG
GTGATAGATAAATCTCCTCCTGTATTAAAATTTAGAAGTTTAAGTTCATGCACTTTGATGACATATGCTCAAATTTGGAAGAAAATCTCTGTTT
GAATCTGTCTTTGCCTTGTAATGCTCACTAGACCAGATTATAAAATGAGATTGGGCCTTGAATTTGATCATGTGATCTTGGCCCACCCCAAAGC
AGAGAGAGTTAACAAATTAACAATGATGAAGGAAAGATGTTCGTGATGAACTTTCCCCAGAAAAAAAACAAGAGTCACTGGGAAGGAAAAATCC
CTGAAAATAAAGGAGCCACATCCTGTCCTGAGTAGCACATAGTCAGAAAGCAAGATGCTTAGGGGTGGGATAGGATAACACCTCACCAGAGTTC
AGATGGAAAGTCTAAGGAAGTCCTACCACCTCTCTACCCAGAAAGACCAACTAAGGAAGCAAGCCAGGGACCTCTGCTTACAGCTCCACCCAAA
TTAAATGACCTCCAAGCTCTAAAACAATAAGGAAAGCAAATGACTCAAAATTCCAAAGTCCTTCTTTAAACTCAAGGCTGTATCATCAGTGGGG
ACATTTTAAAATTGAGGCTGCATGTCTGGGTCACATGTCAGTAGCAAACAAGAGAGCACTCTTGTCTGACTCTGCCTTGAAGCTACCTTTTCAA
TGACAACCAAGGCGTGGCACTACCCCTAAGTAGTGGTTGGTAGATGGCTGCACCTCCTTATAGCTTCTCCACATTGCAAGCAAAGGAAAACACC
AGGGAGGTAGTCTATCTTTGTTACAGCAGTGGTTCTAACAGTTGCATCACCCTGCATTTCCATATTAGTGTGTCATGCTTCACGAAATGCCATC
ACGTGCACAATTTTCTAGACTCCCGTGACAATCTCGGAAGCAGGGAACCCATTATCATTATTTTTACCCATTTGAACGAAGTTTCCTTGGGTGA
TAGACCAAGGCCACACAGCTGGTTACATGTTGGTGCTGGGACAAGAAGGCAAGTCGCAAGCTCGTAATTCTGTGAACTGCCTCTTTATTTCCAT
TGTTTCCAAACTACTGCAGGAAACAAGGGTGTATTGTTAGATTCTGGTAATTGATCAAATTGGTAGGCTTCTATAACTCAAATTAAGGGGATCC
ATGAAAGTAACAATCATCAAAACAATTTAAAATTAAGCATCTCCATCTTACTGCACAAAAATCCCCCCAAAATCCCAGGGATTTCCATTCTTTT
ACTTGTGTAGTTTAAATTTAGATTGCATTCTTTGCTGGAAAGTTGTATTATTATGCATTTTTTGAGTAGCTATTATTTTTGTGAAGATTTGCTT
TCTTGCTGGGGCATTGCCACCAAATGATCATGTGGCCTTTGCCTGGTCATTTGGCCTCAGTCTGCCTGTGTTACCTTCTTTGTTACAAGTCACT
AGCTGACCTTGGTGTCCCTCTAGCACAGTTTTGGGCTTCTGTTTCTCTAGGTAACTTGACTGTAGACTTCGTAAAGTGATCAGTGCACCTCCTT
GTATTTTCCTAGGTTTATTGTATTGTAGGTATTTAATAAATGTTTGATGATGGCATTGAAGATCCTATTGGTACACTTAACTTGAGCGATTTAT
AGGAAATCACTGTTGACCGCCTTATTAACAATTAGCTGTCTATAATGTGCATATGTAATTTTCCTTTACATCAATAAAACTTCTGCTCCTGCTG

TAGATGAAGTACTGTCCCTTCTCATCAGTTCTTTCGAATGTTAATACATTAGCTACTGATACCTTATTTGTACCGTAACTGACAGAATAATGGA
GAGAAAGAATCTAAGTAGGAGAAGGGGTTAGTTAGGTAACATTGTATAGGGCATCTTCAAAACAATAGTCCTGCTGTTTCAAATGTCAAGCTAA
TTATCAGCAATGTTTAAATGCTATAATAGGCCATTTTTGCAAATGTTGAAATTTTCCAGCAGGTATAGACATTATAAAAATGTCACATTTTGCT
ACTGTTCTTTTACATGTCACAGGAATACAAAACTCTGAAAATAAAAGTTATAGCTGTGAAAAATAAAGAGAAGCCATTACTTATTTTGCTTATG
ACTATAAAATTAATTGTCACGTTGATACAATTTAGAGTACTGTGTACTTGGGAGAAAGGAGAGAGAGGATTTAATAGAATCTGGCAAGGTGAAA
ATAATGCTTATTATAGATCAACTATGCAACCTTTTAAATACAGGTTTTTAGTAATGCGTATTCAGATACATCTTTCCGAGACTGTTTGCTATAA
AGCAAATTTAAGCATCATTTTATACCCTTTGGTAACCCCACATCACACATACAGTTCTAGAGCAAATGAAACTTTAATATGATTCTACATAAAA
TAGTAAGCCATGCCAATAATTCACATGCACTTCATATGCAAATAGTTTTGTCTTATCCATCAATTATCATGTAAACATGGTATCACATGGCAAA
CCTCCCTATAATACTGTACAGTACCTGTATATAATTATGAGCGAATTTTGCCAATGCGACAGTTTCACAGAATTGTAATTAATTCCTCTGAAGA
TTACTGTGAGAGTTTTGGATACTGATGCTGTTTTTGGACATTTATTACTGCTCTTTAGTTGGCTTTTTGCTGTGCCTCAGAGACAGATGTAAAA
TTAGTGTCTATTTTGAGCCAGCAAACAGTACATCTTCCTTCTTGTTCATTGAATTGCAGAGAGGAATTCTTTGGACTCCCACTTCTTTGTGTCT
TTTGAAGTAATTGTTTTTGTGCTAGCATGTAGCATCAAAACATGTAGAAAATTGTTTTGTTTATGCTCAGGGTGATATATATGACCCCATACAAT
AACCAACCAGACTTTTCTAAAGTCTATGGAAGGATCTACATGCTTAAGTTTTTAAAATAGTTTGCAGTGTAAGTTCAACAAACAGGTACTCTTT
AATATATTCTGCCCAGTGTCCTTCATTCAAAACCTGGACTAGTTATTTCAGTAAATGCCTTTAATCTAAGAAGACATAGGCAGGCAGATCTCTG
TGAGTTCAAGATCAACCTTGTCTACATAGTAAACTCCAGGCCAGCCAAGGCTACATAGTGAAACTTTGTCTTTAAAAAGATGTATATGGTTAGA
AAATATATTGTTAGTTATTATATAAAATTAAAGCTCTTATTTATAGATAAGGTTTAATAGAAGTGGGGCTAAGTCCACCATATACTAGCCTTTC
TATAGGAAAAAAAGTTTCGTTTTATTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTATTTGATGAAAATTGTTCCCAAAC
TTTCTCTGAGAAAAAAAAATCTAACTTGAGGGAAAAATCTAAGAACTCAAAAGAGGGGATAAGATGGAGAGCCTGGGTGCAATCAGTGACTTTA
ATTGTAATCATCGGTGCATCAATCCAAAAGAACAGAAAGAAAGAATCTCATTTAAATTCTAAAGTAAGAACTAAGTTTGCTATGAATTACTTTA
CCTGGATTAACCAAAAAAGAGGAGGGGGGTAACACAATGGCTTATGGGCATGACTATCCTACTTTGCCCAGCCCTGGAAAAGATGGCGTACTGC
TTCTGTAAGTGGACTTGACAGCAGTTATTTATTTAGTTTAAAAGTATTTACTAGTATTTGTGAGTGGAAACCCTAAAGGTTGTGCAGCTTTGTT
GGCCTGTGAAGGTGATGGATGCTGCGCTCCTGACCCTATATGGTGAGACATGACTTCATTGCTTGTTTAGATTGTTCTGATATTTGGGACTCCT
TAAGGGCTGTTCATAAATCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTGTGCAGAAAATATTTCAATTGTAGTGC
TGCAGGAACACTCACACGTCACATGGGATATTGTAGCCCATGCAGAAAAGGACCTTAAAAGGCCTGGGGGGTTTTGCAGGATAAAGGCCTTTTA
ATGCCTGTCCAGCCTTAGATAATTTTATTCTCTCCTTACTGGACCTTTCTTTATTCCTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCACACTCTACCCCCACTCAGTGTTCAGAAAATTTGTAAAGAATCTTCTGCTCGTTGC
TAAGAAATGGTTAAATCTCAGTCACCAGGGGGAAAAAAGAGCGGCACATTATTGATTGTCCTAAGGTATATGTGGGCCACACAGCTAGAGCAGA
GACGTTGGAATATCTCTCTTTTTGTAGATCTGAGAGCATTGCCCAGCCTGAACTTGCCTAAGCCCTTGTGGTCACACCTCTTGAAAAGGTTTTG
TTTCCCCCGTCAATTGGTATTCAAACCAGGTCAGCAGATTCTGTTTGCCCGGCTCTACTGCCGTTTTCATTTTAATTTGCACCTGTTGTGCAGT
TGTTCGGAAGGCAAGTGCAGACCCGCGGATTATACAAAGATCATATTATGAGCAGATATGCACGGTGTAATCTTTTTGTCCCCAGCCTCACATG
ACAAAAAAAAATCTCTCTCTTTTTGTTCCTTTTTTACTCCCTGGGAACCTGTCAAAGCAAACAGATATGACTGACTAAAATTTGTAACTAGACA
TGTTTCCAGAATTCGCCAAAAGCATTATGAACCTGACACACAATCCTTTTCATTTTTTTTCCCTCCTTTTCCGCCACTTTTGTATAATCCGATA
GCTGGCGAGAGCCACTTGAGATAGCTCAGTTGATAACTTAGCGCAGGATTGCTTTATTAGGCTCAGAGAAATCAAAATGAACCTGAAAATTGTT
TGCGCTTTTTTTCCACTGCCTCCCCCCCTCCCCGTCTCTCTCTCCCTCTCTCTTTCTCTCCCTCTTGTTCCCATGATGTCATGGTTCTGACT
TGTTTTTGTGTGTGTGTGTGTGTGTGTTCTGGAGAGTTGGGTTAACAGTTCTTGGCAATCCTGTGTGTGCGTAACGGCTGGTGTGTTTC
TCTAGCTGAGCTAATGCCCCGTGTTTATTACTCTAATCTTTCTTGTCTGGTGGTAAAGTGGACAATTTATGTACTAGCATGTAGGCCGAGAGCC
TGTGAGGGCTGACTAATTCAGAAACAGCCACCTTCAATTGAGTTCACAGACCTTATTTACAGGCTGTCTATTTTAAGAAAAGCTACTGAGCGTT
GTAGGGACTGCAGGCTGCAGAAGCAGCCCGCCCGCTCTTGTGAATTATTTTAGCATTTGTGTTGGTCTTGCCCGTGTCACTTTGAAATCTTCTG
TAATTATGACACTATGAAGACATCTCAATAGTAGTATTAATGGCCCAGAAGATATGGCTTTTCCTCATTTTCTGCTTAAAAGATGAGGACATAA
ATGACCTTAGCTCATGACGGTTGAAATAGAAGAAAGACTGAGCATTTCAGACTGTACTGGTTTGTGTATGTGTCTGTGTATTGGGCAAATAGAT
GGAGAGAAAGAGAGAGAGAGAGAGACAGAGAGAGAGACAGAGAGAGAGAGAGAGAGAAACTGTTTCTAGGAACAAAACTACAGTTAAATTACT
GAAGTCATCTTGTATTTATAGTACAACCTTATATAGTAAACACGTCATGTCACTGAGCTAATAAAACTGTCAACTGTAGATCTATTTTATAAGT
TTTTGTGAAGTGTGGAAAGTCCAAACTGCACTATGTCTTATTATGTGTGCAATATAAGCAGAATTTAAGCATGTGTACCTCTGTTGCCTTTAAA
ATTTTCCATCGTTTTCAGCAAAATATTGAAAATAAAAAGAGTACACAGCTATAATAGAAATAAGAATACAAATGCTATGCATTGGGGATATTGA
TCATGTTTTCCTGACATGGTTGAGTAATTCAGTTACGAAAATATTAATTATTTTCTATTCACCTGAATATGTGGGGGCACTGGTATTTTCAAAG
CAGCATTTTGAATGTGCCTGTGCATCTCTTCCCACAGTGGTGAACTATGACAACGTAGTGGACGCAGGCTCGGAGACAGATGAAGAGGACAAGC
TTCACATTGCTGAAGATGATAGCCTTGCAAACCCTCTGGACCAGGACACCAGCCCAGCTAGCATGCCCAACCATGAGTCCTCCCCACACATGAG
CCAAGGGCTGCTACCAAGAGAGGAAGAAGAGGAGGAGCTAAGGGAGAGTGTTGTGGAGCACAGCTGGCACAGTGGCGAGATTCTGCAAGCCTCT
GTAGCCGGTCCAGGTAAGTGTCTGTCTGTCTGCCACTGTGTGGCCCCTTCCTGGGCCACCTGCATGTCACCTGTGCTTCCCAGCAGAACACCTG
CAGCCACATCATTCAAATAGTTCTTTCCATCGCCCTTCTGGAGTAGAGAGCAGAGCTGTTGGCAGATGATGAAGTGATAGCAATGTGGTCACAT
CACGCACAGTACTCGGATTTTAGGAAATGATTGTGTATTGGTTTCAACCCAAGTTGGATATCAACTCTAGTGTAACAAACACAAAACATGAAGT
ACTTGTACATTTTCAATGTGAAACATTACAGAACGCAATCAAGATCTCTACTCTCATGACAGAAAGTATAAAGAAATACAAAGGCTTCTCTCTC
TCTCTCTCTCTCTCTCTCCCCCCCCTGTGTGTGTGTGTGCGCGCGTGCGGGCATGCACGTGTGTTTTGTGTGGGAATTGTGTTATTTCAAAC
CACATAAAACTGTCAGTTCGGTGTACTTCATGTCTGACACCTTCTATTGGAATTCCTTTTAATTCTATTGTAATTCCATCTAATCATTCTTTTT
TTGTTAAGTGTGAATGTGATTTCACAGTTTTACCTGGTCAGGTAGCTTTCTTACTATTTAACAGTTAAGTACTCGATAATGATTCTTACTGTTT
GATGGTCATCTTAAGGGAAGTTAAAAAACAAAACAAAACAAAACAAAACAAAACAAAACAAAACAAAACAAAACAAAAAAAACC
CAACCAAACAAACAAACAAAAAGACCGGTCCAGTGCCAACTGTGATAGAAGTAAAACAGATCAGTTTCAATCTGAAACTTCCGATGTCACTGCA
CAAATGGAAATGCCTGAGCCTGAAATTCCCCTGGAGTGGAAGACAGGGCATGCTAACGAAAATCCAAGGGCCTGCCTCGGAAGCTTAAGTGGCC
TGTGAGAAGTTTTTTAAAAGTCCCCTCTAATTCAGACTTTGTGTCTCCTTCACCTCTATTCTATGACCTAATAAGAATTACCGTTATGTAGCCC
ACCTTGGTTTTGCGTTGACAATATAAATAACTACTGTTTTTGTTTGTGTGTTTGTTTGTTTGATTGATTAATGTGTGTAGCG
GGCCAGACAGAGTTTAACTTTACCTCTCTGTTATTGTGGTGTTGCAGGCGAGCAAACACTGTACAGAAGCAGAGCAATTGTTTGCTGTGTGGGA
AGGATAATAAAATCAGGTCTACTGGTAAAGAAAATTAAGTGTGTGTGTGTGTGTGTGTGTGTGCTCGCGAGTGTGTATGTATGTGCGTGCGT
GTGCGTGTGCGTGTGCGTGTGTGTGTGTAGGGGAAGACTAATGGCAGTTGACTGTGGTGTATTTGTTTCTCATTTCCCTAATACACCGTGCCA
AGTTTGGTATTCTTTCTGTTTCCAATTTTGCTTTCGGTGAAGGTTTCTCGAATCTCAGCAATCCCACACATAAACATTTATCGTTACATCCATT
AAGACTTAAGGTTTTAGATTTTCAACTATGAGGGAGAACTCAGCCAAAGATGCTTGAAAGATAAATACGTTTAATTAGGGGCAGAGGATGATCA
TTAAAGGAAGTCTGACTGCTGCAGAAGTCATTAACAATCTTAAATGAAATTTTTATTTTTATGATAGCCATTTACATGTATAATAAGAGCCAAT
GATTCTTGGGAGCAGTGTGACAGAAACAGAGTGTGGCGAGAACTCATGTAAGACATACTATTTAAATGAGCTGGTGTTAGCTATTCATATTTGT
TAATGAACTAGATATGCAGGGCTATAAGAACAAATGTTCGGATGCTTTAAATTTTAATATCCAGAAATCAAGGGTAAGGACCAATTACCAGAAT
TTTCACCCTTAAAGGAATAATTAATAACAATATAATAAATGTACAGCCTCAAACTTCTTTTTAAAAAGTTTAATTAAAAAAAGAAAGAAAGAGA
GAGAGAAAGAAAGAGAGAGAGAAAGAAAGAGAGAGAGAAAGAGAGAGGGGGAAAGAAAGGAAGAAAGAAAGAAAGATAGAAAGAAAGAAAGAAA
GAAAGAAAGGAAGGAAGGAAGGAAGGAAGGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGA
AGTCGATAGTCGAGAAACAGCCAAAACAGCACTGTCAGGCTATAGTAGTTTGTGACTGTAGCAGTTTTTTTGTGTGTTGGTCATGGATCATAAT
CTCAAGCATCTCAATGTACAATGATCCATACGAATCCCTTACACAGCCTGCTGTCACCTGGAGTTAATGGAGACAGTGATGTAAATGCTCTTAC

CTTTATAGTAAATAAACAAGCATTCTGGAGTCCAAATAATGAAATAAAATGTAAATCCTAATCTCTTTAGGACAAGAAAGTGACCCAGCTATTA
CCTGTCTCGTTCTGATGATTAGTGATGATTTACTGTTCTCTTTTTTATTATTGTTCTAAAAGCGCTCTGATGTGGTGCCTAGATGTCTAATGAA
AAGAAATTAGTCTTAAAAAGCTCCTCATTGTTTATCCTGACTTGTAGATAACACATTTTTCTTCTGATAAAATATTTTTCTTATTTATTGTTCA
AAACACACACTATAGACAATAACTCTAATTCTGGTGTGTTTTATTTAGGAGTGTTTTCTCCCCGGTGCCTGGCTGTCTGCAGTCCTACCTCGGC
ACATAGCTTTCCCCTGAGATAAGCTCCTCTCCTTTGCTCTTTCTCCCCTCGCTCTGTAGTTTGTCTGCAGGATGCAGGTTTTTGCACTGAAGAG
TGAGGCAGAGTTCTTACTGTGCCTTTCCGGTCCTAGCACAATCAAAGTTTTGTGTTTGGAGCTGTCCTTGACATTCTTTCGTCCCACAATGGGG
TGGACACAGTGTGCTGGAAACCATGACATCATTATCATGGACACAGACTTAAATAAGTCACCTGCATCTCAGCCTCTTTTCTGCTTATTCAAGGA
TTCTTCATCCTACAGAAGGAAGTGTTCTTTATTTTTACAAATGCACCCTTTAGCCCCAAGGGTGACTGGAAAGTGCAAACTTTTACAAGTGTTT
GAAAAATAAATATACTATGTGGTTTTAGACACCGTAATGCTGAGTCAGAGGTGTCTTGAAAAAGGTTAAGCATGAGGAAGGCGGCCAGTGAGGC
TTGCCAGGAATTGAGGGGAGGCATTCCTAAAGTGCTATCATTATGTCCTCTTGGATATGGATTCACATGGACCCTAACACCTGAGAAGGCTCAG
TGACTCATCTAACTAGAATGAGCTTAATATTCCAAAACAAAAATGGCCGGGCTCAGCAAGTCAGCTGGGGTAAAGACATTGCAGGTAAAAGTGG
CACCAACATCTCTAAACAGTGTGCAATCTTTGGGAAAAGCGGGTTATAGCTAGACAATGCACAAAGGGCCTACTATTCGGCTGTGCAAATGACA
TTTATGAATTTGGGAAACAGCCAACTATTGTAACTTCTCTTACCTTTTTATAAGAAAATGACTATGAGGAAGGATGTCCAGCAGAAATAGCCAA
TACTACCACCATTATTTAAAGAAGTAAAATATAAATAAATAAAAATAGCTGTTAACCGTTTTCCCTTCGGTGACTCAGTGTTCTCTCAGATGGA
AATCTTATGATTCTTGTGACTCTTGGTTACCGGAAGTCATGTGAGAGAGAGGTGTGAGGGCGAGAGGCCCAGAGGCTATATTTATATCTAGTAC
TGAATGCAGACATACCTATTTTGTTTCTTTTGGGGACCAATAAAAATACCAAAAAGAGCTTCCCAAAACATTGACTATTACATTTGACAACACA
CCGTTCCTGTGTATTGAACTTCCAAATGTTTCATGCAAAATATCCCTGTGAAAATATTCCTGGAATAAAGGAGGTGCCTAAGGTCAGGAGTTAA
TTTGAAGTGGGTGCACAGTCTAAATAAATATTATTAAAATTATGTGACTGTTTTGAAAATGGCATTACATTACTCTCTCTCTCTCTCTCTCT
CTCTCTCTCTCTCTCTCTCTCTCTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATCTGATAGGAATGTGCTCTTTCAGCTTTG
ATTCTATATACAGATAGATTCAATTTTGCTATAACGTTTTCTAGCCACTGTTTTTCCACCAACCACAGCAGTGTATTATGTGATAAACAAAAAA
ATGATCAGGATACATCTGAGAAAGAGTTCGACTCACAGTTCCTGGTGTTCTAAGTAAAAGGATTACAGTACAGAAATCCTCGCCTCGGATCATG
GTCTGCTCTCATTAGTATTGTACTGTACAGCTACAGTTTCTGAGAGTCCATGTTATGTTTGTTTATTTGAAATATTTTTAACTGGCAGGCTGCC
TTGCTCTGCCTTCCCACATACTCTATAATATAGTACACAGAGAAAATTCCCATTTTTCTCCCTTATTTGAGAGTATTACCATTTTCAAAAATGG
CCCTTAATCATTCATGAATTTCCACCTTCAACATTACATATTTTCATCTTAATTAAAACATTGAGCTACTGTTTTCTCTCTATTTTTTCATCAG
GAAATGAATATGATTGCCTGTGGAGGCATAAATGCTCAAAACAAAAAGCTATTTATAGAAATGGGGAGGTATGAGAAATAGACTTTAGAAATTT
ATGTAAAACAGTCAATGGTTATTTTTAATACATCTGAGATGTTAGTTTGTAAAATCTAAGTATTCCAAGTTATGATATGCAGAATTGGGATTTT
CTTTTCTTTTTTTCTTTTTCGAGACAGGGTTTCTCTGTGTAGCCCTGGCTGTCCTAGAACTTACTCTATAGACCAGGCTGGCCTCGAACTCAGA
AATCTGCCTGCCTCTGCCTCCCAAGTGCTGGGATTAAAGGCGTACACTACCACTGCCCAGCAGAATTGGGGGTTTTCTTAAAAGGATACCAGCC
TATACTAACTCCATCATAGCTATACCAAGCAGAAAGAACATGAAAGCAAAATGAGATATTCTGGCTTGCCATGAAGCACCCAGAGACAGCAGCT
ACTGTGTCTCTTCATAAGTTCAAATACTTCGTCACTTTTGACTCAATCTTATTGAAAAAAATAACATCTCCCCCCTGTTTGTCACTAGAACTGC
CACCAGAAGAAAAGCCCTTCGTTTGCTTCAAATAAGCACCTCTGTTTTTCACAGCTTGCAGTAACGCTTAAAGTAAATAAGTTCTTGTGCAGCC
TGCACTGTTGAATTCATTCAGATGCCTGAACAAAGCTTTTGTTTAGAGTTTTACAACAAGCCTCACTGTTTCCCTTCAAAGACTCCTCCTTGTT
CCTATGTTTGGCATGCTTAGAATAGTAAGCCTTTCTGTAATTTTCAAATGCTAAAGATAATTTTCCCCCACAGAAGAAATGAAGGAAGATTATG
ATGCAATGGGGCCAGAAGCCACGATCCAGACCACAATTAACAATGGTACAGGTAAGTTACGTTCACATAGCAACATCATGTTTGTTCTGTGTCA
TGTGGTTTTCCTGAATCTGATAAAACACAGACACATCCATTTGCACCTCCATGATTAACAAGAAGTTAGACTTCACAGGTCTAGTTTTGTTTCA
ATTTTGAATTTGCCATATCTCTTATTTTATTAAGCAACTTTGTCTTCCATTCTTATACCCTAACTCGCCTCTATAGCTCGGGAATTTTGAGTTT
TATGAATGGACATTCTTACAGCATGATTTGTATGGCTTTCTAGTTTTAGCTTTTACTTTAAACATAATTTTTATATCATAATATAATATGCTGG
CCTTAGCTACTACTTGATATCTGTCATTGAGAATTCAAGTGATATGATGAAGTACAAATTGAAAAGTACCTTTCCCAAATCCACATTTCCATAA
ATTCCTTAAAAAATTTTATCACTTAACTTCTCTCAGATTCTCTCTTCACTTTTAAATCTCTGCGTCTACTAGAGGTATCAAGTAATATTTCTCA
GACAGACTTTTAAACAAGAATTAAATAAAACTGATGAATAACCACTCAGGACACAGTAGGCAGTGTTTTCCTTGGCTCTGCTGTGGCTGGTTAA
GGGTGGCATTCCATGTTCGCCCCCAAACAGCATCTCTTCTCACAGCACAAGGTGACATAGATTCACTCTGTGTGTATCCTTTTCTGTATGGCAC
TACCTTCATGTTTCAAACAATCCTCCACACCATTGTAACACCATTACAAATGTTAGCACAGTCCCCAATACAAAGTCATTCCCTAAAATAAGAC
AAGAACAAAAATCACATAACTGTCTCCATTCAGCGTGCCAATGAAAAAAGTGTGCACTTTAAAATGGCTTCAGAAGTATATTTAATTAAGATGA
CATTCACATTTCCCTTAAGTCGATATGCATCATAATATACTGTTCATGCTGTCTATAAATATGTTTATTAACTACTTAAGAGATATGGGTTCAC
TGTCTTGGGTATAAAGTAAGTGAAACAATTTTCTAAAAACTCCTGACTTACTCATTTGAGTAATGTCAAATTGAGTACAAAACTAAAAGTATAC
AACCATATGGGCTTAGAGAAACTGTGGACTAGAGCACTGATAATTCTAATTTCTAGATGCAGCTTCAACAATACCTAGATTACAACCTTAGGCA
AATCAATTAGTCTCTTGGGAACTCAGTTTCTATATCTGTAAAATGCATATGTTGAGCTAGCTGACTGCTCAGAATGCTTCTAGTTTTAATATTC
TATGTTGCTGGGATACTGTTTCTATAAAAATAGAAACAAAAGCGAAATGATTTTGTTTAAAATATAACAATGTACCCTAAATTAAGGACTCTCC
AAAACCTCCCAGTTTGTGAGCTTCAAGATGGCCTCAGGTTCCCTTGAAGAAAAATGTCTCAGCTTCAAGCAAGCATTCATAAAAGCTGATTCAT
TTCCTTCCTGATCACTGACAGTGTGATAAAGTGACAATTTAGCATCCATTGTATATACCTGAGTCTAACATGAGGTTAACAAAAAGTACTCAGG
TCCAGGAGGTTTGCAAATCAATTTTGAACACCCTTTCACCAGGCTTTAAGATCCCCTGTCTCCTAATACTCAGTGATTCTTAGACTTCATATGC
ATGCAGTCAATAAAGAAATCAATACATAGTCATTGAGTGTTTTCAATATAGTCCCTGTTGTGTGCATGTGACGGAGATGATGGCCAGGAAGACT
AAGTCATAATTATTATTTAATTTGGGAGAGATGCCCAATTTACATGAAAAGATGATAAACAGTAAGTGAAAATATGTGATAAATCAAATGGGAG
GAGTCATAATTATTTGAATTACAGAGATTGACAAGATCCTGCAGAGTGGGAATCTGTCTAGGTTTTATGAAGGAAGTTGAATTTGAACTAAGTA
CATTTTCAGTAGTCTGGAAGGAAGAAGTGGAATATATAAGGTAAAGAGAAAACATAGTATCTAAGTAGAAGATAATGGGCAAAAGATATAAATT
AAAGGGAATTTATGCGAAATAAAGTTATAAACCGAAGACAACTGTTAGAGAATATAAAGAAAGCATAAGAAGAAGTTGGGTCATGTTGTA
CCACCATGATGTCTTGGGAAAATCAAACTATAGCCGTGTAGTCATAAAGCCATGAAGTGATTTTTAAAAAAAGTTTGTCATAGGCGGAAGTGGG
GAATTTTCAACAAGACTTAGTAGGCTGGTCTTTAACTCATAGAGATGCACTTGCCTTATCTTCACCAGGACTGGGATCAAAGGTGTGCGGTCAG
GCCTGGCCAACCCAGCATTTTTACACAGGTTCTGGGGATCAAACTCAGGTCCCTGCTTGCATGATAAGCACTTTACTGACTGAGCCAGATCTGC
AGCCATTGACGAGACAATTTTGAAAACCTTTGATGTCCTAGAACATCCCACATCAATTTGAACATCTCTGCCCATTGTTCTGCTGTAGCATTTG
AGGCTCAAGTAATGAAAGCAAGTTTGGAAGGCTCCTAGAAACTACCCGCATCTACCCAGTGAGTCTCCTCACCTCATCTTTAACTAGCATCCTT
AAATTAATTATAGAAGAGGAAGGTTTAATATTATTCATATATAATAATGATAAAGCTGTCAAATATTTCTTTGTTATTTCATAACTGATTACCA
TCAGGATTCATTTTTTTTTCTTCAGCTTGGATAGCCATCAATAAACAAACACTCTTTTCTTTCAGTATTCATCTTAAGCAGACAGAATTTAAAC
CGATGCTTGAGGGAGGGCAAACTTTAAAGAAATGGAATATTTAATATGTGCCCTTAAGAAACATAAAATTTTATAGGGCAATGGGGAGGTCAAG
TCATAATAACAGAAAGACAACATTTGCAAATAAATAATTGTTTCTTCATTAGCTCTGCAGGCCAGTCATCATTTATTGAGACCCTACTAAGTGT
AGAAGTATTTTGTTCAGCTATGAGCACAGAGCAATCAGACAAGTAAAAGAAAAGGCACAGGGATGAGAAATATGTGCCAAATATTTAACACAAC
ATTGACTGATATTTATTCATTGCTAACCAGTGTTATAATTTTTACTGCTAGTAATGTACGTATGTGTTACATTGTTTCATTTCAAGTACAGCAA
GCTACGTAGGTCCAAAGGCAAAGTGTATACTGCAGAGTTTCTTGACAGAGAACCGGGATCATATGTTAGAGCTAGAGCCATAGACGGATGCCTG
AAGATTTCCAGGCAAGTTCTTCAGGAGAACAGCTTCATGAGCATGCCTGTGTGCAAAGAGAATAATGGAAAGGCTGGACACACAAACGAGAGGA
GGCTGAGGAGGCTCTTAAAAGAGCACGATGGCAACAGTGGTAGCAGTTGTTTTTGTCTCAGTAGTGTGATCTGAGAGAAAAAATGATACTTGAA
ACGAATTAACCAAATTTAAGGTGTACCGGGGAACTCTCTCATATAGCTTATACTCTTGAAGTGGACAGGAAAAAAAAAAGAGCTTCAGTTACTA
GCAAATAAGTAGGAGTATGGATGAAATCTCAAGTAGAAATGGAGAGTAATTGCTCTGGACAGCGTATACAGTCAGTCATCAAGAAAGAATATTC
TGTTTTGAAAACATAGCCTGAGATTAAGCATATAAATATTTAAGTCTCTTTCCATATGTTTGGTACTGTATTAGACACATAGATAGGACAGGAA

TACCTCTTAGTGTGCTAAGGTAAGAGTGGAGTAAGAATGAAAAGACACATTTCAAGGTGAACTAAGGCAAGTGCCCAGAGCAGACGGGGGATCT
GTCTGCGCCTGGTTATCAGTGAAGTGCCTGCTTAAGGAATGAGGAACTCAATGATGAGGATGGGGGATGAGAGCACGCATGTTCCTGGTTCTGG
TTCCGACAGATTGAACTGCCTGGAGCTTAGGGAAGTACCAAGACTGAGGGGACAATTAGGCACCAACTACTTACTACCTGTTTGTTGGCTTGTT
TGTTAGTTTGATTTTTTTGAGCAGGGTCTCAATATGTGGCTCTGGCTCTCCTGGAACTCACTGTGTAGAACGGACTGACCTTGAACTCACAGAG
ATCTGAGTACTTCTGCCTCCTGAGTGCTGGGATTAAAGGTGTACACTAACTTGCCTGGAAGGACTACTACCTTTTAGCCAAGGGCAGCCTGGAC
AAAATTTAGTCCTAGGACATAAGTCATTTTACTTGATCTATATAGATAGTGCACTAAAACATGCTGCATAGAAAGATAACTTTAGACTTCGGAA
CATTATAGTTATAGCCAGGCATGGCAGAACACTTCTCTAACTCTAGCATTTGCGAGCCAAAGGATGGTGAGTCTGAGGCCAGCCTGTGCTACAC
AATGAGCACAAGGTTCTGTCTGAAAGAAACAAACAAAATGCTTCAGAAACTTTATAGAGTGGAGACTCTGAGGGTAGATACTAAGTTTGTTTTT
CTCCATAGTCCCCTCAACATGCGCAGTACTTTATGTAGTGCTGGTGGTTGATAAGCAGGTCATATCTTGAGTTAGAGAATGAATTAATGATGAA
TGAGCTTGTAAAACAGGGAACAGTGATTTGGATCAGCAGTGTGAATTAAGAAGTAGTTTGACCCAGCCTTTTTGCTCTGTGTTTCAAGAAAGAT
GCAAGCAGGCAGGGCTCTGAGGGAGAAGCCTATGAGGGATGGGGGATTACCGAGGGCTGACACAATTTCATTTAATCCGAAGAAGTGGAGCTCG
TGTAGGAGGATGTCATTAAGCATGTGGGGGGGAAAACAAGTAGTTTGTGAAATAAGAAAGCAAAACGAAGCGTGAATGAAGTTCCTTTTTGGTC
TCTTACTCTATATTCAGTTTAAGACATATTTTCTTTACTATGCACTCAGACTATTAAAATAATCGTTCATAATAATGTATCTTTGCAAGATGCT
TCCAAGAGCTATAATTTATTGAGTACATTTAAAACTTGATTAAAAATAAGAAATACTGAAATAGGGAAAATACAGTCCTTATATATTAAATAGA
AAGGTTAAGCATCTCTAGGACAGAATCTGAAAAAATTCTTCTTTTACCCCATTATCCTGGTTTGGTTTCTGTTGCTATGATACGCAACACAACT
AAAAGCAAGTTGGAGGAGAGATATTTGTTTGGCTTACAGGTCATAGTCCATCACTGAGAGAAGCCAAGGCAACCAAGGCAGGAGCTTGAAGCAT
AAACCAACAGAGGAATGTTGTTTGCCAGCTTGGTTTCAGGCTCATATTCAACTTGCTTTCTTAATACAGCCCAAGCTCTCTTGTCTGGGGATGG
TGCTGCCCATGGTGGGCTGGGCCATCCTAACAGGAGTTAGTGATTTAGTAAATGCCCCACAAACATGCCCGCAGATCAACCTGATGAAGGCAAT
CAATCCTTCAACTGAGATTTCTTCTTCCCATGTGTGTCATGTTGACAACCAACCAAAGTTAGCCATGATGACATGCAGTTACTCAATCTGGATA
ACCATAGAAACAGAAGAAAAAGGAAAGAGGGGCAGGGCAAGGAAAGAATGAAAAGATATAAGATTTATGCAAGTAGGGACACTTTCAGCAAATA
AGTAAATTTTAATTTACAAAATAAATCTACAGACATAAAGAGGAGTCATTTAATATCATATGCCACTAAAGCTGGCATTTTAATTGGCTTTTTT
AATACTAACTTTATAGTGTAATAATGTGGCATTTAGAATTATTCATGTCCTTGTGATCTTTTTCAGCATCTAGGTCCTTTTCAAATGTTATTAA
ATCAAGCATGATAAACAGCAACTACAGAGATGGAGTCTCTCTCTTATGTTGAATCACTGTGATGTAGTTGAAAGAGCAATGGGCCAGGAGTCCA
GAAACGTGATGTCTGGCTCCAGGTCTTCTAGAAACTTCTTTTGTAACTGTGTGAATCGTTAGCCTCACTACATCTTGGGGGCATCAGCTTCTTA
AATGAGAAAATTAGGCTAGAAATTTTGGGCTTCCCAATTCTCATCCTTTCTCCTCATGAAATTGCCTTGGGAAACACAATTTAAGAAAATAAAA
ACTGTCATGATACATGGGAATGGAAGTCCTGTAAGGGCCCTGCTCTCTTCTGCTCTCCCTACGCAGTGAACCTCGCCTTGTAATTGGTCCCTAA
GCTGCCCTGTCTTTGGCTTTTCATTCTTGATCATTTTAAGAACTACAAACAAGGTACTCTACAAGTTTCATATCCCACCCCTCCCCGCTCCCAG
CCCTACAATTCATCTCTTGATGTCATTTCACAGAACGCAAACAGCAGAGTGTAACTGTAGGATGAATACTACAGAATCATATAAGGGATTTATA
CTCCCCCTAAAATAACAGTTCAGTCCATAAAATAACAAGACCAGTGTTCTCATAGCAAATGAACCCTCAATAATAATCCAGACCAACAGTGGAA
ATCTCATCTGAGCCAACAACACAGTAGTTTGACTCCTCTGACTGGGTTAAGATAAGGCTTATTTTCTTTGTGGTTTAGCAGCCCCAACATCCTC
TTAGTTCTCCTACAATGGATCTTAATTAAAGGTTTGAAGTTTTCTTTTTAGCATTTTTTTTAAGGTTGGAGGCCATGCAAGTTTGAACATCAGG
TATCTCCCAGCATAAGATGAGAGACTGTGACGTATTAGCAAACATACAGGAGTGGAGAATTCAGTTAGTACCCAAGTTCCCAAAAGGAGGACAC
ACACTACTCTACTATCTTGCTACTTACTGTGAAGCAAGTCTCTAGTTTGACTCTGTCCTGTTTTTCAAGGCTGGGGAGATTTTGTCATTCAGCC
ATACAATTCATACAATTCAGCCATACATCTGTCATACAAATCATGAGTTTGGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTGTGTGTTTAAAGTAAATCTCCTATTTTAAAAAAAATCAATGACAAAAAAAAAAAAAAGTTGAGAGGAGAAGGAGCGCTGGAC
AGGACGGACAGGAATTGTCAGGGATAACCCATCACAGGTGTGCACCTGGAAGAGTGCCTTCACTTCCTGGCTCATTAGTGCTGGGGTTTTATTA
GCTTCATCTGCAATTAGGAGCAGCCATCTCTACTGCACAGCAAGAGTTCCCACAAGAAATAACGACCACTCCTAGCCTCTTCTTGCATGCCTCC
TTCACTCATTTCAACAAATATTTAATAAGCACTGTTCTCCTTGCGATGCCGCCTGTGGTTTCCAGGCATCTCCAAAATATTTTTTCTTAATCGC
TGTGTGTGGTTCTCCCACCAGAAATCTGTGTTATTTTGACTTTTTAATTGAAAAGAATACAGATGAAACTCTCTAGACTTACCTAGGGAATAGA
CAACAAATTGATTATGGCAATTAATTCAAAGTATGGATTGTGGTTACTTTAAGGATACCCAAGGAGGTACATGTTAGTTCATTTCACAGGTGAG
AAAATTACGAACCAAACCCAAAATAAGTGGTCCAAATGGGGAGTCCCAGGCTCTGAGTTTGATATTATCTTTCAATTATCCAGAACTAGATGTG
TTCTAGACTTCCCAGTAAGTACTGGAGACACATGGCCCACACCTCTGACAGTTCATATATGTGGAAGAGAAAGATGAAATGTGCTATGAACCAT
TCAAGGGTTCACATGTGCAGATGGTAGCCAGCAAGCAAAGCAGAAGAGTGCAAACTCAGACTTAAGTGCTCAGGAGGCAGCCCGATGTGAAGTG
ATCCCGTGAAATTACTCAGAACCAAGCTGTGTGCAGTATGAGACAGAAAAGAGAGTCCTACCAGTAGAGATTCTTAAGTCAGACAAGATTTTCT
CTATGGCCTGTTAAAACACAGACTGCTGATTCTGTAGTGGGCCCTGAGAACTTGCATTTCAAATAAGTTCCCAAGTATATTGACACCACCGATA
TGCAAACCAAACCTTGAAAACCAATGACTATCCAAGGCAAACACTGGCTGTTTTATGGCTTTCTATGAAAAGAAAGTATGAACTGCTGAGCAAA
GTCACTGTCCTAAAGACAGCAATGCTAATTCCAGATAGTTAGATTACATGGTTAAGGGAAAGATGAACACATCTTGTTTAGCTAGGGAATTAAA
AGTCAATACGCTGCATCATTTTGTACTGCCGCACAGCAAAGTCATTCAAAGGTTACTGTAAGCCTCTGGGTCTTGATGTTCACAATCCTCTCAT
ACAAAATCAAACTTTAAAATTAGATGGCATCCTGGACTGGGCTACTTCCTGCTGTGGAGAGAAATATTTGATCTTGCAGACTGCTACAAATTCC
CACCTCCCATTCATTTAGCATGAATCTCTCACTGGTATTTGAACATGCCCCCTCAGAAAAGGCCATATAAGAGCAGGGGTGGAGAGACCACCAA
GATGTCTAATTCTCTGCAAGAGAAGAAACTTCTCTGTTGCTCTTGACGACCCTTCTCTGGCCTGATACATGCCTCTGTACCAGTCGGAGGCTCT
GAGAAGCTGCTGTGTGTCTGTGCCTTGAGAAAAAGATCATCCCCTTCCCCATTTTTGCCAATATATGTATGGTGATACTTAATTATTAGCCAAC
TTTATACAGAGTAGTGAAAATTCATATACCTTTGCATAAGCTTCTTTAAACTAAAAAAAATCAATGTAAAATTAAATATTGCTCTGTCTTCTTT
TCATCAACTAGTATTAAAGGTGTTGTTTTTTTCCCAAGGGTGAAGACGGTTATGCTTGACACGTGACTACTGCTTCTCTTCCCTTTGCCTTGACA
TAGCAATGTGAATAAAAGCTAGATTTTTTTCCAAAAGACTTACTTATTTATGTTAATGTTTGCCAAAGTGGCTTAGTAATAATATTAAAATATA
TCTCTTCAGTTTTTAATGAAAATTGAAAACATGCCAGATTTTAAATTAGTGGTAACAGAGAAGCTGCTTTCTTGTTCTAAATACAGAAAATAAA
TGGCAAAAGGAAACAAGAAAAAAAGAAAAAAGAATCAGCTTCGGGGTCACATTATAAACTCGACGGCCTGTAAAGTATAAGTAAAAATCACTTT
TAGTGGTGTTATTGAGAACATGTTCTAAGCAACTCAATTATGGGAACTGACTGATTCCTGAGCCAGTCAGTGGTCCTTTTCTGCTGACCCTGCT
TGTTTTTAGGACAATTACTTTAAAAGTCAGTTTAGACTAACATTCGTTATCTACCTTAAAAAAAAAAAAGTCAATATTTTCCCAAGACAGTCTT
AAAGGTATTTATGAAAGTATCATTAATAAGCACGACTAGTAAGACTGACTAACATATTTAAAAGAAAAGAGAGCCTTTGATGACTTGAAGGGAT
CTAGAAATTTATCTACCAATATTAAAACACATATAGCCATGAGGAAACATTTTTAATTAACATTCTCTTTTTGGATGGAGAAAAGTTTAACTAA
CCTCAGGGAAGGTTGAGATATTTGCACGACGTTAGGGTAAATTTTAGGAGTAAATGCAAAATCCCCGGAGAAGATATGGGAAGAAATTACTTGA
GGTTTCTTGTGAATTTTTTGTTATGGTTTGATGATAAATACCATGCAAATATCCTCTGTCAGTGTGTTTTTGGCAGTCCTTCCAAGGCAGCCAGG
GAGTGAAGAGGATTATAGAAGGAACAAAAATGAGGTTGATTTTATACTAGAAAAACACAGCGGGGAATTCTGTAACTTCTTAGCAAGCTCTCCA
CCTCAGTCCTGTGTCCACTACACTGTACTATAAAATCTTTGGGAAAACAAATATACAAACTTCCAAATACAATCAAAATTTCATCCTTGCCAAC
AGAGGTAACCAAAATGCACCCTTATCCCTTGCTCCAGTACTACAAGCAAGAAGGGTTTTGGTTTTCAGAGACTGGAACATGGCGCAGTTGAGAG
TAGAAAAGGAAGTTTCTGGGGCGTCATATATAAGGAGAGGTGAGAGTACAGTCACTAGAAGATGTAGCCCAGCCTCAGAACACACAGCTGGATG
TGTGGCTGGGGACCATCTTGTCTACCTTCCCCAGCTTCCCCCCAAACCCTCCACTCCTAAATGGAAAATATCAGTCCCTTCACTCTGCATCTTA
CTGCTGTAGTCACCTGGCAGTGGGGGAACCCTGAGCCCGGATGCTCATTTTGGAACTAAGTCCTAAAATCATAGGGAAGGGATCCATGGGCTTG
CATTGTCTCTTGGCCTGTCCTGGACAAATTAATGATTAGGCTTGTTTCAAGTGCAGGTATGCAACTGGGAAAATGGGAGGGGGATCACACTGGA
CATAGCACTTACTTGGGTACTGTAATGCTTGGTAGTGTGGACATGAAGAGCTAGATCTAGGCAAAGGAAAATTCTAAAAAAAAAAAAAAAAAAA
AACAAAGAGAAACTTACATTGCTTTTCATGGTGGATATGATGGCTCATTTAAGTTTGTATGTTAGCTCACTCTAAGTGGCTGTGCATAGATGAT
CGATAGCAGATCCGCGCCCACATGAATGATGGAAAGCCCTAATGAAGCCAATAGACTTAAATGATTAAATGACATTTCCTCATGAAGCCCCTTT

TGGATACTCACTGAAGCCATGTCTAACTTGTGTAAGCATTTATGAATACCATGAACCACTCTGTCGCGTTGTCTTATTACCTGAACTGACAATT
GAACAAAACTCTAAATCCCTCGCTTAACCATCAGATAACCTTGTTTTGTTTTGATGGAAACATAGTGTTAAAGGCACATTATTTTCCACATCCA
CCTCCTCAATGTTTCTTCCAAAACTACTCATTCCACGGCAATATACTCAGTGTTCAGGATCCACAGGTGACCACAGATGATCCTTAAACAGAAC
ATGTGACTTGAAGCCCTTTCGCCCTCCCCTCACTTCAGTTCACACAGAAATCTAGCATGGCGAAGTCTGATCTAGTAATCAAATTCCCTTGCCA
AACACCAGAAGTGTATCTAGATGTAGTTTAGTTTGCCTATCCAGAAAAATCAGAATTTTTCTCCCTTTTAAGCCCAAAGACTATTAATGCAAAT
CCAATTGAATTTGCATTTGATTACATTTCTGATGGAAACATTCATATGCAAATGAAAATTCATGCAAAGATAGCCAGATAATTCAAATAGTTGC
TGAAATATCAAGATAAAATTAGGATATTAAATGTACATCCATCCACTTTTACTGGGTTACACTAAGGTCATCAAGTGGGACAATATTCTGAAAA
GCCTCGAATAAATTTTTTAGAATATTCTAATAGGTATGTGTTCAGAAGGGAGCTGTAACATTACTTTCAGTTGTCATAGCACAAAAAAAGATGT
CAGCCACTGTTAAAGTTAGTCATATTGTTTTAAAACATTCACTTTAGCTGGGTGGTATTGGTACACACCTTTAATCCCAGCACTCTGGAGCCAG
AGTTAGGCGGACCTCTGAGTTCAAGGCCAGCCCAGTCTATAGAGTGAGTTCCAGGCCAGCCAGGACTACACAGAGAAACCCTCTTACAAAAATG
AAAAACCAAAACTAAATAAAACCATTTATTTTACATTTTGTTCCTTGCCTTCTCCTATCATTAAAAGCATAATAATAATAATAATATTTGGTAA
GACTATTTTAATGAGCCCCAAAACGGGCAAATAGTTTCTGTAAGCTGGTAGTTCCCACACACTCCCTAAGGAGTCAATGGAGCAATGGAGCAAG
TTCAGTGATGTTATCATTATCCTTTGAAAGCTCCTATGGCCTTGTGAACCGAGCAGCTGAGTCATGATCCTAACTGATGGCTAGTAAATCCAAC
TAAGAACAGATATAAGCGAAAGTTCAAGGTAAAAATGTATTCATCTAGTACCTTACATTCCAAACTCTTTCTAAAAGGAAACCTTGGAATTAGA
CAGCTATCCTTGTTAAACTTAGCAGAAGGTGGAGAGAGCAAAGGAAAAGACTTGAGGTTACAACATGCAGAATTGTTACCACCTAGTTTGGTGG
TCCATGAAATATAAAGAAAATTCTCCTGATTGTTCTTCTGTTTGATCTAATGTTTGTACATGATTTCAACTCTTTAGAATTCTAGTTTTCTCTG
CGTTGGCAAATATCACTAGCCATTTATCAGACTGAAAGCTACAGATACAGAAGACACTTCAGCATGCCACTCGGGCAAGCTGGATCTTTCCCCA
AGTCTTAAGAGATTTTACTTTGTAAATCTCTCTCAATTCCAGCAACTTTTTTCCGTCTCTACCACCGCTTCCTTAATCTTTGTCTCTTCAGGGA
TTTTGGAGATGAACATGTCCCCAGTCCCAATCCCACTGTACCCTCAGCCAACTCTGAGCAGAACCTACCCTTCCTTTTCTTCTGTCCCTGTCAT
ACTATAGTCAGAGTCATCATTAAAAAGTACAAGTGTTTTCATTCTGTAAAAGTGTCATTTTTGCTTAATATCCTTTGCTAGCTGCTGCTTCTTC
TTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTCCTTCTCCTTCTCCTTCTCCTTCTCCTTCTCCTTCTCCTTCTCCTCCT
TCTCCTTCTCCTTCTCCTTCTCCTTCTCCTTCTCCTTCTCNNNNNNNNNNNNNNNNNNNNTCCTCCTCCTCCTCCTCCTCCTCCTCCTTCTCT
CCTCCTTCTCCTCCTTCTTTTTCTTCCTCCTCTTCCTCCTCTCTCCTCCTTCCCCCTTCTTCTTGGTCCTAAAATAAAAATGAAAGACCTTAG
GAGGGAAATTTCCCCTCCATGTTCCCACTTCTGCGATCTGTTCCCCAACATCCTATATATTTTTTTCTTTCACTCTGCACTCCAAGTTAGATAC
CAAGATGTCCCTGTTCCTAGTCACCTGTGTACACACTGCTGCTCCTGCTTTGAGAGTACGTTAATTCCAAGTTTTCCTCATTAAAGTTTTCCTA
ATCTTTAGAGCTCATTTGATTCCTGTGTTACCTTTGTTTATGCCACAGTAGAGCACCACCACCATAATACCCAGTCAAATCGGAAGCAATCAGT
TTATTTTTGAGATTCTGTCATTTGAATTACTCTTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTCCTTTCTTTCTTTCTTTCTTTCTCTCT
CTCTCTTTCTCTCTTTCTTTCTTTCTCTCTCTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCCCCTATCTTCCCCTCTCTCT
TTCTTTCTTTCTTCCTTCCTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCCCCTATCTTCCCCTCTCTCT
CTCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTGGTGGTTTCCTGAAGGATAAGGTTAGCGTTGGTCTTCACTTA
GGAAAATAAGACTTGCTGTTTAGGCTTTCAATCATCACATGTTAAACAAGTGGGAGCTTCGATTTTTTTTCTAATCTTCTTATCTAAAATCCAC
AAGTTTATAATAGTGTGAACCAAAGGAAAAATGGGGAAGAAAAAGAAAATTCACTAACTTGCTTGAACATTATCACATCATAAACTTGCCAAGG
ATATTTCTTATAGGAAACCCTGCATGCTTCTTGTAGCAAAGAAAATATGGTAAAGATCTAGTGGCATCAGAGGGCACTGCTTTCAAGCCACAGT
AGCGTGAGTCGGCCAGGCACTGTGCAAGGCCCTTTCCCCAGCACCCATAAAGAGGAACTAACAGTTACTCTTTCAGTCCTACATTATGTATAAT
CTTTTATTTGGGATATGTAAGCCATAACAAATTTCAGAGATGTATCTAGAGATTTTAAGTACATCATGTCTTGTGACACAGATTGTTGGAATTG
GTCCACGACAATTATTTCATAAAAATAATCGCAACTTAAGAAGCTAACATCATATAGAAATCATGCTGCTGTTTTATCAGTGGGGCTCCATTAC
TTTATATTTTATTTTTTATCAGTTATGAGCTTAGTTTTATTTTAACTATACAATTCTGAGCAAGGATCAACATTGCAGTGAGAGAAAGAGAGAG
AATGTGAGTTGTTAGCCAAGTCACACTTGTGCTTGTAGAGATAGGTGTCTCTCCCCTCCATTCACATCTGTCTCAGACTCTGCAGACTTTACTCT
CTTAGAAAAACATAGCAAAAGCTTTTATTTAGCAGCAGATGCATCGGTAGAGAGGGAGGTGAAGTTTAGTCTGGCTTCTCAAGAAAATTAAATT
TCCTTTTTTTTGTGTGTTTCAGAACATTGTATTCAAGGGCTTGTGGAAGGGCTGGAGAGGCCTACACTATCTACTCCTCAGAGGAGATGGTCAAG
GTTTCCCTGTCACTAAAAGCTAAATGCACTTTTCTTAAGACAAAAAAGAAGTTTAATATAGACCATTAAAGTATCTGCAATGTTATGTTAGGCC
ATGTTTAGGAAATTTTTTTTAATTCGATTTTAACATTTTTTAACAAATACAATTTAAATTTTCTTTCATTTGTACATGAATTATACAGACGGAC
ATTTTAAAAACCAAATTTGCCTACTTAAAAAAAGTAAGCTCTTTTACCTGTATTGTAAAAACAAGCATTTAATCAGTGTTTGGTCATCTTCTCT
TCTGACTAATGAGCTACTTTAAGTCTTACTAGTAACAAGCCAACCTTTGCTACCAACAATGATCTAGCAGACTTGGTCACCTAGGAAGAAGACC
CTGAAAAGACCTTTCTCTCTTGCTTATGATTTCAGTTAAGAATGCAAATTGCACATCAGACTTTGAGGAATACTTTGCCAAAAGAAAACTGGAG
GAAAGAGATGGCCACGCAGTGAGCATCGAAGAGTACCTTCAGCGAAGCGACACGGCCATTATTTACCCAGAAGCCCCTGAGGAGCTGTCTCGCC
TTGGCACGCCAGAGGCCAACGGGCAAGAAGAAAAATGGTAAGGCTGTAATTCATTTTTAGCCGCGATACTGACCTCTGCAGCTGTTAGAATTACA
AATGCACTACATGCCTGGGTGTTTACCTTAAAATTTGAAGAACAGCTGCAGAGGCATGGAATTTCATGAGCAAAGATTAGAACTGTAATTTTAG
GGTATTGTGAAATTTTTTTTTGTCAGCAAATTTGTGTCATTTGTACATCCAATACAGAATAAGAACAATTACAGCCCATTTCTAAGAGATAAAA
ATATCTAAATGTATTCCAATCTTTCAGAGATATTTTACTTTTGAGGAAAAAAAAAAGTTTAAGATCACCGACCCTCACCTTTTGTTCTCTGACA
CCTGAAAAAAAAAATCTCCTTCCCTCCTGTGAATTCCTGAGTTACATGTGAGTCTAGGGTTCAGGGGGACTGTCAGTCACCCAAAGGGAATTTC
TTCATTTATCAGCTGTTTAAATTCCCCCTCCCCACAAATAAGCTCAAGTAATTAATTAATTTTCGAGCGCAGTGTGAGCTGATTCGGACAAGCC
TGCCCTGGGTGTTCAAGGGGTCTGGTTGTGAGGAGGCCGGGGCGCAATGATGGCGCTGTGCAGGAGCAGATTGCAGCGATTCCTGTCATAGCAG
CCCGGGCAGCCAGCCCATTAGCTGCCATTGATTTACTGACCTTTTGGCCCGCTCCTCTCCCCTCGCCTCTCGGCTACAGACCTGCCACCTGGAA
CTCCAGATGCTTTTGCCCAACTGCTGACCTGCCCCTACTGCGACCGCGGCTACAAGCGCTTGACATCGCTGAAGGAGCACATCAAGTACCGCCA
CGAGAAGAATGAAGAGAACTTTTCCTGCCCTCTTTGTAGCTACACGTTCGCCTACCGCACCCAGCTCGAGAGGCATATGGTGACGCACAAGCCA
GGGACAGATCAGGTGGGGGTTGGTTCTAAGTGATTTCTTTCTATAATAACCCCTTAGAGAAACGATATTGCTTTGATTGGCAATCATTATTAAT
TTTTCATGGCATTTTGAAGATGCAGATCTTTTAATGGTAATAGCTTTAATTGAGGTCTAAATGATTTTTTGATGGTCTCTTCTAATATGATTTA
ATAGTCTTATGTTCACGATCGAATGAGTGTGTTAATTTCTAATTTAGAAATTTTATTTGCACTTTAACTTGACTTTAGTTTCATTTTTATGTTC
CACAAAAAGTGAATGAAATTGTAGCATTTTAATTATACATTATTAAACATCTCAGCAATTTTAATTCCATTTTTCACCTAGTTTTGCTTAGGCA
TTTTTTTTTATATAGGACCTAATACATAGCAAAAGAAGTGCATATTTCTCTCATTTGTCACGAAACACTTTTAAATTACTTAGAATACTTTACA
AGCTTACTAATTTATGAAATATGTTTTTAAGGAGATAGAAAGGCCATATAAGTTATATGCATATACACATAATAAATTGGAAAAGTGATAAATG
ATAAAAAACATTGGTTATAATTAAAATGACTCCATCTCAATATACATGCTTGTAGTTAAATGCCAAAATTGTTCTGCCTCTTTTAGCCTACTTG
TTTTAAAAATAAGAACTCTGGCTTGGAAAGGTAGGAATAGGGTCTTAAATCCTTGAAATGACTGAGTAGGGCTAATTCACAGCATCTCTTAAAT
GTTTCAGCAAAACTGCTCTTTCTATCCTCCTGGGAGAATTGACTGTGCAAATTGATATTATGATGTGTTGGGTGGTCACAGTAATGGTGTTTCA
TAAGTCACAATAACTGGTCCTACAGATACAGAATTGCCCCTAAATGAACTTTGATATTATATATTTTTGAGATGGTTAAATATGACATTCTCTA
TAAAACTCCGATTTGTCCTCATAGGCCTTATTGTCTTTGAATAAGGAAAAGAAGACACAAACTCAATTAAGCAAGAATGGCAATACTGTGTTAC
AAATTTTTACTATTTAAGGCACTATATCACATTATCACACCATTTGTTTCTGATTGGACTTGTGAGTTGAATGTTTTCCAAAGATCAGCTATAA
GTAATACGCTTGTGCAGTTACACTTTTGTAACAGTTTATCTTCTCATGCTTCTATGCACAAAAAAACTCTAGGAAAAAAAAAAAGCCTAGATAT
TTATCTAGTATAACTGCTTTAAAATTTCACATGCAGAAGTGTGATTGTGTTGGCGCATTATGAATGGTAGCTTTGGTGTTGAAAAGTCCCCTCAT
TTGCTCATGGCATTTACAATTAGTAAATTAAAATGATTGTATCATATTAACAGTGGCACAACTAAAGTTTATAGTAGTCCTCTGAGGGCTGTGG
GGGAGACAAAGCAGCTGTTGCTGTTTGTTTATGCAACTCGGCAACATATGAGCACTGGTCCCTCAATGGCGCTCGGCGGGTTGGGCTCCGCTTG
ATCTTTGAAGGTTGCTGCTGTTTGAACAAACCTCCCTGTGTCCCATGTAACACCATCTGTCTCACTAGGAATGTGGGAAGATTCAGCACACCCT

AGCAGTTGTCACACCGTTTCTGGGCTGTCTTTTTGCAAAAGGCTTTTGTGTCATTGCTGCAGAAAAAGGCTGGCCTCCTACCTTGAGCATCCAG
AGTGGATGACTGTTGGGTTGTTGTTTTTTTTTTTTCCCCCTTAGAATTTCAAGTCACACTGCGTTTCCCCCTTGTTCAAAAAGGTCAGCGGTGTT
GGATGGTATCTGTGCTGCCTCTAACTTGTCTTTTCAGCAAACTTTTTTTTTTCTGTTGGTTCTTGCACACTACTAAAACGGAAAATGAAATGTC
ATTGAAGTCTTTCCTACTGACTTGTGATAAAGCTGTTCAAGCAGACATAACCCAAGATGTTGTCTCTTATTTGATAATGAATCAAATCTGATAG
GCAGCACCTAAGAAAAACACAGTTAACATGGGCCAGTAGCACAGTGAATGGGATATTTAAACAGGCATACCAAATATTTATAGTCAAAGGGTTT
TTTTTTTTTTTTTGATTTTGTCTTTTATTTGGGGGTGGGGAGAGGTCTCCATTTCTTTAAATTTCAGTTTGATTTAGTTTACACTTTTACCTGG
AAACAGAAAACTTCACAAAAATTTGTTTTAAGTGTGGGTTAAAAGAAAAGAACAATTTTATAATTTTCAGGAAAGTATTTTTTTCCTCCTCAAG
CCAGCCGTGTTTTGAAAGGAAGCCTTTAGGGTTCAGATTCTGCACTAAACCAAAAGGAGCCATGAGCATCTCTACAATCATACTTTCTCATCTC
AAGGGTCAAAGAAATGCTGTAGAAAAAAGATGTCAGGCGTAATTGTGAAGCAAGGGTCCGACGTGCACGGGAAGCACTTTCTTAAAAGAGAAAA
ATTCCCATTTTATTACCAGCATTACCACTTTTATTGCAACTCTGAAAGTCTGACCAGATAAATAAGCATGAACTCAGACCTCTCAGCCTGTCTA
AAAAAGAGGTCTTGGGAAAGATTCCTAAGCAAGCTCCTTTGTGCCTCCTGAACAAAGATGACGGCCATTTTTCTCCTTTTACAGCACCAAATGC
TAACCCAAGGAGCAGGTAACCGCAAGTTCAAGTGCACGGAGTGTGGCAAGGCCTTCAAGTACAAGCACCACCTGAAAGAACACCTGAGAATTCA
CAGTGGTGAGTCACAGGGGGGTCGCTGCATTGCATTCTTTCCTACTAGAGAAGATTGTGGAGACCTTTTCAGTGTACACAGTCCCGGGTGGAGT
GTTGTGGGCTTACCCCTTTATTTCATAAGCTCTAGGAGTCTTGGAGAGTCTTATGGTATCCTATAAATGCTTATCCTTCTTACAATTCACAAGG
GCTTTGATTTGTGTTTTCTGCTAAATCTAGAGACTTTTACAAAACCGTATAACTTTGACCTGGAGATATTTGGGCTGCAATTTCAGAAAGATAT
TCATTTTTTTTTTTGATACCTAAACTTACAAGAAAAAGTGGGAGAAAATTGGACAGGAACTTGCATATGCTAACCATTTCTTGACTCCTGATAGC
TATACATCATAAACCCACATCCTACCGCTGAGATTTCTGCTTTATACATAGTTTGATAGCTCTGCCAAGCATTTTATTACCAAATTGGATGCTA
TTCAAAGAACTAGTTGAATTGGTAGAATCAATGGGGTCTCCACAGAGTTGATTAAAGCCATGGCTACACTTCCCTTTAAATACTGTGACATCTT
TATTGTGCTATTGACCACACATTAATCTGACACTCTGTTTAAATAGGAGGCTGCTGATGGCCTGACAAGATTTGGGATTCTAACTGAAAAAGGC
GTAGAGAGCCTTTACCTTCCACAGCTTACATCTTGAATTATGTCCACTGGGGGTAGATAAAATCCAGAGATAGTTATGGTCATATAACTCTGAC
GTAAGCATCTAGAATGTAGAGTCCACCTACATTCGACACCTAGATTAATTTCATTTGGTTTCACAGATTCTTATCTTGGCAGACAACTTTGCAT
GTTACCTAAATGAAGAAATCTAATGCTAATTTTAATTATCCTTTCAGGTGAAAAACCTTACGAATGCCCAAACTGCAAGAAACGCTTCTCTCAT
TCTGGGTCCTACAGTTCACATATCAGCAGCAAGAAATGTATTGGTTTAATATCAGTAAATGGCCGAATGAGAAACAATATCAAGACGGGTTCTT
CCCCTAATTCTGTTTCTTCTTCTCCTACTAACTCAGCCATTACTCAGTTAAGGAACAAGTTGGAAAATGGAAAACCACTTAGCATGTCTGAGCA
GACAGGCTTACTTAAGATTAAAACAGAACCACTAGACTTCAATGACTATAAAGTTCTTATGGCAACACATGGGTTTAGTGGCAGCAGTCCCTTT
ATGAACGGTGGGCTTGGAGCCACCAGCCCTTTAGGTGTACACCCATCTGCTCAGAGTCCAATGCAGCACTTAGGTGTAGGGATGGAAGCCCCTT
TACTTGGATTTCCCACTATGAATAGTAACTTGAGTGAGGTACAAAAGGTTCTACAGATTGTGGACAATACGGTTTCTAGGCAAAAGATGGACTG
CAAGACGGAAGACATTTCAAAGTTGAAAGGTTATCACATGAAGGATCCATGTTCTCAGCCAGAAGAACAAGGGGTAACTTCTCCCAATATTCCC
CCTGTCGGTCTTCCAGTAGTGAGTCATAACGGTGCCACTAAAAGTATTATTGACTATACCTTAGAGAAAGTCAATGAAGCCAAAGCTTGCCTCC
AGAGCTTGACCACCGACTCAAGGAGACAGATCAGTAACATAAAGAAAGAGAAGTTGCGTACTTTGATAGATTTGGTCACTGATGATAAAATGAT
TGAGAACCACAGCATATCCACTCCATTTTCATGCCAGTTCTGTAAAGAAAGCTTCCCGGGCCCTATTCCCCTGCATCAGCATGAACGATACCTG
TGTAAGAGAATGAAGAGATCAAGGCAGNNNNNNNNNNNNNNNNNNNNNNATGAAAACATAGTCCCCAACAAAGCTGGAGTTTTTGTTGATAATAAA
GCCCTCCTCTTGTCATCTGTACTTTCCGAGAAAGGACTGACAAGCCCCATCAACCCATACAAGGACCACATGTCTGTACTGAAAGCATACTATG
CTATGAACATGGAGCCCAACTCTGATGAACTGCTGAAAATCTCCATTGCTGTGGGCCTTCCTCAGGAATTTGTGAAGGAATGGTTTGAGCAAAG
AAAAGTCTACCAGTATTCGAATTCCAGGTCACCATCACTGGAAAGGACCTCCAAGCCGTTAGCTCCCAACAGTAACCCCACCACAAAAGACTCT
TTGTTACCCAGGTCTCCTGTAAAACCTATGGACTCCATCACATCGCCATCTATAGCAGAACTCCACAACAGTGTTACGAGTTGTGATCCTCCTC
TCAGGCTAACAAAATCTTCCCATTTCACCAATATTAAAGCAGTTGATAAACTGGACCACTCGAGGAGTAATACTCCTTCTCCTTTAAATCTTTC
CTCCACATCTTCTAAAAACTCCCACAGTAGCTCGTACACTCCAAATAGCTTCTCTTCCGAGGAGCTGCAGGCTGAGCCGTTGGACCTGTCATTA
CCAAAACAAATGAGAGAACCCAAAGGTATTATAGCCACAAAGAACAAAACAAAAGCTACTAGCATAAACTTAGACCACAACAGTGTTTCTTCAT
CGTCTGAGAATTCAGATGAGCCTCTGAATTTGACTTTTATCAAGAAAGAGTTTTCAAATTCTAATAACCTGGACAATAAAAGCAACAACCCTGT
GTTCGGCATGAACCCATTTAGTGCCAAGCCTTTATACACCCCTCTTCCACCACAGAGCGCATTTCCCCCTGCCACTTTCATGCCACCAGTCCAG
ACCAGCATCCCCGGGCTACGACCATACCCAGGACTGGATCAGATGAGCTTCCTACCGCATATGGCCTATACCTACCCAACGGGAGCAGCTACCT
TTGCTGATATGCAGCAAAGGAGGAAATACCAGAGGAAACAAGGATTTCAGGTAATGAGATGAGTCACTTTGCTCTGAGGAAAGGCACATAGGAT
AACCTAGTTGTGATTCCCAGGCTGCCCAGTCCTAAATAAATTGATAAATGACCTAGAAGATACAAAAGGTGGGGGAAAAACACTCAGTTGGGGT
GGGGAAACCAGGAATATGAGAGCTTTGAAGCAAGCTAGCTAAGCCAGTGGCTGAAAGGATAAGCTTATTAAAAACTAAGGCAAGAAGATTGCTA
GTTTAAGGTTAGGCAGCATAGCAGGATCCGGTCTCCAAAACAAACAAAACAGAATAAAGAATTCTGAGAATTACGCATCGATGCTAGTAGTTGG
TCAGCTTACCGACATGCTTGAAACTGAAGTGTGTAACAGCCACACTCTCAGAAAGGAGTGTACGACTTGAAGGAATTACATATTTAAATTTTGA
TATCTATTTTGTTTTATAAAGAAGAGTTCATTTTGAAGAGAATTTAAAGAAATATTTTACATGTTACATAGGACTTCTTGCCTAATTTTCAAAT
GGTCAAAGAATTTGTAGGTGGTAGAATCTGAAAGCAGGCATTGTTTTGGCATTATTTTGTATAATCCCTGTTTGCAAAATAGGAGCCAAAGTGG
CAGTGCACGGCTGTAACAGCTGTCCAGTATTCCAATTTACAACACATCTGCCCTCTTTGTAAATGCATTTAAGCCTATTTAATCTTCTCTAGTA
TTAATTAGTGCAAATATAGTGTAAGAAAACTAAACTGTGGGCTAGCAAATGGAAATGTATGTTACCATGCAAGTTTGCACTCCTTTGGACCAAG
ACAAAAATAAATATCAAGAAATTTAATAATTTACTGATCCACATTCATTATTGCTCAATGCTGAAGGCTGTTTTAACATAGATAGAACATTGAT
AAAAAGTGTTATTAATATTCTCTATTTCAAATTAGAAAATTAAATATAAAAATATAGCTTAAGGCTTTTAGTTGGTAGACATACATTTAAATAG
ATTGTATAATAATAATATTTTGTACCTAAATATAAAATTCAATTAAAATGAAGCTTCTACAGCTACCAATCATTTTTGAAGTAAAGTACACTGG
AAAATATGGTAATCCTGATATTTAATGTTCACTCTTGGGTTTTCTCTGGTATTAAAAAAAAGTGAAAGATTTAAGAAAACTGTTTTCCCATCTA
TGGCAGAGAAGGTTTATGTTTTGTTGAAAAGTGAAACTTCCATGTTGTTTAGGAAAAAAAAATGAGAAGATTTTAGTTATAAGATAGATTGGCA
TCTAGCATTTTTGAGGATCTCTAGTTGTCAGCCTATGCTTAATTGTTTGATGTAAACACAAAGAGGAGAGACCATGTTCAACTATGTGATTATA
TCACAGGGAGACTTGCTGGATGGAGCACAAGACTACATGTCAGGCCTAGATGACATGACAGACTCCGATTCCTGTCTGTCTCGAAAGAAGATAA
AGAAGACAGAAAGTGGCATGTATGCATGTGACTTATGTGACAAGACATTCCAGAAAAGCAGTTCCCTTCTGCGACATAAATACGAACACACAGG
TATGAGCGACTTTGACTAGCTAGCTAGAGCTCTCCGGCCTGCTGTATATTTCATAATATTTAATGAGTGCACTTGTGCGACATAAGATGTAGCA
TATGCTGACACCTTCAACAAGAAAGAAGTAATACTTTTGCATAACTCAGTAGGACTTTTGTGTTGCCTGTTTATTGGATCATTCATGTGTTTAT
GAGTGTGCTTGTCTTCTTAACTTTCAAGTTATCTGTAAAACAAATTTGCCTATCATGTCAAAGGAAAATTTAAAAGCCCAGGGTAATGAAATGG
CATGACAAGAGCTCATTTTTGAAAGTATCTTCAAATTCTTAAGCTGTGGTGAATATATATATGTGTAAAAATTATTATGATAAATCTGGTCCGT
GATATACTAGTGGACTCATCCAAACACTAAGTAAGCCATGCTTTGGGGTGACTTTCTTTGGTTTTCATAAATTGGCCACTTTTGAACCAGTTAT
AAATGTTATTTCCATAAAAGAAAGGCAAGAGACCAAATAAGCCAGTGAATCCTATAACTGAAAGACTAAAGTAATATATCCAGTTCATGTGTTA
TCTATTAATCACCAACCCTGACAAGACAACAGCCCCAGGGCTCCCTGGGACTACAGGTGGTATGTTACGTTTCCTAAAAGTGTACCGTGTAAAG
ATACTTTCCACAACTCCGGATCAGATCTGCAGCTCTGTAGTAGGGTTTCCATCAACGTTTCCTTTCTCCCATCTTCTGCTCTAAACAAAG
AAACCTAGTCTTACCCTGTCCCTAATCCCTGTCCAAGTCTTCTCCATTAGAAATATGAATTTGTCTGTGGTGGGGAAAAGAAAGTATAGAGTCA
TATTCAAAATATTGTAAATGGGAGCAGGATGGACAAAGTGTAGGGAAACCTTTTATTTTAAACAAGGGCAAAAGTTAGCATTGATGCATGTGGT
GTGGAAGAGAAGAGGAGGTGTTAGATCTTAACTCTCTGCAGATAGGGTACATCTTAAAGATACCTTGGGAAACTCGGGTACTCCAAATCTTCCC
AGATCCTTCACTAGCCATGGGTTGGAGGTAGCACATGTGACCAGAATCAAGCTGAGCGCTGGGCGAAAGTGGCCCATGCTGGACCGCTAGTGCT
GAGAGCACTTTGTGAAGAGAACCCAGGTTGTAACAGCCTTGCTCCTGGTCCAACCAGTTCAGCTCCTTTCCCTCCAACCATAATATCTGTGGTT
ATTATTTTAAAAGGCCAATTAATGTTAAAACACCCCAAATTGGTTTGCAAATCTACACAATTTTTATACTTAAGCTATATATTTGAAACATCAT

SAGRES DISCOVERY 02-36

TTTTTTCCTACCCTGTTCATTTATTATACTTCCTTTAATACTGAGTCTTATTTAAGTATTTACAGAGTAACAAATATTTTCATGCCTAAATTTA
CTTTAATTTTAATCAACCTCAAATATATTTTGTATTTCATTATTCAGCTACAATAGGCACATCACTGAAGGCATCTTTCCCTCTCTGATTGGTC
TTATTATATGACCATATGCAAACTCTATCATTTACTACATGGTGAGTGTAAAACTTTTATTTAGTGAGGGCTCTCATACATAGTGACATCCAG
TCAGCATATTTATCTCCTATAAATAAGCTAGTCCATAAACTTCATAGATGTCCAGCTAGTTGAGAGACCCAAAAGTTGACAAATGCAAATGTAT
ATATATATTTATTTTTTTTAATAAAAGCACGTTATTTTAAAAGTAAAATATCTTGGTCCTTTAAGATGAGAGATCTGCTACCTAGACACATTGC
CTAGCAACAGGATGCGAGTCATTCAATGGCTTCTCTAAACTGGTGATTAGTTATCCTCCTGTTGGTGACCCAGCTTGTAGAGTTTCCAGTCTGT
TAACTTTTTGGTCTCTTGACCAAACATCTCATGACATTAATATTGTCATTGTATTAGGTTCCATCCAAGCAAAAGTCTTCATGAAATGTGTCAG
TATGATGTATATGTAAACTTAGCTTGCTTTCTTCTAACTGCGCTCCACAAGCCTTTTGCTTATATTAATATCTAATAATATTTTAAATGAGTTA
ATATGAATATTCTAAGAGAGAACTGTCTTGACTCTAAAGCTGGGCAATGAAGTTGATCTGTCATTTGGTTATTATATGTTGATTATAAATGTGT
CATTGATAAAGTATGTTTGTTATCTGTCTATAGAACTGTTTAAATTAAGAAGAAAATTAGTGTCTATTTATTCCTGGGAGTTTGTGCTCTTTTG
CCGTAATCTACTTTAAATTTATTTTCTAGGCAGATACCAAAGTCATACTGCTTAATTCTCTTACCAATGGCTTATTGCTTGCTTGTTTGCTCGG
TTTTGGTGGGGGGGAGGGAGATACCCTGGATAGTACAGAGAAAGAAATACTTTGTAAATGTTAACTTCAATTGGAATAATTGTCATAAATAATG
ACTGAAATAAAAGATCTGAACCTCTTGGTAGGCACTGTCAAGGACTCATTTTTACTCCACTAAAATTTCAACCTGATATCGATTGGTTACTTTC
TCTGTTGAGACACTGTGGTAGGTGCTTTCAAACCACCTTATTTTGAAAAGAAATAAAGATATTTCTACTTTGAAGTAGACAAAATCTAAATTTT
AAATAAATTTCTGGTCAATGTTGTTCCTAAGTTATATGGCAAAATTAAAATTAGCCCTTATTTTAAATTGAATTTATTAAGTACTTGTTAGTGA
AAGTCCTCAAGATTACTAGACTATTTAGTATAAGAGTTGTGTGGAACTCTCAGTGACTCACTGAGTTGTCCTTTGCAGGGTATCACAGTACTTT
ATCCTCCAAAGTTGTCTGTGATATATAATGTAGCCCTATTACAAGTACAGTGTCTATTACCCAATACATCCTTTGAAAGCTGGCTGCCTGTCCT
TATAGGACCCACCTCCCATGCATTCTAAAAGATCTGGAAGTTTGTCTTGGAGAATAGATGTTTTCAGTCCAGATGCTGCTCTCATTCTACAATT
TTGGAAAAATAAAACCTGTATTCATATATTCTCTCCACAAAGTGACCTAACTGGTTGACCACCTTTGATCCTGAGCTGATAAGACAGCAGCATA
AAAAAGATATCACGGGATAGTGTTGTTCATGCATCTTTTAACAACTAAAGAAACAAGAAAATTTTCATGTCTAATTTTTCTCCATTCAGATTTA
CTTCTTGCATGTATGCCTACTCCCTGATGTATGCATTTTGCTTAGAATATAGTAGATGGTTGAACCTGTATTAATGGACAAGAGTTGAGAGATT
TAACCCTAATAGGCTGCTCACTACAAAGTCCTTGTACTAAACACTTTATAAATCCTGTCTCCATTATTCTATCTATGGCCTGTCCTCAGGCTAA
GTCCCCAAATTACTTTCCTTTATCTGCAAAGACCCTGAACCTAGAAGCAGTTGACATACCCAAGACTGTACGTACTCCAGCCTGTCCTAAAAAT
GGATTTCAATGTGAGTCCAGAGCTCATCACCCTTATTGAGCACCATTCTGCCCCCATGGAACAATTGCTATCAATGCTGTACCCTTCTCCCTGA
AACATCATCATTTTAAATGTGCACTTCCAAACAAGGAAGACCAACACTATACTGTAGCAGCTTGAACATTTCCTGAAAGGTTAAAGAAAGAATA
ATACACTCCTAAGTTCTTTTCATATACTCTTGTGACTCCTATTGTTACCTACCCAAATGAAAAAAAGTACTGTGTATTTCCAGATTCCTACCAC
TCTACCAGAATATTCTGTTGTCCAGTTTCCCTCATAGAAAGCATCTTTTCCCAAACTTAAAGACTGGTTCTTCCATGCCTTAAATTAAACTTGT
TATCTTCAGCCTATTAGCTAACTTGAAGTAGGTTAATATAATTCTGTCTGCATTTCCCATTTGGTGAGTACCCACAATTTATGTTTGAATTCTT
ATCTTACAGATAAAAAGCAAAACAAAGCAAAAACTTCCTACTAAAATATTGTGCCTTCCCCTATCACTCACCACTAATTTATATCGGATGTTCC
AGTAAAATGACAACCATCAATGAAATAGCAGCTCAAACTGTCTGCAGCGTTTTCTAAGTAGTGGCAATGCCCTGGAGGCATTCAATAACATTAT
TAAAGATATTTGATTACTAATTGGGATTGTATATCACCCTATAACTGAAAACCTGAAGTGTCCAGAATGGGTTCCTAATCTTATAACATGACAC
TTAGCAAATGAAAACGGGGTTGGCCTCTACTAATGCCGGTGTTTTAATTTAATTTGCTGAAACAGGAGTTTGTAGGGGAAGTAGAATCACCTAG
CTTCATGTACGATATGATGATACCTCATGCTCCGCGCCACACATTGATTTTTAACTCTGGCGCATCAGGCTGATCTATCTCTCTATTTGTCAGT
TCTATTTTGGAAATAAAGTTTTAAGTATGACAGCTCCAAAAGGTGTTGAAGGCATTCCAGTGCTATTTGTGGCCTGGAATCAACCAGATGTGTT
TAGGCTTGGCAGTGGTTTCAAGTTCCAAACACTGGTTAGAAACTGCCTGGAATGGGAAAGGAAGCGCTAGGTTCTCTAGCTCAGGAGTATTTTA
ACACGCAACAAGTGGCTGGCATCCCATGGAAAACTCTAGCGGGGAGGGGGGGGGGGGAAACACCATTTGCAGCTAGTTCAGATCCTATGAAAC
ACATCTTTCTAGTTTGCATTTCAGATGGTTTCTTCCCTAAGTTTTACTCTTAGAATCCAATGACTGATCAGACACTCTTAGCATCTTCTTGCCT
CCAGTCTGTTCTTTCATAACGTAGCAGTTTGCTCCTGTTTGAGACTAGGCCCACTTTCAAAGCAGCTAGCTCATGATGGACCATACAAAACCAG
TGATGATACCATTTCTATTGCTCTCACTCAAGTTCTTGCCTTAAAACAAAACAAAACAAAACAAGACAAAACAAAACAAAACACAAAACAC
CGTAAGGATGAGAAGAATTGTCTGGCGGTAAAATGTTGTAGGCCACTAAAAATGTCTTGTTTCCCAGGACGTTTTTCCGTTTGAGACAGTGACA
AAGCCTCCATTTTGAGTTCCCCTTCAGCAGCCATCTGGTTAACCAATCACATTCGTTAGTAATCGGTAGAAAACCAGATTATGAGATGAAAATG
GACCTTCCTAACCGACTTGGGTTAGACCGAAGTGTGTCGATCTTTCAGACATAAGCAGACATGCTCATGCCTGAGTCGGGACACGATGACAGAA
TTCTTGGAAAGAGACTTCATGCCAAGCCACTAATCACCCTGTCGTCTTGTTCTTTCTCCCAGGAAAGAGACCACACCAGTGTCAGATTTGTAAG
AAAGCGTTCAAACACAAACACCACCTTATCGAGCACTCGAGGCTGCACTCGGGCGAGAAGCCCTATCAGTGTGACAAATGTGGCAAGCGCTTCT
CACACTCGGGCTCCTACTCGCAGCACATGAATCACAGGTACTCCTACTGCAAGCGGGAGGCGGAGGAGCGGGAAGCAGCCGAGCGCGAGGCGCG
AGAGAAAGGGCACTTGGAACCCACCGAGCTGCTGATGAACCGGGCTTACCTGCAGAGCATCACCCCTCAGGGGTACTCTGACTCGGAGGAGAGG
GAGAGCATGCCGAGGGATGGCGAGAGCGAGAAGGAGCACGAGAAGGAGGGCGAGGAGGGTTATGGGAAGCTGCGGAGAAGGGACGGCGACGAGG
AGGAAGAGGAGGAAGAGGAAGAAAGTGAAAATAAAAGTATGGATACGGATCCCGAAACGATACGGGATGAGGAAGAGACTGGGGATCACTCGAT
GGACGACAGTTCAGAGGATGGGAAAATGGAAACCAAATCAGACCACGAGGAAGACAATATGGAAGATGGCATGGAATAAACTACTGCATTTTAA
GCTTCCTATTTTTTTTTTTCCAGTAGTATTGTTACCTGCTTGAAAACACTGCTGTGTTAAGCTGTTCATGCACGTGCCTGACGCTTCCAGGAAGC
TGTAGAGAGGGACAGAAGGGGCAGTTCAGCCAAGACAGAGTTAGATGGAGTTGGATATTGTTTAAAAAAAAAAAACTGCATTATGCAAAAATTT
TGTACAGTGTTAAGGCCTAAAAACTGTGTGGTTCAGAGACTAATTCCTGTGTTTAATAGCATTTATGCTTTAAGCACAACTAGAAAATTCTAAG
AATTGCACTCTACGTATGTATCACTACAAACTTAAAAAAAATTATGTCTAATTTATATTAATACATTTTAAAAGGTGCCCGCACTACCATACAT
CAGTATTTTATTATTATTATTATTGTTATTCCTGTTTAATTTAATGTGCCCGCACTACAGTGCATCAGTATTACGATTCCTCAACACTTTCCTT
TCGCTATTCATGAATTTCCCATTGTTTTACAGCCTAAGTAACCACACACTTTTAGGCCTCAATTTTTTATTTTTTATTTTTTTCTGTGAAGGAA
CTTGAAGTGATGCATGTGTGAATTTAAGATACCGAAGTCTTAAAGTGACCTGGATGTGAAGGAAAAAGTAAGATGAGAAGTAAAGAAAGCCTTT
GTAAGGTGGTTTTAAAAGCCTTATGCAAACCTTTTAATCTGTGTCTCTGCAAGTGCCATCCTTGTACAGTGTTCAGAGGGTAACGAGGGTTACC
TTTGCACCAGCTTCAGTGTTAAGCTCACCGTGTTCTTTGAAGCACCCGTGTCAGTATTAGACGACTAGGCAGCAGTTCCTTAGTTTACATATGT
TTGTGCAATTATTTTCTGTACTTTTTTGTTCATTAATTTTGTCAGTATTACACCAAACTTTTTTTGCAACAAAAAAAAATTTTTTTTTGCATTC
ATTTAATTTTAGGTCAAATAACATTTTATTTATGTGGCTCATTTTATATTTCCTAATTTTATTTCATACTGTAGTGTACAGTATTAATAGT
TCTTCAATATATAGATATATTTTAGTAAAAAAGGAACATGACGTTGATCATTTGGGCAAATTTTACGTAAAGAGAAGAGCATTTATTGTGTTTT
GGAACATTAATTGTGAGATGGGATTTTTCAATTTTATTATTTTATTTTTGTTTTTGTTTTTCCAATTACTGGAGATTCCAAATTTGGAAACTTT
TGATACAATCTTGTGAAAACACTGTATTTTCGACTGAAAATTCCACTTTCTTCATCTTGTTTTTTAGCTAACCTCAAGAGGGACTGTTAAATAC
AATGTATGATACCATGACAAAAATCTTTCCTGAATTGTCTTTGTAAAAGTATTATTGAATTTTCAATTTGTAATTTCTTTTGAAAATGACCATG
CTCGAATAAAAATGTAGCCAAACTAAGAATGTAGTTAATGAGTTCTGTACTTTTAGAGAGCTTTCCTTCAATGACCATTAACATGTAACATGCT
TATGCTTATAATAATGCTAATTATGTTTTTCAATATAATTTTAGTTTAGCAATAATTTTGACTGGTACCAATAACTGTTTTTTAAAATTCCATA
CTTATGTACAGCAATTTTACAGCTTTTCTCAACTGATCCTGATTCCAGATTGTGTATTTTTTATGTGAGGTTATATTATTCAAATTTAGTCTAT
TTACTTTACAGACATTTCTACTTTTGCATTACAAGTATTTAGAGATTATGTGTTAAAAACTCACTTTTCTGTCCAAGGGGTCTTTGTGATTTAT
TCAGAAAAGTCTAATTTCAAAAAGACAGCTATTATTCAATGTTATTTATAATATGTAACTTTTTTTTCTAAGAGTTGGGATAATTTATCTCACTT
TTTGAAATGCAGACTGTAGCTTATCCTTTATCTAAGATTATAAAATGGGGGGTGGGTGGGAAAACAAAGCTAAAGGCACATGCTAACAAAAATA
ACCTTCATTTTCCAAGACAGTCTTTCAGTTTTACAAGACGACCCTAATAGTCAGTATATGAATGTATTCATAGGTTTTTACACAATGATTTTT
TTTATCAGAAACCAGATTCTAATTCCTAAATCTAATAACAAAGTCAGAATAATAATACAAAAGCAGATTACCTTATGAAATTTACAGCTCTTGA
ATATACGTAACTATAATATAGTAGCTGTCCACATATTTTTTCTACTTTAGAATCAAAAAACAAAAGCATGATTTTGCTATTGAATTTGCTAAAA

CTTTAAGTGTGACACCTCAAGTTGGCAAGAAAAACATATTTTTATTATTTAGCCATTTTCCTAAATTTCATAAACATTGTTCCTTGAAATGACA
CACACACACACACACACACACACACACACACACACACACATACATGCCCCAAGAGAGAGAAAAGATGTAATGACTATACAGAGGCAATTGAGCAGA
TACTTGTAGAAAGCATATTTTCAGCTCTATCTTCAAGCCTGGTGAGGACTGGCATTAGGAGAGATGGCATAAAGCATTCTGCTCCTGTCATCGC
TATACCAGAGTTTGCATGTTTGGAAAGTTTACAGCATTCTTTCCCTATTTCTCCTTCTTTCAATGGCACAAATAAATACACTACATAGAAATTT
TCCCGATTTTAAAGGCTCTAGGCGATATCTTTATTAATTCAACCTGAAAATATCAAGCCATTAAATTTTGTCTGGGTAGAATAAATCCCTGTGG
CCTCCTTTAAAGCAATGTAGGTCTCTGCTGCCCATGGGGCATATCTGTGTCCCTACCCACAAGAGACAGGACCAACAAAGAACACATGAGCAAC
ATACTCTTTCTCCCCAGAAAGAAGAAAGCATGCATGAGAAGGAGCAAAGGGGAGCACAGAGTCTCCCTCCCCTCCTGAAATCCCTCTTTCCACC
ATTGTTTTTACAAATTACTTTTCACAGGAAGGCTCAGAATACCTGAGTCTGCAAGGATCAGGTTAACACTTGTAAATTGTGACAATCACTACAA
TGTCCTATATCTTAAGGTTTCTTTCCTTTTTAAAAATGCAATTTAGCCACTAATAGTATTGCACATTAGAGCTGCATAATCTTCCAACTCCAGG
GAAGACTAAAACATTGGACTTATCCTAGGATTCCTTTCCAAGGTCATAAACAAGAAAGCCCTCCAAATCATGACACATAATCTCCTTTTCTTAT
CGAATACTCTTCCCTTGTTCTAGTCTTAAGTATTACCCTTTACCCCTGAGGATAGGGGCTGGGAAAAGGTGATGAAATCCTGGAACTGAACACC
CCGCCCATTTTCTCAAGAGCCTTTTGTATTCTAGCAGATCTGGGAGGTTCTTTCTTTTTTGCACATGACACTGTAGGCTTAGTTCTGAGAAACT
GGGCAAGAGAGATGAGATTTCTCAGCCAGAACTAACAGCGTTCATCTCCCTTAGCATGAACTTGAGCTTGCAGTGGAGTGGGAGGGCCTGAAGG
AGGAAGGAGAGAAGGGACTATATTTGAATAGGTATTAATAAATTTATTAGATACTTTTCACAATCAGATAACTTTAAAATGTTATTTTTTATCT
TCTAAGGACATAAGCCTTAACAACATCAAAATTTAGTCATAAATTTGAAGATATTCCCCAATAATAAGTTTATATATATACATATATATATATT
TGAAATAAAAAATTGTTAGCCATGTTTTTTTGCTCCAGGATGTGTGGCCATGCCAGGCTGTGAGCCCTGGATATGCACACAAACAAGTGTGTGT
GCTCTGAAGCCCCCGCACATTGTAATAAACACAGCTGCATTTATTTGAGTATGTGTTCCCGTGTACATGTAAAAACATCCAAACAAACACACTC
AGCAGATTTATTTCATGTGCAATGGGGCAATTATTCAAATAAATATGCTCAATACAATTATTTGAGTCTCGCATTTGCATGCTCATCACTCACA
GAACTAATACTAAAAGAGGGGGAAACACCAAAGAATTTACGTGGGGGAAAATATATGTGAAAGCAATGTTATTGTAGATGTTATAAGGTAGCCA
AAGCTATGGCTCCCTTCTTAACTGAAACACAATGATTTTGTATTCAGTGGCATTTGTTTCTAACGATGAATAGTTATTTCACTCACTTGATCAT
TACATCAGAAGGACTGCAGTGTTTAGATTCATATAATAGCAAACTTTAAGGACCTGAAGCAGATAAGGATGAGACATCTCTATATTTCAAAAGC
AGAATAGTTCTTTCTACATACTTTACATCAAAGGAACACTGATAAATTATTATGGCTCACATACGTAACTATAAATTTAAAATGTTATACATAT
AGAAAAACATTCCTACATTTTAAAACATTAAAAAGTCACAGATGACTCGTGTGATCATTTTATATATTAATAAATACTACAATATATATGTGAA
CACATTACAAATCATATTGGTGAACAAAGAGGCTGTAAAGCCTCTCTTCAGTATACTGACATAACCTAATATACTAAAATGGGAAGGGGCTTTT
AGTCACTGAATATGCATCGTGAAACAAAGATGAAGAAACTACATGGCTTGTGCCCATCACGAAAAAGATTCATACTGAAGGCTTAGCTTTGGTT
TTTATTCAATTAAATTGTCAAACTGTGCACAGTGAACTTTTTTTTTTTTTTAGAACTTGAGACATTTGTGATGTTGGCTGTTTAAATCTTTGTT
ACCTTCGCTGTGAATTGAAATTGTACATATTTAGTAAATCATGCAAACAAAACAAACTTTTTAGACAATATTTTTATTGGAGAGTTTTCTTTTC
CTGTATCCATGTTTAAAAAAAAAAGACCTCCTTTCCCAAAATAAAAAATGTCAATACTAAATTTAAAGAAGTATAAAGGAATAATTGCTTCCTT
TAGAGCAAATATTTAAATAAACATGGAGAGAATTGGCAACATGTTCTTTTGGGGCTAATAGGCTGTGTTCAATTTTTTGGGTTAAAGTTCCAGA
GGGCCTCTGTTTCACATTCAAAGATAATATATTAATCTCTGAATTAAAGAAATGCTCTTAGGTAACAGGATAAATCCCTCAGTCTTCATTTGTG
TGTGAAGTGTAGCATTCATCAGAGACATGACATTGAGACGACATGATGCTGAATATGCCACAAGCTAAAACACCTCTATTAAAACAGTCACCTA
CCACCTATAATCCAGTGTGACATATTAAAATACTCCAAAATACAGAGCATGGAGAATGAACACCATAATTCCCATTTGGCCTTGAGAAGAATAT
GACAAAGATTCTAATAATTTTTGTCAAAGAAAATGATGATTTAAAAATACATGAAGATTAAAGTGGTGACAAATGATCTTTTAAGTATTTCTAA
TTGGTCATCCTCATTCATAGCTTTGATTCCACAGAAATCACAAATCCTAAGGCCCCTGACTTGTGAGTGCGCCCCGTCAGCTTTCTTCATGCTA
CAGAATGTGGCTGTTAGGTAGGAAATGAAGGATAAGACCCCAATGTGTTAAAAATAGACTTCTTCTCCGGCAAGAAGTTTAAAATTGGCAAGGA
CAGGACTCAGAAAGAACGGCCTTCACATGAGGAAGCATTCAGAGAAAGATTGTTACCTTGTGATCTGACCATTTCCAGAACAGTCAAAAGGCTC
TCTCCCTCCNNNNNNNNNNNNNNNNNNNNNCTCTCTCAAGTGTGTGTGTATACGTTTGTATGAGTGTGTTTGAGTGTATAGGAGTATGTGTGTGT
GAGTGTGTATATAATGTATATATGTATAAATGTGCATGAGTGTTTGACTATGTATGGGTGAGTATGTATATGTGTGAGAGTGAGTTTGTATGTG
TTTGTGGGCATGTATGTATGTGTGTGTCAGTGAGCATGTGTGTATGTGTGTGAGTTAGTTTGAGAGTATGAGTGTGTAAGTATATGTATATTTG
TATGAGAGAGTGAGTATGTGGGTATGAGAGTGTGTGTAGCTTTACTAAGTTTACGTGTATAAAATTGGATAGATTGTATCTTTTAAAAACCAAT
ATTCAAGAGATGGAGTCTAAACAGAGGGCTTCTGAGATACTTTCTATTTGTTATCTTACATAAACTGAAAACATTTAAAATGTTGATACTGGAA
AAATACAAAGTTCTTAAGAGAGCTTCATAAAAACTGAAGAAAAAACTGAAACAATTTCTAAGGTATGTCAACAATTAAATAGAGAAAATATTAA
ATTAGCTTTTTTCCCCATCACTTAGAAAACTCAGACTTCTAAAATAGGGCCTTTCTTTAAACAATAATCATTTTTTGCCCATTCTTAAAATAGT
TGTATTATAGGGCAAATAATTACAGTATACTCCTGTCCAATTTTGTTTAGAGAAAGAGAAATATAGGCTTTAAATTACTTGAAAATGCTGATGA
ATAAAAGAATATAAATTTAGAAAGGAGACTCAAGAACACCACTAAACTCAAAGGAAGCAGGGCACTGCATTTAGTGACCACAGCAACCTGGATC
TTGGTTTTCACATGTCTTCTGAACAATATTACTTCCAACAGAAACATTTCCCAAAACTACAGGGCAGCCCAAGATCCTTGTGGGCACACGGGGA
AAGCACCAACTACTGAGTAACCCTCAACCACTTCCTGCCGTCTGAAACACTCTGTGGAGGTCTACCATCTCATTACTGAACATGCTTAGAAAGT
GTGAGGACATAGGATTCTGGTTAAAGGCAGGTCGAAAGCAAGAGGGAAAAGCAGAAGTGCAAGCCACCCTGCCCAACTTGTTTAAAAGGATATT
CCTCAAGTAAGCATGCCCAAGAGTAATCAACCTCAGTTCTAAGCACTCACCTTCCTTTTCCTCAACATCAAGAACGTTGACAATAGCCAAGACA
ATCCCCTAAAGGGGAGCTTTTGAATCACTTTAGAATAAACGGTGGTGGAATAGTCAACATAAGCTTCCAACAAGCAGAGTTCCAGCCACAAGAA
CTACTGCTACAGGTGTACCACCTTAATTTTGAAAATGATAATTAAACTAATGACTTTTTATATATTAAAAAAAAAACACATTTCCACTGGCGTT
TTCATTATAAAATCTCATGTTGTAAATTCCTTCATGACTGGGACAAAGTTATGGCATACTATCTACATTAAAATTGATTTAAAAAAGTGTTCCT
ATGAATAAAAGCTTTATGTTTGTAACATTGAGAACGATTAAAAAAAAAAAGCAATTAATCTATCACCCACACGTTATAGATGAAGAAACCGAGG
TCTGAAAATGCTTGAAAACACACAAGTGTTTGTTTTTAGCCCACAATAATCTGGAAAGCAGCTAACTGCATAAAAAGTCTAGTCCTCTGAAAGA
GAGTAACATAGCCTCTTCAAAGCATCACTTCAAACACCACAGTAAAATGTTCTTTTCAAAGGGCCCGAAGAAGCAGCAAAAGAGATGGGTTAGT
TCCTGCAAGAAGGTTTTCTTCTGGTCTATAAGAACTTTTCCATGCAAGAGCGAAATGAAAACAATCTATGTTGGAAGCCTGTGTTACTCTAAGC
TGTGACAACATCTGTACCTAGTCACTTCTTATCACGTAGAGTCTCCACTGACAGGCAGAGATGTTCTCAATTTTGAGAAATACTCTTCAAAAAT
CTGTAACTGTTGCTGCTTATAGCTGAAGAGACTGAGGTCTGCAAGTGCTTGAAAACACACAAGTGTTTGTTTCTATCTCACAATAATCTGGAAA
GCAGCTAGCTGCAGATTGCCAAAACTCTAGCCTTCTGAAACAGTGTTCTGTACTTTCTAAATACACCACAGAAAAAGGAGGAGAAAATAGGGCT
TGAGCTTTGCTCCAAGGAGCAGAAGCAGTTGGAGATTAACAAACCAGTAGCAGCAGAACTGATGGAAGAATACAAAAGAAAGTCAGAGTAGAAC
TCCTGGACACTTCCTAACCCAAGCCCTAACCTTCAGATGCTAAGGTTTAGTGAAACTAAAACCCCAGCTCATCCTGTAGCTACAGGGGACCCAG
AACCAGAGGTTGGGTCTCTCATTTTTACATAGATGATGTGATTGCTTTTCATTGTTTTAAGGGCAATTGAGTGAAAATAAAAAGCCATCCACTT
AATGGTCTAGGGATACAGTGGTATAGAAAGCAACCACACACCCCTTTAAGAATGTACATTCCAGGTGGGAAGGGAGAACAATTACAAGGTCCCA
GCGGATAGGACAGCTTAGTTAAAAATAAAAGCAAGTGAGAAAATAATGAGCAAGATGGATGTGGGGGCTAGGATTTGGGGTGTCAGGAAGAACC
TCATGGGGAGTTGAGATGAAGGATAAGAAGAAGTAAGGCATGGGAAGAGCTGGAACAAAGGTGTAGGAACAACAAGTATAGACACGAGGCACAA
GCGAGGCTGGCTTTGTGGACTAGAAAGTCCCCCTATGAGTGTAGTGTAAGAGGGGCAGAGATAAAGCCAGAAGACCACAGGCTTTTGATGAACT
TCTTAGGTTATTTGGTCCAGTGTCTTATTTGCGTAGGTGAGAAAATTGAATTTAGTAATCTCTTGAGTTTTGTACAGCGGTAGTCTGAGGATGG
GATCATTAACCCCAGTGAATTGCCTGTAACGAATTTTGCAGCCCTGTGTTTTGGAATGGGGGGAACCTCTTTTTCTCAGACGTTTGCACCTGCC
TTGTATCTCGTCACAGGCAGATCCGTCACACTGGAAAGCAGAAATTGTTTGGCCCAAAGAAAGTTTGTATTCTGAAAACTGAAGCACTAGCTAT
GGCAAATGGGATGCTGGTGGAAGCCCTTTCCCCAGTAGGCGTTTTCCAGCCAACTCCCCGTGGTTGCTAGTCTGCTCAAAACAGCTGGGCTCGA
ATCAGGCATAAGCAAGGGCCTCAGCCATTTCCCCTTCCTCTGAACTTCTTTTAAAAAAAAAATACAAAACCTCACAGAGCTGCGAGAGAAGCC
AATAAGAAGTAAGGAACGTGCAGCAGGTGGTACCATCTGTGCCCGACTAATTCCAGCCAAAACAATCTGCTCCCTCGAGTTCCCAGTTGTGGGG
AAGGGAAGAGAATCTGACAGCGGCAGAGTCAGGGGAGGGGGTGGAGGAGGGCAGCGCTGAGTCTATTATTCCGGCGATCCGCAGGTGGGAGGAG

GCAGGTTATTGATGCCAGTGAACTATTATCTCTGTCTTTTGCTCTTTACAACCACGGAGGGAGATCTCTACAGCGCGTTCTTGCTAAGCTGGCA
ACTACATCCCACACCTGAGAGACAGACGTGCAGGCTTGACTGTGAGCCTGTCACCACTGAGATGGGAGGGACAGCTTGGCAAGCGCAGCCCACC
CCAAAGTGAAAAAGTAAACAAGAGGGCAGGGAGATGATGTTTATTTTATTCTATTTTCCTAGCAACCGAATGCCCTCTGTCTCCATGTTCATTC
TTTGAAAATTACCCACAGCTTAAACTGGGCTTAGTGTCCACATGCTTTCACCCCGGGATGGCATTTTCCGAAGCAAACTCCTTGCCATCGATGG
ATTCCTTACGAAGAACGCATCTCCCTTGGCATACTTAAAACCTGGGGTGAATAAATGCACTAGTTCAAGGATAAATGAAGTCGTCTGCTTTTCT
TTAGAGAGGAACAGAAAGGGACTGAGACAGAGCATACACACCGTTGTAGTGTCCCAGGAAAATACATCTTCTGAAAAGATTCTCTTAACCCACG
GCAAAAATTCCACCAGTGCGTTTAGGTTAAGGCACCATCCAAGGATCGTACTAGTATTTGTTAAAGGCATCTAAGGAGGGACATTTGCGTTACT
GCATTTCTTTCCGCTAGCTTACCTTTGCTACAGCTGGGGGTTGAGCTCTAAAAGATGGGTGCATTCGTCCAAGAGGGCGTTCAGAGGCTTGAAG
GGAGAGCAGCAAGAAGCATTCATACATGAAAAGCAGTCAAAGTGGGAGAAATGACTGGAAAGGAAAAAGTGCTTGATCCTAATCTCAGTTAGAT
AGAAGTTCACCTTCCCTCAGAGTGTCTGCTGAAATACTGTGGATACGTGTGAGTACAACCTTACTAGGAAACAGGTCTTTGCAGATGTAGTCAA
GATAAGCCGAGGCTACTGTAGTGCACTAATGCAATATGACACACTTACACAAGGAGGCTTTGACAAGACAGTGGCAGA

MOUSE SEQUENCE - mRNA

CGCCGAGTCCATGCGAACTGCCATCTGATCCGCTCTTATCAATGAAGCAGCCGATCATGGCGGATGGCCCCCGGTGCAAGAGGCGCAAACAAGC
CAATCCCAGGAGGAAAAACGTGGTGAACTATGACAACGTAGTGGACGCAGGCTCGGAGACAGATGAAGAGGACAAGCTTCACATTGCTGAAGAT
GATAGCCTTGCAAACCCTCTGGACCAGGACACCAGCCCAGCTAGCATGCCCAACCATGAGTCCTCCCCACACATGAGCCAAGGGCTGCTACCAA
GAGAGGAAGAAGAGGAGGAGCTAAGGGAGAGTGTTGTGGAGCACAGCTGGCACAGTGGCGAGATTCTGCAAGCCTCTGTAGCCGGTCCAGAAGA
AATGAAGGAAGATTATGATGCAATGGGGCCAGAAGCCACGATCCAGACCACAATTAACAATGGTACAGTTAAGAATGCAAATTGCACATCAGAC
TTTGAGGAATACTTTGCCAAAAGAAAACTGGAGGAAAGAGATGGCCACGCAGTGAGCATCGAAGAGTACCTTCAGCGAAGCGACACGGCCATTA
TTTACCCAGAAGCCCCTGAGGAGCTGTCTCGCCTTGGCACGCCAGAGGCCAACGGGCAAGAAGAAAATGACCTGCCACCTGGAACTCCAGATGC
TTTTGCCCAACTGCTGACCTGCCCCTACTGCGACCGCGGCTACAAGCGCTTGACATCGCTGAAGGAGCACATCAAGTACCGCCACGAGAAGAAT
GAAGAGAACTTTTCCTGCCCTCTTTGTAGCTACACGTTCGCCTACCGCACCCAGCTCGAGAGGCATATGGTGACGCACAAGCCAGGGACAGATC
AGCACCAAATGCTAACCCAAGGAGCAGGTAACCGCAAGTTCAAGTGCACGGAGTGTGGCAAGGCCTTCAAGTACAAGCACCACCTGAAAGAACA
CCTGAGAATTCACAGTGGTGAAAAACCTTACGAATGCCCAAACTGCAAGAAACGCTTCTCTCATTCTGGGTCCTACAGTTCACATATCAGCAGC
AAGAAATGTATTGGTTTAATATCAGTAAATGGCCGAATGAGAAACAATATCAAGACGGGTTCTTCCCCTAATTCTGTTTCTTCTTCTCCTACTA
ACTCAGCCATTACTCAGTTAAGGAACAAGTTGGAAAATGGAAAACCACTTAGCATGTCTGAGCAGACAGGCTTACTTAAGATTAAAACAGAACC
ACTAGACTTCAATGACTATAAAGTTCTTATGGCAACACATGGGTTTAGTGGCAGCAGTCCCTTTATGAACGGTGGGCTTGGAGCCACCAGCCCT
TTAGGTGTACACCCATCTGCTCAGAGTCCAATGCAGCACTTAGGTGTAGGGATGGAAGCCCCTTTACTTGGATTTCCCACTATGAATAGTAACT
TGAGTGAGGTACAAAAGGTTCTACAGATTGTGGACAATACGGTTTCTAGGCAAAAGATGGACTGCAAGACGGAAGACATTTCAAAGTTGAAAGG
TTATCACATGAAGGATCCATGTTCTCAGCCAGAAGAACAAGGGGTAACTTCTCCCAATATTCCCCCTGTCGGTCTTCCAGTAGTGAGTCATAAC
GGTGCCACTAAAAGTATTATTGACTATACCTTAGAGAAAGTCAATGAAGCCAAAGCTTGCCTCCAGAGCTTGACCACCGACTCAAGGAGACAGA
TCAGTAACATAAAGAAAGAGAAGTTGCGTACTTTGATAGATTTGGTCACTGATGATAAAATGATTGAGAACCACAGCATATCCACTCCATTTTC
ATGCCAGTTCTGTAAAGAAAGCTTCCCGGGCCCTATTCCCCTGCATCAGCATGAACGATACCTGTGTAAGATGAATGAAGAGATCAAGGCAGTC
CTGCAACCTCATGAAAACATAGTCCCCAACAAAGCTGGAGTTTTTGTTGATAATAAAGCCCTCCTCTTGTCATCTGTACTTTCCGAGAAAGGAC
TGACAAGCCCCATCAACCCATACAAGGACCACATGTCTGTACTGAAAGCATACTATGCTATGAACATGGAGCCCAACTCTGATGAACTGCTGAA
AATCTCCATTGCTGTGGGCCTTCCTCAGGAATTTGTGAAGGAATGGTTTGAGCAAAGAAAAGTCTACCAGTATTCGAATTCCAGGTCACCATCA
CTGGAAAGGACCTCCAAGCCGTTAGCTCCCAACAGTAACCCCACCACAAAAGACTCTTTGTTACCCAGGTCTCCTGTAAAACCTATGGACTCCA
TCACATCGCCATCTATAGCAGAACTCCACAACAGTGTTACGAGTTGTGATCCTCCTCTCAGGCTAACAAAATCTTCCCATTTCACCAATATTAA
AGCAGTTGATAAACTGGACCACTCGAGGAGTAATACTCCTTCTCCTTTAAATCTTTCCTCCACATCTTCTAAAAACTCCCACAGTAGCTCGTAC
ACTCCAAATAGCTTCTCTTCCGAGGAGCTGCAGGCTGAGCCGTTGGACCTGTCATTACCAAAACAAATGAGAGAACCCAAAGGTATTATAGCCA
CAAAGAACAAAACAAAAGCTACTAGCATAAACTTAGACCACAACAGTGTTTCTTCATCGTCTGAGAATTCAGATGAGCCTCTGAATTTGACTTT
TATCAAGAAAGAGTTTTCAAATTCTAATAACCTGGACAATAAAAGCAACAACCCTGTGTTCGGCATGAACCCATTTAGTGCCAAGCCTTTATAC
ACCCCTCTTCCACCACAGAGCGCATTTCCCCCTGCCACTTTCATGCCACCAGTCCAGACCAGCATCCCCGGGCTACGACCATACCCAGGACTGG
ATCAGATGAGCTTCCTACCGCATATGGCCTATACCTACCCAACGGGAGCAGCTACCTTTGCTGATATGCAGCAAAGGAGGAAATACCAGAGGAA
ACAAGGATTTCAGGGAGACTTGCTGGATGGAGCACAAGACTACATGTCAGGCCTAGATGACATGACAGACTCCGATTCCTGTCTGTCTCTGAAAG
AAGATAAAGAAGACAGAAAGTGGCATGTATGCATGTGACTTATGTGACAAGACATTCCAGAAAAGCAGTTCCCTTCTGCGACATAAATACGAAC
ACACAGGAAAGAGACCACACCAGTGTCAGATTTGTAAGAAAGCGTTCAAACACAAACACCACCTTATCGAGCACTCGAGGCTGCACTCGGGCGA
GAAGCCCTATCAGTGTGACAAATGTGGCAAGCGCTTCTCACACTCGGGCTCCTACTCGCAGCACATGAATCACAGGTACTCCTACTGCAAGCGG
GAGGCGGAGGAGCGGGAAGCAGCCGAGCGCGAGGCGCGAGAGAAAGGGCACTTGGGACCCACCGAGCTGCTGATGAACCGGGCTTACCTGCAGA
GCATCACCCCTCAGGGGTACTCTGACTCGGAGGAGAGGGAGAGCATGCCGAGGGATGGCGAGAGCGAGAAGGAGCACGAGAAGGAGGGCGAGGA
GGGTTATGGGAAGCTGCGGAGAAGGGACGGCGACGAGGAGGAAGAGGAGGAAGAGGAAGAAAGTGAAAATAAAAGTATGGATACGGATCCCGAA
ACGATACGGGATGAGGAAGAGACTGGGGATCACTCGATGGACGACAGTTCAGAGGATGGGAAAATGGAAACCAAATCAGACCACGAGGAAGACA
ATATGGAAGATGGCATGGGATAAACTACTGCATTTTAAGCTTCCTATTTTTTTTTTCCAGTAGTATTGTTACCTGCTTGAAAACACTGCTGTGT
TAAGCTGTTCATGCACGTGCCTGACGCTTCCAGGAAGCTGTAGAGAGGGACAAAAAGGGGCACTTCAGCCAAGTCTGAGTT

MOUSE SEQUENCE - CODING

ATGAAGCAGCCGATCATGGCGGATGGCCCCCGGTGCAAGAGGCGCAAACAAGCCAATCCCAGGAGGAAAAACGTGGTGAACTATGACAACGTAG
TGGACGCAGGCTCGGAGACAGATGAAGAGGACAAGCTTCACATTGCTGAAGATGATAGCCTTGCAAACCCTCTGGACCAGGACACCAGCCCAGC
TAGCATGCCCAACCATGAGTCCTCCCCACACATGAGCCAAGGGCTGCTACCAAGAGAGGAAGAAGAGGAGGAGCTAAGGGAGAGTGTTGTGGAG
CACAGCTGGCACAGTGGCGAGATTCTGCAAGCCTCTGTAGCCGGTCCAGAAGAAATGAAGGAAGATTATGATGCAATGGGGCCAGAAGCCACGA
TCCAGACCACAATTAACAATGGTACAGTTAAGAATGCAAATTGCACATCAGACTTTGAGGAATACTTTGCCAAAAGAAAACTGGAGGAAAGAGA
TGGCCACGCAGTGAGCATCGAAGAGTACCTTCAGCGAAGCGACACGGCCATTATTTACCCAGAAGCCCCTGAGGAGCTGTCTCGCCTTGGCACG
CCAGAGGCCAACGGGCAAGAAGAAAATGACCTGCCACCTGGAACTCCAGATGCTTTTGCCCAACTGCTGACCTGCCCCTACTGCGACCGCGGCT
ACAAGCGCTTGACATCGCTGAAGGAGCACATCAAGTACCGCCACGAGAAGAATGAAGAGAACTTTTCCTGCCCTCTTTGTAGCTACACGTTCGC
CTACCGCACCCAGCTCGAGAGGCATATGGTGACGCACAAGCCAGGGACAGATCAGCACCAAATGCTAACCCAAGGAGCAGGTAACCGCAAGTTC
AAGTGCACGGAGTGTGGCAAGGCCTTCAAGTACAAGCACCACCTGAAAGAACACCTGAGAATTCACAGTGGTGAAAAACCTTACGAATGCCCAA
ACTGCAAGAAACGCTTCTCTCATTCTGGGTCCTACAGTTCACATATCAGCAGCAAGAAATGTATTGGTTTAATATCAGTAAATGGCCGAATGAG
AAACAATATCAAGACGGGTTCTTCCCCTAATTCTGTTTCTTCTTCTCCTACTAACTCAGCCATTACTCAGTTAAGGAACAAGTTGGAAAATGGA
AAACCACTTAGCATGTCTGAGCAGACAGGCTTACTTAAGATTAAAACAGAACCACTAGACTTCAATGACTATAAAGTTCTTATGGCAACACATG
GGTTTAGTGGCAGCAGTCCCTTTATGAACGGTGGGCTTGGAGCCACCAGCCCTTTAGGTGTACACCCATCTGCTCAGAGTCCAATGCAGCACTT
AGGTGTAGGGATGGAAGCCCCTTTACTTGGATTTCCCACTATGAATAGTAACTTGAGTGAGGTACAAAAGGTTCTACAGATTGTGGACAATACG
GTTTCTAGGCAAAAGATGGACTGCAAGACGGAAGACATTTCAAAGTTGAAAGGTTATCACATGAAGGATCCATGTTCTCAGCCAGAAGAACAAG
GGGTAACTTCTCCCAATATTCCCCCTGTCGGTCTTCCAGTAGTGAGTCATAACGGTGCCACTAAAAGTATTATTGACTATACCTTAGAGAAAGT

CAATGAAGCCAAAGCTTGCCTCCAGAGCTTGACCACCGACTCAAGGAGACAGATCAGTAACATAAAGAAAGAGAAGTTGCGTACTTTGATAGAT
TTGGTCACTGATGATAAAATGATTGAGAACCACAGCATATCCACTCCATTTTCATGCCAGTTCTGTAAAGAAAGCTTCCCGGGCCCTATTCCCC
TGCATCAGCATGAACGATACCTGTGTAAGATGAATGAAGAGATCAAGGCAGTCCTGCAACCTCATGAAAACATAGTCCCCAACAAAGCTGGAGT
TTTTGTTGATAATAAAGCCCTCCTCTTGTCATCTGTACTTTCCGAGAAAGGACTGACAAGCCCCATCAACCCATACAAGGACCACATGTCTGTA
CTGAAAGCATACTATGCTATGAACATGGAGCCCAACTCTGATGAACTGCTGAAAATCTCCATTGCTGTGGGCCTTCCTCAGGAATTTGTGAAGG
AATGGTTTGAGCAAAGAAAAGTCTACCAGTATTCGAATTCCAGGTCACCATCACTGGAAAGGACCTCCAAGCCGTTAGCTCCCAACAGTAACCC
CACCACAAAAGACTCTTTGTTACCCAGGTCTCCTGTAAAACCTATGGACTCCATCACATCGCCATCTATAGCAGAACTCCACAACAGTGTTACG
AGTTGTGATCCTCCTCTCAGGCTAACAAAATCTTCCCATTTCACCAATATTAAAGCAGTTGATAAACTGGACCACTCGAGGAGTAATACTCCTT
CTCCTTTAAATCTTTCCTCCACATCTTCTAAAAACTCCCACAGTAGCTCGTACACTCCAAATAGCTTCTCTTCCGAGGAGCTGCAGGCTGAGCC
GTTGGACCTGTCATTACCAAAACAAATGAGAGAACCCAAAGGTATTATAGCCACAAAGAACAAAACAAAAGCTACTAGCATAAACTTAGACCAC
AACAGTGTTTCTTCATCGTCTGAGAATTCAGATGAGCCTCTGAATTTGACTTTTATCAAGAAAGAGTTTTCAAATTCTAATAACCTGGACAATA
AAAGCAACAACCCTGTGTTCGGCATGAACCCATTTAGTGCCAAGCCTTTATACACCCCTCTTCCACCACAGAGCGCATTTCCCCCTGCCACTTT
CATGCCACCAGTCCAGACCAGCATCCCCGGGCTACGACCATACCCAGGACTGGATCAGATGAGCTTCCTACCGCATATGGCCTATACCTACCCA
ACGGGAGCAGCTACCTTTGCTGATATGCAGCAAAGGAGGAAATACCAGAGGAAACAAGGATTTCAGGGAGACTTGCTGGATGGAGCACAAGACT
ACATGTCAGGCCTAGATGACATGACAGACTCCGATTCCTGTCTGTCTCGAAAGAAGATAAAGAAGACAGAAAGTGGCATGTATGCATGTGACTT
ATGTGACAAGACATTCCAGAAAAGCAGTTCCCTTCTGCGACATAAATACGAACACACAGGAAAGAGACCACACCAGTGTCAGATTTGTAAGAAA
GCGTTCAAACACAAACACCACCTTATCGAGCACTCGAGGCTGCACTCGGGCGAGAAGCCCTATCAGTGTGACAAATGTGGCAAGCGCTTCTCAC
ACTCGGGCTCCTACTCGCAGCACATGAATCACAGGTACTCCTACTGCAAGCGGGAGGCGGAGGAGCGGGAAGCAGCCGAGCGCGAGGCGCGAGA
GAAAGGGCACTTGGGACCCACCGAGCTGCTGATGAACCGGGCTTACCTGCAGAGCATCACCCCTCAGGGGTACTCTGACTCGGAGGAGAGGGAG
AGCATGCCGAGGGATGGCGAGAGCGAGAAGGAGCACGAGAAGGAGGGCGAGGAGGGTTATGGGAAGCTGCGGAGAAGGGACGGCGACGAGGAGG
AAGAGGAGGAAGAGGAAGAAAGTGAAAATAAAAGTATGGATACGGATCCCGAAACGATACGGGATGAGGAAGAGACTGGGGATCACTCGATGGA
CGACAGTTCAGAGGATGGGAAAATGGAAACCAAATCAGACCACGAGGAAGACAATATGGAAGATGGCATGGGATAA

HUMAN SEQUENCE - GENOMIC
CTGCTGACACAACCCTACTCCCAAATTTGCAGGCAGGAGAGTGAAGCAATGTCTGTACTCTATACATAGTCTTACTTTTTTCTTTTCTTTTTTA
AAGTAGCTGTTTCAGCATTCAACTGGGGGCAAGAGGGGTTGGGGGGTGGAAAAAGATAGTGCAGGCAAACTTTCTCAGTGCTATTCCATCCCTC
TATGTCTCCCCACTCCTTCACACCTCTGAAGTTATGGCAAGACTAGGTAAAGAGTTTTGAACAATATTGAGACCCTCTTATATTTACCTTGAAC
AAATAGGATCTTTGACACTTCTTGACCACACTCAGCTGCCTGCAAGAGTGCTTCCTCCTATAGCAAGTCATATCGGGAGAATTCGCTGAAGAAA
GGTTTTTTCCTTACAATTGCAAATGAAAGTATAAAATAGATCACCAAATTTTAAAGTGTGCATATGTCCTCATCTCAGCTGTTGACATCATATT
TATAATCATGAGCACGCCAGGTTTCCTACAACTTAAGAAATTCTATGACCATATTACTTTTCCAACTTTATCAGTAAACATTGATTTCTGTATA
ATGCAGAAACCAGTTAAATAATTTCTGGCCGGGTGCAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATCACCTGA
GGTCAGGAATTCGAGACCGGCCTGGCCAACATGGTGAAACTCCGTCTCTACTAAAAATACAAAAAATTAGCTGGGTGTGGTGGCAGGTGCCTGT
AATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCACTTGAACCTGGGAGGCGGAGCTGGCAGTGAGCCAAGACTGTGCCACTGCACTCCAGC
CTGGGTGACAGAGCGAGACTCCGTCTCAAAAAAAATAAATAAAAAATAAAAATAAAATAAAATAAACAACACCTAAAAGACATGTTACATCCAC
TCTGGTTTTCCATAATTTAACTTCATGTATTTTTCAGGTAATTCATGATAGTAGGAATTACTATTTATTGATACACCTGCTCTGTGCCAGACAT
TTTGTATACAGTCATATTTTCTTTACCACAACCAGCTTGAATCTAAGTACTCCTTTACCAATTTTTTTTTTTTTTTTTTTTTTTTGAGACAG
GGTCTCGCTCTGTTGCCCGGGCTGGAGTGCATGGAGTGCAGTGGCACCATCTCGGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGCAATTCTC
TTCCTCAGCCTCCCGAGTAGCTAGGATTATAGGCATGCACCACCACGCCGGGCTGGCTGATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCA
TGCTGGCCAGGATGGTCTTGAACTCTCGACCTGGTGATCCACCCTCCTCGGTCTTCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCACCCA
GCTCCTTTGCCTACTTTAAAAATAAGGTTCACATGGGTAAAATAACTTGTCCTCAATACACAATTAGTATTTACCAAGCAGGGAGCCACATCCA
GTTTATCTAATTCCAAAACCTGTATCTTTGTCACTATAATATGCTAACATTGAGGATCTAGTGTCAAATATACTAATGTCCAGTTTCCAGTCAA
CAAGTGCTAACAGAAGTTGTATAAGAAATAAAAACTATTCCACGACATCTCTGGACCATGATGTCTCCTTCATCACTAACTTGTCCTGTGCCTG
GGCCCAATGTTGGAGCCAGTTGAGCTAGCAAGAACCTCCCATGGGAGCTTTTCCTAAGTCGGGTGCCTGGGAGAAGAGACTGGACCAGAAAATA
CACTTTATCTGGGAAGCCAGAGGCACCAAAGCCAGAGAAACTTTGGCTCAAGGACTTGAGCCAATATTGTAACTGGAAAAATGAGCCTAAGTGT
TAGGTCCAAAAGGCAAAATAAGCCATACGTGGAAAAACAAGGGCCAATCACAGCATCCAGGAGGCCTGGAAATGGGTCACAATGTGCAGAGCGG
GTGGGCACAAGTGGGTCAGAAACACATCTGGGAAAGGTAAAAAGATGTTGGATGTCACATGAATATGGTGTTGGCCCTGGGGGTGGACGTGGCA
GATTCAAAAGCACACCAAGAACCAGATGCTTGAATTGTGGGGAGTCACTGACTCTCCCTAAGCCACAATTTTCTCAGCTAATAAAATGGACCCA
GTTGTAACCCCTTCAGATCTGCTATCAGAATTAAATGATACGTGAAAGGATTTAGCATAGTGCCAAGCCTAGAAAAGCAGGGGTTTTTTTTCCT
TAGCTATTATTACTTTATATTTGTGATTGCCATGGAGATGATAATAAATTTTGAGAGTAAAGTTTTTACATTTAAGTACCTGAAAGAACCCTGA
AAAAAAAAATTCACCCTTAGAATGGTACAAAATTAAAACTGAGTACAGAACAAAGTTTATAGTTTGAGCCTTTTAACAGAATAAAGAGTATTAA
AGAAGACCTTGAAGCAAGCATGAAGTAATTTCCAGGTCACTAGACAATTTGCAGGTGCAAACCATTTCTAGTCCCATTGTCAGAGGGAGAAAAA
AGGTACAGGTCACACCCAGTCCCCTACGCTGATGTCCAAATGTCTGGTTTGGTAGTTTTGACCTAAAAGGAGCATGGAATGGATGCTTTCAAAA
TAGAAACAATTAACAGACCCTTTAAGAACTACAGATATAAGTGTTTTGAGAAGTCTTAAAGAAAACAAGAACAACCAAAAACTATCAGTGTTAG
TATTACATCACGATAGTTTTTCCCCCTGGCATTTGCATTGATTTTTCAGTTTTACATCAAAAAGAAAATCTGGCCTTGTGGACATTTAAGAGAC
TAGGGAATTTCATTTTCCACTTAATACACTGATTTTCTTCACCACTCTAGGTACTTGAAATTAGCGCAAACCCCAGGACAGCTACAATTCCAAA
AGGGAATGCTCAGTTCATTATGAATGGTCTTAAAGCAAACAGTGCTCTGACAGCCAAATTCCTGGTCTTCAAATTTGTAAGTTTGCCCTTTTTT
TCACAAGTCTTACTCAAGACCGCTTCTGAGCTTTTGCACATTTAACCCTTACACTAAAAGACAATATGTTACTAAAGAGCATGGGAAACTTCAA
GTTCATACATTTGGACTAAATTCCTTTTCAAAAGAAGTCTAATATTTATAACCAAATTATGACCATATTGAATACACTAAATTAACTGCTGAAC
TAACAGAAAGGAAATACTGTATTTATTTTCACTTCTGTGGCTACGCATCCTTTGAACAGTTCGAAAAAATCATAAACCAGCCATAAATCCTAAA
ATGCTTTTCATTTTCTTTCTTCACGTAATAACACAGCACTGATTTTTCAATAAAAAATATACTGTAAATAGTTGTTATTTTTAATAATCAAAAT
TAATTTGTACCATCTTTAGTTGATCTGTATATTTGTTTAACCTTTCATTATAATAATAAAGCTACAATATAGTGAAGTTTTATGCATTACTTCA
TTTAATTCTCAATAAAATCCCAAGGGATAGCATTATTAGTGTACCCACATTGGAGATTAAAAATAAAACAAGCTTATAGGAGACTGCTTATAAT
CACACAGGTAGTCATTTGCAGGGCTAGTATTCAAAATAGATATTAATACTTTGGACTTTAACTGGCACAGGAGAATAAAAATATCAGGGATACA
CTTACTTAATCATTTTTAATAATTTAAATCAGCCCATATGTTAGTAAGTAAAAGATAAAAAATGATCCTAAATACCAGGCCTGAGTTATTTGTC
AATTGCTGCAATTTTCCACTTTTAGACTTGAATTAATAGACATAACTAAAAATTTAAATGACAAAATTCCAATAAGAAAACATAGTGCATAATT
AGTGCACATCTCTGGATTTGGGGAGGAGAGTGACTTGATTTTACATAGAGTATTGTTTTTCCTAATTAATTGTAGTGTGCCACATATTTGTATG
TGAATGCCTCATAAATGGTTTACAAATTGTTAAGAAGTTTATGGATATCTAGAAAGAATATTACAGCTCAATAAATAAACTTTTACAAGTGTAG
AAGAGAAATTTTGCATTAAAATGTGACTTTGTTTCTTCATCCTGAGAGAATGAATTTTTAAAAAACACATTTAAAATCAAGCATTAGATATGCA
AATATGTGTTCAGATCAGAGATACTAAAATTATTCAAATGATTAATTATTCATCATAAAATGTCAATTAATAATTATGAAGCAGAAAAGGCATC
TTTCTAATACATCTTTATTTTTCTTGGCCTAAAAAGGGCTAAATATACATGTTCAATTGACTTCTATCAAGTTTTAAAATTCAACAAAGTAAA
CAAATTGTAAACAAGTGAAAACTCTGAATTTTAATGAGAACAACAAATATGCCCAAAGTGAAGGGAAGAGCAAAAAATAATAATAAAGAAAACA
AAACAAAAACAGTTATGTTCATGACATATGCCGCCTCATGCTCACTCACCTGCTAGGTAACGGACAGTAACCTAGCCTAGTCAAGAAAATAACC
CAACAACCCAAGTTGTGAATTTGCTTAGTAATGTGCAAACTACGTGACATGATGATGTTTCTCTCTGAATTGATCAATCTTTGTTGGGGTTCAG

GAGGAGTGCTTTGGGAATTTTTTACCCTTTGCAAATAGTCATCAGAAGAAAAGCGCAGTTTAAGTTTCATAAAATTACCTATTGTAATGTCTAA
AGTCTGTTAACAAATTAAGTACTACTAAAATATGGCTGTAAACAAACTTTTTCACATTGCCTTAATTCTAAAGAATGCCCCTATGCCAAGCATT
ATGCATTTTTTCCAGGAAGACTATATCTATTATATCTTGTCTTTTAAAATTATCAGTCTGAGCTGATGTGATAATATAGAAGAATAAACCATTA
TGGTCACTGAAATATTGATTTATTTTATTTTTATTATTATTATTTTACTTTTCACTGACACCTGGTGAACTTGTCGTCTCTGAGACCCGGGGAG
TTATTTTAGTCAGGGTGTCCCTGCCCTCCTGCTGGTAGATTAATTACACATTAAACGTTCTGTTTTTCAAAACGAAATGATAAATCTGGACACAT
AAAAGAGGCACAAAAAGAATCACAGCGAGGGAGAAGAGTGGATGTTAAGAAAGAAAACAAGAAATTGCAAAAGGGAGATATCAGATAGAAAGGA
GAACGTAGGAAATGCAACTGGGAAAGAATTTCAAGAAAATAAGGATAAAGGGCAGGGAGGGCTGAAAGGAGGGCCAGAGGGAGGAAAAGCAGGA
GGGAGATTTTTGGTTTTCAATTCCCTGGTGAGGCTGCTGGCGTCCGCGCCCTCAACGCCCCAGCCTTCCAAGTTGAGGCGAAAGCCACCTCCTC
GGGCCTGCGTCGCATCCAACTTACTCCAAGTTTTCTGGTGACTCCTACAGGGCCCCTTTCCGTCCCCCCCCCCGCTCCCCGCCCCCCAAGCCTT
AGTGAGATTGACAGTCGCGTGGAGGAGGCTTTTCCAGGCACAGCCTTTCTCATGGTAATCAGCCCCCGGCATCACCTCCCGGCCGCGGCTGCGC
CCGCTCGGAGCGCGGCTCGCGGACCCCGGGGACCGGAAACAGGGCGGCGGGCGGGGAGCAGGCGAGCGAGCCAGGTCAGCTGACCGGGCGGCGG
GCGGGGGTCGCAGGATCCCGGGCGGGGACAGGTCTGGGGGAGGGCGGTCTGGTGGGAGGGGGCCGAACACCGCCCCCCCCCGCGACGCGCTCCT
CCGCCTGTGCAGCGGGGCCCTTCCTGGAGATCAAATGCAGGGACCGAAGCTGGCGGCGGGGGTTGGGGCGGGGTGTGTGGGGGGGGGAGTGGCA
GAGCGCGCGGAAAATTGGGGACAACAACCAGACCTGTTTAGCATCAATAAATTAAGATGCTCATTTGGGTCCTGAAGTTTGCTGGTTCCTGTCA
GTAGAGACGTTGGCAAAAGCCCTGAAGCCGAGATTCAGCCTTTACTTCAAAAAAATAAAATAAAATCAACCCCTCAGCTGGCCGCCCTGCTGGG
GCCAGGTGACGTGCGAGATTCCACAGCCTGCGGGTCTCGCAGCAGGGATGTTAGGGACGGTCTGAGCTTCTCTGGTCCTGTTTTGGTTTTGTTT
GAAAGGGCTTCTCAGAGAGATGCTCCTGATTTTTTTTTTTTTTAATAGACTTTCCCCTCCTATCCTAGGCTCAACTCCGAATGGATTGGATTGCG
AGTCTGCACGTGAGAAAACCGTTTGGCTTGGCTTGGACCCCTGCCGCCCCCCACCTCCTCCACACACACCCAGTCCAGGGGTCCCCTTTATCAC
CCTTTGCTTGCAACTCCAAAAGAAGTTGCCCACCTCCTGAGTCACAACACAAGGTCGAATAATTCCTCTAGATGAAAGATCAGTTTCATTTCAA
AACGAGAATAGGTTCCTTTTTTTTATTTTCTCCACATGGTACAAAATAAACAGAATTTGCTTTAAAAAAAATCATTAGCTGTGGCCAAATTCGAA
TTCCTTCTACAGCCTGTGTGTTCAAGGGCAGAAACATTGTATCTCTTCGGGCATCTGGGCCGCCAAGCTGAGCGGGGGGAGGGGGGAGCGGCTG
TGAAAGTTGAGGAAATTGACAGACTGAGAGGTGAATGGGGGGACAGGCACCAGGTCCTGGCTGGAGGGAATTGGAAAACAAAAGTGCATCCTTC
TCACCCTGCCTGGGTGGAGGGAATCCTGAGGGAGGTAGTTTGTTTTGCCCATGGAAACCCCAAAGAATTATTTTTCCCCCTTCAATGTTGATTG
CAATATTATTTCACATTTCCGTGTATCTGTTGTTTTAATCTCTTTCGTCTGCGCTAATCTCGAAGTGGATTATTAATGGGGAAGACAGAGAAGG
AGAGATTCATTTGCAGGACTTATTTTGCTGTGTGAGGAGCCGAAAGCCAGCAGCCCCCAGTCCTCTCTCGACTTTTCTCTGCGTCCTGTGCTCC
TGCATCCTCCTGATCCCACGATCCCCATTGTCCCCGAACTGGCCCTCGGACTGAGGGAGTGTTCGGAACAAATTTATATTCCGGCTTCCTCCCG
ACCCCATCACCTCTGCCACGTTGGGAACTCTCTCGGCCAAATGCCTGGGGAGGGGCGTGCCAGTCAGGAACCAGGGGCAAGGCAACCTAGCCGC
AGCGCTCACCCCTCGCGGAGACCCTTCCCGTGCCACCATCCAAATATCTACCTTCATGGGAACCTGGAAGACTGCTTTTTCACCCCAAATCAAA
TACTGGCTAGTCGGAACTCCCAGTGATAAATGTTGGGGACTGCCTCCTGCCACTTGAGCAATTCCTGAGTCCAGGGTAATCAGATGATTAGGTG
TTTTTAATGGAAATACTTAGGGTTTTTTTTTTTTTTTTAAGTCAGATCCTAAGTAACCTGACATTTAATATACATAATAAAGACAAGCGTTTT
GTTAGCTATTCGATTGGATCCTTTGACCTGAGGTTATGCTTGTGTGTGTGTCTGGTCTGTAAGCCTCCAATGGCTACCTGGGTGCCTGAAGAGG
AGTCTTGCCTGTAATAACTCTATGCAAAGGGCTCCTTCTTCCTTAGGAGTGGTGGAAGGGTGGCTGTAAAGCAAACGTCTAGAGAAAGCTGGAT
TCCAATCTTTTAAATTAAAAAAGAGGAAAAAAAGGAAGAGGAAGAAAATGGACATGAACAGTGGTGCTAAATCTCAGAAGAGGAACTTGATAA
GTCACACATATATTTAGTATAGATATATAATAATGAAAGAAATGTAAAATATAAAATTAAGAATGTGCCTGACCCATGTTGAAAATCTTTGATT
TTATTTATTAATAATTTTTAAGCTGAAGATCCTGAATGCCTTTCTTCTATAGACACTTTATCTGTGATGGGGTGGGGGGAGAGAGTTAATTTAT
CCAGCAGCTATTTTCATTATAATAAATACTTAAATTAGGAAAGAGGTGAGTAACCAACTGTGAAAATCTACTTTCTTGCATCCTAGAACAAGAT
CTAGCTGTGGTCGTGCTAGGTAGCTATTAACCACCCCCACCCCACTCCCCCCCCCCGCAAAAAAAAATACAAAATACAAAGACGTATACCTCTG
GGAGTGTGGATGTGGCAACCCATGTGGTGGCTTGTCCCTCCTTTGAGTGCAATTGCCAGTGACTCTTGCATTCAAAGTCTTGCTTTAGGCACAC
ATTCAAAGCACAGTTCAAAGCAGTTTATCTTAATATAGTGTTGGATCAGGGTATTATTTGTTTCAGATTTCATCAGACTGGAAACAGGAGGGTG
TAACATATTTAACAATATTAAAGCTTAAAAATTGGTGTGAGGCAGCTCTCTGGTCCTCTTAACACCTCCACCTTTACCTTTCCGAAGAATCCTA
AATGCTGTGAGGCTAGAAGTTTATTTGTGCTCTGAGGTTCTCAAGCACTTTCACTCTTTAGGAAAAAAAAAAAAAGTCTCACAGTTATTTAAGAA
ATTGAGCCTGAACCATCCGAGGATAGGAGATTTCTTCCTTTTCCGATAAATGCCTGTGCTCAGCATCCTCAAATTTGGCTGTCTTTATTTACTT
CTATATTAGTTCCAATTATGTGCAGTGTAAACCAGCTTTTTGATTAACAAAACAGCAGAGCATTGGTTAAGAACACTTAAACTTCAAAAAAATT
CCCCTGGGAAGTGGGCTCTGAATTGGTTAATAATGTGCAGTACTTGCTAAATTGCTGACTTCCAGATGTGGAAAATATCTTTCTTGTTTAGGAC
CTATGTAACCTGATTGGATTACGACAGAAGCGTCACGTTGGAAGCTTTTGAGTGATTATTTAATTAACCATACAGTAGAAAGCTGTATTCTCCA
GGAAATCCCTTCCATATTTGCATAACCAATCCCTTCAGAGCAAAGGTGGAGTCTTTTCTTTTTAATCTTACTTTAATTGTAATATCAAAAAATA
TATACTCCAAAACTTAGACCCCATGCCGTTTAATATCATGCTCTCCCTTCCCTGCTAAGTTTCTCTATGGCCTTTCTCGTTTCTCCTCCTGCCT
CCCTACACACTCTCCCTTACTTTGTAGTGAGGTCTCCCCGAGGTGTAGAGAGATTCAGAGATCGGCCAACCGAGTGTTCTATTTTAATTTACTT
AGAGACCCTTTATTAAAATGCCAAACTACTTTTTAATATTGGGATCCAGTCCAGAAATTCATCATGCACACACCCTAATACACATGCCCTAAGA
TGCAGCTCCCATGCAGCATTTTTTTTTTCTGGCTCTGGTACCTAAAAAGAAAAAAATAACAATAAGAGAAAGGGCAGAGAACTTTGTTCCAGAAG
CTGTACTGAGATACCTACACAATTTGATGTGCATCTCAAATCTGGTCATTAGAGATATCTGTATAAGAAGAGACTATCTGGATTGAGGACCCGG
GATCTTTCCCTTTAACTTTCGCCCCTTGGAGTTCTCCAGTTCTGTGAATGGTGTGCACCGTTTTCCGCCCTGTACTCTGTAGGATTTAGTGATG
AGGATAATGATGCCAAAGGCTTGACGGGCTGCCCATTCATTAGGGCATCTGATTAACATAGTAAGGAATGTTTATTTTCAGTACATAAAATTGT
AGAACTTTGGGAGCATCGTCTGAATTGTCAGAGCTGAACAGCGAGGAGCTTAGTGAGACATGAGAATATAGAGAGGTAGCTAATGTGTGGGAAG
CTGAGCTAGTTGATATTCTATGAGAAGTTCGTCGTGTCCATCTCATGCTGTAGGTGTAGGGAAAGTTGTTCAGGTGCTGCTCACTAGTCCTTTG
AGATGCAGGTGCCAGTGGTCTGATCTCTAGTTGATGATGAGAGAGCATCTACTTTCACATACTGAGTGTCTTGAAGTGATNNNNNNNNNNNNNN
NNNNNNGAGGCGAAGGCGAAAGGGAGGGAGAGGAAGGGAGGGAGGTGGAATTTCATTTCTTCCACTAAAGCGTTTGCGGAGACTTCAAGGT
ATAATCTATCCCAGATCCTTTCCCAGAGAGAAACTTGGCGATCACGTTTTCACATGATGCTCACGCTCAGGGCGCTTCAATTATCCCTCCCCAC
AAAGATAGGTGGCGCGTGTTTCAGGGTCTCTCGTCTCTCTCCTACAGAAAAGAAAAAGAAAAAAATGTCATTAGAAGAGGCGTAACACGTCAGT
CCGTCCCCAGGTTTGTGTTTCCTGGAGTGGCCGAAAGAGATCAGTTCTAACCTGCTCTGCAGGAATAACGGTCCTGCCTCCCGACACTCTTGGC
GAGGTTTTTGTACAGTTTGCTCCGGGAGCTGTTTCTTCGCTTCCACCTTTTTCTCCCCCACACTTCGCGGCTTCTTCATGCTTTTTCTTCTCAC
CATTTCTGGCCAAAACTACAAACAAGACTTCGCAGGTAGGTTTTTTTTCCTCCCCTTTTCTCTCTTTTTATCCCTTTTTGGTGTGCTCGTCCTC
CATCCTCCTTTTCTAATTTTCTCATTTTGAGTGGGGATGTGAGTCTGAAGTGAGAAGGGGTGTCCGTGGGTAGGAATTTCAGGTGGGTTTAGCT
CCTTTATGGCAAGCTTTTCTCAAGAGTGGCTTCTTCGCTTTCTCTTACACTCACACTCTCTCCTTGCTTTTCTCTCCTTTTTCCCTCCCCCA
AATAATTTCCCCTGTACCTGTTCATTCAGGTAACCAAAGGTGTCCTTTGCTATCCAGCCCAGGAAAAGTTTTATTGAGAATTTATATGGCTGGAA
TAAAAACTCATCAAGGGGAGAGGTCCTGCTCTATTTTCGCATCTAGTTCCAATTCATTATATTCAGCAATTAGGACTTGGCAAATACCTGTTAA
TAATTACAAAACTTGGTCAGTTACAGACCTACAAATTCGGGGGCAAGTCTTTCTCTTAGACATGGCAGTTCATCCTCTCCCACCGAGAAGGCTG
TTTTCTAAGCAGAAAGTTGTCTGTTTTTGTCTGCTTAGCGAGTTTCATTTCTTTATTTCATTCTTTGTGTTGTATGTGTGTGAAGTAACACCT
CACTTCTGTGATTATAAATAAAGAAGTGAAAGTCCTCATGGAACTTGAGTCGTTTACCAAAGTGGAGGGGGGGGCACTACAGCTGGGAAGAAAA
CTGCTGTCAGGATATCAGGGTTTTAAATTAGGATAACTTTTAAAATTGTATTTTTAGTGGCAAAGTAATATAGACATGGATTTAATAGAAGACA
CATACACACATATATCCCATTCCATACTTTGGCACTGAAAAGTCGAGAGAGAGATAGCAGGAGTTCCCAGGAACAGTGATGAGCCCGGCTAACA
TGAATGTGTTTATCTCCCACCTACTGATATATTTTACATGCTCCCCCTGTAATGATGAAGGCAAGATTACTAACTCCAGACTTAGGAGTAACAG
GCAAAGATAAAGTTTACAGCACAAATGCCCTGTCTCTCTCTCTCACACACACACATGCCCATAAAACTAGCAACTTACTTTATTAAACATGTAT

TTATATGCAGTCGTGTGTCTCAGGATGAATATAGACAGGCCAGCTGTTTCATCCCAGACACTTGTGTGACCATTTCTTTATTTCAGGATTTCCC
CTAACAATTTCAAATCAATAGGACAAGGAAAGAAATGATAAAATATGTCAAACTTAAAAGTCTCCTACTATGTATGCCTAGGTAAATTTAAGGT
GCTTTCTAAAATATCCACTTCCCCTTCTCTCTGCCCCCCTCCCTTCACCCCTCTCAGCAAATGTGTGGAAACTGATACTCACTTTCCAGGTTTT
CTGCAAAGCTTCTAGCACAGGAGACAATAGGTGTGGGGCGTGGGGACTGAGTGTGCCCGGCAGAGAAAGGGTTAATGGCCCTTGTGTTACAGTT
TGCATCTGTTACATCTTTTATAGCCCCCTGTTTAAACTAATCCTCGAGGCACAGCATCTTCCCAACCTCCACCGAGTTTTCAGGATTCTCCTCC
TCTCCTGCCTGCCTCCGAGGTCCCCCTTCTCCAAGTTTTGACAGTTTCAACTGAAAAAATGCAGCGCCTCTCTCGATTTTTAGGTACAAAAGTT
TCGAAGCCAGAAAGGATACGATCATTTAGTAGAGCTTAAAAGTATTGCCGTAGTGGTTGGACTTTCTCTTTCCTTTCTTAAGGGAAAAAAAAAA
TTCTACTGGAACTATTTAAGGGAACCAGTGTGGGGGAGCATGTGTGTGAGTGAGGTGGGGGGAAATACTTAAGTAAATATTGTCAAAGTGGCGA
GGGGGGGTGGGGTAAAGGACAGTGTCCAAAGAGGCTTATAATTATATTTATCATTGCGGCGTAAAACGGGAAATCTTAATTTGGGGGCGAGGGT
GGGGGGAGGAAGAGACAGTGCCTCGATAAACTCCAAAAGGGGAGGGGAGGGGGCGCTGGGCGAGTGGGCTTCCTATAATTACTATTATCAATTT
GCCCGAGTGTGCTTCATCCAGGGGCTGTTTCGCGTTGTTTGTTTGTTTGTTTCCTCTGGGAATTGGGGGGTGGGGGGATGAGAAAAGATGAGAA
CGAAAAGAAAACCTCGCCTCACCCCAAGTTCCCGAGCCGGGGGCTGAGGACTTTTCGAAGGAAAGGGTCCGCCTAGCCCTGAGTCAAGCGGTCT
TACTGTACCGCCGTGTGCATTCCCTCATACGGTCAGGAGTTATGACTCATTTTGAAGATGTAATTCTTGTCTCTCTGATCCCCTCGCGGGTGCA
ACACACCAAACAGTAACAAACACAAAGCGCCTCGGGGCCAAGGCTGGGGGTGGGGGGCGGGAAGAGCGGCGGCCGAAGTTTCGCTTTGGGGTTG
GGGGGCGCGGAGAGGTGCTCGCCGGGGCGGTGGCGTGGGCCCTGGGCGGCCCGCGCGCGTTTCAATGGGCGCGCGATGCCCACATTGTCGCTGT
GTTTGGTTGCTAGATCGAGCCTGCGTGCTGCCGAAGCAGGGCGCCGAGTCCATGCGAACTGCCATCTGATCCGCTCTTATCAATGAAGCAGCCG
ATCATGGCGGATGGCCCCCGGTGCAAGAGGCGCAAACAAGCCAATCCCAGGAGGAAAAACGGTAAGAAGCAGCCCGAACCAAACTTTTCCGGGC
CACTACGCGGCTCGAGACCCAGGGAGAAGGAGGGGGAAAGGGAAAAGGAACCGAGGCGGCGGCGGCGGCGCCCAGGGCTCTAGGGCGAGCC
TCCCTCCGCGGCCGGCGCCGGAGCCCGGCGCGCGCGGCTGGACCGGGGGGTGTTGGGGAAGTGCCGGGCAAAGTGAGCGTCAGGCACCCGG
GGGTCCGAGCGCGGGGGTCCGGCCGGGGCCCCGCGCCCCAGCCCCGCTGCCCCCCTCGAGCCCCTGCCTCCGCCCTCCCTCCGCCTCCGCCTC
CCGCTCCGCTCGCGCCCGGCCCGCCGGGTCTCCGGCCGGGCTTCGGGAGCGTCCGCCTGGGGCAGGGCGGGGGCCCAGGCGCTGGATCGCGCAG
GATCCCGGGGCGGGGGCGGGGGTGGCAGAGAGACTGCGAAGGCAGGAGAGGGGAACCGGGTCTGCGCCTCAGCGAGGCTTAAAGTTTCTTGCCG
GAGTCGCCCGGCCGCTTCTCGGTGCGCCAAGTAACGGTCCGCGGGCAGCGGGGCCCGGCCCATCGCGCCCAGACCCCGGGGTGGGAGGGAGTCG
GCCGGCCCCGCGCGGGGTCCGGTGGGGTCGATGATGGCTCGGGGACGGATGACTCCTCTCCAGCAGGCTCTGGCCCCCAGGCCGGGGACTGAAG
GAGTCGCAGGGCGCAGCGAGACTTTTCCCGGCAGTTTCTACATGGTCTGGAGGAGCCCGTTATCCAGGCTGAGTCAGGAAGGAGGAAGGAGAAA
GGAGATGGGGGTTCGAGGGGCACACGCAGATCAGAGGTGGGATATTAAAGGGGGGGGGTGAGAGTTTGGTAGGTCCGTTTTGGAGACAGCCAGA
GAAGGGACGCGGGGGGACAGAGAGAAACAGAGAGAGAGGAAGAGAGTGAGAGAGAGACCCCCTAGGTATTACCCCAAACAAAATCGTGGGAATA
AAAGAGAAAAGTGATTGGCAAGAGCGCGGAAGGCGCCTGGGGGAGGGGAGAGGGCTGGGGACTAGCGAGGGTGCCGGGGGGGGGGTGGGGGAGCT
GACGGAGGATAACTGAGTTTAAAAAGAAAGAAACCAACCCCCGAAAACAAACAAGCGAACGAGCGCCAGCCCAGACTCGGAAAGGAAACTTCTC
GCTCCCCTCGCTCTCAGCCCGATCACCCGGCGCGGGGCCGCGTAGACGCTCCCGAGGCAGGCGCTGGGACGCAGCGCCCACCCGGCCTCCCGGC
CTCCGCAGCCCCAGCCCGCGCCTCGCGGGGACCGCCCGGGCCCACTTGGAGCAACTTTCCTCTAGAGAAGACAATTGTGCGCGCCCCCGGCCTG
CCCCAGAGCTGCGCGGCGCGGGGAGGGGGCGGCTGGGGGCGCAGTGTGAGGTGCTGGAAGGAGCAAAACACAAAGACGAGAGAATTTTGATTAG
AGACAAATGATGCTTTTCTCTCTCTCTCTCTCTCTTCTCTAGGTTTTGTGTGTGTGTACGCGTGTGTGTGCGTGTTGTTTTGCTTGTT
GTGGTGGAGGTGTCGAGCCATATGGGGGAGTGATAGAGGAATTTTAGTCAGAAACTGTTCGTTACGTTATCCTGCCTTTCCCCTTTGTGCTGTC
TTTGATCTATTTGCTTGGCTTAGTATTACAGAAAAACAAGTACAATAATATATTCCGAGCTGCTTCCCCAAGATTCAGTTCAGGCTGCTTCTTT
TTAAGTCTCTCCCTCTCTCTTTCTCCCTCTCTCTCTCTTAATTTAATTTTTTTTTCACTCTGGTGTCTGGCATTATTTAAAGTGGTCCTTAC
ACAGGAGACCTCCCCTTCCCCATCTCTGAGTAATTTAGTAGACACTAAAATTACACCTAATGTCCCCCTCTCCTCTCTTGTGTTTCCTCTGTTC
CTTTTATTAAATGTTGGTTATTGATTTTCTAAAATCAATGTCTGTTGTGGGGCTTTTTTCCCCCTCTTACAAGTATCTAAAGCACGTTGCTGAT
CAACTGGATAACAAAAGCTTTGTGTCAAGGAGGCTTTTTTCCCTCTTCTGTTAAACAGTCATTTTTTTTTTTTGAGAGAAAAAGAGAATGAGAT
TTAAAACAAGGCTCCCAGAAGTGTTCTTTTGCAGGGAAGACTATTTAAAGTGTGCATTTCTTCTTGCCTTCCTCCTTCCACCTCCTTCGGGATT
TTGCCACCGTTGACCAGCCTGGCCCTAGCAGTGAGGTCAGGCCAGAGCCCAGGTCTAAGGAAATAGAGGGATCCTGGCTTCCTGGGAACCCCTA
GGAGACCTGGCAGAGAGGGAGGCCCGTTGGGCGCTTCGCAGGTGGAATGGAGTGCCAGAGATGTCCGCAGTCATGGACACTGCAAGTATTTCCC
CTCCACCCAGCCACTAACTTGGGAGAAGCCTCCACATTCAGAAGTGGAAAGTTGAATTGCACATTTTAAGGCATTTAGCCCAGATCCTGCACAC
TTAATATCAAGCCTGTCCATTGCTTACAGCTTCTCTAACTTTGACTGTTACCTGTCTTTTTTTCCAAATAAGCTGTGGGAAAACATGCTGTATA
CTGGTTATTGTAAGTGTTTTTCACTGGGTTTAATCTGACCGAGCAATGTTCTGGTTTTGAGAAGCAGGTAGAAGAGTACTACCACCCCACCCCT
TTTTCATTTTCTTTCTCATCAAACACATATCCAATGCCTTTCCCTTTGGGAATTGCTAGGATTTATCTGAACTGAGTGGATTTTTCTTCTTTCC
TGGATTCATGGAAAAGATGTCACTTTTGAGCTTGTGTCTTTGCTGATAACACTAAATATGATGATGCTTATCAAAATCATATAGAAATTCCTGG
AAAGAAATAATGGCAATAATAATCGTATAAGTAGAAGCTGGAAGGGAAAAAAAGATGGTCATCCAGGAACCTAGAATGGCACTTTATATAATTT
TAATGAAGTCAACAGTGTATATATAGACTAAGGCGACAAGGAGATAAAACGTGTAAAGCAGTGTGTGTGTTTTAAAGGCTGGTCAAGAACGTGA
GTTAGAAGACAATGCTATGTACATTTAATAAAAAGCAAAGGAGAAGGAGGCAGTTGAAGAAAAATAAATGTACAAAGAGAGAAACAAGTATCTG
AAATACAACCTTCCAGATTCTCAGGCTAGCAAGATGCCTGGCAGAGGCAGTGCCAGGGCCAAGTTAACCCATAGCGGGCAGTCAGTCTCCTTTC
CCCCACATGGAAAGGATGAAATCTCTTCCCAGAAAATAAGATGTGCAGGAGGAAAGAGGGAGTGGGGTGAGGGGGAAGGAGGCAAAAAGCGAGT
TGCCCGCAGACAAGAATGTGTGTCGGTTTCAAGAAAGTTCAGTCAGATGATCCTCAGTCGCCTGACTCACTTTGTAACACTTTCACTGACGCTG
GAGAGGAGGGGGAAAACCCAGCCCCCCTTTTTCTTTCCCCTGATTATACCCCACTATCTCCACACAGCCTTGGAGTCAGAAATGAGCACTCGGA
GCGGGAGATGCCCTGCTGCTGCTTGCCACCGGTGCGGCCCGTTTGTAACTTGCAAAGTTTGTTGCTTTTGCCCCTGATTCGGGCAGCGGGTCCT
GGGATGCTCCTGCTTCCCTCCTGCCTCCCACGGAGCCCGGGAAGAGGGTCTGCCTCCCCATCCCGCCACCTTCCAGCATCAGCCTCTGAAAAAT
CTCACAGAGACATGCACGTTGTAGCAAAAATCAAATCCGGAAACTGCTTGTTTCAGAGAAAGAAATGAAGTTGTCTTTAAAGAAAACTGAAT
TAGGAGGAGAGAAAAGGGAAATAGGAGAAGAAAGGAAAAGTTAAATTTGATTTTTCTCCAGAGTTTCCACTAAAGGGTTGGGGACAGTGTGAAG
GAGAAGGGGAGCTTTTTACAAATGCCTTTGGTCTCTGAACTTCAGTGGCAAAGAACAGGGATCAAGTTGAATGTTCTCAGGGCTTTGGATCCTA
GAGGAGAAACAATCAGAAGAGCAGAAATGGTTATCCCTGTTTAAAATAAGCCCTCACTCTTTACCACTTCCTTAAAGGAGTGGAGGTGCTGGTA
GTGATGGTTAGAGGCAATGAGGGACGGAGAAGTTGCTCCCGTTTCAGAGATGCTTAAATGAAAAGGAAAGAAAATGCAGTCAACCCCTTCTCCA
GGAGGTGCCTCCTAGCTCTCCTCCCTGAGAGGTGAAGTTGGGATGGGGCAACGAGAGTCATACACACTTAGACAAGGAAGTTTCCTTCGGATCA
CTGTCAGTCCAGACTTGGTTATCTTTGCAAAGTGTGGAAATCTTTGGCAAGTAGCTTTCTTCGTAAAGTTGATGAGCTTCTAGGGAGCCTGTTT
TGCTGACTTTCAAAGCACTGGGGCAGGTTGTGTGGCAGGTACCAGTTCTGAGGGCGCTCCAAAGATATCCATCTCCATCCTTTTTTCTCTGTGG
AGATCTTCTGCAAGTTTTGTCACGCTGCACACACAAGGCTGGGGGCTATGTATCTAGGCTGATCTATTTGTTTTATTTTGGTCTGGAAAAAC
TAAGCCAATTGGGGTAGAAACATGCTTTCCTTCGTAGCAGAGCCAGTAGGCTGCTGGTGTCCATAGAGTGACAGTCCACCAGGACTAAGGGTGG
GCTGAGGATTTTAAACTTTACATTGTTTCTCTGTTACCAGATACAAATAAATTCACGTCTTCCACCATTTGTTTTCAAATAGGGTAAAACCAAG
ATTAAAGTTCCCTGCTCAACTGCTATGTCATAGGTTTCAGTGTTTCCCTTCCTTCTTAATTTGCTTAAAGAAAATTCCAAGAGGTTATTAAAGA
CCTTGATGCCATATTAAGAATATTTCCTGGGAAAAATGTATGTCTACCCTGAAGGTAGGAAAGGAGGGCGTTGCTAGCCTCTAGCAGTGCCGCG
TTTATTCTAAGATGTGGGAGATTCTTTTCCTTGCAACAGTTTTTGTCATCTGCATTCTTCCAAGGCTTTTAAGGTGCATTTTCTTCTGTGTGAA
AGGAAATTCTTTGTCCTTTTCCTCTCAGCACCGTGGCTTCCCAAGGTAGACACTATTTTGTGCCTGTCACAGAGAGAGGGAGTGCAGGTTTGCA
ATGCTCACAGACAATTGATTGTCTGCCCTAATGTGTTTCATTTACATGTTTATAACGTCAATGGTGCTGGGGTGTCCACTGTACCATTCATTCC
CGCATTCCCACAAGGGGGCAATTGTCTGAATGGCCAAGTCAGACACCTTTTTGATTGCTCTTTGGTTGTCTTTTCAGAGCAAAGAGATAAAGGA

GGAAAATCTGTGATGCAGAAACACTAGTTGAAAATATACAGAATTAAATGTCACCACAAAAGCAGATGTTAACATAAGCCCAAATATGCTTTTT
AGCCAAGATGTGAAGGTTGAAAAAAATAATTCAGAGCAGAGGGAAGGATGATTTAAACCAATAAATATAGCCCTATTCCCCCTCTTTACTTCTT
TTCTGTCTTTAGCAATCAGAAGATGAAATGTAATTTTCCTTTTCATTTTTAAGCCTTGAAACATCCAGGCACCTCCTCATTATTTGTATGTTTG
CTGTGATTTGTGAATTTTGTATATATTTTACATAGCTCTGTTTATGCCAACAGCATCAGCTTACCACTTGGAAAATCTATTGAATGACTATTTGG
GCTGTGGGGAGGGTAAACTTTTAAAAAGTAAGATCCAAGTATTTCTTCATCAAGCAGTTTTTAAAAGGAAAACGATAATAATCAGTAGGCTCCA
TGGAAGCCTTTGCCTTAATAGCTATGTGCCAAATACTTTTATCTTGTGTGACAGTCATGTCAGAGTGAAATCTCTCAGGAAAAGTGTAACTAGT
AGTTACAAAGTAAATAAAGGATTTCATTTTAAGGTGTTCTGTAGTGTTTTTATGCTGTGTATGTGCATGTGTGTGTTTTGTCTTGTGTTTCCTC
TGAGGAGGTAAGAAGAAAAGCCATCCATGCGTGTATCTTTTGGCTTTTCTCTTCTTTCCGTTCTCTCCTACATATTATGCATATATGTAGCCCA
CATGAATACACCTGTTTAAAAGAAAATCACAGTTCAGATGGTGCCTTGCTGGTTCATTTAGGAAACAACAGTTATTAGAAGTTGGTCTGATTTC
GCGTGTGGTCCATGAAGACAGAAAATACCAACTCTTGTGTCATCTGGTGGGAGGCAAATGGGGGAAAAACTTTTATAATTTTGTAGTAAATTAG
AGAGGGGAAAAAAACTGCCAGTCTGTGAAAAGATTTTTGCCTCTCCGGGAAGACACACACACACCCAGTAGCTGCACCGTTAGCTGAACCCCTG
ACACGGCGGTCTTTTGAATGCCTTAGGTATGATTTCACTTTCGCTCACATCAATGCTGACCTGAATGCCTTTCATATCTGATCCGCTGTGTCTC
TCCCAGTAAACATCCCCTGAGGGGAGAACAAAGAAAGGAGCTCTTCTTCTTCTTAATCACAATTCAGCCCTTTCACCGCCGGCAGGCTCCATTT
GCATTCTGCCACAGAAAGCCAAGATGAAAAGAAAGAGAGAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGGCACAGGGTAGTAGCTGAGTA
AAATAACTTAGGTGTTTGTGGCTGTTTGTTGGGCTTCCCCTAGTTACCAGCCTTATATAGCTGATGCTCCACCAGGCCCTGTCCCTCCTGACAG
GCATATAGTGTTACAAGATGGCATGTCTGTACTATTCATGGCCACCCGCTCAACACTTGAGGTAAAAAGTGTCAGGAGGGGATCGAATTCTCCC
CCAGAAGCCTGTTAGATTTGGGGTCAGGTGTGTGGACTTCCCGCCCTTAAGTGCTGCCTACGATTTGGCTTTAATAAGTCTGATTGTTTACCAG
CGGACCAGAGAGGTGAGGGCCCTGGGGGTGGGAGGGACGGGCGAGCTGGAGACTGGGCCCCTGGTCTGGTTTCAGTGACGGGTCCTCACACCCA
GCCTGAACACACTGATAAATCCTCAGGAAAACTGGAAAAGACTTTCCCATTTTTCCCCCTGACTTTTTATGATAATTCATATTTTCAAATGAAA
GGGGAAAAAAGCCAAGAAGAAACTCTCAAATGAGCCAAAAAGGAAAAAAAAAATTCTCTGAAAAGAATTTTAGGGGGAAAAGTTGTGCTATTTT
AAAAAGCTTTGAGGGCTGTAAAGTGCCACGTTTTTCACACCTTCTCCATACTTTTTTTTCAGATTTTTTTAGTATGTTTAACATTTGTGAGATG
ACAGCCTTTTTGTATCTCAAACTGGATGCTTCAGGATTTGTAGGGGAGGGGTTGGTGGTATTCACGTTCTCTTGTGAGAGAAAGTTTGTGCCTA
AAGGCCTCCTTCCTGGGAACTGTTTAAACCCTCGCAGGCAGACCTGTCAGGTTTTACTGTGTTATTTGCCACCATTTTCAACATGCAAAAGTAA
CATGCAGTTAATGGTATTGGAATGAGACCACAGCAAGAGCAGAAACCTCTCGTGACAACTTTTCAGCGACATTATCTTGCTCCTAGACTGTCTT
GTCTTTTTCTTCCCCTTTCTGAAACCACTTTTGAGATACCAATAATTTTCTCCCAACAATTAGATTAAGGATACAATGCGCTCACACACATGCA
CCACACACACACACATTCACACACACAAACACACACACAAACTTTGGAAGTGCAATCTCTTCCAACAGCAGAGTGAATGATTTGAAACGGGGGC
TTTTCCAATAACCCTTGTGGAAGATTTCACTTATAAGAGCAAAACTAACGGATATATTAGAAGTTGTGCGAACATGTGACACAGATTCCTGATT
TTTTTTTCTTTTTCCCAGAAGATTTACAGAATTTACAAAAAGAGATTATCCCTACACCTTCCACCCCTCCTATCCACCCCCATGACCCAAGCAA
TGAAGGATTTAGGCAGATTTACTTCAGTAAACACCTTTGGACACTTGCGGGGAAAGTGGGAGTCTGTTTGCAAAAGGAGGCTTTTGTTAAGTGA
GGTACGGGGATAATGCTTTACCAGGCAGCTGTGATATTAACCTACCCAGCAATGCGGGAACACTCTTTAACTCTTTGAGTGCCTGGCCCCTTGC
GCTCAGCAGATAAAATCCTGGCTCTCCAAAGACACTCAGAATTCTGGCTCTAGCAGTTTATTATTCAGACAAGTCTTATAGGCATGAAAACTGT
TCAAGCTTTTAAAACAATGTGGTTTAATTAGATGAGGTGGACTTACATTGCTCATAAGCCCTCCAAATGGTGGTTTATAATTGGCAAGGGAAAA
AAAAAAGATAGAAAAAAGGAATCAAGGCAGCACATTAAAAATTCCAGGAAATATCTTTAGAAAAGCTATTTTCATTTCTAGCTTTTAAAATATT
AGACTACGGTAGCTAGAGGGAATGAAGCAGCTGGGGCCTCTCTCCTTCCTATAAAAGACACCAGAAGTTTGTGATGAAGAAAGGGGCTTCAACT
TGAAAAGCTATGAGAGGCCAGTTCGGACAGTGATATGATCTCAGCCTTCGCATCTTTTCAAGGGGGAAGTACTGCCTATCTGTCCAAACCTGGG
AGGTCATGTGAACCTCAGAGTCAGGGCCTCAGGCTGGCCGTTACCAACTTGAGACTTTCCAAAGCAAGCAGAGAGGCATTTATGAGGAAGGAGT
TAATGGTTATTTTTTGCTGGGCACAAGAATAACTTTACAGGTGTTGCATTTGGGCTTAAATAAGATTGCCTTATTTAGTTTCGAAAAAGAGTGT
AGGTGTCAACATTCGAGCAGCCACAAATGTGTGAGAAAGTAAAGGGTATGAGACATGACGGAATTAAAGGTGTTTGCTATGTTGTTACACCGTG
TGTCAGGCTGCAAGCTCCCTTTGTCACAGCCTCCTGGTGATTTGACAGCGCAGATCTACTTCCCTTCTAGGTGAGACAGCATTTTTAAACTTGA
GTTATAAATATGGTACACCCTTCGAGTTGCACCCTGCCTCCCAGATCCGTGAATCCTATTTGAAAGCATCTTGCCCTGAGACACAATGAACAAA
CGCCCGTATACAAGGAGGCTGTGGGCTCGGGGGCCCGGGCAGCGCCAGCATCACAGTAGCTGGCATTGACTGTTGTTTGGCAAGAAGGTCCTCT
GCCAAATCATCCAATAATTAAGTTTTATGTTATTTGTATGAACGACCAAGCATGCAGTATTCCTTTTCAAATCAAAGGGAGGCTTAAAATTACT
TTTTGAACACTTTCAGACCATGGTCAGGTCACAGTTTGGGGGCTGAATTAAAATGATCTCATTCATGATCTAATTGAGGTTGGCAAAACCTTAG
CAGTAGCAGGAGTACATAAATATAAATCAAAGACCAAAATTTAGCAAATCATATCATTTGCTAGAAATCTGCTCATGAATTATTCTCCGATTGC
CAACCCAGAAGTTAAACTTTGTCTCCCCTCAGCAACAGTAACTGCGCATATTTTTTCAGGCTTCTGACAGGAAAGTTAGAGGATCTGAAAAGAG
AAAGGAGAAGGAAGATGATCACTGTGTCATCAGATATGGTACATTTGTGACCCAAGAAACTATGAGAGCTGATAAAGCCATGTACGTTTACAGT
GGCTGCTGCAGCCTTGGTTAGAAATTAATATGGGTTTCTAAAAACCAGACTTTGGAAGAGCAGGCAGCACAGACACATTAAGAGTGTAAGGGGA
GCAAACGTTTCAAGAAGGGTCTGATTGTACTTTGCTTTCATTTTTTCAATTGAGGAATGTAATCATCATAATGATTCATGATTATTTACAAATT
TAGTTCTATCACTGAGCTGGGTCCAGGGATTGAGATTTGAAGTAGTGGTTAGAACTAGAAGACGATACGGAGCTGTTAGTGTGCATATTCAGGT
TACCTTTCATTCTTTCTTTCTTTTTAACGCTGCTATAAAATTAAGACTCCAAATAACTTTTCCTATAATCTGTGGGATTAAATGTCATACTCTA
TTGTATCTAATCCATTTTTAAGTTGTAAATTTTTCTTGTTTGCTGTGTATGATTTCATCTTAAACCCACACAACACTTTACTATAAACTAGAAG
AGGTCTAATTCTACAGTTGAATCTTTTGAAGTTAAAATTTTAAATCCTGTGTAAAAGAAGATGTTCTTTTAATCAAACAGTAAACACAGAACTG
GTCAGTTGGCCACCTTTATATATCACAAATATATGAAGGTATACTTTTAAATCTTCAGGATAAACTAAGGTGGGAACATTTAAAAATAATCTCA
GGTGAGAGAGGTAGATGACCACATTCCTGGGAATAGGTAACTGTCATTAATGATTTCCTAAAATGTATTCTACATTAAAAAAACTGTAATGGAT
TTCTCTTTAATAGTTACGTTGCCCATAGACAACATAGTGATTTTTGTTCTTTATATACTGTTTCTTATTTTTTTATAATAACTCAAGGAAAGGT
ACTCCTGACAAGATGATAGCCACCCCCTCCTCCCAAATATGAAATAATCAGTAATAGATGAACAGATTAAAATATTGTGCTATATAAAATCTGA
GGTTTTTTTCTTTCTCTCAAATGGATGAGTAAATTTCAAGGAATTCAGTGCCCAAGTGATCTATAAATGTAATATATTGCTTTCAATGTTTCTT
AGTTTAAGAAAGTATTTATTGTCTTGTATATCCAAGTAACTGTAATCAAGGAAATTGCAATTGCCTATTCTTGGAAGTACCTAAGTTTCTATTT
TAGACACCATGCACATCAATGGAAGTGTTTCACATCATGAGAATTCTCAGTTTTAAGAGGTGAGGTTTATATATAAGGAACTCAGTAAGCTGTG
TTTTCATAATAAATAGACCCATTAAGAGGGAAATATCTCTGAGCAAAATGGTTGTCCTCTAAAGATTTCCCATCACCTTTGCTCTGCTGATGGG
AATTTGAAAACTAAATACAGCCCATGTGCACACATTCCCACATGCACACAAACACAAATGCACCCTAGGATCCAAACTCTGAGAATTTTCCTCT
TTAACTTTCACTACAGTCATCTAGCTTGTGAATGAAATACACTTAAACAAAAATAGTAGAGGCGAAGAATTAATGTAGATTCTTGTTTAGTAGG
ATTTATTGTAGGGGGGAAATGTGTTCCCTATGCCACATGATTCTTACGAAACTTACACCTATTAATCTAAGCTTTAAGTGTATTATTTAGGATA
AATTACTAGCTTTCTGCTTTTGTACTGTTTTCTCCCATTTTCCTTCAGTATTACCAATCTTAACACAGATTATCCTAAACTGATTGCAAATTAT
TATGGTTTTTAAAACAGCATTCTGGAGTCCTGAATAAAGATGGTATTTTAAACTAGTGTTTACAATATACAGAATAAAAAAGGGTGGGGGAGAT
TTAAAACCATACCGAACACTTAGAAATGTGTGGAGTTTTATACTTGTGCAGATAAGTGTGAGGTAGCCTTGCCCTGTGAAACCAAGACCACAAA
TGATACGTGTCAGTAGGTTCTTTGATAGGGCTTCTGGCCACAGTGTTTTTGTGCTGTCAAACTGCTATGTTGAACAAACACCTCCTCTGGGACA
GAGTGATAAATGCAGAGACAGGCTGGCTTCAACCAGTCTCAGCAACCTCCTCAACCACACCCCCCACTCCCAGCCCACCTCCTACCTCCTACAA
TCCAGCCACCTCCCACTCCACTTTGCCCCTTTACCTGAAATTGACATTTATATAGAGGTGCCCAGGATTTTTTAAGGTGTCAGTGGTGAGTAAT
TGTTGATACTCCCCAAATCTTATGAATCAGTACTCTGAAACTGCAGGCAAAGTCCTTTTCTGGCAGGCTTTATCTAGTCTTTTTAAATGGAAC
TGGACTGAGCTTCTAAACTTTTGCCAACTTGAACTTTTTCCACCTTTGCTTAATCACTTGAAAACCACTTGCTTTCCTTGTCTTTCCCCCAGTC
GCTTTTTATTTTCTAATGTTCAAGCTATTACATTGTGCAACACAGACAAAATTTTGCCTTAAAAAATCCAAACACTATTACCTCTTACTTTTCA
CTTTCTAGCATTCTTTTAGGGCTAACATTTCAAATGTATAGTCAACTGGTCTTTTTTTTTTTTTCTTCTCTCTCTTGGAGCCATTATTCTCTGA

CTAAAACCTGTTTACTGGTGCCTTTGTGTGTGCGTTTTTTCCCCCTGACATTAAATGAATTTCCATCTTCTACTTCTGCAATCTCTAAGAAATA
GATAAACCATTATATTTTTTCCCTGCTCGTATTTTAAAGTGGTGATCCTGACAGCAGGACGATTATTGCACTTTATGTTTTAGTGGATGTTTGC
TGTTGCTAGTTACAGCAACACTTATCATAAGACAGCAAGAAAAGAGTAGTCCCTGGTAATTAAAGTAATGAAATATTCATTTACTCTACCTTTT
CTGTAGTCTCACAAATTAGGCTGCTACATTTAATGCCTGCACTGCCTCTGTTTTTATTATAATGGCAGCTTTCGCATCTGCAATTAGGACTAAT
TCTGACAGTTACAATTTCTGAGGGATGGTAAACAGTGAACGAGATGTGCAGCAGAGGTATTACACGTGAAAAGCCCTTGTCTCTTTAACCTTGT
TGTTTTTTTTCTCGCAGAGGTTACCTTTTCCCGATGGTGCAAAATCGACTTGACATAACTGTTCATCAGTTTCAGGGTTTTCCCTGGAGGTATT
TGCATCAAATCAGCCCAGTCAAGCTTCAAGTTGAAATTGGCAGGCCAGAAACTCACAGGGTAGAGACTGGAAAAGAGACAGCCAAAGTACAGGC
AGCAAACTGACAGCAGCAGAGTGAAAGACAGAGGGGTGGGGGGAGGTTGAGAGCGAGAGCTTTTCAACTTTAGTGTGCGGGAAATCTCAGCTCC
TCCTGTACTGATCTCAGCAGCACCATATCCTGAAGGAGCTTGAAAGGTTGAGATTCAGAACACCTTCAGCTAATTCTTACCACTAGGGCTCACC
AGCCTTGCTCCGGGGGTTTGCTCTCACTTAATCTGATTGGATGCCTAAAGAGGAGTGGGCACACTTAATTAAACGGAAGGAAAGTTCTGAGGCA
CCTCCCCAGCACTTATTAAAGCTTGAAAGCCAAATCTCATGATCAGTGTTATAGGAGGAAATTAAGGTGGTTTGTTTTTTTTTTTTTTTCTAAT
TGTTAACTTGTAGGAAAGTGAACAATCCCTCTCTTTACCAGGTTTGTTTTCTTGGGGGTTCTCTTCTGAGTAGATTAAATGTTCACAGAGACTA
GAGCTCAGGGGACTGTCCATTCAAAAGCTAATGCATTTTGGCTAACAAAAAGCCAGTACAAGTAGCAAAAATTATATTTGAAGAGATACTCCTT
TGAATGACATGGGTTTGCAAGTTCTCTGTCAAATAATGCCCTACTATCCTGGTAATATGAGAACACGTATTAAGTTGTTTAAAAGGTCAAAAAA
CATGGCAAAACCTTAAGATGTCTAAAGATACTCAACTTTTACTCTCAACAAGGTCACTTTAAGAAAAATTCTATGATTGCAAAACTTGTATAATT
GCTTTTACAAAGAAAACAAATATGAAAAGTGTTTCCTTTGCCTGAGAACATTTTTTCTCCTTGATGTCTTAAAAAAAAAAATTGTCATCCTTCC
CCGTCTCTTCTAACTTTGGAGTGGGAGGGGGCTGGTGTTTTTACTAGATGATTTAAAATCCTCCTTACTTTCCAACTAGACTTGGGGGTCGAAT
AAGCCCTTGCTTTCAAACCGTTTTCTAGCTCTGTGTATGACAGGCATTGGCTGATCTGCTGATGCCCATTCGACAGGCACTGTTGAACTAAAGT
GGTGTGACGGCACAGTTTTGTTAAGCTGTGAACAAAGGGCTGAAGATGCCTTGCTGGCATCATCCATGTGCATATTGGCCTTGTCACAGTTTTG
CTTGATTTAATGCTCTGTTTATTCCTAGATATTAAAACTTAAATTCTGAACAATATGTTTTCAAATACTACATACCAACTTTATTTTAAAAGCT
TTAACTTTGAGGACCCTAGGGTCCATTTGCTCATCCAGTTTCTGTGTAGCCAACATTAAAACACAGCTTTGGAAATAAATAGATTGCCAGTAGC
CTCTTAGCTGTTATCCATTTAAAAATGGGATTCCAGTCTTTAAAAGTCTTATTAGGATAAAAGATTTATTTTTCTTTGATCATTGGTTGAAAGT
CATTATTTATTTCCAACACTGGATTGTCACATAAATTCCTAAGGAAGAGTTACCTTGTGTGTACTCAGTGCAGTCAGAGTAGACTTTTTAAAAT
GACAAATTATTAAAGAGATATTCAGTAATAAAAGAAAGCCTATAAGAATACCTATAAGGGTAGGCACATCACCACTGAGAGAAAAAAAAAAATC
AAGGGAGTTTATGTTAAAGTGAGCCCTATTTAAGAGATAGCAGAAGAATTAAGATTGAGACTTAAAAACAAAATAATTGTTATGAAAATCCCTG
TTCCAGAGGCAACAGCTCGCCTATCTAAAGAAATCTTAAGTTTGGTACTAAATTTAGATTCCAGCGTCCCGTTGAATGTGTCTTGAGCTTTATC
TACGCTGGGTTTTTGTTCCCCCTCTGCCTCTCTTTCCACTCTTCAGGTTTTCTTCAAGTGTTTGCTAAGAGATTAGTTAGCAAGTTTATATTGA
GGAGGTAGCCATGGGAGGCAGCTCTCTGCTTGAAGGAACGCGCAGTGGGTCAGAGTGAGAAGATACAGGGAGCTAAGACTGACTAAGGCCTGGG
ATCAGGTACTTTATTTTCTCTCAAAGACAAACCGCCCATAGAAAGGTTGGTGGGATGGCATCTGCCAGCAGGAGCACAGATGTTACCACTTTTA
GAAACTTCCAAACAAGCATTATTGCTGGAATAACTTTATGAAAAAAAAAATCTGCTGCCAGAATACTCCTTTTTCATTATGTAAAGAGGCTATA
ATTTGAGATATTCAAGGTTATTTTTACCTCCATTCATAAAACAGCATCTTTCTTGAGAGCTGTTACGAGTTAGGTGAGGAAGGTGGCAAAGGAG
AGAAAAATACTCAGCAGCCTAAAAGTATTGCTGCTGCTAATAACCGGTGAGACTGCACTAAGAATCTGAAATGGAATCTCCGGGGTAAAACACA
TCCACATTTCTACCTGCCCTAAGCGTGCTTTCTTAGCAGTGACTGAGATGAATTGTCCATTTCTTTTCAGTGGTAGTTTTTCTCCATGTTCACT
TATGCCAAATAATTCCCACAGCCAGAAAGAGTGATACAGGTCGGGGTGGCTAGGAAAGAATAAGCCTTTATTGCTAGTTTTTGTATAACATCAG
GCATGAGAAAGACACTTGCTAACAGCATAGATTGCAAGACACTCTGTGGCCTGTTCTCTTAGTTTCATGAGAAAATTTTGTCCAATCCCATAGG
TGTGAACAAGATTTAGACATGTAATCTCCAACCTGGAAAAGAAGAGAGCTTTTAATATATTAATAGGGCAGATTCTTACTTAATATATAAAGTG
AATTTTGGCATCAGTTTGGGGTTTCCTATTAATACTTTGTTAGCAACTGTTTATGGAAGAGACAAACAGCAGTTCATCCAAATAGTCCTCCTTC
CCCAACCCCCAACCCCTATCTTGGTATTAACTGCTTTGTCCTGTCAGCTTATAACATTCTATCTTTAAATTACTCTAAATGAAGTCATAATTCT
AGTTATGTTTTGTAACAAGTCCATGGCTAGGACCAACATGACTTCTCACCTTTTAATGAACTGTTCTACTTTAGGATCTTCTAAGGAATAGAGT
GTAAAAAGAAGCAAAGCAGGAGATGAAGAGGTCTCGTAAATAGTTTCCTTTGAACATCCACAATTGCTTACATGGCCTTTTCCCCTTTTTTCCA
GGCTGGCAGAAATGGCCTAGCCCAGGACTCATTCAAGTGAGCACATTTCAGAATGACTCATTGGATGATTGGAGGGAGACACAAGCCCTACGAT
ACCAATGCAGTGTATTAATGGAGAAAGTTCCTGAGATTGGGAGTGGGTGTGACATTAGGCTAGGGTATTCCTGAAGGGCTCTAATTCATGTGAG
AATATTAAGTGTAGATCTTCTAGCTATCAGTTAGCGTAAGGTTTCATAAACAGGTAATGATGGCTCTTTCCCCCCGCTACCCCCCCATCCAATT
TCTAGCTGAGTGAGGAACAGGCTCTGCTTCATATAAATACGATCTTTGAATTTATCTGCAATGAGGTACAGCTTTAATGATCTGTATCTGCAAG
CCAGGAGCATGAATGTGATCTTATTGTATCATAGTGTAGAGATGAGATAGGCTAGCGCTACAGCACACCAGTGCATTGTGCCTGGGTGTCGGGA
GCAATCCTTCCATTTCCAAAGCAGCAACTCTTTATTTTTCATCATTGTTTCTTTACCTCACTTGTATGCTCCTTGTGATACAGATCTGAGTGAG
TTGTGCAAGCTTCAGACTTGCCAGCCCCCAGCTCCCAGGCCTAGTACAGAGTAATTCATAAACTTACCATATTAGACTATCAGATTGAAACCAA
GGGTTTCTACTGTGGTGGAATTGGAAAGCCCATTGTTTTGATTATCATTTCATCAGCCCCAACTGATACTAGTATGCTCAAGGAAAACATACTT
CAGTTACAGTTGATTTTCAGATTCCAAAATGGTGCTGCAAAGCCTGTGCATCTCTAATTATATTTTATGCTAGGCTGTGCAATACCAAAATATA
CGCCGCAGCAATCAGTGAGTGAACAGTATCAATCAATTTGTAAACAGATGAAGTCACTCATTCCCAAACTGGTTTTCCAAAAACAATTACTAAA
TTACAATAGAAAAAAATTGTACAGTTACTGTATTTGTGTGCTGTGTTACAATCAACATACCAGGGAAACAAAACAATTTAATGCAGAAAAATCA
TCATTCATCTACATTATAATTGCTTCTTTTTCACATCTACAGGGCGGTTAATTAAAATTGTGATTAAATGCGGTCGCGCTGCCTAAGATGTCTT
GCCCAAAACAGGTGGTACAGAATTTAAAAGTAAAAAAAATGTAATTAGCATTGGAAATTGAGAAATTGCCTGTAAGAATCAGTGTTAATTTCAG
TCAGTGATGAGGTAATTTATAAATGAATGCAGTGGAGGCTGTGCAAATGCACAATTGCCTTCCTTGCCATTCTTAGCATTCTCAGCATGCAGGT
GAAAATGTTTTCAAAATATTGAGGTAATTTGAAAATCAATCCATGCATTCTGTATCTTTTTTCTCCCATTTGTACCAAATGCTGAACAAATGCT
GCCATAGATGGCACAATCCATCAGTTTTTTACTTTCTAAAAGTAATGCTGCACATATTTTAGACCTAGATTAAGAAATATAACAACACAAATTG
CAAGCCTAAAATTGTTACACGGGTCAAAATTGTACACCTGAACTTCTGACTAATGGAGATTTGGTTGGCTGTGAAATGCTCCCATCAATAAAAT
AGAGACATGGGGGGAAATCTGTCCATGGTATAGGTGGTACAAACAGAATGACTATTAACCAATCCAATAAATACTTGAGATTAAATTTTTAAAG
TTTAAGAAAGAAACAGAAAATTTATAATAAGGCTGATATTTTTCTTAGAATCTTGAACCGTAACTTTGTTATTCCATCTAGAAACATCTAAAAC
CAGTTAATAAAGTTATCACTAGAAAAAGCGTTTACAGAAATTAACTGTTTTTCAATGTCATCTTTCCTTCAACAAAGATGCAACTTTCTACAA
AACATTATGCTATCAACTTACTATATTTCAAGCGTTCTATTGGCAAATGAGTGGATTCTATAGATTAGATACTGGTTAAAAATTATTTCTATTT
ACGCTGTATTTTTACTATTAAACCGCTAGACTTTTAAAATCTTTTAATGGAAGAAATTTAACTTTCATGTGCTTATTCTGACCCTCTGAACAAT
ATGAATTTAAAATATTTTAATAATGAATTGAGAATATGGGGTTTGAGTATCTGGCTTGATACCACTGGAGTTAAGAGACTTTGTGGGGCTTTTT
AAGCATCCTCTTCTGTGTTTGGCATTCTGCAAAATGATCTCTCCATATAAAGCTCATCCTAAGAATATGCTTATTTAATTGTGGCAGATCAATC
TGATGATCAAATTCTCTCATGTAAAATATTCTACGTGTTTTTTGCTGTTTCAGGCAGAAATCAATAATTTCACTTCACTCTGAAGTTATGTTTT
GTGGTAATACGGACATTTTCAGGAGAAAGGTGAAAAATAAGAAATACTGTATCTCTGGGAGTGTCATCTTTATTCATTCATTCATTTTTA
GAGACAGGGTCTCACTCTGTGGTTCAGACTAGAGTGCAGTGGCACCATCCTAGCTCACAGCAGCTGAGATTCCTGGGCTCAAGGGATCTCTGGG
AGTATCTTTCTATCCTCTGATTTCAGGCCTAGTTTCGGGCCTTCCCTCATGACCCTTCCTGATCATTTTTAGGACACAAATGAAAAGTGCAATT
TAGAGGTGACAGCTCAGCTGGTTGTTCCAAGTGGCATGCCATCGTTTCTCTCATATTTAAATCTGTTTCCCATTTAATATTACAAGTAGAAATA
AAATGAGACCTCTAAATGGAGGAAACTGAAAGGTCACCAGTTAACTCCATGATCCCTCTCCTTTCACCAGCTCTTGCCTCCCACTAACTGTGAT
GATGACGATTTCATATTCCAGCAGTCAGTTCACTTTCAGCGAGGGTGGGTGCAGACTTCATCAAAGAATGGCTTCCTGGATTTCCTTCAGGACC
TGTGAACATAAGATCCGCAACCACATGGGGCTTGGCTCAAATTTCAGCAGAGTGGTGGGATGGAGGAGGTATTATGACGTGCTCCAGGCTGCAC
TGGTTCTGAGTTTACAAGGGGTCACAAGGGTTAGAGAATCACAGATGTCAATAGAGCGCGAGGACCTTCCTACCCCTTGAAATATTTGCAGTAG

AAATCTTACCTCTTTACGTTTGGTTCGTAGTGCCCCATGAGCTTAGCACGGCAATGTGGAGTTACTTGTGAGATGCCACCAATGTTTCATATAT
ATATATAGTATATTATATAATATATAATATTAATATATATTATATAATATATAATATTAATATATATTATATAATATATAATATTAATATATAT
TATATAATATATAATATTAATATATATTATATAATATATTATTAATATATATTATATAATATATAATATTAATATATATTATATAATATATA
ATATTAATATATATTATATAATATATAATATTAATATATATTATATAATATATAATATATAATATGTATGATAATGACATATATATATATGTTG
AGAATGACAGTGTCTTTTTATACAAGCTCCCTCCACCAAGTATCATCTCTGTACTCTTACAGGGTCATCAAGATTGTCAGAAAAGGCCTGGACT
ACATGCCTGTCCCAGCACTAGATTGGTATTTTTTAAGTCCTTTTTTGTTTCAAAGTTTGCCATGTGAGCTTAACTCAGTTCATTCTGCTGTTAT
TACAAGCATCACCTCTTTGAAGCTGTTATCAGATTCATGAAAGAAAAATGCGCATTTTCTTTTTCTACTCAGGGGCTTCTTTCTACCTTTATTCCT
GAGAGTGATCAGAGCTTTGAATTGTAAAAAAAGAAAAATTTTCTCATTGTACAATAATTGAAAAGTATGTCATCAGGTCCTTTCTAGGTCTTCC
TGTGGTATGTCAGCAGAAAACTACAGTGTTTGTTCATTTTGCATTAATTACACACCTACTATGTGCAGGCTCTGGCTGAGGTCTGTGGATCAAA
AAATGGATGCTAGAGCCTGGGCCCCTGAGGAGCTTGCTGTCTAGTGGGAAATGGGGGTGCATTTAAGATATGATGAAAATGTGGCAAGTGCCAC
AAAGAACTTTCTACCCAATACAGAGAGAGTACAGAGGATGGCACAACTAGATCTGGGAGAAGGTGGTGAGGGGTCACTTCATGGCAGAGGTGAC
TTTTGAGGAGACTGTTGTCATATAACATGGATTTCACCAGCAAGTGAGGGCACAGCACGCTGGGCTGAGAGGATGGCATGTACAAGCCAGGAGA
AAGGGTGAACAGCGCAGGCATTGTCAGCCAACTGAGATGTCTGAAACACAGGGCATGAGCAAAGAGGATGGGCTTGATTTGAGTCTGCAAAGGT
GGTCAGGGAGCAGAAGAATGTCCTATCCCATATTTTTGGCTTGTATCCAGTAAATAGGTGATGGTGAGCTTGCGAACCATGTTTTATAGAAGAG
TGACATAATTATATTTGCGTTTCAGTGACACGTCTCTGGCAACTGTACGAAAGATATTATCATCTAACATTTGTTGAGTACTTAACAATGTGCT
GGGACCCGTGCTAAGAATTTTGCCTATGTCATCTGATCTCGCCCCAACAATAATGCTGTGAAATGGGTACTATTATTTTCATACTATTTTTACT
GATGAGGAAATTAAGGTTTAGAAAGGGCATGAGCCTGGAGTCAGGAAGAAAGTCTACGGTTACATGTTACTGTAATCATGGAATTTCTAGAATT
ACAAGCAACACAGGCAATAATGATCATTGACTAGAAGGACATTTGGAAAAGAAAACCCAGCGTTTGAAAAAGAGTGAGGCAGTTTGATTCTGTT
TCTCTGAGTGAATAGTGAGACTAAGTGGGGTGTAAGGATGTTTCATCCTCAAAATTTATTTTTTCTTTCATTACTATGTCAGTTTGAAAAAGAA
AATAAAAAATGGTTGTTGATCCTGAAGAAACTAATCCTAGAATGTGCTACATCTTTGAGAGTTTGGAAAGAGACAGTTAACATACAACCCTTCA
AAACAGTGGAATTTGGTAAACCCTGGAACACTGTTCTTGCTGATCTAATTCATGACATTAAGGCCTTCCTCGGCCTTATGAGGAAGCAGATGAA
AATAATCCTTTTGCGATGACTATTTTCCCCCTTTTCTGATTTAACTCTTCCATTGCCTAAGACTCACCAATTCTCAAACTTCTAAATTCTCCAC
ACTGCCTTATCTCTGCCATCCCATGGCAAGTCCTAAAGCTGCTAACATTTTGTAACAACTATGTGACAAATTGTTGTGCTTTTATTCAGGTCGG
ACATCTTTGCCAGGCTTGCTTGTTGTGTTTTCTGTTTGGCTGTGTCATGGGACCAAAGGTGCCTGCCTTTGTACAGCATGTCAAATCTGGTTAA
CATGCAGCCATTTATCTTTAAAACCACTCCTGCACAATGGCAGAGGTGGGCCAAGCCACAGGGCTCTAAGCACAACCCAATTTTTCAGACCATC
TTTTCTGCATATAGGGAGCACGTTGGACAGCAGACAAGACATTTTGTGATTTGGGGAATCTCTTAGAGACAAATTGTAGAGTGCAAGTGCAGTG
TAACTGGACTGCTGGGTGCCCAGTGAAGTGAGGAAAATCAGATACAGCACAGGCTGAAAGAATGAAGCAAGAATTCATATCTCTGTGCAGAACA
TGCACAGTACTTTGCTCACACAGAGAGTTCACACATAGACAAAAGCATGTTTGCTTGTGGGTTATTTTCAGGGGATCTATAGCCACAGTCTAG
GCGTATATATTTGCACGTAAGCTTTCTTTCTGCATTTTGTACTGGTAGGTGTGTCTACATGTGAACATGTAAACATGCTTATATGAGAAGACAA
TTTGCTGTTGCTGATTTAAGACACGGGAAAGGCCTCCTAGTTCACTGAGGCGTTTCCCTCCTAATGTAGTAGAAGCAGAATCTTTTTGTTTTCT
ACAATTGTTTTAATAAAGGACTCTGTGTGTGTTTAAGGAAGACTCAGAGCCAGAGTGTCAAGTGCTGCAGTGAAAAATACTGAAGATTTTTCTT
TCCATAAGACAGCTGCAAACTTTATAACCCAGTTCACTCTGGGTTTTCATTTCTCAATTGTTTCAAGGTGTCTTGGGAATGATTTGCCCTTAAA
TAACTAGTTATCAACAAAGGAGAAAAAATAGCAATAAAAAATGTGATAAACCTGCATAGACTAGTTTAACTAAAATGAAGAATTTCCTTGCTTG
GAGCAGTTCAAGGACCGAACATAGCAAAACTGTGTGATTTAAATGAAATATTCAGAGTGGTCAACATAAATACACATGTAGACAAGAGATAGTA
TATGTGTGTGTGTATACACTGAGGTTACTTCTTGAAGAAATAGGCATTTTTTCCTTTCTCTTTTTGCTTTTTCTTTTTCTGAGTAAA
GGACCCCAGAGATTGTCTTTCACTTTGAAAACAATCTCTAATATCAGGAAAATGCGCTGTTTGTTTATGCGTACATAATGCAAGTTTGTCCGCC
TGGGAACTGCAGCAAATGGGAGAAGTATGCATGGATTTCACAGGTAACAGGATTACGTGGGCACATAATTGATCCATTTGGAGAAAAAAAATGA
CAGTGCTCTAAAGATGCCTAGGCTTTGGAGATGGAGTTTATGAAACAGGCATTTGTAAATTCAAAGGAATCAATATGTCAATTTTATTACATCT
CAGAACCAGCTGGGCATTAAAGGAACAGTAGCCTTAAAAAAAATTACAGCTGCATATTCCTACGTTGTCTACCTTTCTTAAAGGCCCTAGAATT
TAAGGAAATGAACTTAGAGATGTGTACCTTTTCAGAAATGAATTTACATTGTCCAAAGAGAACAACAATTTAACATTATGTCAGTTATCAACCT
AAAAATTTGATTGAAATGTCTGCCTTATCATTACAATTGAAGTCTATTAATAGATACAGATAATAAGCAGAATAGTGATTTTCACATAGGTTGC
ACTGTCAAGGATTCATTGGAATTCATATTTGCATTGTGCTTTTCAACAGTCTAGATTTTACCTCTTCACTGATGATAGGACATAGTTTAAGAGC
TAGCCTTTGGGTGTCCCACAGAATTGGGTCTGTGCATGTGTGAAATATTCCTGTTTTATTAGAGTTTTTGACAATCTATTTTTTTTTTTTTTTT
TTTTTTTTTTTGAGACGGAGTCTCGCTCTGTCGCCCAGGCTGGAGTGGAGTGGCGCGATCTCGGCTCACTGCAAGCTCCGCCTCCCGGGTTCAG
GCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGTGCCTGCAACCACGCCCGGCTAATTTTTTGTATTTTTAGTAGAGACAGGGT
TTCACTGTGTTAGCCAGGACGGTCTCGATCTCCTGACCTCGTGATCCGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACT
GCGCCTGGCCGTTTTTGACAATCTAAAAAGACCAAGCTATTTAAATTATTAAGTTCCTAAATAATAGGATTTGGACAGCAGCCATAAGAGAGG
TGAATGGGATGGGAATTTAAGATACTATTTTAATATCACAAAGAGGTTACACAACTAAGGATGAAAGTTAGAAGCTATGAATTGGTCCACATAC
TCTGCATGTGCTGTCTGCTAGAGGCTGCAAGGCGAGCTGCTTCACTGTTTCATGTTCCAATCTCCACCACCCAGACTCCTGCTCCAATAACATC
TCTAGATCTATTCACTTGTAACAAATGGAGCCCAGTTCTCCTCCCTCCCCAAGGAGGCCAGACACTCGATACAATGAAAAGAACACAGGATTCA
GACCCAAACAAATTTGTGTCCACATTCTGATTCTGCCATTTACTCTCCATGCCATGTGCCCCTGGGTGCGTTTCTTAACCACTCTGAACTTCGG
TTCTTAATGCTTAAAAATGGGGAGCAGTATTTGTTTTATAGAATCTTTGGGAGTATTACACAAAATTCTAAAGACAGTGTCTGGAGCCTAGAAA
ACGCTCACTAAATTCTGATTATGACTGTTTCAAGGTGTGACTAATCAGGATGCCAGGAACCCTACGATGGAGGCACTTCAGTTTCTGGGCCTTG
CTGAAACATTCTTGAAAAGAGGAAACAATAACCGTAGCCTGAGATATTCGTTCCTTTTTTTTTTTACTCTTTGGAGAGTACTTAAAAAAAGAAGA
AAAAAGAAATAGTCATAGTGATTGGCATGCTATTCTACCTCTACATTTCCAGGAAATATACATGGTACTTTTTCTTATAGAAACAGCATCTCCT
CCAAAAAGAATACATTCTGAGATGACTTTTGTCACAGCACTTAAAATATCTGATTCCTATTTGTCTCCCCACAAATGTGTAAATGGCTTGAGGG
CAGTCTTGCCCATCTCAGCTCAGGCCATGACATACAAAAATTGTTTCGTTAAAGCAAAGGTATAATGAATACAGCGGGTATATTAAAGATTCAG
TATACATTATCATATGTAGAAAAAAGCTTTGGGTAACTTTATGTCAGATTCCCTACCACCATATTAATAACTTTTTGAAATTCACTTTGTGACA
GCTATGTTATTTTGAATACTTGAGTGGGTTTGCTTTTTGTTTTTGTTTTTGTTTTTAGTTTGTATTTAAATCAACTGGCTCTCTGCCTTTCTCA
ATGACACCTTTGAGACTTGGGAGTCAGGGAGGCAGAGAGGCAGTGTGGGTGCTCGGAAGAGTGTAGGCTTTGGACATCTGGGCTCAAATTTGGT
TTCTACTTTCATACAAGCCATAAGACCTGTAGCAAGTTGTTCAGTCTAACTGCATCTCTGCTTCTCATAATAATACTCATGTTATAGGGCAGTT
GGGAAGAAATACTGGTAACAGGTAAAGTGCCAAGCACATAGTAGGTGATTAATGTTCTGTCCCCTTCCTCCACTCTTCTTTGTCACTTGAGCAT
TCACTTTGGGTTGGCATTTAGTGAGCTCCTTCTGCCCGTCAACAAGTCAATCAACATTTAATACATACCATGGGTAGATATCTTACCCCTGTTC
CAAATTTCATTATGAAAATTGGGCTATTTTCTACTCAAGGAAATGAGCATGCAGAAGTACCTTCTGTACTTAGAATCACAATCATTTTAGCTAT
TTTCCGCTTAATCTGACGGTTTCTTTGTTCCCATCATCTTTTTTAGTGAAGCACTTTGGTGTTTCTGCAATCCTTTGCTATCATTCTGTGCTTG
GGTATCTCAGATCTCTCTTCTCCCCCGATCCTTTGAAGACATCAGAAAAGAAGAAGCACAAGGTCTCTTGACTATACGTTTGCCACACAACTGT
GTGGATTGGTTAGTTAATAGAGTTGATTAAAACACTTTGTTTGATTCTGCTTAAGCATACCAGAAATACATTCAAAATCTACAGCTACAAAATG
TAAAGAAGGTAGTCCAAATATAGTACTACATAATGAGGCTCCCTGTTGGTAGTATATAAAGCAGTTTAGAGTATAGCTTCAAATTCTAATGAAG
ATCATTTTAAATCTTGCACTGAATTGTGAATTTAAAATTCCCATGTTCTCCATAAGTATCTGAAGAGGGGCATGTAAATACCATAAGTGAATTA
ATTACTGCCTTAAGTTGGTAAAGCATGTGTGAATCCAAACTTTATTCTTGAACTTGCACTTCTCTTCCCAAGGTTTTTTGAACCATTTCCTATA
TGCTGAGTTCTGAGTACCTATTTAACTACTGAGGACATATGAAGAAGGTAGTTTTCTTTGCATGGATTAAATGTTTCAATCTCTGAAAATCACC
ACCACCACAACAAAAAGTCTGCCCGGCACCATCTACATGTACATGATGAAATTCCTAAAGCAGAAAAGATATATTTATAATCTGAAACTTATAA
AAACATGACAAACTGTTACCTTCACTTTTGTGCCCCCTTTTTTCATTAACAGTATTAGGTCGTTTTTTTTTTTTTTTTTCTCTTGAGAAGAAAC

GAAAGACGAAGTGGCAAGAATATCTTTCACTTTTGCTCACGTTTTGGTGGTGTAATATTGGGACCACTGAAGTAATTGGACAACTTTTCCGAGC
TGACTCTTCTGAAGTAAACCCAAGGCAAAGGGAAAATGGAGCTGCTGCTAGGCTCAACTGATGGCGCCCACATGGCGCCCACCCCAGCTCCTTC
AGAGACTCCATCATTTCCACAGAAGGGCCAGAGGCCCTGCCAATATCCGCACATCACTGGCATGATAGACCATAACAGCTTCTTCTGAGCTGTT
CCGGTCTATCGTGTCAATGCGTACTCGGGGAGTCCTCAACGCACGGATCACTGACACGGCACTACATAACGGCTCCTTAGCAGCCATTATTGGG
TATCAAGTCAATGCCTACTCAGGGAGGCTTTATCGCAGAGGCCTGCACGAGCAGACACATTCCGAATACTAAAATTCCTTAGGAAAATTAGTCA
TTGCCCATGTGTGATAGCTGTTTTCCATTTTGAATTTTAACCATTTTGGGAAAAGGAAGAGAATGGGAAATACCAGTATAGTCCGAAAAGCCCT
TAAAAAATGAGTGCGAAAAGTGGAAGGGTGGAGTGGACATAGGAAGATGATGAACTTGTCATTTTTTCCTTTCCATAGCTTCATTTTATTGTGT
CAAAGTTGCAGAAAGCACTTCACTTTCATCGAGGCTCTTTTTAGGCAGGGTACAGCCAAGAAAACTTTTTTATGGCTCAGATGTAAATCCTAGA
AAACGTAGTAGAAATGATGGCAGGATCTCTAACTGTAAAATAACAGTAGTGTTAGTAGTAAGTGTCATTATAATAACGTTATAGAACTCTGCAC
ATCAAAAATACCACATTTTATCATGATCTCTGCAAGAGATTTCTGTTGGTAGTCATTCTAGACTTCTAATAAATAATACGTTGAGTAGGAAAGG
TTCTGTGAGGATCCAAATAATAATGAAAATGACAGTGGTGATATTAATAATAATAGTACAGCTCCCATTTATTGTATCATTATTATGTGGCAGG
CATTTGTATACATTATCTCATTTAATTTTCTCAGCAGATGTGACAAATCAGGAAACTGTGGCTTAGCAAAGTTAAATAACTTGACTGATGTCAT
GCAACCACTAAGTGACAGTGGTGGGATTTGAACTATATCTGGGGAGAGTCATGCTCTTACCATTGCATTGCCTCTAATGATCATCACTTTCAGG
GAACTAGGTGTTTAATTAGAATATCCCAACCCATTGTCTGCTTACTGATCAGGAAACTGAGGCAGGGTAATTTTAGTAATTCCCCCAAATAATA
AAGAGAGTCAGAATGAATACCAGAAAGCAACAAGAGGCAAAAACAGCCTTTCTCTCTGACAACATGTTAACCACAAACAAGACATGGGAATTTC
AGAGCCTCCGTTTGTGTTTCAGAAGGAATGTCCACTGTTGCCATCAGTCCTGAAAAGATTTCCTTGCACCAAATCAAAATGGTTCGAGTTTGCT
GTTGTTGATATTTTTTTTCCTTTTGTGTTCTGCTTACTGACTGACATCTGCTATCATGCTAAGCAGGTGTTCCTATGTAAACGAACGTGCCCTG
TTTGTGTTTCGCCATCCTCGCTGCTGCGCACCCAAATGAGCAGCGTGATTAAGAATCCTGTAAATTTTTGAAAGGAAACGGATGGCTACCCTAC
TAGAACATAATTACACCGTTCCAACATCCGCAGCTCACTGCTGCAGCAGAGTTGGAGAACAGCAGAAATTAATAATATATAATAGCATCATTCT
AGTAATTTATAAATGAAATAAAGTAGAGAGGAGATTCTGCTGATATGCATTTTCTCCTTAATTCTAAAAGACAAAGTATAGATTAGAATTTTAG
TGGGGTGAAACCTGGCCAGCAGTCTCCCACTAGTTGCCTGATTCATGATAGGAGTGTTTTTGCTTAGGGAAAAGAGCTAATATGTTTTATTAGG
CCAGAGGAAAAAAAGAAAAAGAAACATGAATAAACAAGGCCCTCTAAAGGCAACACTAAATAAAGGGGGTCTGAAAAAATCTCTGTGGATTGTG
TGCCCACTGTATTTAAAAAGATATTATTACTTTAAGACTTCAACATGTGCTGCATTTTTTCTTTCATTGTAATAACATACCACCATAGGTCACC
CCTTCTGAGAAAAGAGGGACTGATCAGTTAAAGATGTGGCCCAACATAAACTTTATGTTAAATAGCACTCGTGTAAATTCTAGAGATCTGCTGA
ACAACAATACACCCATAGTTAGCAATAATAGAGTAGATTTCATCTTGTATGTTTTATCACAATAAAAAAGAACATTCATGCCTTTTTAAAAACA
TTATTTTGAGTACCCAGTATGTGCAAAGGAGCCTCTTATTACAAATCATCGTTAGATTAAGGGAGTTGATGCTTTTAGTCAACCATGCTGGAGA
AAGAACAACACTTTCTAAAGAGGCAAATAAACTATATGTTAAAAGTAACCAGTCCATTTCTCTGTCTCATAGGGTTGTGGCAGGCACTTTAGAA
ACTTTAATGTTTTTCTAACTTCATTTACCGTAGGTAAGATGCCTAACAAATGGATGAGCTCAGTTGTTTCAAGAGTTTGTCTCCCATGAGCCAA
TGCCCATCACACACACACACACACACACACACACACACACTCACACACGAGCAATTATCCTTAAGAAAAATAATATTTATAGCACTTAAA
GTGTTATTTAAGCAACTTTTCCTGCTTAATTCCAAAGAATGACAATACATCCAAAAAAAAAAGTCATGGATTTTCTTCCTTTAATTAAACTTAG
AGAACATGAAAATACTGTTTGCCTTTCAAGAGAAGCATGTCCATTTAAGATGCTTATTCATTTAAGCAGTATTCATTTAAAGGTCCCCTTGAGT
ATTACTCTATGTGTTTTGATTTGGTTCAGAGAAAATAAATTCATTTAATAGATTTATTTCATTAACAGGTATTTATTTAAGTGGGTTCCACTGT
ATTTAAATCTCCAAACAGTTTCCATTACTTCCTTAGCTCACTTGCTCCATGTTGACTAATTTTAATAAGCCTAAGGTGCCTAGGGTCTTATTGA
GTGTTCAGTTTGATCAATATGGTTAAATTAAAATTGTGCAAAATATAAGCAAATGTACTCTAACAACACAGTGAAAAATGTGCTGTGCACTAAG
CATTGATTGGTATGCTGTGGACACAGATATATGAAGCTGGGTGGGCCTCTGAACTACCTGGAAACTGCCACTCTCCTCCAAAGCTCCCCTGGCT
TTAGATACATCCATGTGATCTCCCACCCGTTCATGGAGACAGCAGCTCAGATACCCCCATTGAATTAGAAGGGGAAGGAGATTCATGTCAGGTG
TTTTGCTTTTTGATTTAATGGAAAACAGCATGTAAGGCTCACAGTGAAATCCTATATAAAGAAAAAAAGCTAAGATTTTATAAAAGTTCAACTT
TGAGTATTGCTGAAATGCTTTAGGTAATAAAGAATGCAGGCCCTAGTTCTTTTTCACAGAATAACTTTTTACCGTAATTATCCTTAAATTTTAA
TCATTTGGTAGCTTGAATTCTTTTTCAGAGATCTTACTTGTCAAGTTTGTTTTAGCAAATTACAAAAAAACAAAAACAAAAGCCAACCTGATTT
TTAAAGTATACCAAAATCAGCTTTGCCATTGGTACTGCATTTGAAAACCTAGTAAGCTTTCTAACAAATTCATTGCTTTCTATATAATTGTAAA
GTTAAATAGATAACTGAATATTTTTAGTGGATTCCTTTTAGTATGAATAAGTTTGTATCTTCTATTCCTAAATCAATTTCTTTACCTTTCCCTT
TTTCTCTTCTTTTTTTTCTCCTTTTTTGCCTGTTTTATGGCAAGCATACTTAATATTCAGTGTCAATCTTTTTAAGCTTTTCAAAAATCTACCAC
AATCACTTACCAATCATAAGTATATATCATTCAAAATTGTTCCTGATATGTGCTGGCTGTTGGGGCAGTTTCTTTTTCCTACCTGTTGTGTGCC
TTTGTACCTATCTTTAATCTCTTCTTGCTAAGTGATAGCTACCATCACAACACTGGCTTTCCTTGATAGCATATCTTCCTGCATGTCCAAAACT
TAAGTTCACATGAGCAGAAGTTGTTCTTATCAAAGGTAAATCAGAAGTTAAAAAAAAAAGCAGAGAGATAAAAACATCAAAAATGTACATCTTG
CAAGCAATGATGTTGAATTTGGGAGAAGTGTGTTCTATTGAAATGAAAATCATTTTCTAGTTTAAACTGATCACGGAAGTTTATATGCATAATA
AGGATTTGAAGTTTCCTATCAAATTAAGTACAGTGTTTGAGCTTCCTAACATTTAATAATACCATCACCAATACACCTGCAAAATAAAATAATG
TTTGAGCCCCAAAATCATCAGAAATATGTAGACCAATACCAGTTCAGAAGAATTGACTTTATTTTTGTAATGGGGCCAAGAAAAATTCTTAGGT
TTTTGTTTAGTTTTGTGCTTGTTAATCTTGATTTTTCCCAGTGTTTTGCATGTTTTGAGTTTTTAATATCAAAGGTACTGCTCTTTGTAAACAA
GTGTAAGTTTACCCAGGCAGCTTCACTTACACCCTTCCCTTGTAATCAGATGTGAAAATTACACCCTCCCTTTTGGATACATGATAATTACACA
TTTCAACATGCAAAGAATTGTCTCTGTTTCAGTTGTTGGAATGAAAAAGCTGAGACATTTCAGTAAAATATATTATTATATTAAAGATCATTTC
CATAATTGTTTTCGGGATTTGTAATCAAAACCATGATCAAGGTAGTCTTAGTTTTAAAAAGAATACACATGGAAATAAGGAGAGGATAAAATTA
ATTGCCGAGTTCCACTTGAATGACCATTCTTTTATTTTATGAAAATACAGTTAAGTACATTATATTCTTTCTTTAAAAAAAAAAAAACCTTCTA
GTACCTTATTTGACATTTTCTTTTCTCCATGTTCGTTGAATTACCTATTTTTTCAGGTCGACCAAAAAAATGTAGAAATACACATTTTTGTGATC
AAGGTGAAAAATTTAGTCAGAAGAGAGATATAAATACAATGAAGGAATCTTTTCAAGAAAAGATGTGTTTGTTTTTGTTTGCAAGAGTGCTTTT
CAGCCAAATATAAAATTTTGTAAACTCAGGTAAGGCACCTCACACTTCACAATCAGACTTCTGGATTCATCTAGAGTATCACTCATATCATAGG
TAAAAATATATGTCACTATTGGTATAAAATACACTGAAGCCTAAAAATGCAGAGGTTTTGGCAAATAACACTAACTCAAAAATATCTTGTATA
TCCAAGGAGAGGGTTTAAAATCACCGATTCCTTTTTACTTTCTTAAGCTAAGAAGAAAAGGAAGAGAGAGGCCAGGCGCAGTGGCTCACACCTG
TAATCCCAGCACTTTGGGAGGCCGAGACAGGTGGATTGCCTGAGGTCAGGAGTTGGAGACTAGTCTGGCCAACATGGTGAAACCCCGTATCTAC
TAAAAATACAAAAATTAGCCGGGCGTGGTGGCGAGTGCCTGTAATCCTAGCTACTTGGGAGGCTGAGGCAGGAGAACAGCTTGAACCCAGAGGC
GAAGGTTGCAGTGAGCCGAGATCATGCCGTTGCACCCCAGCTCAGGTGACAGCGTGAGACTCTGATGCAAAAATAAATAAAGAAATAAAAGAAA
AGGAAGAGAGAAGGCAGCATTAGATGGCTGATGTTATGGCTTCGTGAAACAGTTTATGGCATAAAGAAATAACTCCCCAACTCCTTAGTTTTCC
AAGTATGTAAATGTTTCTGCTCATCCAAACACTAGCATAGGTAAGTGAGGACACATATTTCATCTAGCCCAAATATATTTTTTAAAAGAATCCC
TGCAGATTTTTTGCTTCTATAAAAAATATCCCAACCCAAATTTCTAAAAATTTTGATTTTTGGAATTAAATGATAATACTAATTAGCATTTACC
TATACATCCTTTTCTATTTTAAAATCATTGCATAATCTGGCATTTATATTTAATTTTCTAAATCATTTTCCCTAGAGAGCATTCATGTAATTTT
AGAACTTGGAAGGAACCAGGATTTCAACTATACTCATCCACAGACTTTTCCCATTGGGTAGAAATTGAAACAGAACTGACAGAACCAGGATTTG
AATACCAGCCTTTTGACTCCAAATCAGGGACAAGATGCAGTTTTGTATGTTAATTATTTTTATTGGTTTTGATATTGTGGCCCCAAGATCCATA
GTCTTATTTTCATGCTAAGTGACTCTTTACTCTGAAGGGCCAGGTTATAATTGCCATGTATGCCAAGAGTGAAGGGACCCAGGACCAGAAAATT
CAGTATGCCCGGGTGGTGAGTTTTTAGACTTATGGAGCTGCATGTTCTGAACTCCACGTTCTTTGGTTTTACTGCTCCTGTGTTTTTTGACAGT
TGCTTTTTTTTTTCTTCATAATTTCTGTACAGGCTGGGCAGAGAGTTCAGGAAATGTTCCACCGTGTACTGACATTCCCCTGGCAATAAGTGGG
TTCCCACTTCAGTCGCATTCCACTAAGCCTATTTTGGCACCATAGAGAGGGTGATGAGAGGGAAGAGTCAGTGGAGGAGAAGACAGGAAGGTTG
CCAGGAAGGAATTGAAAGGCATATGCTCCTGGCCCCATTGCCTGTGTCTGCCTTCACCACCTTTAGCTTCACAAGCAGTGGCCATGGCAAATAG
GAAAAGGTTTGGGTGGGAGAAACACAGAAGAAGCCATTCCTGATTAGGCCATGTGTCTTCCACTAGTTTCCATCAGAGTGGGCTGACCGATCTG

TGAAGATCTGGGATCATGACTCAGTATAACAAGAAGAGTCCTACACATTTGATTCAGGAAATTTGGGCTCCTGGCCCACCCAGCCCTGCCTTCC
AATCTCAGCATGGCCTTGGACACATCCTTAACCTCTCTGGGCCTCACATTCCTAATGATAAAATGCAGGGACTGGACAGAGATTGCAAACTGGT
GGCTGACAGATGTTTGATTTGTCCCACACAGTATTTAAACACATTTGAATTGGTTGCCAATATTTAAAAATTGGGCTATTTCACACACACACA
CACACACACACACACACACACACACACACACACAAATCCAGATTTCCAGCTCCCCTGGAGAACTCAGATGATCTGGTGTTTCGGGCCCAC
ATAGCTGCATGGAAAGACCATGTGGGAACAACTTTGAGTTCCGTAAGAAAAATCAATCAACTTCCCTCACCTGCTTGGCCTGTGTAGACATTTG
AGTGTGGGACCCCAATTCTCTCCAAGACTCCTTTGAAGCTCTAGTTTTAGAATTCCAAATATGATTTGCTTGACCATAAGAAATATACTTAATC
CATAGTGGTTTCTATATTCACGGCAGAATGCTAAGGTATTTGTTTATACAATCAGCATCAGGTAAAAGTTGGAACTATCTTAGGCCAAATAAAT
CAGCCCCATTTAGAACAAATGCTGACTTTGAAATTTGATAATGGGAGGCAGGAATAGTTCAGCAAAGATAGCCTTTGAGGTAGTTACAAGAAAG
ATGGTTTGGCTCCTGACTCACTATTACCTACACAGCGAACTGTGTATTTTGCAAATTATCCAAAAGTAGATTCTTTAAAACCCAAATCAAATAA
TACAAGGCCCTTCAGTTAACATTTTTTCACATCTCCCACTCTAAACTAACATCTTCATAAATATTGAGATCATGAACTTTTTCTGTTCATGTAA
TTGCAAACAAATTATATTGGCCTGGGAACTGTTTGATCTTCTTCAAAAGTAAAGGAACTACATTGATTTAAAAGTTATATTTTTGTAAATCAT
GTTTCCAAATGTATCCACTTTAAACACAAAAGGTAACATTTGCGACTCATGGTTATAGAGTGTTTAATATTGTACAAGGTGCATTGACAAAAAT
ATCTCATTTGATCTTTACAACAATTGTAGGAGCTAGACAGAGAAGACATTTAATACAAATGAGGAGTCTGAGACCCAGAAAAGTTGGATGACTA
TTGGAAAATTGGCCTATTACTTGCTTAATGTGAAAAAGAGCCGGGATTCAAATCTACAGCTTTTGGCTCCATATTTAATGTTTTCCATGCCATC
AGTATGCTTCCAGTGTCTTAGGGTATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTCTTACCTAAACACTGACTTTTT
CTCTCTCTCTGTCATGAACAAGAATTGAGAGGTTAAATGGGAATTGTCTCATGAATTGTCTCAATGTTTTCTAAGTTGAATGAAGAATCTTTTT
TGGTAGCTATTCTTAAGTGAATGCTGGATTTTTATTAAGGGAAGCTAACAGATATTTAAAAGCACCCTCCATATATAAAAGCACAATCCATGGA
AGCATAGTGCAAGGAATAATGATATAGACAAATGGAGGAGGGGCAATAAAAAGTCATAAAACAGGCAGGTAGAGGTTTCTGGAAAAATAAGGTG
GTGAGGGAAGAGTCTAACTGTAAAAGTAAAAAGGTAGAAGATAGAACCGTTGAAAAAAAAAAAGAAATATCAGAAATATAAAGAGAAATAAACA
GCAAGAAGACTCCGTAGTAATTTAAGAAGTGAAAACTTTTAGGACAGAGGTAGGAGAGAAATGGGAAACACTGGAGAGGAAGTAACAACTAGGA
AGTGTGGAAGAAAAACCTGCAGGCCAGAAATCTGAGCAAAGACTTGAGAGAGGATGATGGTAAATGTGAAACATTGAAAGGGATGTTTTAAGGG
ATTCAGACATTGAGAGGAAAGTAAATTTTCATCACAACACCCCATGACGACAGGCTCAACACATTTGGATTATGAGAAAGGAAATTAACATGGT
TAGAACGAAAGAATAAAAATTAGTAAGAGAAATCTTTGGATGTCAATGGAGAGGAGGAGAAATGATATTAAAAGGAAAGAAGGCATGGGTGGAA
AGTAGAATGAGATGAGAACCTATGGTAGGTGGAGGTGAAAAATGAAATGCGTCAGGGAAGATCATGACTGGGACCGCCGCACACTGCAGTGATG
AAGACGGAGAAGCTATTCTTCAGGGAACCTGCAAATAAAAAGAAACCTTAAGATGTATTTGGAGGGAACCCACCCCAGCAAGGTGAGAAAGCAA
GAGGTTACATTCTGCAAAAAGAGAAAATGAACGGGGAGAAGGGGGAAAACTAGGGGAAAGAGAAAACAGCAAATCAAAGTTATGGAGCGTACAG
CATTGAAAGGAATGAGGCATTCTGTTGGAATTATTCATTTAAGCATATGGGTATTGGCGTCCCTTTTCTAAAACCGGATCCTCTCCCTTATTTC
TCATTTTTCTATAACACTATTATAATAAATTCACATGGAAAAGTACAAGGATGAGCAATTTTTTACTTTAGAAATGTTTCAAAAGGGGAGGTAA
ACTTGATGGTTATCTGTCTGAAGGGTGACGCACTATAGTGGCATGTGAGAATGAGGCCAGAGGTAATCATCAGTTTTGAAATTGTTCTTTCAAC
AAATTCATAATGCATATAAAGTAACTCGTGCACACATTTATGGCAAAACATACTCTAGATATTAATTTATATTGCTTATACTGAAGATCTCTTG
AGTTTTCAAAAAGTTTGATTTACAGATTTTTCACATCAAAAATTTTTTGTAGATTCTATTTTGTAATTAAGATGTGTAGACTCCTCAATAATTC
TTTACCTTGATGCTGTGTATACTCATTTATCTAGATTAAAATACTTCCTTGCCCTGAATGTTCTAAAAGTGTACCCCTTGGGGCTCTAGAATTT
AGAAGTCTCCCTTCCCCAACTATTTCTAGTCTACCTTTTCAATTGAGTTAATATAATGGCTTTAGAAATACAATTTCCATGTTGCTATAAAAAT
GGGGTTAAAAGTCATAACAGGCACAAGAAACAGGAGGAAATGAGAATTGTGTACTTTCAGTCACACCCGGGCCATGTGCTCGGGCCACATACAG
CATGCAGCCCTCCGGAGTGGGCTGTGTAACCCGGGGCACACTTGAGGTCAGGGCACATAGAGGATTAATTTACTGAAGGTGGTAGACAATCCCT
CTGCCACAAATGCAAACATTTTTTCATAAGCGCCTGAAGCAATTAGTTCTCTTCAATAATAAATTTAATCTTTTCCTCCTTCCTTTCTTTCCTC
TTCGTTTCTCCTCTTTCTTCTCTTTTCCTCTATAAATGCTGGCCTTTGTCTAAGATCTTCAACTCAAAGGTGTAGATGCCAGGAAAGAAAAACA
AAATCAATGTATTGTGGTACTAACAAATAATGCTATAATTATTAGAAAAAAACAGATTGAAGCAAGATACAAAAATTCTCAAAAGCAGCTATCT
GTATGAAAATCTTTTCTACTTCTAGAGAGTATGTGAATGACTGTATCTTTCATATCGTGAAAGCAGATGCTTACATGCAATCACCTTTAAAAAA
AGAAACAAACTATCACAGTAGTGACATTGCCTATTTTATATGAGTAGGGAAACTAGCCAAATAGCTTTGGGAACATTTATTAGCCTTGTCCTTT
TTTTTTTTTTTTAACTTTAGTATAGAGAGAAAATAGAGATGACAGGTAGGTGGCTAAGTAAGGTGACAGGATGGCAGACAGCATTCCTATCAG
GGCAGAAAGAATTTATAAGGGAGCTGCCACTTATAGCGTAATAGAGCTAAGTTAAGAATTGCAAACAGAGTAGGGCCAAGCAACATTTTAAGAA
CAATTGTCCTTAAACATTCTTGTAATGCTAAGTCACTCATCTTTGTTTCCCACTTGCTTCCTAGAGTTAAGAAAAGTTCTTTCCTAACTTGGGT
TGCTATGCAGAGATGTGAAATTTCATTGGCTCCAAATGCTTTTCTGTCTAGTAGGGACTACTGGGAACCCTGCTAATGTGCATATTGATGTACC
CTGTAGCTTCACAGATGATGAAAGAGCATATTACTTATTTCCACAACAACAAAGCTAAGAGAAATTTGAAAGGAGCCAGTTATTTTACCTGGGG
AATTTCTCCCAGGTGATGGGGCTATGGAACCATGGAATTTAAATATGGGGGCCGTCCTATTTTCTAAAAAGTTTTTATGGGGAGCCATAATATC
ACTCCCAAGCAGAAATCAAATCAAATAAAAGACTATTGCTTTCATTTGCATTTATTTAGTCAACTATGCCTAAAATACGGAAAAGATATTATCA
TGCTCATTCAGAGTGTATTTTATTCGTTGTTTACTAGACTGGACTGACATGATATGATTTGTGCTTTGCGGGGTCACAACAAGCTACTAGCAGG
ACAATTTGCTGAATCAAGAGGATGATTGTGTCTGGTGCCAGTCAGTCGCAATTAGGACCAGGATCAGGGAGGCCCGGGGCTTGTGCATCGTCTT
GGGCAAGCTGCATAGAAATCAGCTCACCTGAAACTAATTGTCACAACAGAGACCTTATGCAAATGAGCCCTGGGGTTAGCGTGGGAAAAGAAAA
ACTGTCGCAAAGATAGGTGACCTGCTGAGCAGGGGGTCTGTTGCTGGGGAAATCTTTGTTCAATGAGTTTAAAAATGTTTTCATTGTTCAAAGT
CCACCCCCCGCCCCCCCCCCCCCCAAAAAAAGTAGCATACACACTCACTAAGAGTATGGCAAACACACTCATCTAAAATTCCAATAAAGCAGAA
GCCTGCTTTGGAGCATGCCATAAATTGGGAGTCTTTATAAGGGCTACAGCAGGAGAATAATTTCCCTTTGCAAGGGCCTTTAAAGTTTAGGTGC
TGCGGATTGCAGTGTGGCCTACCTTGAAAATTCACTTGCAAGGTCAAGCCTATTGCTAGCCTGGCAGGACCCGCACAGCCTTTTCTCCCTGCAT
TCCAGCAGGCCACCTCCACACAGCCGTGAGGGGTGCCTGTGAACTAGACAAGAAAGGCCTAGTTTCTAATTGAGCTTTACTGGTATCTCAGGTA
GAAGAGAAGGGCCAGGAGCACTCTCTTAACACATGGCAAAAGAATCCGGGGAAACAATGGCAGTTTCTTGAATTGTGGTTTCTCAAATACTCAC
AAGTTCAAATGAAATGCAAGCATTGTGAAATTCCAGGAATGGTAATGCAGCCCAAGTGGTAATAGATCATAAAAATTTAGCAAAAGAAAAGTAA
AAATTATTTTTAAACTATGATTTACTTTGTTTTTCAATCCCTGACAAAAACACGTATAAGTTGGAAATGACGTTTGATTTTATTGTAGCACTCA
TTTGGAATAATCTTTAATATGTTTTACTTTAGAAAACCAGATGAAGAAAAGTTATTCAAAGGTAATGATAAACATTTTTATACGTTACTGTAGC
AAAGTTGCCTTTGGGTTCTTCAATTGATTTTTAGCTTTTCAATCTTGTTTTCATAAAAACATGGGCTAACATATTGATACTTCTTAGCTTTACA
CTAAAGATTTCCCAGTGACATAGTAGATAATGTATATTCACACAGGAGTATAAATATAATATCAAGGAAATGAAATAGAGTGTTCTAAGCTTTA
GCAGTAACAGAGAGCATAGATATTTTGCATCTAATGATTTCAAAGAAAGAATAATTTGAATTTAAAAATGTAGGTGAGAGAAAAAGAAAGTTTC
ATTGCATTGGCGTTGAATACAAATGCTATTTTGTTTGGCAAATTACTGGACCTAAGAAAGTGTTTTCATTGTGTTTCCTAAAGGGCTGGATTGA
AATTTGGACTTGTACCTGATAAGCAAGCTCAGGAATTAACTTGGTAGCCACCACAAAACCTAAAGAAAGTTAGGCTTAGAAGTGCAACTTAATC
ACAATTTAGATTAAAACACACACGCATACACACACATATACAACTCTTTTGTCCCTTCACCACTGTCTGAAATAATTTCCACATAAGAGACATT
TCACAGTGGGTACGAAGTGCTCAGCTTTCACTCATCAAACTTTAATCGGAACTGCATTTTAGTTTTTGAATAAAGAACACTTAAAAAATTTAGA
TGCAAATTATTTTGCATTATTCATGCTCTAAGTGTCCTTGTAGATTTAAACACTTCTGAGGCCACCTTGATTCAAGTAATTACCTAGGCCCTCA
CTGCTCCGTCATGAATAAGGTATTTTGTACAAGTAAAGTATGCACCCGATGAGCTTTTAAAGTGGCTTTACACTGAACTTGTGTATTGCTTCTT
GTGCATGAGTGAGCCGAACATGTGTCGCAATCTGTCTCAGGTGGGAAACCCTGGCTGGGCATCCATGGGTGACGGGATGAAACCCGAGCGTCTC
CTTCACACACATGCTCTTCCTTTGTCTCTACCTAAGAATGTTCCTGCCTGATTCTAGTAGTTGTTTTAAGCATTAAAAAAAGCAATAGATTCT
AGGAAAAGAGACAGGGAAAGTGACAGTGATTCCGCTTAACCCCTTCATCACCAGAGATTATTGGAAATGCCCACTTTTCAGGCCTCCTCATCTC
CATCAGCAAAGGCTTCCTTGTAAGGTAATAAGTCTCTCTCATTTTACATGGTTCTGTACATCTGTCTCCCCATCTGTCAGCCCAGCATCCTGAG
CTATTAGAGCTAGGTGCTACCTCCACCACGGTATTCACACGAAATGGAGCAGGCTTCAAACTCAAAAGTAGCTGAAGAATACTTACAATGGAAA

TGAAAGTGACCATAGAGCATCAATCTGTAAGTTTATCCACACACACAAAAAGAGGGTTTGTAAGAGTTAAATGTAACTGGCTGAAGCTTATAGC
TGGCGTTTGTTACAAAGTACCCAAGCTTTTCCTTTCCAACTTCGTGGCTTTGAAGAATTATAGGAATTTTATGATGTGCTGTTGGAGTTATACT
GGCAGAGATTACAGTAAAGGGGTTAAAGTTGGTTTATGGTAGAAAAAAAATTATGCAGAAACCAATAAAAATAAACACACTCAAGTAGACTAAA
CTTGCTGGGCTTTTAGTTTTACTTTTAACAAAGGAAGTTTAGATGAAAGTAAATGTTGCAGCTTTTAGAAAATTAGTTGACACTCATACTTGAT
CATCTTTACTATACAGTGGTATAATTAATATTTAAACATTCTAATAATGCAGCTTGCTTTGCATGCACTTTTCAGCCTCACAACATTATATTTT
ATCTGGAATTGTGCTAGCATTTTCTTGGGTAGTGCCCATTTTCATAGAGTTAAATTTAAAATAGGGTAGGGCCTCAGCTCTTATTGCCAGTAAA
ACATCAATAGGAGAGTGAACAGGTTTCATACATCTACCAGACAGTTTATTATTAAGAACAATATTTATTTGAGATAATAGATAATATATAAATT
TTGTTTCATTGCCCCATGAATGTTTTTAAATGATCAGAATAGATTAAGTTTGAAAGTTGCATTTGGCTGTTGTCCACTCACTGTTCAAAACAGG
AGGATTTTGATGATGTCAAGGCAGTGCGAAATCAGCAAGTGATACATGAAACATGGAACCCCCATGCCTGCCCATTCATTAGGGCATCTGATTA
ACATAGTAAGGAATGTTTATTTTCAGTACATAAAATTGTAGAACTTTGGGAGCATCTTCTGAATTGCAAAAGCTGAACACCCAGGAACTTAGTG
AAACAATAAAAATATAGAGAAGTAAGCTAATTTGTGAGAAGCCTGAGCTAGTTTATTTTCCTATGAGAAGTTTCTTCCTGTTCCAATCTCATGG
CTGTAGGTGGTAGGGAAAAGTTGTTTCAGGTGCTGCCCTCAGCTAGTCCCTTTGAAGAGTGCAAGGTGCCCAGTGTTCCTGATCTTCTAGTTTG
AATGATGAGAAAGAGCATTCTACCTTTCCACCATCACTTAAGTGTCCTTTGAAATTGAATTTGCATGCACATATTTACTGCTCATTCTTTTTAA
GTGAGTAGGTGTGCTGAGCTTCAAGTCTATTTTGAGACTCAGCCCATGTTAACCCCTTGAGGCCCACTTCATGATAGGTACTGCCCTGTGGGAA
TCCTGTCATTTAGTGAAGCATGAAGCCATAATAGATCCACAGCCATACCACCATTGGGGCATCTCATTTCGATTAATTCCCTGAAGCCTTTGGT
GCTGTGGTTTGCAGAAATCAAATGGCGCAAATGAGAACTACAAAATTAGGCAGGTTAAATTTCGCAAGAAAAAAAAAAGATAAGTAGTAGAAAA
AATAGCCAGTGTAAAATATTAGTACACAGGAGCAGTAAGTAAACTAAGTTCCACACTGAAAGAACCACCAGATCTCGAGAAGTAGATATCAAGA
AACAGTTTGCACTGGCTGTTTTATTTCCTTATGTCAGAAGGAAGTAGGTTTTTACAGATCCTTGGACATGATCATCTTTGTTTCTGATATTCAG
AAACGGAACCAACAGTTTGGTGTCTATTTATTTTATTTGGTTTGTTTTTGAGAAAGCGAGTTAAATAAACTCAGCTTACAAATAATTAACAGCC
CCTGGACTATTTAAAACCTGCTACTGAGGTGGTAGAGATAAGTTGAATCCAACAGCTGTCACATGTATGGGTTTGACAGATAGGTAAGTCCAAG
AGTGGACAAATTAAAAGCATTTTTCATATGCTAATCTCCACCTGCACAGGAATAATTTTTTTTAAGGAGGCAGTCTACTGGCAGAGCAAATTCA
AGAGCTATCAGTAGTACATTACTTCTAGGAATTATGACATGCAATAATGAATAAATACTTCTATGAGAAAAGTCTGCTGTGGAATCTTAATTCC
AGATGGGTGTCCTGACAGCAATGTGCCAGCAATATTGTGGAAAGAAAAATGACATATATACATACATATATATATACACGCACATATGTATATG
TATATATATGGCTTTTAAACTTGAATAATAATTTCTTCCATGTGTAATAGGTTCACAATTATATCTAAGGAATTACTTTTTTAGTTGCGAATAG
AGATCAAAGTGAAAACAATAGTCAACCTTGCCCTTCAGGTGGCAGTTACATGTGAGCTGCATAGTGAGTGTGAGAGACAGTCAAGGATGTCAAT
CAGAACCTACAGATTAACCCACAGCAGTGAAATCTGAGATGGTTTATAACAAGTAGATAACAGTTTCAGGCCTATGTGAGAACGCATAAACTAA
AACTTCATGCTGGGACAAAACAGGGCAGGACATTTGAGGTAGAGAGTGAGAAAACCATACTTTTATTATGACAAAGCCTCTCCCATACTTGTTG
AAATGTCACTGGGTTGTTATTAAATGCTCACCATTTCTCTAGGTTTTATATTATCTTACAAAAAGCTTTTGGAGTTTCCTTTAATTTTGATAAA
CATTCAAATTTGTGCATAATTTCTGCACTTCAGCTTTGAATGACAGAAAATTTCCCATGCTTGTTGAGTTTCCTTTCAAGTAAGAAAGTAATTC
TTGTAATAAATAAAAATGTTATATTTCTTTCTTCCAATGTTATCAAGTTAATAAACCCTTACCTTAGTTTATAAAGTCAAAATTTACTAATGTA
TTGAAATGAGAACCGAAATACTCAAAAAGAAATCTTAAACATCAAATAATAACGAGGGTAATGAATGAATGGTCATGGTTATGGATGGTGATGA
TCTAATGTAAGGTCCTATCTCTTTTTAATAGAGAGTCCTCAGGCTCAGACAATTTAGGGTTAAAGTGCCTATAACCAGATCAGAATCCTCAGTT
ATTACGTAGTACTCTTTTAAGACCCGTGAATTAAGTTATAATCAATGATTACAACACTGGTATCATTTATTAATGTACCCTTCTCTTCTAGGGT
AGCAGAGATCAGTTTCTGACACCTTAGAACTCTTCATGTGCAAGAGGAAATTGAAACAATAACAACATATTTAGGCAGTAGGCAAAATGATTTG
CTTTGGCTTTACCTACAGGGAAACTTGGGCAATGGTCATTAGACTTTTTAATGGAACTTCAAGTCTGATGCCTTGTGACCAGGTGCTAACATG
GAAAAGAGTTAGCATCATTGACATTCTTTGATTCGGAAGCACATAAGAGGTAGATAAGGAGACAACACAGGCGACCCACCTCCAGGCCAGGAGA
AGAGGACAGTTCCTGGAATGTCTGCAATGTGTTACTATTTTTGTCACACCTATGTGAGGCCATCCATCTGGTCTGAATCAATCAGTCTCATCCC
AGGGCTCTGCTCCTCTCCCAGCTGAAATAATACCCTTCTTTCCTCAGTGCTGTCTTCAGGAGGGGCGCTGCTCAGGACTGCCCGGACAAGGCCA
ATTAATGAGCCTGTGTATTTGCAAACGATGACCCAGGATTAGACACTGGAGAAAACTTTCTTTAAATTCTCTATAAGCTCTGCTCTCCCTAGAAA
CAGTACTTGAGAAAACCGGGTGAATCATTAGACAAATAATTGACCCCAGAAAGCGAAAGACTGATGCTACATTACTTTGCATACGTACATCTTA
TTTTTTAAAGAAAATGTCCTTGCCTTGAATTTAAACCATGAATTGGTCTGCTGTTATACCCAAAGTAGATAAAGCCTGGGTGTGAGGCATTCAC
CACGACTTAGCCTGAAGTATTTTCTTCGGCCACTTCACTCTCCTCCACGCTACATGTTCAATTTCCCTGCACCTCTGTAACAACCCTACACCTC
TGCTTCTAGATCATCTTCTTGGCATTCCTCATGTGCACATCCTGTTCTCTAGCAGTCCCTTATCCATGCCGCCTCATCAGATTCCTGCACACCT
GACAGCCTCTTGCTTGCTATTTCAGCTACTAGACTACTGACCTCTATTGTACATGCCTGCAATCCCAGCACTTTGGGAGGCCAGGGTGGTAGGA
TGGCTTGAGCCCAAGAATTTAAGACCAGCCTGAGCAACATAGTGGGACCCTGTCTCTACCAAAAAAAGAATCAAGGTATGCACCAGTTAAGCCA
GCCACGTTTTAGGACCACATAGCACTCTTCCCACAAGAGACCTCAAAACTTAATGACATTGGCTTTGGCAAATTCAATACCATGACATAAAACT
ACTCATTTTCCCTATCTGCCTAGTTTTCCATTGCAGTGGGAAATACCACCCTATCGTGGACCTCCCAACCAGGAACCCCATGGTTATTTTTGTC
TCACTGCTGTCTTTCTCACTCCCCACAACCAGTCTGTTACCAACCGTTGCTACTTTTTCTTTGCCAATGTTTCCTGAATCCACCCCTTTCCTTT
CCATTCTCATAGTTGTGGTCTTAGTCTAGGCTTTGGCCTTGGCCCATGGGGACTTTGCAGCCTTCTTTCCCCTCTCCCACCACATTCACATATC
AAATTCCAGCTTACTTTATTTAATAACACTGACAAATTTTTTTTTCTCTTGTCTATGTTTTTGGTCCATTCATTCTCTCTGAGCTCCATTGAGA
CTGCCAGCTGCTCTCTGGACTGGCTTCTAATGTTCACTTCATACATGTCACCTCTTCATCCAGCTACCTCCTAATTGTTCCAATCTTTTTTCTT
TCTTTTTGGAGGTAAGCTCTTCTGGTACTTCTTTTTTTATCGTTCTCACACTTCTTCAGAAACTCTTCTCATGGTATACATGTTCCTGGTACAC
ACCACTCAAGGGCAGATTCTGACACTTTCTTTCGGTAGTCCATCCGTGCTTCCTTTCTGATGTAGCAAAGTGTCCTCTTTGTGAGCACGCCCAG
GTTCAAAACTTCCATTTCCACCACTTGCTACCTATGACATTGGGCAGTTACCTGACAGCACTTCACCTCAGCTTCCTCATCTGTAAAATGGATT
GTTGTGACGAGTAATAAGATCATTTATTTAGAGCACTGCTGGCACACAGTAAGCACTGTTAACATGTTTGCTATTAGTATTATTATCATATCTC
ATAGGACTCCCCAATCACACCCCGCTTCAATCACCATCATGCTGTATGCCATATTATCCTTGCATGTAAATTTTGAGGACCACATAACTGGGTT
TTAAAAATCTGGTTCTAACAGTAGTTTATGTCTTAGAAATCAGGGCAAAGTTAATCGAAGATACCTAATATCAAACCAGGTAATGATGAAGACT
TTAAATGCTTTTTGAGGATGATTATAAAGAACATTATGATAAGAATGATGATGATATGATGATGATGATGATGATGATGATGAAGAAAACA
TGACCAAATGCTTCTTTGGGTTAATACTCTGCTTATAAAACGAAGTGTCCAGGAAACATACAGTATTCCTCCTGAAATTAGTTTTTTTTTCCCA
TTAAATGGAAACATGTTATGCATAAGAACATATATTGTGCAGTATGCATGAGATTTATTTTTCAGAAAGCAGAGAAATGGCAAGAATTTTAAGT
GTTCTACATACTTATTTAGATCTCACATCAGGAGATAAAACAAATGAAAACTCTGACTTGTTAATAATTTACGTTTTGGTGGAAAATTCATACA
AGCTGTTAAGATACCTCTAAGACCCAACACAGAAAATGCAAATAACATATATCCACTGTGCACTGAAGAAAATTTGTCTGAAAAGAAAATAACA
TCAATTAAAAAAAAAAAACACAAGTGATTTCAAGGGAATGTTGACCACATTTACAGGGCTGTAATTGTGCTTATTAATTTTAGATGTCTCTTTT
GAAATATTCGTGTAAATGATCTCTCCACTTACCAGGTGTTTCTTACAGAAAGTCCACTGGGCTACCTCACTACCTAGGAGGTGGCTTACAAATA
GGGGATTTCTTTTTAGAAAGCCACACCATTACTTTTCTCTAACAGCTTATGCAAAAGTTTTGTGGGGGAGGGAAAAACCCAAGCCAAAAAAAA
AAAGAAAGAGAGAGAGAAGAGTGTGCATGACAATAACTACCTCTGTCCCTTAGGTTTTTGTTCTTTTCATGTCATGGAACTTTTTAGCTG
TGCTGCCTGGGTAACTGCTCTGGAAGGTTGGAATATCTGTTGTTGAAGGAGGTTTGTGATTGAGGGCCCTCTGACACAACCTTTTGTTGCATTG
AGGTGTTTGATCCTCTTTCCCTTTCTTCTAAAACCAATCCCATCCCTTTAAAAAATGGATAACCAGCACTTCTTTTACTTATTGTCAGCTTTTG
GAAAGTTACTCTGGGGGTTTGTAGAAGTTTAACTAGTTAACTCTTTGCATGCTGATGTCCTGTCGCTAAATATTCTTCTTCTTTCTAAACAGGA
AGGATTTTAATCACTTACATCAGGTAACTACCGCTGTTATGCAGGCATAGCAAGTGAAACATATTAAGGTCCAGAAATAAAGCATTTGTGTTCA
AGGTCTTCAAATGTGAGAGTGATTCAGGCTTTGCAATGAGACACATCCTTATTTTCTTTTTGTCCTAGAACCGAAACATGTGAGAGTTATGACT
CTGCCACTTGAAAAAACATGATGATATACTAATTTTTCATTGAAGAACAACAGGCTTTGGTAATAAGTAAATGCAAAGGGTTACTTCAGAACTG
GGGTACATAACTGAATGGCAACAAAGAAAGAGAGCCTTAGAATGAAAAGTGTAGGGGTCTTGTTCCAGTCTGCTGACTAAATGCTGGAATATTT

TTTTCCCAAAAGAAGGGACACAACCCAGGCTCTAGGAAAGAAAAGAAGCTTAAGTGGATTATTTAACAAAAAAGCAACTTATGGCTTCTAGATA
GTGACCTACATTCTGCACACAATAATGATGTTTTACGGTGGTGATAGGGTTAATAACCTAACATCATTCATGTAGTGTTTTTTGAAAATTGAAT
TTTACTGCTACAAAGTAAATGTAACAGCCCTCTGGAGACAATATTACAGGCACTTTATTGTTTGCTAAGCTGATGTCATCTTTCTACAGACTGA
CTTTAAAACAAAGGCAGAACATTTATTACAAATATCACTGTGTGTAAAGGAAATCTACTGAAATATTGTTTAGAAGGTGAGCTGATAAAAAAGTA
TTAATACTTGGCTTTGATCATCTTGTACTATAAAGTTATGACTTCAAATTTTTTCTCATGTGATCTCTATTCAAGGCAAACTTCATCCTGGCAA
TTCCTACCTGTGTCTCTAACATTATTTGCCCTCAAGTTGAAACATTTGTTTAAGATTCATGCGTGTTTTAAATACATTTTTACTCTCTAAGGCA
ATTTCTTAACAGAGTTGATGAGTTTTTGAGAGAGAGAGATTAAATAGCATCTTTCAGAGATAATATATGTATGATTTTAAAAACAAAGTATGGA
GATTAAGCTGTTTAGTTTATATAATGAACTTTCAAAATCACCTGTAAGTGGTGACTGCAAAGTTTGCAATTTAAATAAGCTGTTTCAGGCACTG
CCAAGCAAGCATTCTGCATCACAGGTTGCTTGCAACTCAGAGGGTTTGGTCTCTGTATCTGATGCACGTGTAATACAGCGTGAAGTTGTTTGTG
GATCACACAGGAGCTTCTTAGAGCTTCATTTCCACACTATAACCCTTGAAAATGTATCAAATGAGCAGATGCACTTGGCTCTTCCTTAAAAGGC
ACAAGTAATTTGTTTGTAAATCAGTTACCTTTCAAGAAAAGTTAAATTAGGGGGAACTCTTGTTTCTTTGGATGTTTTCCCTCTTAGAAAGCCAA
AGAGCAAATTAATGATCATTTTGAAGTAATAATGATAATGAGGAAAATATAATTTAGTGAGCTACACTATCCCAAAATAACTTTTTCAGGTACA
GCATATAAATAACAGCCCAAAGGACTAAAGCAGCCTGATGGTGTTTTTCTAAGAAAATGATTTACTGCTCTGCCTTTGTCTCTGAACTCTGGTT
AGAAGGAAAACACAGGTCAAGGAAATTGGGTTAAGGGAAAAAAAGCCTGTTATGGGCTAGGTGTAGAATTATATGAATAGTGACTAATTGGGAG
TCTGTAGCACTCAGATCAGTGTGTGCAATGCTCAGTACTGGCTGATGGTATTTATATCAGTCAAAAATGAAGCTGGATACATCTTTGCGTGCTC
TATGAAGGCAGTGTGTTAGTTGGTGAATTGGCCGTGACCAGGAGAAAGCTACCAGTAGTACTATGATTGTGACTAAACCAAGAACTGAACTGCA
ATGTTTTAAAAATTTATTTTACTAATAAGTGTACTTCTGTATAGAAAAATCATTTTTAAAAAACCTTACAACTATTTTGAAACATTTTACTATA
AGCCTGCCTTTGATTTGTTTGGGAAGCTATTTTATAGTCACTCAATTCATTTATTGTATTTGACAAATACTAGCTACTTACCATGTGCCAGCAC
CAAAGGTTCAAAAGTGAGCCCTCACAGAGCCTTACAGATTAGTGTCAGAAAGAACTGCTTGGCAAGGGTAAGAGTGTGACACATTGTGAGTATT
CAAGAAATGTTTGTTGAGTGACTGATAGAATGAATTGAGGGATGATCAAGGTAAGTCCTCGATTTGGTATATGTACAAGGAGGAACTAAGAGTT
TCCCTCCCTGAACAGGTCAGAAAGGACATGCTTGAGCTGGCCTTAAAAAATCACCTGAGTGGCATGTAGCATGTGAATAATGAACAGGAATGGG
CCACTGGTGGTAGAAACAGCATCCCAGAATATGCTCTGAGTTTTAGCAGCACAGCCCATTTCTGACCCCTGCATGCCTCAAAGCCACTTTAAGA
ATTTGGTCTTTGCCCTTCTGTCCTCACCCCCGTTGTACTGTAATACACGCAAACATGTGTGTGCATGTACACACACATGCACACACACACATGTGC
TAACTCCATCGTTGGAATTCGACTGTCCACCCCTTCAAGAATCAAAGCATCTCCTAAAAAAAGGAAATGGCATGCCTGTTCCTTACTTGTATCC
ATAAAACTCACATTTGAGTTGTCTATCATGAGACCTCAGTTTTTTGACCAAACATTGTCCTTAAGCATCAGACACATAAGAAAAACTGGAAAGA
GGAACAGGTAATATTTAAATCACCCACTATTCTTGTAATGAAAGGATTTTTCAAACATCAAGATGAAATGGTTTTATCAAATTATTAAAGTTTG
CTTTTTGTGTCCGACTTAGCAACAAGTCATGGATGGGACACTCAAAACAGGCCAATTTGGGACAGTTCCAACTGTAGGAGGCCTTGTGTCATTA
CCTCTATAAATGGAATCGAGCTTCCCTTCTTCTGCAGCTATACATTTTCTTGCCTTTGATTTCCCACTCTGCTTTCTCTCCCGGCAGGCTCTTC
CTGTCTCCTCTATCAGTTACTCTATAGGCAGATGTGCCTCTTTTTCCATTTGCCAGATCCCCCCAACCCAGATCTTCCAAACTACTCCCCTTTG
AAGTCTCTATTACCGATACAATCACTTTTGTTTCCCTTCCATCCCCTCTCTCACTGCTCCAGTTTCTTCTCTCCCTAACCCCATTAGTTACATC
TGCTGCCCCTACCATTCAGCCTGTGTTAAATCGTAATGCGCTTGACATAACTTCAGTTTGTCTGCTAAGTACTCAATCAGCACGCATTGCTATC
TTCTGATTTGTAGGAAAGGGGGCAAGACTGAGTAAGCTGGCTCAGAATTCTCTGAGTGATTCAGCTCTGCCCAATTAGCACAACCAAAGTGGGA
AATTGACAACTAATAATAATGAAAGAAATGGGTTTTAGTTGTGAATATAAATCCCACAAACTTGGTTCCTGATGCCTGTGGTAGATACTGTATG
CTTCATATGGTGGTCAGATGGCTCAGAGAATGCAGAAGTGGATGAATGAAGGAGAGTGTGTCAATAATTGCAATATTTATTAGTTGACTGGGAT
TCTTTCCCTGGAATTCATTAATGGATTTTTTAAAGACTCTGCAAACCACCAGAAATTGTATGTAACATTTAGTATATTGATGCATTTTTTTCCT
GGGCAGTGGGTCCATACGTTTAAGCAGATTCTTAAAAGGCTCTATGTCTCCCCACTATCCGCCTCCAAAAAGGTGAAGAATCATTGCTATAAGT
GAAGACACCTATTTGGTCTATGTTTTCATGTGGTCTGCTTTTTTTCCCAGCCCATTTTAACATTCCACATGATTTGAGCAGTTCAGAGAGTAGA
AACGTAGGGTTTTAAAGGCAAAATTTACCTTCTTTAAGAGGAAAAATGTTTAAACCACCTACCAGGTTATACAATTCACATTTTAAAAATTATT
TTAGTTTTACCACAATTCAAAGACAGGCCTTTTTTTTTTTATTTAACAATGGGTATAATCACACATCTGAACATAAGAATTAGTTTTATGCAGT
TCCATAGAAAACCAAAATCTTGAGGAACACTTTCAAAACAACCAGAGAAAAATAAACCATTCCTTATGTCAGTCTTGTTAGGGAGGGATTAAGA
AACTGGCAATTATTTTGGCGACCTTAATTGTTGCGCGGCAGGAAAATATGTAATTAGAGCACGTTCCCAGGCCTGCACACCTGCAGCACATCCT
ACAGCATAATGTCAGCTTTCAGTGCCTGTCGGTGCCAGGTTCTAGCACAACCAGTCACAGTGACGCTCTGAGAACATTTCGGACTCATGTAATG
TGGCTTCTGTGTATGAAAGAAGCAGGCATTTACACTACCACACAATGGAGTGCATTGCTGCAACACTGGTTTCATTATTTTCTGACGCCTACCT
TCAGCACTGCCCTGGTTTACTCCGTTTGAGGTTTTATTGTTACGGTATAATAGTCCTGTACATTTTTGAAATTCCCTTATTATTCAGCTTATTA
ATACAGTACTGACTTGATTATCAGGCTGCAGTTGCACAGCGGAAGATTCAGTGCATTAGCTAAGTCAGAAGCTGAGTAAATTCTTGGTATAATG
AGAACAATTGTTTGACATTTTTTTATGTAGAAAGATGGGCCATGGTAGTTCTCTATATAGTTGCATTTTGGAATTCACTCTATATTCCCTATAT
GTTGTTGAGTATTCGTTTTTCATATAAAGAAAGCTTAAAATGTGTTCTCACTAATTTGAAAAGTGTTTCAGGGTATGGGAGGACTCCATCATGA
TTCTCATTAGCTTTTTTCTTCTTTTTCTTTTATTGGCTTTTCTCAACAAAAAGAAACTCTGACGTTAGAAAAAGTAGTGAAAATGAAGAAACAG
TATGCACGATGCCTATTTTTCAGATAATTCCATAATCTGGCATAGTGATAGTTAACAGACTTTTCCCCCCTAAGGGAGATACACTGTATTTTGC
TATCTGACATGTTGTCATATATATAAAGAAATCAATTGGTAATTAAATGATGCACCTTGTGAAGATGACAAAAGGCATTTGGTTGCGAAAAGAGAA
CTGGGTTTTGAGGGGTTTGTAGTGAAGGCCTAATGACTATTCATAAGAGATTTTCAGTCCGTTGATCCACTTGACTGGAAAGTTCTGCCCTGGA
GAGTTAGTGCTGTCAGTTTCTCTCACCTCAGAAAGCCGCCGCAATCGACGGTGTAGAGGATGAGCGAGAAATTATCTAGTAGTTGCTCTAGGCC
TGTCTTAGGTCACGTGCAGAAGGCACATCTGGCTTCCTGTAGGTACAACCTCAGGACATAAACTTTGACTAATTTTTAAACTATAAATATGTAC
GAGTGACACTGAATAAGTTACCTTTTATTCATATTTCCTTTATTTTAGAATGCATGCAAGTTGTGTAGTAAGCTGCCATTTTGGCCTTATTTTT
CTTCCAATTTTAACTGTTACACACTTGCTTGTTAAGCTAAGAGTGACTGTTTATGAAAGTTGTCAAGGACCAAATGATAACAGTCTCCTTATGT
GAAATCCAACAACTCTGTGTTTGCTGAGAATATGCCAAAGTTGCCCTGCAGGAAGCTCACCTGAAACAAATACAGAGTATATGATTGGATAGCG
CTCTTGGGGGGTGTTTATTGCCCTATTTGGCAAAAGGCAGTAAGATATCAAAATGTACATACATAGGACTGGATACAAGGCTGCCACCACATCA
AGATCTCTAGAATTGCAGAACATTGTTGCTCCAGTGTCTTCATAAACACAATCACAAAAACTACGATGAAAATTCATGCATTCAAAACAGACCA
GTTACTGTCCACCATGGACCAGGCACCATCCTAGCTTTGGAGGAGACAAACATGAGGGAAGTAAAATCTCAGTGCTCATAGTTTACTGAGGAAC
AGACAAATAAGAAAACAGTTACACTACAACATGTAAAGAGTTATGATTGAGTTGTATAATAGCACAGAGTTTAGAATCCAGGAAAGGGTTTTCT
GAGAACTGTTGGGGTCTACAAACGGGGTAAAGATTTCTTATACGAGCTACTCTTTCCATTGCCAAAGCCAAATTAGCTGGCGGAAAGGTGAGTT
GGACAAGTGAGGTGTTTCTGTTGCATGTGGAATCTCAACAGAACAGTAGTGGCCAGCAATTTCTGTACATATTTACTCTTGGAAAGTGCTTCTC
CATGTTATCTTATCAAGAAGCTCACCTAATCAAAGGTAAACACATTTATCGCCTCATTAAGGCTTGTTTTATGGCCACTTCGATGTCATGTTTG
AGGTAGAAGTACCTGTCACAGTCTTTGTCTGGAATGTATGTAAAAGGGATTTCATGGACACTGCAGAGGTTTTAATCTTTCAATATCAAAATAA
TTTAATGCATAATATGTATTTGAGAAGATGTCACTGGTGATTCCTACTTGTGTACTGTGTGTACTGAGTTTTGCTGACACATTTGCTAGAGCTG
TCAAGGTGGACCAAATGAATGGACAGATGCCAAAAAAACAATTATGCTTATTAATGTACATTGATTGCTTGTTTAGGTTATAAAACAAATTAAA
AAAAACCATTAGTATTTAAACCCTTTTATAGCTGAGCTAATGATTGCTTGTAATATAGTGTCTGGTAAAGAATATTCTATAATACCTGTAAAGC
CCAGCTATGTTATCTAATTAGTAGACTTTGATTTAAGTGGCTGTAATTATGGAATTGAATAGTTGCCTTTCTAAATAACCAAATGGTAGATTTA
AATATATAAAGATGTTGACTTGATTATTTAATATTTGTAGCAAAGACAAACCACCTAAATAGAGAGATTAATTCCACATCAGTGCAACATTAAA
AGGGAGAGAGGATGCCAAGAATCCCATTAATTTGGGATATAAGTGTCTGAAATTTCCTCAAAACATTTACGCCAAGGAATACCAAACAAGACAAT
ATCAAGCAGCTCTCCCTAAGGATAGAGAGGTAAGGCAAACATGATTTTAAACTGCACAATATCACACAGTAAAATTAAGGACAATGTGTTCCAC
CAGATGCTAAACACAGCCATTTATCGAGCTACAAGGTTCTAGACTAAGTAAGTGTTTTGTATACATATTAGCTCCATATTACCTCCATGACCTC
TTTCCCCATGAAGCCTTCCCTGAGCCTCAGTATCCACTCTTTCCTGTACCATGAATCCATTTTTCTTTTACTTTTTCTTTTCTTTCTTTTT

CTCTCTCTCTCGCTTGCTCTTTCTTTCTTTCTCTCTCTGTCTTTCTTTTTTTGTTTTTTGTTTTTTGTTTTTTGTTTTTTGAGACAGGGTCTCA
CTCTGGCACCCAGGCTGGAGTGCAGTGGCACAATCATGGTTCACTGCAGCCTTGACCTCACAGGCTCAAACCATCCTCCTGCATTAGCCTCCCA
AGTAGCTTGGACCACAGGCATGCACCACCATGCCCAGATAATTTTTTTTTTTATTTTTTGTAGAGACGGGGTCTCACTATGTCACCCAAACTGG
TCTTGAATTCCTGGGCTCAAGTGATTCTCCCACCTCAGCCTCCCAAAGTGCTGGGATTACAAGTGTGAGCCACTGCACCCAGCCCATGTTTTCA
ATAAAGATGGTGCTATTTGAAACTATGGCATGTCACGTGTATATTATTTTATTTCACCATGTGTTTAAATGAGATAACCAGGTGCCAAGAAAGC
TTCAATATTTGCTTAAATAGCCAATGTGACGGAGAATAGGTAACCTCTTTTCTTTTTTTTTTCTTATGATTTGCTTTGGCTATTAGTTTTGAAAC
ATACATGTTATATTCCCAATTAGATCTCGTTACATCCTTCACAGGCTGTCCAAAAATTTCCATACTTCTAACAAGAACTTCGGTTGACTGAGTT
TATATTATATAGTTTTTCTGTCCTTTGCCCTATTTCTTTCAAGGCCTTTGAGTCAGAAGCATTCAGCACCACGGCGTACGATAGCCACCATTTG
CTTTGCCCTTTTAACTTTGGGGGTTACTTCTGACCATAGTCCAACTGCTCAGAAGGGCTTTTTCACAAATTGTTTACCGTGGCAGTTGCTACCC
TATTGGGGTTTGCATTCAGAACCCATAAGCAGAGAGCAATGGTGTCAGTATAACAAATAATGTGTACAATTTTTTAAAATGCTGAATTTACCAA
ATCCCCATATTATGTTTTCACACTGCTCTTTCAGAAACTGTGCTAATACAATACTCCTATAAACTGATCTTGGTCCTGGCAGGCCCTGTTGGAA
CTAATGGGGCCTGACAGTTCTTCAGTTAAAAATTATACATGAGGGCCACTTTCCCTTAAATTATCTATTGTATGCCAGCTGTTCACAACTGCAC
TGCTTCACTTTCTTTGCAGTGCTAGAAATGTCTAATTTTCTCATAATATCCATAGCAACTATTCTCATGGAGGGCATTGAAGTTAGTAAGACTT
CAAACACACCTTCACAGAAATCATGCTAGAGTTGCAGTTTCCATTTTCTTTAATTTTTTGGTTCTGAAAAATGTTTAGATGGCTCATTTTGCCG
GTTTCATGCCATAGCACTTGAGTTATATCATAATTTCTCATTTGCTGCACAACTTTATTCTATTTTTATGCTCCTAAATGACGCAGCTCTAAGT
ACCCGTGAGTGGCACTTCCGTGCTGTGAGTGCTATCAAAGGCAACCTCAGATGGATAAAACTCCTGGTTTTTTGTTTTCTTTTGTTTTTTGTTT
TGTTTTTGTTTTGTTTTTGCTGGGGAGGGGAGAAGCGGAGTCATCACCAAGGGCCTTCTTTTGTTTTTCAGGCATGTTAAAACTGTATAACCAA
CAGAACCATTTAAAAGGAAGAAAAACATCACCCAAGTTCCGTGTCTGAATGAAGGCTGTCTTCTCAAATGCTCCTCATTACTCCAGAGCAGTTA
TATTTGGATTATAATTAAAACGAGGCTTCTTTTTTTTCTTTTATTCTTCTTTTTTCCCAGAATGCCTCAAGTGAAGTATTCCTCCCAAAGTTAT
TGCACCTCTTTACTAACAAGTGCTGGGATTTTAATAAGCCTGTCCCCCCTCCTTACCCTGTACAGAGGAAAGGATGGCAAAGAGTGGCTGTGGT
ACAAAGGTTACATATTCAGTGATATTTTCTGCTTTTATTGGTAAAAATGGGGAGGTGGGTGGAGGATTTCCTTTAATTATGAAATAAGTGTGAT
GTTAGTAGTTATTTCTGTAACCTGGTGAAAATGCTGCATATTTCAGGCCTAATTTTTAGCATATGTTACCACGTGTGTAATAAAACGGTGATCT
GCGCTCTCCGAATCTTTTGGCTGTTAAGGAGCACTCTGATTATAACTAGTTGCTGTAGAAACCTGGTCATCCAGATGCTTATCAAGAATGCATT
ATTATTTTTTAAACCTTGGTGGAGAAGCCACAGACTGCAGCAGTTGGACAAGGTCACATATCGATGGAAGTGACATGTCTTTCCTCTTTCCATT
GTGTGATCGTCCAGGGCCTGGGGGCATTAATATGCAACGGTTCTGTTTTTCTTTCAGAAGGACTTGTAAACTCTTTAAACAGAGGCACACAGTT
GCAATTGTTGCGGTACTGAGTGGGTGTATAGAAGCTAGGGCTGCAGCCTTGTCCAGTTGCAGATAGAATAAAACTGACAATGATGCAATGGGCC
TGGCATGTAGACAACTCTGTGGGATGGATGAATGGTGCGGCTCTCGCTGTCCCTCCGGTGGTGGTAGGCCCTGTAATAGCTAGCGTAGGAAGGG
TGGTGAAAATTGATATGCACTATTACTACACGTATAAAACTTAACACTGGGGCCATTGCACAGGTGGGGGGTTCCTGTTTATTGATTTTTATGA
GTTTGTTAGAACATGCGCTTAATGCTTTTATACTCCGGGAGCTCTGGGAGGGCTCACCTTAGGTAATAAACCTTTCCGTACTTTGCAATCGCTC
ACAATTTACATGGGGACTCACATTATCCAGTACAAAGCCCAGCATTCCCCTTCTACTTGGTTTTAGGAGTGTGATAAAAAAAAAAAAAGAAAAA
GAAAAGAAAATAACTATAGCACTTACTTTGAATTTTTTGAAAACCTGTCCACTCCCGCTATGAAAATGGCCCCTAATTCTAATTACTCATATTT
CCAAGAAAAATTAGTCACACAAACTTATGTTATGTGTTGTCTCAGAGGTTGAAAGCAAATCAGGTTTCCAATAAGACAGTACATCAAACAAAGT
AGCATGTTCTTGATGCCGATGACTTTTTTTTTAGAATTATGGTTGGACATTTTTGGCAGACAGATTGTCTTTTGCTCTATCAAAATGACAGTTTC
TTTTGTAACTGCAACATTCATAATTAGAAGGAGAGAAGCAATCTGCCCAATTTAATATACTAAAAGAAGTTTAGAGTCTCTGCTAGTAATTTCA
TTATTTTTAAATTTGAATTAATTGACTTAAAATAATACAGTTAAGAAGTATAACCAGCAGGATTATGGAGAAAGGTTTCTTTTTCCTTAAAAAA
AAACAGTGCTCTCAGTGTTACACTTAAGATGAGATTGAAATTTCTTTTTTACGCCAGGTGCCCCGTTCTAAGATTCAGAGCAGCAATGTGAAT
ATTCATCCTTGCAGTGGAGCTGAGAGAAGTTGTAGGGCAAATCCTGGGAACAAGGTCACTTTAAACAAAAAAGTTCTCCAAGTTTCCCATGCTT
ATAAGGCTGGCTGGGCTTAATTAAAGTCAATGGATGACCAAAAAATAAATAAATAAATAGAGAGAGAGAGAAAGAAAAGAAAATGAAAGAACAA
CCACCCACCCCATATCAGTCTCTTTCTAGGCCTCACTTCACATTGTATACCTTAGCCGTTGATGTTCAAGCTCTTTACATAGATCAAGAATAAT
ATTTCTTAAATCCCTTAACAACACTGACGTGTCCATGGTTTAATCACTCTTCCCCAGTCCACATCTCTAACCTACGTCACTTGGGTGGCCCTCA
CCCACAGCACCACAACAAAAACAAAGCCAGAATTGCATTCAGAATGAAATCATCATAACATAGCAACCTTGTTCAGGATGTGACCTTTGGGTTT
CAGCAACCCTGTCTTATGCAGCCCTGGCCAACCTTAACCTTTCCTGTTGGCTCGGAGGGTAACCTTTCTTCATATTTTCTTCAGGATCTCTCCT
TACGGGACCCAGTATGTTGCATGCCTATGATGCACAGGGCCAAAAGTTTCGGAGTGTTAAAATCTACGAGCCTGTTTTCCTCTATGAGAGAATG
AAGCCTGCACTCATTTTAAAGAATACATACGTAGCAAGATCTCTTTTTACCCTTCCTGTATAATTTTGGTTATGCTTAACTCTAAAGGAAACCA
ATTCTCTTTAGCTCTGTTACCTTATTTCGTACCTTAGCTGATTGTCATCTTTACATGAGCATCAGATATGGATGTGACAAAGATTTTTTAGAAA
TAATAACGACCAGTGCTTTATGAGTTGTGAAGTGTTTTTCTCTCCCACAAGAAATTACAACACAAAGTGCCCTATGCATTTTTTTAGTATGTTG
ATAAGACAGCAGGAAATTTTTTAACCCTCAAAACTTTCTGATTATAAGCTGTGCTCTAAATTTACACGGGCAGTGTTCCAAGTCCCACACTCCT
TTACAAGTATATCATTACAGACCTGCAAGTGAGAAGGTAAATTTCCCCATGGCAGTTCTGAAATCTGACTTCAGGCTAAGAGGCCATGGACTGA
GAGGGCTGATTGTGCTGGGTACCTACATATCAAAATCTCCTCTAGTTGTATATTTAGTAGTTCCTTCTGTCCTTTTTGCAGCCCCGTGTCCTACAGAA
GTGACATTTTGTTCCATTTTCATTTATCTTACTCTCCTTAGTTGTATATCAAAGATATACACATTTATATAACCCAAGAAGCCAGGGATTAAA
GCACAATATTTCTTAACACAGCTTCCTCTAAGATCTCCAGTAGCTACCTAATGCTTAAAGCTTGGGCTGACGTGGGTTATGGGGTTATAGTAGC
TTTATAGATATTTCTATTTGTGTATGCTATGTTTATATATGTAATACATATATGTGTGGCTTAGGGCTATACTGACATGTTATTTTCTATGTGT
TCATTTATTATAAACAGCAGGCAAGCAGACGTTTCACCTCACACCTCACTCTGGTCTCTATCATTCAAAAAATATTGCAAGATTCCCATTCTAA
ATTAAATACATCCGAGCTTACGTCTTTTATCAATTCTTTATTCTTGGTATCTCAAAATTCTGGTCTTCGTCCTTTGTCTCAAAAAGGGAAACTG
CTGAAAGCATTTCCACCTGGATGTTTAAATTATTTAAGTTGCAGGAACCAGACCTTTTCCCTCCTGAGTAGTTGTGGGTTTTAAAGGCTAAAAT
TGCTTCATCATGCCAAAGTGAAAGTATGCATAAATTATTTAGTTAAACCTGAGAAAATACAGACTTTTCCCAGTGATCTTTCAAGGGCTGCCTA
CTTAAATTTCAGAAGAATGGGCAAGATTTTTTTTTCATTCTCTTAGAAAATTGAAGTATCTCTTGTGTCTTCTGTCAGTTGGAATGTGAACAAA
ATTACAAAATGGTAATTTTTTTAAAATTCCAAGCTTCATAATATCCAGTATATCTATATCATTCCAAGGTGAATACTGTGATAATCAATCAATA
CCAGGAAGACTCCTCCAGCTGGCGAGAACTGCAAACCCTCTCTCAATGTATTCTTAGGAAAATCAGGCAACTTGTTATAGGTCTTTCCCTAGTG
CCAACCTAAAGACTGGGGGGCATTTCCGATTCAATTTCTAGTCATCCAGAGTTGGTATTTCAGTTTAAAAGTAGAAAGTTAGGTAATTTTAAG
ATGTTATGAAAACTTTGTTGACATTTTTAATTTGCTTTTTAAATTTACCTTTACTTCAGTAAATAAAAATACCAGAAAAGTGTGAAGTTGTGTG
GTGGTGGTGGTGGTTGGGGTGTGTGTGTGTTTGTGTGTGTATGTGTGTGTATAAGATAGATAATATTAAAGTAGCAATGAAAACAGCCCAGAAA
TATAGGCAATTGAGGCCCAATTTCAAGTTTCTGTAGCATAAGGCATGTATATTACAGAATGTACCACATTATGTATCTGATCTCTAAATTCGCC
TTAGTATAAATGCTCCAAGTACATTCTTATGACCAAGAAAAGAATGGTATTTTTAATTGAATACCTAACCTCAAATCCTGAAAGAAACATTAAT
TGGGACAGGACAAAATGTCAACAAAAAAGTACTTATGTGAGTTATTTAGTATACAGCTGTCTGTTCATTTGTAGAATCCATTTGAATTTTATGT
TCAGAGAAATTGGGAGATGAGAGTAAATATGGGGGGAGATTGGCATGTAAATTTGTTGAGTTTTCATGAAAAAATAAAAATTTAAAAAACCTTC
CAAGCAAAATAAAACCTGTTCCATTCACAAATGATGGATGTCACTGATCCCATTAATACCTGTTACATACCAGGTCCTCTTCCTTATATCTAAC
TTGCTTTTTCTCCCAATTTCAGTGTAGTTGCTCTTGACCTTGCCTTTGTTCTTCTCTCCTCCTTCTCTCTTCTGCCCAGGCACAGTTATGTCCA
CTAAACCAGATGAACAAGATTTCATACTGACACCACCATACTCTGTTAAATAGTTAAAAATCCTATTTTGGCTTTTGTTTGCTCACTTAGATTT
GTACACCCAAGGTGATGAAGAGAGCACAGATAGAATCTAGAGACAAATAGTTTCTGGAGTCAGGAATCAGATCCAGATTCTAACACGAGGTGAT
GTGGGAAAAAGTCAGTTAAAATTTCTGAGATTCAATTTACTCATCTATAAAATCATCCTCATAATAATTGCTCCCCCCTTCAAAGGTTTGTTAT
GAGGAGCAAGTGGAAAAATGTCTATTAACGGGCTCTGCTGTCAGTAGATTAATGCATAAATCCAGGTATTATTATATAATCAAACTGTCCTTTT
AAATGTAGAAGAAAAGGGTTTTTAAGGCACACATGAGATTCTGGAAACGTAGACGTTATAGAAAGTCTATAGGGACTAAAAATGCATTGTCTTC

TATATGCATTTATCTTGCCAGAGGTACATGCAGACCTTTGGGGGGTGCTGCTCTGGCCAGGACAGTGGTGGAGAGCTCTGACTCTTGAGTGTGA
GAGCTGGAACGATTGAGAAAAGACAGGAGGGAAACTTCGAGGTCAGGTGACTTCTTTCTAACTACAGCAGGTTCTCAGATCCCTAGGCTGGCCC
AAGATGAGAGAACAGTCACCAAAGAGAGTCTGGCACAGTAAGCCTAAGTCTCAGTGTCATCTGATTGTGAAATCTGCTTGTTTGCATACTCATA
CAGTACCAGAGCTTAAGCCCTGGCCACTGTACGGATGACTGTACAAGAGCAGAATCTAAGACCAAGGGGTTGTTTTTACTAAGGAAGAAAAATT
TATTAGAGTTACTTCAAGGAAATCTATTAGATTATCTCACCAAATACATTAATAGCATCAATTATTGTATTTTACATAATTTTTTTTACACCAG
ATACACAGTATATTAAAGAATTTGTGGAAGTCCCCCATGTGAACCAGTATTAACCATGATAAGAGTAATCAGGACTGGCCCAAGAAAGGTAGAA
ATGAGAATTTATAAACTTGTCTAATTCTCATTGCTTGAAGAAAATTGAAATGAAAGAATCCAAAAAGGGATTTATGAATATTTTTTAAAGCTTA
AAAAGCCCACATACTTATCATCGAATTGTCTGCTTACGATAGGAGCTGGAAGAGTCCCTTATATCCACTCAACTGTACTTACATTTTAAATGGT
TGTTTTCCTTTCTCTTACACTACTACAAGAGAAAGGAAATGCCTAGGCAAATAAACTCAGTTAAAATAACTTTATGGTTGTGACACAGTTTGAC
AAAAGCAAAGGAAATTCAGAGTCACTGCTCACACTGTATCCTCAGCTGATTCCAACTGTGGAAAATAAAATGCTTTAAAAAAAAAAAACAATGG
AACAAACTTGGGATGGATTTAGTCTTAGTCTTAGAGGCAGCCTTCTTAAATGCTGAATCTCTGAGTTCGCCATCTTTAAGTTCTTATAAGAGTT
GCAATATCTGTATTCATCATAAATCTAGTCAGAGTTAAAGAAGAGTATTTGGTTAAGTACTGCTTGGAAAATATGTTGTCCTTTTTTAAGATTA
TGTGATTCTAACTCAAAGCTGTAACTTCTTGGGGGTTAATAACCTACCTTGAGATATACTTTAAGTAATAATAATGGCTTCTTGGGATTAGGAA
AGATATTAAACTTACCCATTTCCAACGATCCTGTACTATTGCAGGAGAGATGTGGGGAGGGAGAGAAAGAGAAAGAGAGAGACGAGAGAAAC
ATTTTGACCAAAATTCCATATTCACTATTGCTATGCAAATTATAAACCTAACAGAGAGGTGATGTATCATTTTTATTAAACTTATGCTGCACAA
ATAGTGTTTACATAGAAGAGTATAAAGTTAATTCCCTCCCGGGAAGCATTTCTAAAAAATATAAATTGTATTTTGAGAGTTAATCAATTTGTTT
TTTCTCTTTTGGCATTTTAATTGAAGCTTCCAAACCGTATGCTTCCTCAAAGTATCAGAAGGCAAATATCAGTCGTGTGGTTATAAAATCAACT
CTTAATTTTCTTTCAATGAAGTAGCAGATAGTCAGCCTGTAAATTTTACCTACATTACTATGGAGCTGCAGTGCTATAAATTCAAAACAGTGTG
CAGGTTGGTGGAAATTGAGGTCCAGGCAGCAAGGCATGTCCATAAACTTTTCTCAGGTTATTGGAACAGAACGAATCAAAAGCGGTTCCTGGTT
GTATGATATTCTCTTTTGATAGAGCAGGCTGCTTGTTGTTAGCAATCCAAGTGCAGAGGTTAGTCAGAGCAGAATGTAATTTCTAGCAATCTGA
CAGACCTGCGGATTGAAGCGGCAGGTTTTCCCTTCCGATTTCAGGGAATTGCTTCTTACTGTGACAAATGATTAGCTGTTATCTCTGACTGAAT
TTGATTTCTACAAGCAGCTGAGTCAGGTAACTTTGCAGCGTTTGAGGGGGTTTTTTACAGGAAATGAAATCGGCTCCCTAGTCATATGTGGACC
AAATGAAATCTTCTCTGTCAGGGCAAAATTGTGCTTTTGGTTAATTGAAGGCAGATTTAGCATAGAGGGTGTGTGTGGTGATGTGTGTGCAGGG
TGTGTGTGTGTGATGCTCTGATGGTGTAGGCAGGCACACCCATGTGTGTACATTTACAGGAACGAGGGATCATTTCATGGATTCTCTCCCAACT
TTGAAAATCCTGGGTTCAAACAAAATCCCTACATTCTGAGCAGGGTTGAAGCTTTTAGAATAAACTATAAGTGGAGACAGTCATGTGGGTGTCA
GAATAATGAGCCTTCATATAAGGACATCCTGTTTCAAAAGAGTTTGAACTGCAATATTAATCAAAACACAATAGATACTCACTGAGCATGGTTT
TCACAAAAGTATTCATCAAAGGGCAGCTGCATTCAAAGCAAGAGATTTAGGTAAAATAAGTTAATCCTTGATCTCATCCAGGTTTGTGTGTAAA
TTTTGAATAGGGAGGGGTTCTAGTGATAGCAAGCGTCCTCTGGATGATAAAACAAAAAACGTGGCATGGGAAATTCCAGGTTTATCTTGTGCTT
CTTGTTCGCTTTTGATGGAATCTTAATAGTGACTACACAATTAGGATCAGGTTTATCCTTCTGTTTATAGTTTGTAATTGCTCTGGAAATCCTG
AGTTTCAGTAGTTCAACTTTTAGTTTTTAAGCAGTCGGTGAGTTTTTTAAAAAGTTACTATCGGATAATGTTTCATAGTTTCTAATCCTATTAC
AGCAATGTAAAATAAACTGTATTTCCCAAATACGAAGCAACATCTTTTATTCCCAGACCTCTTACTTTGCAAAGAGGAAACACCATCTTTAAGG
TCATACTAGTAATACTCCTTATTTTGTGATGAACATAATATACTTTGTTTATAAATCCTAGTTTAAAACAACAGAGATTTGTGGTAATTGACGA
AGAGTAAAAAAGTCACAAATACTGAATCTTCATTTTTCAGATGTGAGCACAACATTCCTAGGTATGTACTAATATATTCTAACACGGCATTGCG
CTGTCATCAAGACTTTTGTCTAAATGTCACCACTATTATGAGCAATACTTTTGCTAAATTCTTTAGTTGTATTCCCTAAATGGCAGATACCTTT
GGACCTCTCTCTCATTAGCTATTAAAAAGAATAGTTCTTTGAAAATAACAGTTCTGTGCTCCCTAAACTTCTTTTGTTTTTTGTTGAGTGATGT
CAACTTAGAGTTCCACACTGATTGCCCTTCCTCCTTGCTTTGTCGCCACAAAAGGGGTGAGGGGGTGCCGGAGTTTGACCCACACCTCTGGTTA
GTATTAATCACACAGACATCAGGTAATCACCTAAGTGCACTCAGACATACTAATAGAATGATTTACAGACCAGGCCCTTTGTGTTTTTCTAAAT
CTCATTTTAATTTATTTAAAGTGACAGTGAAGCTAGACTCCAAGCTAATGAGTCTGCATAAAAATGATTTCTTTTTCCACCTTTGTGTTTGCTA
AAACTTTCTGACTCTGAAATCCTGTCAGTGAAAAATTATTTGAGATGAAACACTGCAAAAGAAGGTAAGGGGAAAGGAGACAAAGAATATGATT
TGATCATCAGAGACCTGCCCTGGGTCCAAGTGGGCCTCATGGTAGCCACAAGTGTCCAGATCAGACAAATGGGGACTTTTGCATATATGTTTTA
GTGCTTCATCCAGACTTGAGTGCTTCACAGAGTCTGTGAGGCAACTCACATCCTTTGGTAGCTAACAAATTGGTCCTTTCTGACCAGCAAGCAG
TTTAAGAAAGCTAAGCTGTGTTGTATGCGTATTAAATATAGCACGAACTGCTTGGCTTTGCTTAACCTTAGTTGTATTAACAGATTGTTTGTTT
TGATGACTGCGCCGTTAGCATGCCAGATGATAAGGAAATGGTTTTGGATTAGTTAGGACCTATAATATAGAAACTAAATAAGATGATAGACTTA
CAAGGATATACATTTCCTGTAAAAAAAAATGAATTCCCTTATCAGGATTTACTTGAAAGGAATATGTCTTATTACAGAAGGAGAATGCCTTGAG
GAATGTGGGAAAGATTAAAGGCTTTTGTCAGTAGTTTAGGTTGGGACCAGGTTTCCTGTGTAGCCAGCCCCCCTGTCCCCACGTAAATGTTTTG
CTTTTCCTCCTCTCTCTCTTTCTCTTTAAGGGGAAGAGTAAGCCCTTCTCGCTGCCTGGCGGTGTCAGATTAAATACCGAGATGGCGACAGGAA
AAAGGCTGGAAGGAAAAACAAAAGACAGGGGGGTGAGAGTTATCAGGTTGGCGACGGAACTGCAGGCTTGTCGGACTCCAATTTACAGAAATCC
AAACAGATTTTAGTTGACACGATCTGCAATCATTACCGCCGGAGCAGAGCTAATTAAGAAATTAGCTTTCCTGATTGCCTGTTCTCACAGTGAT
GAGTAGTTGAATAATGTTGTATGGCTGAAATGTTCTAAAACCAGACAGTTTAACAAGTGTTTAGCCTTTTGTGGTGATGCTGTATTTACTTTAT
CTATAATATCTGTGCTGCATCACTATTTGTTTCCTCTCCTTAGAAGCACCCCTTGACTTTTTTTTTCCTTTTCCTTGGTTCACCCTCTTCTTCT
TGGCATTAAGTCAGAGCTTCCCCCCTTACTTCAGCCGCGTATAGGAGAGAATTATCATACAGATTTGTGGCATGTGGTACAGAAAAGTTATCGG
AAACTTGTGGCACATTCAAAAGCATATTTCCTACCCGTCTAGGCATTTTTCACAAGAAAATATCAGGTCCAAAGTGGCATTTGAAGTTTCTGAA
TCTGACTAAATGCAGAGGTGATTGTGAATAAATAACATTAAAAGGCTTTAGTCAGCAAAGATACAGTACGAGTGAGTGGAGCTCATTAGAAACT
AGCCGTGGACCCCAGATATGTCAAAGGGGGGTTTGCTGAGAGGTGACCACGCAGTCTTCATAACTTCCTCATCTCTCCCACAACTATCAAACAC
ATAGGAAGATGTTATTTGGAGAAAAAAAATAGTTATGTTTAAAAAGCTTGACAAAGAAATTAATCAAAATGAGCTTCATGGACCTTGTAAAATA
TGGTCCAGGCACATGTAATGCATATGTAATAGGCATGCGTACCGATGTGTCCATATGGACAAATAGAAAACCCAAGAGTTAAAAGTTTCTGCAA
AAAGACAACAACTTCTTTCCAAATTAAATAGAAGGCTTATTTGAATATAAACTTTCTCGCAATACAGCAAAATAACAAAGATTGGACAAAGGTT
TCCAGGTGTCACTGTTGAAACTGCAATGGGAGGTAAGAGTATTGCTAGCTTCCCAAATGAACCACAGAAGGGGAAGTTGCATCATTCAAGATGC
TTATCCTTTAGGATTTCCAAGTTTTAAAATGTAAATATTCATCTATGGAAAAACCAAAATTTCCAAGTTTTCCTAGTACACCTTCAAATCATTT
CTACACCTAAGAAAAATAAATACTAATTTTTCTTAATGAGGCCTAATAACACCTTTAACTTACCATTTTAAGAGACGCTAAGTCAATACAATGT
GCAGGTCCCTTCTGGATATTTATTTTCCTAAGCACAAATTCATTTATACCGAAAAAACAGTGGATGAAATACTAGAAAAATCTTTTCTGCACTG
GACCTCTCTTTTCCAGATTTACCTAAGAGAATCTTACCAGGAATGGAGATAGACTTTTACTTCCTAAGTAGATTTAAATTTAACACCAATTTAT
TCACTCTAGTATTTCTATATGGGAACTAACAGCTTCTATAGGACCTCTACAAAGTGCCAGAAATATGATCTCATGTGTAGTAATAAATTTAAAT
GTGTTTTCTTTTACATATTCTATCCCTCCGTATTTTCCCAATCTCTTCCTTTTTTATGACTCCCCCACTCTCAGTTTCTAAAATCACTTGTCCA
CTCCGGAGACCCAGGGGCACTGCCTAGAGAAGGAGCTAACTTTAAAAAAAATAAACCAGGCTGGTCACAGTGGCTGATGCCTGTAATCCCAGCG
CTTTGGGAGGCCAAGGCAGGCGGATCACCTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACACATGGTGAAACCCCATCTCTACTAAGAATAC
AAAAATTAACCAGGCGTGGTGGTGGGCGCCTGTAATCCCAGCTACTCGGGAAGCTGAGGCAGGAGAATTGCTTGAACCCGGGAGGCGGAGGTTG
CAGTGAACCAAGGTCATGCCACTGCACTCCAGCCTGGGTGACTGAGTGAGACTCCAGCTCAAAAACAAAACAAAACAAAAAAAGCACCATACTC
AGAGCTGCTATAAGTAACATGCAGTTGTAAGCCACACACTTCTTTGCATGATTCTTATTTTAAAGATTGGAAAGTAGAATTCGTATTTGTTTGT
TGTACTAATTCCAGTGGTATACCTGGAATTAATAAATGGTACTAAGACACTAAGGCGTTACTTTCTTGCATTATTCTAAATCAGAGTGTTGATT
AGAGAGAATAATCCAAAGGTAAAATAGTCAGATAATTTATTTTTATGTAAGTTTAAAAAGAGAAAGAGATTGATTTTTTTGAAGAGTTATAATT
ACATTCAGTATGTACCTTTTGTGCATTGAAATAATTTTAGATTTTCTGAAAAGGAAATATTGATGTAATTCAGCTCTCAAAACACTTGATGCCA
TGCCTTTCTTCCTAGTGTTTATGTAAAAGCAAGTGGTCAATTGTCGCTGCATCAGAGCTATGACAAGTTCTTCTATATTAGGTGGGCATCACTC

AAACACTTTTCCATAGTAGATCCAGTGGTATACCTGGAATTAATACAATTTATTAAGTACTAAGCTATGTTGTATTTATTGTATTAATTCCAGT
GGTAATACAATTCCAGTGGTAATACAATGTATTAATTCCAGGTATACCTACCACTGGAATTAATACAATAAATACAACATAGCTTACTACTCAA
GTCTATTACACGCCATCTAAAATAGCTAATCAGAAAGGCTGTATGTCTGAAACACCCAAAAGTCACTCATCCTCTTTCTTAAAGCATTAAAAGT
TTTGGCAACTTTTCTGAATCCGAGTTGTGTGAGTCCTATACTGTACTAAGCTGGACATCTTAAGGGCTGCAGGTTTTAATATTTACACTGCCCC
GACTCAGTTGGTAACCGCTAGCAAATCATCTCACCCCAGTTTTTGTCCTTTTCCTGAAGAAAGCTGAATTTGGTTTCATGATCACTGTTTGCTG
AAGAAGACAGTCCCAACAATGGTCCAAAGCAAGGCCAGCTTTTAAAACAGCCACCAACTCTGAGTCAAGGCATCTACCTTCATTCTAATCAAGA
AGGGAAGATACAAAGTTTCAAGACCAGTCTTCACCTTGCACTGAATCTGACGGGGTCTTACTCAGCCACTTTCCACTACCTTTCAACCTAAAAG
CCAAGAAAAGCAAGGATTTGGATTTTAAAGCTGTACTTGTTATAGGTGTTCATGGGTTTTGTTAGCATTGTTGTTTTTTAGGGATGAGGGGTGT
TACTGGAGTGGAAGGGGAGCTGTGTTGCTTTTAGTTTGTCATTTAGGATGTTAAAGTTAGTATGGGTTTCAGTTTGCATTTTAAAAATTAGAA
TGGTAATGAGCAAGGTGCCAGAAGGAAATAACAAAGCACATTTTCCTGAATAGCTCCCCCTGTCTTCTGTGTTCAGATTCTACTCTGACTTCCC
AACCCGGCTTCCTCTCCCGCCTGCTCCCTTCTGAGGTGCAGTGTAGAAGTTCATTCTCAGGTTTCTCTCAGTTTGCAGGACAGAGATGCTGCCGG
CCAGGCCAAGGGCAGTTATGCCAGCTCAGTGTAGTGCAGCTTCCTTGCCCCAGCGTGCGCAGGCTGAAAGCTCAGCCAGTTTCTCTTTCTGAGG
CTGCTTCACGTCTTCTCAGGGATTTCCAAGGCACGGACGTTCATTTGCCTAAAACTCTCTTAAACTGCCTGACAAAAAAAATAAGTACCTAAGT
ACGACATAAGTGGTACACCCACGCAGGATAATTAGGATTGATGTGCTCTTTTAGAGGCACCAGATCCTCAACCTCCCCTTACTAGTGGCATTTC
TCACCTGCTCATGTGGTGCCCACCTGTGGCTTGCTGGCATTGCCACTGCCTGCGAGTGGGGAGATTTCCAAGTTCAAAATGAAGGCCTGATTTT
ACATGGTGGAACGCTGTAGGACTGTGTGGAGCTCTGTGAAGGAATTAAGGATGGCATGAAGTCCTAGTTTATGTCACTGCTCCCTTGTTTATGT
TCTTTCCTTGACTATTCCCACGCCCCCTCTCCAGATTTTGCATGGCTTTTATAGCCTCTAGTAATTATATCAGCAGCATGGAGTCTATTTTTAT
CTCTTCTGAATGTGTGCAACGTAAATGTCAAAAACCATAAAGGCCCTTTTTAGCATGTACCTTGCATGCACAGTTTGAAAAGTGTGATGCAGCG
TTCAGAGAGATGTTGCATTTTGAGGTGAGACAGATGAAAAGTGGAAAACTCAATTTCACCACTTAGCTGCGTGAACTTTCAGTAAGTCCTTTAT
CATCTTGAACGTTTAGCATTTTCTTCTGTAAAATGGAGTCCGGCTGCCTACCTCATAGGGTGGCAGCATGGAACCTAGTTTAGTGTCTGGGATG
CCCCCTTTCCACAGCAGGTGCCCCCAAACTCCTAAATTATATATTTCATGCTTAAATGTCATGACCTTTCAATGCCCTGCATTGCCCTTTATCC
AACTTAGAAACGGAGTAAAAATAAAATCTTACCACTGTAAGTCACAATAGGATTGTCACAAAATTAGCATGTGAAAGAATGATACGGAACTCAC
TGTCACCAAAAAACTGTCCCTAGACTTGGCTAATAATTATAATAATACCTAGCATTTATTACTAAGCACTTTCTGGGAGCTGGTCTCTAGGTGC
TTTACATGTAACCTTCACAACCATCCACTGACCCAGTGGATAGATATTCTTGTCCTCCACTTAATAAAGGAGGACATGGAGGCAGGTTAGATAA
CTTAACAAAAGTCACAAGTTAGGAAGTTAGTCAGCTGGATTCAAATTGAAGCATCCTGATCCCAGAACCTACAGAAATATAAAATGTCTATCAG
GCAGGAGCATTCACATGGCTGAGCTGCCCCAGCTTCTAGGCAAGGTTGTTTCCTCTCTTTGCACTTCCTATTTGAAGTTGGGCCCTGAAAGCGG
CTAGATGGGCCCGTCAGAAGGGCATGCGAAGCTGCAGTCCCTTACTCAGCTACGAGTTAGGGACCATCATGCTTCAAAGGGGAAATGGCCTCAG
CATGTTTAGGTAGTCCAGTACCATGGTACAGTTTTTATGGCTCATTAATTTATCTTTAATTGAAGATAAGTTTGGGAGAATTTAGAGTTGTGAGA
AAATGTGTTGTTTTCTAGTCAAAAATTCTCCTGTAGTTGTGATGAATGGACAAGATGGGAGTAACTGGGGGATGTGGTAAGGGATAATAATAAA
TAATAAAGAGCATATTTGTAGGCCCTCAACAAAATCTAGTGATGGAAGGAAGAACATATATAGGCATGTTAGACATATGAGAAATATCATAATA
CATTTTATGGGTAAGCTAAGAAGAACCAGTTATGCAAATTTTCTCTACTTTTTTATGAACTACTTATTGATTACCCCAGTCATTTTTCCATTGC
TACCACTGCATAAAGCAGAGGAAGCCAGTGCAGTCAGAACCCTCTTATTTATACAGTAAAGGCTATTACCGACCAAGTACTTAGCAGCCAGAGA
AATCTTGCGTGTAAAACAGAACTGGGATCTGAAGAACTTAGAATATGTCATTTAAAGAAATATGATCACTGGTATGTACTAAAGTGCTCCAACT
TTTTAAAAACTTTAAAATCAGTTGACTGAAATTTACAGTTATTAAACTTAATTCTTTTTTTTTTTTTTTTTTGAAACAGTGTCTCACTCTGTCA
CCCAGGCTGGAGTGCCGTGGCGCGATCTCAGCTCACTGCAACCTCCATCTCTTGGGTTCAAGCAATTCTCCCACCTCAGCCTCCCCAGTAGTTG
GGACTACAGGTGCAGGCCACCATGCCCGGCTAATTTTTGTAATTTTTGGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCC
TGACCTCAGGTAATCCGCCTGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCGCGTCCAGCCAATTGTTAGTCTTTGGTACGG
TGCCCATGAGTCATCAAACTCATATGTGGAAGTTTTTGAAAGAAGAAAAAAAAATGAGAGTAGATTGATTAATGACTATTAAAAATAGCCTGGG
ATCTACGAATACCCATAGTAAAGAGCACCAGGCACTGGATAGATAATTGGTCTAAAGAGCCTGGACCTTGCTGAAGATAATATATACATGTAAC
ATGTTTTGTGAAAATGGAGTCCTGAAGATGAAAGGTGTATCTTTTCCATATTGACTACGTGACTTAATTGCTCACTTACTAGGCTGAGAAAGGG
GAGCAGAGGGGATGTGGAGAGGGAAGAAGGAGGGAAGGAAGGAAAGAAGGAAGGAAGGATAGAGGGAGGAAGCAAGGAAGGGAGGGAGAAAAGA
AGGGAGGAAGGAAGGATGTGGAAGGACGGAAAGAGGGGAAAGGATGATTCAATATCCTTTGACTACTAACATATGGCCTATTTGGGGAAGTAGA
CGATGGTGCATGGAGTCTCCTGAAAGCATCATATGAATGTTTGAAAATGTTATTGCCCACACAGTGCAAGTGCATTTAGGTATGTTTTAAGATA
GGTGGGCTAACTCTGAACTAGGGATTCCCAAGTTTAACTGCCTTATGAAGGTTAGAATTTGAGCACTTAAGTTCAGGGAAGGAAGGAAGGAAGG
GGGAGAGAGAAGAAGGGAGACGGCACTGCAGGTAGAGTATCCCCACATGTCTTACCTCTTCTGAAAGGCTGATGCAACAAATGCGACTGAAAAG
CCAAAGTATGGATACGTTTTCAATTTATTTCTAAAGAGTTCAATTTAATAACTGTCTGAGACTGAAACCATTGACACAGCAGAGCTTCTAGTAA
TTATAATTCTGAGATTCCCCAAAGTGGAAAGTCCTAGGAATACTGCCTGAAATGACAGTGCATTTGCTGTTCAGGTAAAATTCTTTAGGAATTT
TCTCTGATTCTGATTTCTATTTCTAAAATTTTCGATCATCTTCACCATTTTCCCCCAAAAAATGAGGGGTGCATTTCTGTCATTTTGTGTGTGG
TTGGGTGGTATTGTTGCGTCTCAGTTAGGGGTTGTGAAATGGAAGCTCTGGAGGGAGGAAAGGCATTCTTGGTTTGCAACTGAGAGCAAAAGGT
ACCACCTAAGCATCTTCTGTGAGACTAGGGTGCTTCCTTTAGATAAATGTGTATCTGTAATCAGCTTAACTAAGCAGGTAAGGTGTTCATTAGC
TAGGCAGGGTTTTCAAAGAGAGAGAGAGGGAGAGTGAGAGGAAGAGAGAGAGAATGAATGTGGAAGAGTGAGAAGAACAAACAAGTCAAAGCAT
TTGTTCATGCTGCAATCTACACATCAATTATCCCGCTGTGCTAATTACCACCTTTCCATACCCCAGGTACCTAAGCATTCACACTTACTCACTT
TCATGCCTCTGATCAAAAAAAAAAAAAAAAAAAAAAAGAGGAGGAAAGAAATGATAGAAGCAGGGGATGATGAACCCAGAGGAGAAATACATTCTT
AGATCAAAATTTCCTTTACATATGAAAGTATAAATAAGGGGTCTTCTCCATCTTGCCATTGTTGTTTTAGACAATTAAATATTTGCAAATGTTT
TAATTGCAAAATATTACTTACTGTCAGGCTTCCAGGAGTGCTTCCATCTCATCAGCCCTTGTTTCCATACTTAAAAGAAGACAGAGAGGTGAGA
ATTGCTGGTCTTGCCTGAGATTTTGGGGTTGTGCCATTAGAATGAGATCAGATCATTAAAAGTCAGTGACTACTAATTATCAGGCTACTTTTCT
GAGGCTATTCAAGAATTGGGCAGTGAGGAGCCAGAGAGCTACCTTTGTATCAAAACCTTGGTGTTCCCCCTCACCGACTGAACCTTCATCTAAC
AATTAAACATTCTTTATTATGATGAAATCTGGGCTTGGAATCCCTGTTGGTTTGTGGGCTTCCTTGTCAGGGTGCTCATTTTCTCATTTCAGAG
TGAAGTTGGATAAAAAGAAAACCTATTTCCTGTAGCTCATTTGATACCTGGTGGGGATGCTATTCAGGTGACAAGGATACAGGCACAGAGGGGG
AACAGATGTGATTTACACACTCATTATCATTTGAATGAAAGTGCAGATAGGCCTGTTCAGGGGCCTGGGCATCACCTGGACAGCTTTCCTTCTG
ATCTTTATCCCATCTGAGAGGCCAGGTCCCCCTGACATCTTTAAATCCCCGACCCCCAGCTGGTGACACACAGAGTTTTATGACAGTCAGCAGT
CCTCTGAAGCTCCAAGCACAGATGCCATTCAGAATTGTGCTTCACACTGTTTTTTTCATTGTGTTCAGGCTTAATCAGGAATATATCCAAAAAA
AGCTTAACTTGAATAATTTCTTTTGGTACTTCTCCAGAAACCTGTTTGCCACTCGAAGTTTGTATAGTATTCTAAAGGGCCTCAGATTTGT
GTTCTTAAAGTTATGTGCATACGTAGCTGCTTCAGCTTTCGAAAAAGGACAACAAAATGGAAAGGACCATAAGTTATAGATGTCATCAAAGTCT
TATGTTTCTACGACTATCAGATCAGATGAGCTTAGTATTGTGGTAGATGCAGTCAGAATGTTAGAGTGCAAAGACAATAGAAAGTTTGGATGAA
GCTACCAAAAAGAAAAGTTTCTGTTTGGCCTCTTTTGCTCTTCATAAAGGATTTTCAGCGTCTTTGTTTTGCTACCTGGAATGGCTGCTGTCAC
CATGATCTCTCAAGCATTTTGTTACTTATTTGTGGGATGTGTGAATAACATGGAAAAATTGCTATGTCATCTGAAGACCTCAAATGATGAGTCC
TGAACAGTACAAACTGTTTTTTTTTTTTTAAATACATTTTCAAGAAAGCTTGCTTTCGTTCAGGACAAGAATGCACAACAACCTTGAATAACTT
TGTTTTTAACCTTCCCTTATCTCAGGCAGCCTGACAGTTTTGGTGGGGAGCGAAAAGTGAAAGGAATCTGTGAGAACAAATACTGTGGTGTTTC
ATGATTTTAATTAGGTATTGTATTAAAGAGAAAAATATAATGAACACAAGCACATACACATTTTATTTCCCATCTAACATTAACAGTTAAAGAA
AACAATCACTATCAAATTACTTTGTTACAGTCCATAATTACAACTCAGGTTACGCTTAACTGTTATTAACAGAATGTACAGTAATATGTTCTGG
CATCGTAATATGTTATTGTAGCATTATAATTAATCTTACAGGAAGTATAATAAATTTACAGTATCAGATTGAAGCAATACTGCATATAGATTTA
TTAATGCTTTTAATCAGTTCTGGCAAAATTAATTTTGCACTGATTGCTTACATTGGAATTTGCATATACTTAGTGAAAGTAATTTATTTTTTAT

GGATTCCTTTTTATTAAAATAGGGCATATGGCCCTTTAGCTAAAAAACTTTGTGGATTCTTTAGCTAAAAACATTTCTAAACATTTTGAAATGC
CATATATCTTCCCTTTAAGATAATTCTTTCTCTTAAGATTTATTTTTAAATTATATTCTTTAAAATACTTTTTTAACTCTTATTTCAATGATCT
ATTTTTTGAAACTGTAATATTTATTTCCCTATTGTCATTAGCCTACTTTTCCCCAAGGATCTAAGTTTGAATAAAAACACAGGCCTTGAAAAAT
ATCTACATTGATAAGGGACTGCATTAACATTTCAGAAAGTGTCATGTGAAAATTAAATATCATTGAAAAATAATGAAATTTTACTCTTTGAAAA
GTCCAGTAAAAATGGGACAGCACATGAGAATTTTGCCATTATTTCTAAGTGCAACTATGTTACAATACTCCAAAATGCTTTCTGTGCCACGCAA
TGTATGTGCAGAAAAAAGGCGAGTGCAGATTTTTTAAAAAAACTTAAACTGATATCAGTGTTGTAAGTTCAAAAATAGTATTGAGAAAAATATA
CCTAAAGTGTCTTTCTATTAAAATATACATGCTTTGTAAGGAAAGGTAAATTATTCACCAAATAAAAAATCAAGATGTCTTCATAAAATATATGTT
TACTATATCTTAACTTGTCAGGCAATTTGAAATTTTGAATAAACTCATCACTTAAATCTTTATTTTACCTCTTTCAAAAATAGTAAATTAGGTG
TTCCTGTAGGTATTGATTAATTTATTTTGCAAAAAATATTTGAAGAATAAGGGAAGAGTGATTTCTTATTCTTATAAGTCTTAACAATAAATAT
GTTCCTTGGCTTGAAAATTGAGTGAGCCTAACAGTACATAGCTTTCTTTTCCTATGTTAGTGAGTTACATTATGTAAAGCATATTCATGAACTT
ATATAGATTCTGGGTAGTTCTGATGATATGAAACTAAATTTTTTAAATAATTTAACTGAATATTTTGATATTGCTTGTATCAGGAATTTCTTCA
CTAAAAGAGCATATATGCAACAGTGTGACCTCTTTGGGCTCAATACAAAAGTGATTTGTACAGTGATTCTGTGATTTTCCACCATAATAAATTG
AGAAAGGCAGGTCTTGGTAAAACTTTATAGTCATGTATGAATACCCATATTCAGGTCTTCACCTCCAAGAGACATTCATTTTAATTTATGTCGT
TGTTTATCATCAAGGAAGATTTTGAACTTTTGAGAATTGGCCTTTATCTGTCCTAAACCTCTAACATTCCACTGTATCTTAATGAAACGGAGGT
TCTGTTCTTTCTGCCCAGGGCTTCTGATAAGTGTTTGCAGACTATGTAAACTTCTGAATAATAACTTTCAGTAAGGCAGGAGTCTTAAACCTCT
TAGTATCATTTTGTGCAGTATTATTCTGCTCTGTAAGATAATGTGTTATCAATACTTCATAAGATAACTTTGGCCAGAGAATGAATAAAATTTA
TAGTCACTTTCAAACTGCTCCCTTTTTTTAGGGTGTGGGTCATAGATCATGCAGCTGTCTGCCAACAGATAATCTTGATGAGTAAAAAGAAGCT
AACAGAGAAAAAGGTGGCTTAGTCTAAAACACTTAGGAAGGACTTAAAAAATTATTTCCCAAAGAATTAGGGAGTAAAAAAATTGTAAGTACAT
TTGTTTACAGTAAAAGAGTGGTCTCTTTGTTTGAGGAATTTTCCTTGCCACCTCAGAAAGTGAAAATTTACTCCTTTTTTTTTTTTTTTTTAG
AAAATTAATGCTGGTGTGATTGTTTAACTTGTGTAACCTGTTCCTTGAGGTAAAATGAGGAAGAAGCATATGATTTGGCCTCTCTTTTCAGTGA
AGGAAGGAAGTCCATGGAAATTACTGAACCAAACTAGAGATCTAAAGCAAAAGCCCTTTTGTGACACAGATGAACTCAATAGTGCACTGTGACT
ATCTGACTTTTGCCACGTCCAGGCTTAGGCCGCCAAGCGGCCAGGGTCAGCAAATTCCACTACCTGAAAATGACAGAAGGCGGCAGGGAAGGGG
AATTGAGGCATGGGGAGAAGCAGTTGAAGCATACTAGGGAGGCATGAGGTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTC
GTGCAGCTAAAGGAAGAGAAGGAAGGAAAAGAGGGTGATCATTGAACGACTTTAGGGGCAAGTCTGGAGTTAGGCGCTGTGGTGTCCAAGCAGA
GCCGTGTCTGGTGGCGGCAAACTAGATTGCTCCAAGCATGGAGCGCCCTGCTTGAGGACACTTGTTGTTGGACTGTTTGTTTACATGCAGTTTG
GGTGGCAAAAAAAGGGGAAAGTCTGGGTGACATCAGCTGCAAGAAGACTTAACCATATGCCGATGTCATCCAACCCCCAATTATTTGAACATTG
TGAAGGTTAAGACATCAATCCATCCATTTTTCTTTCTCTTACTCTGAATCGTGACATTATTTTCTCTAGTTCATTGACCTTGTTGGCAATTTAC
ACCACCAATATAAGCCTCAGGATCCTTTTGTAAAATGAGACTTGACACTAAATTAGTCAACTAAAAATTTAAAGGGTAAAGGGTCCCCCCAGCC
ACCCACTCCTGCCCCTCCCTGTACTAAAGTAGAAAATTTGGACAAGGCACACCATGCGTGTGACTCAATTGTTCTGGCCAAAAAATGGGATGAA
TAATTTTATTTCATAGATGCTTGGTGATTACTGGACTTTACAAAAGTTAACCACTAGTTAAAAAAAAAAAAAAAAAAAAAAAAAAATATATATA
TATATATATATATATATATATACTGCTTTTGGGTACTGAGGTTGAACAATTGGTCGGGGATAATTCCATAAAATGGATTTAAGTATTTAACAAA
TAATGTAAATGTATAGAGCAGGCCTAAAATTTCTCCACTGCCTTTGAGTATACCTTTAGAAGTTTACAAATACATGAGGATAAAGCAGTTTCAA
TAAAATGATCAATTGTACAAAGTATAGAAATATACCAAGCGTCTCTTAAGTAAATGATTACAACATTTAGAAGTATTCATGAGTTTGACATATG
CAAAGCAGCCTATCTCTCATGAGTCTGAGTTCCAGCCTCCCTGAACCTTTGTGCATTTCATAGGCTGGTGAACAGCCCAAACATGTAAATAAAT
AGCCATTCAAAGTGCAAGCATTTTTAAAAGTTTAAAACTCCACACAAGTTCTTTTACAAAAGAGTCCACCCTTTTATGTACCTTTAAAAACATT
TAGCCACTTTATTCTTTTGTGTCTTTGAAGAGAAAAAAAATTAATAAAGTTGTAGGATCCTTTTGAATTTAGAAAATGTTGGCAATGTTGGAAA
GAAAGACATTCAGCATTTCAAAGTTCTGGTGGGGAAGGAAAAAAAAGATTCTGAATAAAACAATTTTATGTGATTTTGCAGGTGGTTTGAGCTA
TCATTTTATATGTACGTTTGTACCACTGCTCATTGGAATGTTCATATAATACTGACCTAATTATGCATAGAAAAAGATAAGCCATTTACTTGAT
TCATTTCTTCTTTTTAAATCAAGAAAGGAACAAAAAGGCTCCTATTTTCTGAAAGAAATTGTTCGCTTTTATTGCAGAAAAGTAGCAGCTTGTG
CAGAGCTAGAACTGTAACAATTTTATATTCCAAAGGTTTTGTGTGTATTCGGTTAGTTACAGTAATTATACCCAATAACTGACAGCCAAAATCA
CGTAGGAGAAAGCAAAGGCTGTTTTCTCACACAGGCCCTGCTGCAGAACATCTGCTGAGAGATTTGCATATTAATTAACCCATATTAACTCTAA
TTATTCTGGGAAATTATCAAATAAATTGAATTTTCTAATTTTAACCTTTCTTTTACTTGACGCGTGTCGAGGCTGAGAGGACGCACCAGGCCGT
CTCACCTGGGCAATGAGCAAAAGATCTTTTCTACCCCTTTTGCTCCTTTAGACCTGGGGCAGCCTGGGGAGCTTTTGTGTGCCTTGTGCTTTTT
TGGCTTCTGTGCCTGGTAGGGTCTCCATGCATTTGTTGAGAGAGGGAACATGTGTGCTTGTGAGCACAGATGGTGGATTTATACAGGGGTGAGG
AAAGGTGGTACCTCAGAACAGTTGAGCAAACCTTAAGTTTTTTTTTTTTTTTTTTTTTCTTCCTCCCAGCCTGTTGTTTAGGCCTGAGCAAATA
AATGGGAGTTTAATTCAATTAGAGCCTGGCTGTAGTCAGTGCCTCATGACAGAAATTATTCAATATTTTTCCCCTCACATTGTTTGGTTTACAC
ATCACTGACTCCCTTCCTTTTGTACTCTGTTTAGAGTGGCCATAATGTGTTGAGCTTTTGTGTCTGCCATGTCACTGTCCCTTTCACCGTTGTC
TGGTTTTGTCAATTGTGAGGTGCAATGATGCTGTTTTGAAAACAGGGTCCTAGTCAGGGTGTTGCTATGTGAGTAGGGTGGCTGCAGTTTTAAA
CATACTACACAGTAAATAATGTCATTAGCCCAATAGACCTGAATCTACTGCTAAGCCTTAAGAGAAATCCTTTGGGTAGGGAAGTGAACTTTAC
ATGCCTTTCTCAGGTATTAGATGTAGCTTAAAACTGAGATTTCAAAGATAAATCTGGTCAGGGCAGTATGAAGAATTGGACTCCATTGCATGAT
CCCCTTTCAGGCATTTCTTTGGGGTAAGAGGCAAGATTGACTGAGATTAGAATTTTTTGCATGTGATCAAGTTTGTAACGACCCATACTTTAAG
CCACAGCGATCAGGAGAAAGCTACTGATGAAACCTCTACCACAAGCAGATCTCCAGCCCCCCTACTTCGAGCCACATCTCTTCTAAAGACCTAT
GACTCTATTTCCCCCTCAATGATTTCACTTCTCCCCATCCACTAAGATCTATTAAGATGAGCCACACCTCTTGCTACCTTGAAGGTAATTGTTT
TCCTCTGGAAGAGCTGTTCTTTCCCATTATTTCAGCTGATGGAGTAGAAGCATTACGGTACCTCCATGTAACATTCCTTAGACTCAAGAATTAT
TATTGACTTCAGTAAACTGCAGAAAACCAAGAAAGTCACCAAATAGGTCTGTTGGATGGACAAATATTTGAAAGCAATTATTTTTATGGATAGG
CTAGAACTCCAGTCTCCTTTTTCATGGAAGCATGGAATGCCTTTTGCAAGAAAAATATTTCTTTAAGAGACAAGCTGTTGCTACTTCAGATGAA
GGTATGGGTTCATGCTAAGGTTTTTGAGGGGAGGTGGTTTAATTTCGTGGGACTACAATAGCTAAAAGTGTATTTCAGTTATATCTGTATCTTA
GAAAAATGTACAGTTACAGACAAGGTTTAGGGTGGGGCAACTAAAACAATCAGAGAAAATTTTTATAGTTTTTCTATTTCGTGTTTATTTTTTA
CAGCACATTCCAACGTACTCTGGCAGTTACTGACTTTACACCTTTTATGGGCTTTGAAAGTTGTGTAACCTTTTCAGAGGAAGGTGATAGACAC
AATATCTATTTACACAAGGACACATTTCCCCTTTCTTTATATTCCGTTTATTCAAGGTTTTATTTCCAAGGTCTTATTACTATAAAACTTAAAG
CTAGACAAGGTCTGCCCTCATGTCAGATAAAAAAAAATACCAAAACAATTTTGATGGCTCAGAAGCTTATTTTTTCATACTTCCAGGTCCTAAA
TAAATTACAGTTATTTTCACATTCCTCTTGAATATCCTTCAGGCATGATAGTGAGCATATTTTTTCTGTAAAGCCCCTTAATACTTTCCTTCTG
ATGGTTTGTATAGAGCAAGTTGTTGAATGATCGTGGATTCCAATAATTAGAGAGAGTCTTCTAAAATCTTTTTTTCCTTTTGACATATTGTTGG
AAGACATATAGTCACTTGATGTATTTATGAAAGTCTGTGGAATTATTGGCAGTAGATGTACAATATATATGAAATTATTTGTGTATAGCAGTTG
TTTTGGGGGTCTTCCCTCAGCATGCCATCATGCTAGGCTTGCTGATGAAGGTGCTGTTAGACTTTTTAGCCATCAAAGGGCATTATTGACTTGT
GTTCTGGAATATAGCTAAGTATTATGTCCTTGGATTGTAAGCATATTATAGATGTTGACAGAAAGTGAAGCTGAAAAAATTTCTAAAGGATAGA
AATAACTACAAAAACTCACTAAATGAAAGGAGCGGTCAGGGGCCTGTATGTTTGAAACATCAATACAATGACTAGTTTCCTTTGGTAGGAGTTA
AGTAAGGTAATCAAAACCATTATGAGTCCTAGATATACAGGAAAACCCGAATATGTTTACTTTTGTAAAAAAATAAACAGATGTCAAGTCTTTG
GGAAATCATAAATTTCACTGAGAACACTGTGACCTAGAAATACCGTGTCTTCTTGAAAGAAAGTGAATTTACTGTTACAAATTCTTCGACCAAT
ATCTGTTTTTTAGGATAGCTTGACAAAGGGAGGGTCCTTGCTTTATTTGCCATTATGTTTATATTTTGATATTAAGGAAGAGGTTTG
GAGGGGAAAATTACATATCTAAGATGTTATTACCTGCATGTTGGAGCCTATCCAGAACCTCAACAAATGTATGGAAATTTGAACCTTTTTGAAA
ATCACCAGCATACTGAAATTTGAAAACCTCTCCCAGGTACCAGGGAACCTGCTAATATTTCCAGAGGGAATGAGTGGCTGCCATCTTCCCAAGA
TGCTCCTGTAACCAGGAAGTTGGAGGAGCCTCAGAACTGGCCTCTCTCCACTGCAACCATGGCATTGCAGAAATTCTGCTCTCATTTTATTTAA

TATGCGTATTTTTTTACATAGCTAATCTGAAATGGAAACATTTTTATCCCTATACTGAGAACTGCTTTTGTTTTATCAGCTGACATTTTACAAC
TCATTAATTTATAATGCAGGTTTAATGCCTTCGAATGTTCCTGGGATAAAAAATTAAAGTGGCCAAGCTAGTTTGTATAAAGGCTGACTATAGT
ATGTTAACAATAATTATTTATAACAATATTTTGTATTGGATAGCACATTCCATCTGAATATTTCAAATTGGCATGGTCCCTTCTAACTGGCATT
AATTCATTCATCTTGCATCCCCAAGTAATAAAGTTATTCCCATTTTTAAATGGAGAAATCAAGATTCATGCATTTCAGTGACAGATGTTCAAAT
TCAGAAGAAAATCTCTGTTTGAGTTTGTCTTTGCCTTGTAATACGTATTTGTCACTAGGCCTCCATTATTAAATAAGAAATTGAACCTTGCATT
TAGTCCTATGATCTTTACCCACCCAAGCACGGAGGTAACAAGGTAACTGTGATTTAAAAAAAAAAAAAAAGTCAATGATAAATCCCCCCGGATG
GGCAAGAGTCACTGGACAAAAATTATTGAAAAATAGCTGCATCCTCTCCTCAGTAGCACATACTTGGAAATTGAAATTTTGTGGGGAAGACAAG
GAGGAATAAAGGCTAAGGTTCAGGAGAAAAGTCTTAGAAGGTCTTCCCGACACTTGCCACATGTAAAGACGTTGTAAGAAAGCAGGCCCACAAG
GCCTTTAATCCACTGGCTCAAACATAAATGATCTCTAAGCATGTAAGCATAAGAGATTTAGGAAACCAAATGATTCATAAAATTCCAAAACACT
TCTTTTTTTTTTTTTTTTTTTTAAAGACAGGGTCTCATTCTGTTGCCCAGGCTGGAGTGCAGTGGTGTGATCATAGCTCACTACAGCCTCGACCTC
CCAAACTCAAACAATCCTCCTACCTCAACCTCCTGAGTGACTGGGACTATTGGCATGCAACACCATACCTGACTGATTTTTTATTTCTTGTAGA
GATGGGGTCTTGCCCAGGCTGATCACAAACTCCTGACCTCAAGAAATTCTCCCTGCTTGGCCTCCCAAAGTGTTGGGATTACAGGTGTGAGCCA
CCATACCTGGCCAAAAGGACTTATTTTAAATTTGAAGTCATATTACCAGCAGAGACATTTTTAAAATGAGGTTACATGTCTGTGTCACGTCTAA
GCTGAAGGATTAGGCATGGTCTCTCTCATCATGGCCTTCCTACTTGAGGAAGCATTTGCAAATAAATTTCTAAGTGAAGGGCCAACACAAAAAT
TGTGACTGGCACAAGTTCAAATCTTCCTTTTTCCTCGTAGCCACCACACATTGCAGCACCAGAGAAAAGACAACAGACACTGAAACAATGGTAT
TTCAGTGATTATACCAGTTACATCACCTTGCATTTCCATGTTACTGTTTTATACATCACACAGTGCCATTGCACATACAACTTTGTAGGCTCCT
ATGACAACCTCATAAACAGGGAACCATTATCATGATTTTTACTCATTTCTACCAAGCTTCCTTGGATGATAGGCCAAGGCCACACAGCTGGTTA
CACGTTGGTTCTGGGACAAGGCAAGTCTTCAAGCTCATAATTCTGTGAACTGCCTCTTTATCTCTATTGTTTCCAAACTATTGCAGGAAACATG
GGTGTATTGTTAGATTCTGGTAATTGATCAAATTGGTAGGCTTCTATAACTCAAATTAAGGGGATCCATGAAAGTAACAATCATCAAAACAATT
TAAAATTAAGCAACAATCTCCATTTTTGTGGCATGAAAATCCCAAAAAGTCCCAGGGATTTCCATCCCTTACTCTGGTCATGTGGGGTTTAAAC
TTAGATTGCATTCTGCACTGGGAATTTGTATTATCATGTATGTTTTTGTTTGGCTGTTGTACACCTAAAGACATGCTTTCTGGTACCGGCTTTG
CTACCAACTAGCTGTACGGCCTTTGACAAGCCATTTGACCTCACTGTGCCTGTATTACCTCCTTTGTCAAAGAGTTGACTTCAAGTGTCCTTCT
GGAACTACAATTTTGTGATTATATTTCTCCAAATAAATTGTAAGCTTCCTGAGGTGAGAATGGCACTTCCTTCTATCTTCTGGATTTGCCACAT
TGTGGGTATTTAATAAATGTTTGATGATGGCATTGAACGATTTATTGGCACGCTTGAGTAGAGTTATAGGAAATCATTATTGGCTGCCTTATTA
ACAATTAGCTGTCTATAAGCTGCATATGTAATTTTCCTTTACATCAATAGAGTTTCTGCTTCTGGTGAAGACGAAGTATTGCCCCTTCACATCA
GTTCTTCTGTATGTTAATACATTAGCAACTGATATCTTATTTGTACTGTAACTGACAGAATAATGTAGAGAAAGCATATAAGTAGGAAAAGGGG
TTAGTAAGGTAACATTGTATAGGGCATCTTCAAAACAACAGTTCTGCTATTTCAAATGTCAAGCTAATTATCAGCAATGTTTAAATGCTATGAT
AGGCCATTTTTGCAAATGCTGAAATTTTCCAGCAGGTATGGACGTTATAAAAATGTCAAATTTTGCTACTATTCTATTACATGTCACCAGAACA
CAAAAATCTGAAAATAAAAGTTATATGTATAGGCAAGGAAGAGAAACCATTATTTGTTTTGCATATGACTGTAAAATTAATTGGCATAGTGATA
TAATTTAGAGTATTGTTTACTTGGAAGGAAGAGTAGAGAGGATTTAATATA

HUMAN SEQUENCE - mRNA
GGCGATCACGTTTTCACATGATGCTCACGCTCAGGGCGCTTCAATTATCCCTCCCCACAAAGATAGGTGGCGCGTGTTTCAGGGTCTCTCGTCT
CTCTCCTACAGAAAAGAAAAAGAAAAAAATGTCATTAGAAGAGGCGTAACACGTCAGTCCGTCCCCAGGTTTGTGTTTCCTGGAGTGGCCGAAA
GAGATCAGTTCTAACCTGCTCTGCAGGAATAACGGTCCTGCCTCCCGACACTCTTGGCGAGGTTTTTGTACAGTTTGCTCCGGGAGCTGTTTCT
TCGCTTCCACCTTTTTCTCCCCCACACTTCGCGGCTTCTTCATGCTTTTTCTTCTCACCATTTCTGGCCAAAACTACAAACAAGACTTCGCAGA
TCGAGCCTGCGTGCTGCCGAAGCAGGGCGCCGAGTCCATGCGAACTGCCATCTGATCCGCTCTTATCAATGAAGCAGCCGATCATGGCGGATGG
CCCCCGGTGCAAGAGGCGCAAACAAGCCAATCCCAGGAGGAAAAACGTGGTGAACTATGACAATGTAGTGGACACAGGTTCTGAAACAGATGAG
GAAGACAAGCTTCATATTGCTGAGGATGACGGTATTGCCAACCCTCTGGACCAGGAGACGAGTCCAGCTAGTGTGCCCAACCATGAGTCCTCCC
CACACGTGAGCCAAGCTCTGTTGCCAAGAGAGGAAGAGGAAGATGAAATAAGGGAGGGTGGAGTGGAACACCCCTGGCACAACAACGAGATTCT
ACAAGCCTCTGTAGATGGTCCAGAAGAAATGAAGGAAGACTATGACACTATGGGGCCAGAAGCCACGATCCAGACCGCAATTAACAATGGTACA
GTGAAGAATGCAAATTGCACATCAGATTTTGAGGAATACTTTGCCAAAAGAAAACTGGAGGAACGCGATGGTCATGCAGTCAGCATCGAGGAGT
ACCTTCAGCGCAGTGACACAGCCATTATTTACCCAGAAGCCCCTGAGGAGCTGTCTCGCCTTGGCACGCCAGAGGCCAATGGGCAAGAAGAAAA
TGACCTGCCACCTGGAACTCCAGATGCTTTTGCCCAACTGCTGACCTGCCCCTACTGCGACCGGGGCTACAAGCGCTTGACATCACTGAAGGAG
CACATCAAGTACCGCCACGAGAAGAATGAAGAGAACTTTTCCTGCCCTCTCTGTAGCTACACGTTTGCCTACCGCACCCAGCTCGAGCGGCATA
TGGTGACACACAAGCCAGGGACAGATCAGCACCAAATGCTAACCCAAGGAGCAGGTAATCGCAAGTTCAAATGCACAGAGTGTGGCAAGGCCTT
CAAATATAAACACCATCTGAAAGAACACCTGCGAATTCACAGTGGTGAAAAACCTTACGAGTGCCCAAACTGCAAGAAACGTTTCTCCCATTCT
GGTTCCTACAGTTCGCACATCAGCAGCAAGAAATGTATTGGTTTAATCTCTGTAAATGGCCGAATGAGAAACAATATCAAGACGGGTTCTTCCC
CTAATTCTGTTTCTTCTTCTCCTACTAATTCAGCCATTACCCAGTTAAGAAACAAGTTGGAGAATGGAAAACCACTTAGTATGTCTGAACAGAC
AGGCTTACTTAAAATTAAAACAGAACCACTAGACTTCAATGACTATAAAGTTCTTATGGCTACACACGGGGTTTAGTGGCACTAGTCCCTTTATG
AATGGTGGGCTTGGAGCCACCAGCCCTTTAGGAGTTCATCCATCTGCTCAGAGTCCAATGCAGCACTTAGGTGTAGGGATGGAAGCCCCTTTAC
TTGGGTTTCCCACCATGAATAGTAATTTAAGTGAGGTACAAAAGGTTCTACAGATTGTGGACAATACTGTTTCCAGGCAAAAAATGGACTGCAA
GGCTGAAGAAATTTCAAAGTTGAAAGGTTATCACATGAAGGATCCATGCTCTCAACCTGAGGAACAAGGAGTTACTTCTCCTAATATTCCGCCT
GTCGGTCTTCCGGTAGTGAGTCATAATGGTGCCACTAAAAGTATTATTGACTATACGTTGGAAAAAGTCAATGAAGCCAAAGCTTGCCTCCAGA
GCTTGACTACTGACTCAAGGAGACAGATCAGTAATATAAAGAAAGAGAAGCTACGTACTTTAATAGATTTGGTCACTGATGACAAAATGATTGA
GAACCACAACATATCCACTCCATTTTCATGCCAGTTCTGTAAAGAAAGTTTTCCTGGCCCCATCCCTTTGCATCAGCATGAACGTTACCTTTGT
AAGATGAATGAAGAGATCAAGGCGGTCCTGCAGCCTCATGAAAACATAGTCCCCAACAAAGCCGGAGTTTTTGTTGATAATAAAGCCCTCCTCT
TGTCATCTGTACTTTCTGAGAAAGGAATGACAAGCCCCATCAACCCATACAAGGACCACATGTCTGTACTCAAAGCATACTATGCTATGAACAT
GGAGCCCAACTCCGATGAACTGCTGAAAATTTCCATTGCTGTGGGCCTTCCTCAGGAATTTGTGAAGGAATGGTTTGAACAACGAAAAGTCTAC
CAGTACTCAAATTCCAGGTCCCCATCCCTGGAAAGAAGCTCCAAGCCGTTAGCTCCCAACAGTAACCCTCCCACAAAAGACTCTTTATTACCCA
GGTCTCCTGTAAAACCTATGGACTCCATAACATCACCATCTATAGCAGAACTCCACAACAGTGTTACGAATTGTGATCCTCCTCTCAGGCTAAC
AAAACCTTCCCATTTTACCAATATTAAACCAGTTGAAAAATTGGACCACTCCAGGAGTAATACTCCTTCTCCCTTAAATCTTTCCTCCACATCT
TCTAAAAACTCCCACAGTAGTTCATACACTCCAAACAGCTTCTCTTCTGAGGAGCTCCAGGCTGAGCCTTTAGACTTGTCATTACCAAAACAAA
TGAAAGAACCCAAAAGTATTATAGCCACAAAGAACAAAACAAAAGCTAGTAGCATCAGTTTAGATCATAACAGTGTTTCTTCCTCATCTGAAAA
CTCAGATGAGCCTCTGAACTTGACTTTTATCAAGAAGGAATTTTCAAATTCAAATAATCTGGACAACAAAAGCACTAACCCAGTGTTCAGCATG
AACCCATTTAGTGCCAAACCTTTATACACAGCTCTTCCACCTCAAAGCGCATTTCCCCCTGCTACTTTCATGCCACCAGTCCAGACCAGTATTC
CTGGGCTACGACCATACCCAGGACTGGATCAGATGAGCTTCCTACCACATATGGCCTACACCTACCCAACTGGAGCAGCTACTTTTGCTGATAT
GCAGCAAAGGAGAAAGTACCAGCGGAAACAAGGATTTCAGGGAGAATTGCTTGATGGAGCACAAGACTACATGTCAGGCCTAGATGATATGACA
GACTCCGACTCCTGTCTGTCTCGCAAAAAGATCAAGAAGACAGAGAGTGGCATGTATGCATGTGACTTATGTGACAAGACATTCCAGAAAAGCA
GTTCCCTTCTGCGACATAAATACGAACACACAGGAAAAAGACCACATCAGTGTCAGATTTGTAAGAAAGCGTTTAAACACAAGCACCACCTTAT
CGAGCACTCAAGGCTTCACTCGGGCGAGAAGCCCTATCAGTGTGATAAATGTGGCAAGCGCTTCTCACACTCGGGCTCGTACTCGCAGCACATG
AATCACAGGTATTCCTACTGCAAGCGGGAGGCGGAGGAGCGGGAAGCGGCGGAGCGCGAGGCGCGCGAGAAAGGGCACTTGGAACCCACCGAGC
TGCTGATGAACCGGGCTTACTTGCAGAGCATTACCCCTCAGGGGTACTCTGACTCGGAGGAGAGGGAGAGTATGCCGAGGGATGGCGAGAGCGA

SAGRES DISCOVERY 02-36

GAAGGAGCACGAGAAAGAAGGCGAGGATGGCTACGGGAAGCTGGGCAGACAGGATGGCGACGAGGAGTTCGAGGAGGAAGAGGAAGAAAGTGAA
AATAAAAGTATGGATACGGATCCCGAAACGATACGAGATGAAGAAGAGACTGGAGATCACTCCATGGACGATAGTTCGGAGGATGGGAAAATGG
AAACCAAATCAGACCACGAGGAAGACAATATGGAAGATGGCATGTAATAAACTACTGCATTTTAAGCTTCCTATTTTTTTTTCCAGTAGTATTG
TTACCTGCTTGAAAACACTGCTGTGTTAAGCTGTTCATGCACGTGCCTGACGCTTCCAGGAAGCTGTAGAGAGGGACAGAAGGGGCGGTTCAGC
CAAGACAGATGTAGACGGAGTTGGAGCTGGGTATTGTTAAAAACTGCATTATGCAAAAATTTTGTACAGTGTTAAGGCCTAAAAACTGTGTGGT
TCAGAGACTAATTCCTGTGTTTAATAGCATTTATACTTTAAGCACAACTAGAAAATTGTAAGAATTGCACTCTACTTATGTATCACTACAAACT
TTAAAAAACTATGTCTAATTTATATTAATACATTTTAAAAAGGTGCCCGCACTACCATACATCAGTATTTTTATTATTATTATTGTTATTCCTT
TTTAATTTAATGTGCTCGCACTACAATGCATCAGTATTATGATTCCTCTGTACTTTCCTTTCGCTATTCATCAATTTCCCATTTTTTTTTTTCA
GCTTAAGTAACCACACAATTTTAGGCCTCAATTTTTTTTTTTTTTCTGTGAAGGAACTTGAAGTGATGCATGTGTGAATTTAAGATACCGAAGTC
TTAAAGTGACCTGGACGTGAAGGAAAAAGTAAGATGAGAAATAAAGAAAGCCTTTGTAAGGTGGTTTTAAAAGCCTTATATGCAAACCTTTTAA
TCTGTGTTTCTGCAAGTGCCATCCTTGTACAGTGTTAAGAGGGTAACATGGGTTACCTTTGCACCAGCTTCAGTGTTAAGCTCACCCTGTTCTT
TGAAGCACCCATGTCAGTATTAGAAGAATAGGCAGCAGTTCCTTAGTTTACATATGTTTGTGCAATTATTTTCTGTACTTTTTTGTTCATTAAT
TTTGTCAGTATTACACCAAACTGTTTTTGCAACAAAAAAATTTTTTTTGCATTCATTTAATTTTAGGTCAAATAACATTTTATTTATGTGGCTC
ATTTTATATTTCCTAATTTTATTTATTTCATACTGTAGTGTACAGTATTATAGTTCTTCAATATATAGATATATTTTAGTAAAAAAGGAACATG
ACGTTGATCATTTGGGCAAATTTTACGTAAAGAGAAGAGCATTTATTGTGTTTTGGAACATTAATTGTGAGATGGGATTTTTCAATTTTATTAT
TTTATTTTTGTTTTTTTCCAATTACTGGAAATTCCAAATTTGGGAACTTTTGATACGATCTTGTGAAAACACTGTATTTTCGACTGAAAATTCC
ACTTTCTTCATCTTGTTTTTTAGCTAAAAAGAGGGACTGTTAAATACAATGTATGATACCATGACAAAAATCTTTCCTGAATTGTCTTTGTAAA
AGTATTATTGAATTTTCAATTTGTAATTTCTTTTGAAAATGACCATGCTCGAATAAAAATGTAGCCAAACT

HUMAN SEQUENCE - CODING
ATGAAGCAGCCGATCATGGCGGATGGCCCCCGGTGCAAGAGGCGCAAACAAGCCAATCCCAGGAGGAAAAACGTGGTGAACTATGACAATGTAG
TGGACACAGGTTCTGAAACAGATGAGGAAGACAAGCTTCATATTGCTGAGGATGACGGTATTGCCAACCCTCTGGACCAGGAGACGAGTCCAGC
TAGTGTGCCCAACCATGAGTCCTCCCCACACGTGAGCCAAGCTCTGTTGCCAAGAGAGGAAGAGGAAGATGAAATAAGGGAGGGTGGAGTGGAA
CACCCCTGGCACAACAACGAGATTCTACAAGCCTCTGTAGATGGTCCAGAAGAAATGAAGGAAGACTATGACACTATGGGGCCAGAAGCCACGA
TCCAGACCGCAATTAACAATGGTACAGTGAAGAATGCAAATTGCACATCAGATTTTGAGGAATACTTTGCCAAAAGAAAACTGGAGGAACGCGA
TGGTCATGCAGTCAGCATCGAGGAGTACCTTCAGCGCAGTGACACAGCCATTATTTACCCAGAAGCCCCTGAGGAGCTGTCTCGCCTTGGCACG
CCAGAGGCCAATGGGCAAGAAGAAAATGACCTGCCACCTGGAACTCCAGATGCTTTTGCCCAACTGCTGACCTGCCCCTACTGCGACCGGGGCT
ACAAGCGCTTGACATCACTGAAGGAGCACATCAAGTACCGCCACGAGAAGAATGAAGAGAACTTTTCCTGGCCCTCTCTGTAGCTACACGTTTGC
CTACCGCACCCAGCTCGAGCGGCATATGGTGACACACAAGCCAGGGACAGATCAGCACCAAATGCTAACCCAAGGAGCAGGTAATCGCAAGTTC
AAATGCACAGAGTGTGGCAAGGCCTTCAAATATAAACACCATCTGAAAGAACACCTGCGAATTCACAGTGGTGAAAAACCTTACGAGTGCCCAA
ACTGCAAGAAACGTTTCTCCCATTCTGGTTCCTACAGTTCGCACATCAGCAGCAAGAAATGTATTGGTTTAATCTCTGTAAATGGCCGAATGAG
AAACAATATCAAGACGGGTTCTTCCCCTAATTCTGTTTCTTCTTCTCCTACTAATTCAGCCATTACCCAGTTAAGAAACAAGTTGGAGAATGGA
AAACCACTTAGTATGTCTGAACAGACAGGCTTACTTAAAATTAAAACAGAACCACTAGACTTCAATGACTATAAAGTTCTTATGGCTACACACG
GGTTTAGTGGCACTAGTCCCTTTATGAATGGTGGGCTTGGAGCCACCAGCCCTTTAGGAGTTCATCCATCTGCTCAGAGTCCAATGCAGCACTT
AGGTGTAGGGATGGAAGCCCCTTTACTTGGGTTTCCCACCATGAATAGTAATTTAAGTGAGGTACAAAAGGTTCTACAGATTGTGGACAATACT
GTTTCCAGGCAAAAAATGGACTGCAAGGCTGAAGAAATTTCAAAGTTGAAAGGTTATCACATGAAGGATCCATGCTCTCAACCTGAGGAACAAG
GAGTTACTTCTCCTAATATTCCGCCTGTCGGTCTTCCGGTAGTGAGTCATAATGGTGCCACTAAAAGTATTATTGACTATACGTTGGAAAAAGT
CAATGAAGCCAAAGCTTGCCTCCAGAGCTTGACTACTGACTCAAGGAGACAGATCAGTAATATAAAGAAAGAGAAGCTACGTACTTTAATAGAT
TTGGTCACTGATGACAAAATGATTGAGAACCACAACATATCCACTCCATTTTCATGCCAGTTCTGTAAAGAAAGTTTTCCTGGCCCCATCCCTT
TGCATCAGCATGAACGTTACCTTTGTAAGATGAATGAAGAGATCAAGGCGGTCCTGCAGCCTCATGAAAACATAGTCCCCAACAAAGCCGGAGT
TTTTGTTGATAATAAAGCCCTCCTCTTGTCATCTGTACTTTCTGAGAAAGGAATGACAAGCCCCATCAACCCATACAAGGACCACATGTCTGTA
CTCAAAGCATACTATGCTATGAACATGGAGCCCAACTCCGATGAACTGCTGAAAATTTCCATTGCTGTGGGCCTTCCTCAGGAATTTGTGAAGG
AATGGTTTGAACAACGAAAAGTCTACCAGTACTCAAATTCCAGGTCCCCATCCCTGGAAAGAAGCTCCAAGCCGTTAGCTCCCAACAGTAACCC
TCCCACAAAAGACTCTTTATTACCCAGGTCTCCTGTAAAACCTATGGACTCCATAACATCACCATCTATAGCAGAACTCCACAACAGTGTTACG
AATTGTGATCCTCCTCTCAGGCTAACAAAACCTTCCCATTTTACCAATATTAAACCAGTTGAAAAATTGGACCACTCCAGGAGTAATACTCCTT
CTCCCTTAAATCTTTCCTCCACATCTTCTAAAAACTCCCACAGTAGTTCATACACTCCAAACAGCTTCTCTTCTGAGGAGCTCCAGGCTGAGCC
TTTAGACTTGTCATTACCAAAACAAATGAAAGAACCCAAAAGTATTATAGCCACAAAGAACAAAACAAAAGCTAGTAGCATCAGTTTAGATCAT
AACAGTGTTTCTTCCTCATCTGAAAACTCAGATGAGCCTCTGAACTTGACTTTTATCAAGAAGGAATTTTCAAATTCAAATAATCTGGACAACA
AAAGCACTAACCCAGTGTTCAGCATGAACCCATTTAGTGCCAAACCTTTATACACAGCTCTTCCACCTCAAAGCGCATTTCCCCCTGCTACTTT
CATGCCACCAGTCCAGACCAGTATTCCTGGGCTACGACCATACCCAGGACTGGATCAGATGAGCTTCCTACCACATATGGCCTACACCTACCCA
ACTGGAGCAGCTACTTTTGCTGATATGCAGCAAAGGAGAAAGTACCAGCGGAAACAAGGATTTCAGGGAGAATTGCTTGATGGAGCACAAGACT
ACATGTCAGGCCTAGATGATATGACAGACTCCGACTCCTGTCTGTCTCGCAAAAAGATCAAGAAGACAGAGAGTGGCATGTATGCATGTGACTT
ATGTGACAAGACATTCCAGAAAAGCAGTTCCCTTCTGCGACATAAATACGAACACACAGGAAAAAGACCACATCAGTGTCAGATTTGTAAGAAA
GCGTTTAAACACAAGCACCACCTTATCGAGCACTCAAGGCTTCACTCGGGCGAGAAGCCCTATCAGTGTGATAAATGTGGCAAGCGCTTCTCAC
ACTCGGGCTCGTACTCGCAGCACATGAATCACAGGTATTCCTACTGCAAGCGGGAGGCGGAGGAGCGGGAAGCGGCGGAGCGCGAGGCGCGCGA
GAAAGGGCACTTGGAACCCACCGAGCTGCTGATGAACCGGGCTTACTTGCAGAGCATTACCCCTCAGGGGTACTCTGACTCGGAGGAGAGGGAG
AGTATGCCGAGGGATGGCGAGAGCGAGAAGGAGCACGAGAAAGAAGGCGAGGATGGCTACGGGAAGCTGGGCAGACAGGATGGCGACGAGGAGT
TCGAGGAGGAAGAGGAAGAAAGTGAAAATAAAAGTATGGATACGGATCCCGAAACGATACGAGATGAAGAAGAGACTGGAGATCACTCCATGGA
CGATAGTTCGGAGGATGGGAAAATGGAAACCAAATCAGACCACGAGGAAGACAATATGGAAGATGGCATGTAA

TABLE 37

MOUSE NOMENCLATURE
ICSGNM Vdac1
Celera mCG3636

HUMAN NOMENCLATURE
HGNC VDAC1
Celera hCG16588

MOUSE SEQUENCE - GENOMIC

TTTGATCCTGGAAAGGCATCAGAGGCTGGTGTCTTTGGTAAGAAGGGCTGTGTACCCTGAACCTGGGATATGGAGGGGTCTGATGGGTTTGGGG
GAAGAAGCTGAAGAAGTTATGGCATGTCAGAGCAAGCCCTTAAGGTCAGTTTCCTGCCTCCCTCCTCCAGGGTACTCAGAATCCAACCAGCTTG
TTGATTTATTATCTTTCTAACTGTCACTGTCAAGAAAGTCCTCTCCCCGAGAGGGACAAAGGGCATTGTAGGAAGGGCAAAAAGGATCCCATAG
TTGGAGATGCCTGAGCGGATCCAGACTTTGCAGGTAACATTGTGTGTATGTGTGTGTGTGTGTGTGTGTAATTTCCACGGAGGTGTAGCAGTAG
CAAGCCGTATCAGAGGCAGTACAGACACTACTGTCAAGATAGGCAACAGGTCACATCCATACCCTCTCTCCTGACACCAATTACAAACCTAGGG
ATCCCTGAGGCCACCCTCACATTTAAGAACTCACTGGGATCTCTGTCACTCCCAGTCACAGGTAAAAGCAACTCAGGAAAGGGTCAAGTGGGCA
AGACCAGGAGGCGTCCCAGGGAACTGTCTGCCGTCTCCTGCAGATGGAGTCCCAGCTGGTGCTCACTGCTCTCCAAATGTGCCAACTCACACGG
AGCACCATCCGCTGCCTCAGGTGCTACCTAAAGCGCATATTGGGGTTCCATACTTGCTGCCTGTGAGGTCAACACCAGTCCTTCAGATAGTCTA
AGGCCCAGCTTCGTAAGCTTGGCTCAAAGCTGGTAACCATGGCAATCTCGTTGATTTACACTGTAAGGCCAACTCTCTAAATGAAGATCCGCTC
CTAGAACAGCACTTTGTGGAAGCTAAGGGCAAAGCCAGACCTCCTTGTAGACAAGGTTAAGAACTTTACTTGAATGTAGATAAATTCAACTTC
TGGCCTGCATTAGGCTGCAGAGGCCATTCTTCAGGACTGAAACCCCCCAGGACATGGTCCTCAGCTGCACAGACTGTAGAAGGAAGCCCAGGGG
ACTGGCTGCCTGCTTGCATGCTGTAGTCACCTGTCATACCCTGATGGCATGTTGAACACCAGCTGGGGGACAGCGTCCTGGAAAGGGACAGGGT
GGACAAGCCAAGGCCAGGCCTGACCCCAGGGCAGCATTGATTCCAGAAAGGAAGTTAGCAAAGTTGCCATTAGGTATTGAGCTCTATGATGGAA
GCAAAAAGCCAAGTTCAAAACAATGTGGAAGGAAGAACCTACCTTTGAATAGGAGTAGAGGAAGTGACCACCTGGTGGAGGATGTGGTTCCGTT
GGCAGAGTGCTTAGTGTCTAGCATGCAGGAAGCCCACAGCCCTGGGAGATAGAGGTAGGAAGATCAGAAGTTCAAACTCATCCTTGGCTACCTA
ATAGTGAGTTTGAGGGAAGCCCGGGCTACGTGAGATGCAGAGATGCAGTGTCAAAACAAAAAACAAAACAAAACAAAACAACAACAACAACAAC
AACAACAACAAAAACCCAAAAACAACCTTTAGTCCTAGCACCCAGGAAGCAGATATAGATGGGTCTCTTTGGGTTCAAGGCCAGCCTGGTCTAC
ACTGTGAATTCTATAACAGCTAGGGCTACATAGTGAGACTATGTCTAAAAACAACAAAATTCCCCCAAAAAACAAGAATCAAGTAATGCTTGTT
CAAGTCTTCTTTGTTTTTGTTTGTTTGCTTGTTTGTTTTTTGTTTTGTTTTGTTTTTGTTTTTCAAGACAGGGTTTCTCTGTGTAGCCCTGGCT
GTCCTGGAACTCACTTTGTAGACCAGGCTGGCCTCGAACTCAGAAATCTGCCTGCCTCTGCCTCCCAAGTGTTGGGAGTGCACCACCATGCCCA
GCACTTGTTCAAGTCTTAAGGAGTTGGGTTGTTAAGTCAAAGGACAGAGGCAGGTACAGCTTTGCCCCTAGGGCAAACCCCATGCATCTGTTCA
CTTGTGTAGCCTGAGGAGACAATGCTATCTCTTGCAGTAGTATGGTATCTTAGCCAATGATCGATTGATCGATCTCTCTCTCTCTCAAATACAC
ACACACACACACACACACACACACACACACACACACACACACACACATATGCGTGCTGAGCAGAGAAACTCTGGCTTCTTTCCCACTTAAGGTCTC
CGGTAGGAAGGCAGCCTCTGACAATTTCACTTTCCACACTCCAGCCCAAATTGGAGAGCCTCACAGCTGCCAGGGCAGGCAGATAAGTTTGCCA
CCCAATAGCAGAAACGACCGCACTTACTCCAAACCCTAATCATTCCAGTGCAGCAAATGGAGAAAGAGCCTCTGTCTTTATTAAGATTTTTTTT
AACTTATTTTTATTTTTTGAATGTAGCCCTGGCTGTCCTGGAACTCACTATGTAGTCCAGGCTGGCCTCAAACTCACAGAGATCCTCCTGCCTC
TGCCTCCTGAGTGCTGGGAATATAGGCGTGCACCACCACGCCCAGCTAAGAAGAGATTCTAAAATACAAGTGTGTGTCTGTGTGTCTATGCCCA
TGAGTGTAGTGCCTGCTGAATCTGAAGACTGAAGCTCGAGATACAGGGACATGGGTCACGGGTGGTGGAATGCTGACGAGGGTCTTCTAGAAGA
GCAGAAAAGGGGGCTGGTGAGATGGCTCAGTGGGTTAGAGCACCCGACTGCTCTTCCGAAGGTCCAGAGTTCAAATCCCAGCAACCACATGGTG
GCTCACAACCATCCGTAACAAGATCTGACCCCCTCTTCTGGAGTGTCTGAAGACAGCTACAATGTACTTACATATAATAAATAAATAAATAAAT
AAATAAATAAATAAATAAATAAATAAATAAAAAAGAAAAAAAAAAAAAAAAAGAAGAGCAGAAAAGGTACTTAACTGGTACCTTCAGCCTCCTGT
CCCGGATTTGAGACAGGGTCTCACTCTGTAGCACAGGCTGGCCCACATCCATAGAGGCAGGGAGAGCAATGGGGTTCCAGGGGCAGAGGAAAAG
GCACAGGGAGGCATCTGATGATACAAAGTTTCAGCTACACATGTTACATAATTTCCAGAGCTGTACCTGCTGAAGCGTCCATGGCTAACAGTCC
CGGGACAGGGATGGCTGCTGTCCTGTCTATTTGATGGAGTTTACAATTTGTAAACCTGGGCATGCCGGTGAGGGAGTTTCTAGAGTGGGTTGAT
TAAGGAGGGAAGCCCCGTCCTAATGCTGGGTGGCATCTGCTCAGGGGCTTAGCCTACATAAAAAGGAGAAAGTGGGCTGAGCCACCAACATTCA
TCTCTCCCTTCTTGCTGACTGCGAATGCCCTGTGACCCACTGCATCATGTGGCTCTTGTCATGTCTTTCCTGTTATGATGGCCTGCCTTCTCAA
CTCCCAAGCCAAAATAACCCTGTCCTTCCTTGAGTTGCTTTCGTCAGACACTGTGTTTCAGTAAGAACAGTCACTCATACAATGGTGGATTGTA
AGTTTAAGTTAGATGTGAAGACAGATTTTTTTTTTCCCTTTGGTTTTGTTTTGTTTTGTTGGTTTTGAAAGACAAAGTTTCTGTGTGTGTAGCCCTG
GAACTTACTCTGTAGACCCGGCTGGCCTGGAACTCAGAGTTCTGCCTGCTTCTGCCTCCTGAGTGCTGGGATTAAAGGAGTATGCCACCACTGC
CCTGCTTGCTTTGGTTTTCTGAGACAGGGCCTTGCTCTGCAGCTCTAGGCTGGTTTTAAACATAAAATCTTGTAGCTTCCCTCATGCACACACA
CACTGCCACTAATATAACTAATTATAATTATATAATAATTTTTTAAAGTTTCTGAAAGCAGATGGTAGACAAGATGGCTCAGAAGTTAAAAGCA
TTTGCTGCTCTTATAGAGGACTATGGTTCAGTTCCCAGCACTCACGGGGAGGCACACAATGATCCTTAACTCGTTTCAGGGGATCTCGCGCCCT
CTTCTGGCCTCCATGGACAATGCATGCACATGGTACACAATCATCTATGCAGGCAAAACACTTATCACATAAAATAAAAATAACATATAAATCT
CCTTTTAAAAAGTCAGGAGAGGGGCTGGAGAGATGGCTCAGAGGTTAAGAGCACCGACTGCTCTTTCAGAGGTCCTGAGTTCAATTCCCAGCAG
CCACATGGTGACTTAAAACCATCTGTAATGGGATCCGATGCCCTCTTCTGGTGTGTCTTTAGACAGCTACAGTGTGCTCATATACATTAAACAA
ACAAACAAATAAACAAACAAATAAATCTTTAAAAAAAAGAAAGCCAGGAGAGATTGGTTAGTGGGTAGAGATGCTTACTATGGGGGCCTAACTA
GTCTTTGGAACCTACAGAGGGAAACTGACTCCATACGATCTTCTCCAACTGTAGCCCCCTCCCCTAATATTAATTAAAGCAATTGTTTTTCAAA
AGATTTCTTTAGTTTTATGTTATGTGTATGAGTGCTTGCCTGCATGTATGTAGATGTACCACATACTTGCCTGGTACCCTCAGAGGCCAGAAGA
GTGTTAGATTACCTGGAGCTGAAATTACAGGTGTTTATGAGCCAATATATGGGTGCTGGGTCCTCTGCAAGAGCGGCCAGGGTTCTTAATGGCT
GAGCAATCTTTCTTTCTTGTCCCTAAGATCAGTCATTACAAGGGAATGTAGGGATGTGGTTGGCATCTGTACAGCTTGTTGATGGAGATAGATG
GTTTCCTGGGTATTTGTATCTAATGTCATGGAAATCTATGTATTAAACATGTATAGTTTTTTTTATATGCCAACCACACTTCAGGAAAACAATT
TATTCTTATTTTGTATTATTTATGTATATACATGTGTGTGTAGGGGTTGTGAATGTGTGCCACATGGGTACAGATACCTACAGAGACCAGAA
GAGGGCGATAGATCCTCTCCAGCTGGATAACAGGTGGGTGTGAGCTGCCTGAAGTGTGTGTGTGTGTGTGTGTGTGTGTATAACTGAA
CTCAGGTCCTCTGGTAGAGCAGGAAGTGCTCTTAACTACTGAGCCATCTTCAGCCCCAAGAAAATAGATTAAAAAAAAAAACTCTTTAATCCCA
GCATTTGGGAGGCAGAGGCAGGAGAATTTCTGAGTTCGAGGACAGCCTGGTCTACAGAGTGAGTTCCAGGACAGCCAGGGCTACACAGAGAAGC
CCTGTCTCAGAAAACCAAAAACTAATCAAACCAAACCAAAACCAAAACAAAAAAAACCCTGCTAGCCTCGAATCCTAGGACTCAGGAGGTAGAG
GCAGGAGGATTTCTATGAGTTGAGGCCAGCTTGGTCTGTCAATATAGTGAGTTCCAGGCAACCAGGAGTATATAGAGAAACCCTGTCTCAAGAA
ACCAAAGTGGGTGGAGATATACCTTTGTGGTTAAGAGCACTGATTGCTCTTGCCAAGGACCTGGGTTCAATCCCTAACATCCATATGTTGGTTC
ATAATTTTTAACACATGCATGATAGTTCACAACCATCCAGAGCTCTAAGGGATCCAACGCCTTCTTCTGACCTGCAGGGGCATCAGGCATGCAT
GTTGCACACAGACATATAAAGGCAACATCCTTAGTGTAAAAGAAGTAAGTCTTTTTAAAAAAATAATCTTTGCTGGGGATGATGGTACATACCC
ATAATCTTAACAGTTAGGAGGTTGAGGCAGGAGGATCACGAGGAGTTAGTCAACTTCAGCAACATACCAAGACTATGCCTTAGAGATTGAATAT

SAGRES DISCOVERY 02-37

ACTCACAGGGCCCCAAGTATAGGATGGGCATCGCTCGCCCTTGTTGGGCCTGCTATAACTTGCCAGCAGTCAGTACTGTGGTTACAATAATGTG
GATAGCGTTATAATTGCTCCCATTAATATTATGAATGAAGATTTCCTCAGAGGAAGCCTCTGAGACACTTTAGCAGGCTGAAGATGATGGGGGT
GGGTCAGGACCTAGGGCCATTTTATTCCCTCAATCCCCAGGACTCACATGGAAAAGGGAAAGAACGGATCCCTGCAAGCTGTTTTTTAACCTGT
GCATGAAAGTATAACGTAAAAACAAAATTCTAGGCCTTTAGGCCCAGGCTTGGGAATGTGACCTCTGTGACTTAATGCTCCAAGGTATGCTAAT
CATAAAACAGATAGCGACATTCCTCCACCCGCCAGCTTCCTGGGTTCAAAGAGTGTTCATTCACAGAAAGTCACCCTGACCATTGCTGGAACCC
GCTATGCAAATGTGCTATTGTTAGGGGCTCTTAGAAACTGTCTTGAGAGATAACAGGAATAATTACCAGGTATTCCTTGTGACTCTTGTGACTT
TGTACTTCCTTGGGACTCTTAACTGGTATCTTTGGTATTTTCCAACAAAGCCCTCCCCACTTCCTTGAGTTGTGGTTTCTTCCTTTAAATACCC
CCTTACCCAGCTACTTGGGGTGCCACGGTCCTCTACCCCTGCGTGGTGTATGACCGTGGGCCCGAGAGCGCTCTTGAATAAGAGTCCTCTTGCA
GTTTGCAGCAAGACCGTTTCTTGTGTGATTTGGGGTGTCGCCTCTCCTGAGTCAGAACGTGGGGGAGTCCTCACGTTGTGGGTCTTTCATGCAC
ACATAAACAAAAACTTAAAATATAATTTTTTAAAAGAAGACCTAGTATAAGAAAGAACTTCCCTAAGGTGAAGAAAAAAAATACTTTTTTTTTT
TTTTTTTTGAGACAGGGTTTCATGTAACCTAGGCTGGGTTTGAGGTCATTATGTAGCCAAGGATACAGTAAACTTCTGATCCAGCCTCTGAAAT
AAAATAGTCTCACACGCATAGACCATTTCATTATTAAGAGAAAACTGCATCCCCTCTGGATGGTTTACTTTGTTCTGTGCAAAGGAAGACTGCA
ACTGATTTTGCACCTAAAAGAAAATACAATGTAAATAAATTAGGCAAAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAG
GAAAGAAAGAAAGGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAGGAAAGCAAGCAAGCAAGCAACCCATTACTCAGGTAGCTGGCA
AACAGCAGGAGAGGCCAGATGCAGGTGCACACTAGCTGCACAGCTAATCTTAACCCTAGCGTCAGTTTTAGTCTATTTTCACAGCTAGAGAACT
CCAGGGTCTCAGTGATTCCTCCCCAGAGTCAGGGGAAAGAGAGCAGGAGGACTCTGTCACTTGTCAGCTCCAACTCCAACGAAGCCTGTGCATG
AGACAAAAGTGAAATAGGGTCACTTATCCCAACAGACCTATGGTCAGGACAAAAGTGACATAGGGTCACTTACCCCCAACAGGACTATGGTCAG
GACTGGCCCATCCCCACAAGTCAACAAGACATCTCTGGACTCACATGGAACTGAAGTAGCTCTGGGGACCCCAAACTCAGGAGGGGGATCCATG
AGGAAATGAGCTCAAAGCGTCTTGCAACTGCACAGTGTTCTGCTTGCTTTTCTGGGCCAACAGAGATGCAAGCCTGCCGGAGGAGTTGGCAGAC
TCAGGACATCCTGCTGTTTCCCTAAAGCTTCTGGATTTCTTAATTTGAATCTGCAAGTAAGAACCCGACTGGCCAGGCTTGGATCAGGTTTTCT
GTCTCAGGCCAATCAGCTTTGGCAGACTCCGTAGAGGGGAGGCTGGGCAGAGTCCAGTTTAAAAAAAAAAAAAAAAAGGTGACTTGCTTTTCCC
CTCCCTGCAGGCTGTGACTGGGAAGAAAGATCAATGAATAACATTTCTGGTGCACTTGGATTTCAATCCCAGGGGCTCCCAGGTCTCCTCCCTA
TTCTGGCTGATTTTCTTTGCCTTTCTTGTGTGGCTAATTCTTTGGATTTAAAACCTTCCCTTCTGGAAGGAAAGAGATTCATAAAAGTCAGGTT
CAGTCCTCAGCACTAGAAAGTTAAAAACAAACAAACAAACAAACAAACAAAACCCAAAACATACATGGCTTGGGAAGTCCAGCTATCGGACTCA
CGAGGTCCCTCTAGTCAACAGTTGCTGGAGAGGGAACTCTTGAGCTGCTGATAAGTCATGCATTGGTCCAGGGATGCATGCAGGTTTGTTAGTT
GGGGGCCTTTGGGGTGATCTTTTTAGTTACCTTGAGTTACCTTGTAAATAAATTAAACACTTTCCCTGGTTTGCCGACGTAGACTTTGGGTGGA
ATTCTTTAATCTGTCATCTGTGCCTTCTCTACCGCAAATAGCTGTCTGTCTCCCCAGCAAAAGTGACACAAGCCACTCGCTGAGTTTTAGGTAA
GTGCCTTACCAGTCCTCTGCATCTCCATTCATTTTAAATTAAAACCAAGACTCCCAGGGCGCTGAACGGAGGTGGCGCACACCGCCTTTAATCC
CAGCACTTGGGAGGCAGAGGCAGGCGGATTTCTGAGTTCGAGGCCGGCCTGGTCTACAGTGTTAGTTCCAGGACAGCCAAGGCTATACAGAGAA
ACCCTGTCTCGGGAAAAAACAAACAAACAAACAAACAAAAAACAAAAACAAAAAAAAAACCCAAAAAATAAAACAAAACAAAAAAAAAACCAA
GAAAGACTCTCAGGGCGAAGTTCCGAGAAGCCAGACTTTCTGCCCACCCACGACACACAGCCCTGGGCATCAGGGCTCTGGGTCAAGTGTTAAG
ATTCTTGGAGACAAATCTTGTGTCCCCAGGTCTTGTCCTTCCGACTCTGCCTCCCTGTACGCCCCTGTGACTCAGCAGCTTTCCCTGCCTGGCT
TTAACTCCGGGAATGGGCTGGGTGTTTGTTGCCGGGTAGATAGAGCTGCAGACTTGGGAACAGGTTCTTTCTAATGCAAAGCAAGCCCTGTACC
ACGGAGCTATCTGTTTGCCCACATTCTATTTCGAAGGGCTTTCCCTCATAGTCTTAACTAGATATGGGCTTAGGCCCCCTTACATTCCCTCTCC
TCGGCCTCTCTCTCTCTTGGTTCCCTTCCTTTAGCCCACGGAACAGCATTTTCAATCTAGAGTGGCTGCGGATGCCCAGCTGTCTTGTTCAGCT
ACAGCAGGTTGTGAGCAACCACCTGGCGTCTCCTCTACTGGACCCCAAATGCCTGAATTCTCCTCGGACGTCTGTTAGTAGAAGGCAAAGGGTG
TGAAGTCTTCACTCACATGTGATTTCACAAACTCTCCAAACCTGATTTGGTTAGTCTTGGTGTGGCACGCTCAACAGGGCAGGAGGCCACGTGC
TGAGACCAGGCTGGGAAAAAGTGTCCGCCCTCTCTACACTGCAGGAAAGCAGACATCCAGAACCCGCGTGACCTCACGTAGCGAGACTCCGCAG
TCTCACAAACCCACTTTGTCTTTTTTAATTTCTTAAATGCTTGGGAAATGGCGGAAAGAGGCTTTGACACTAGGGAAGATTGCACGCAACTTTA
CAGTGCGGAGCCGGCTCTCGGGAGAGTTTAATTTGCAACTGACTCGCTGACGCACGCGGGCGTGTCGCAGGCTCCGGAAATCAAGGTTGGAGCA
GAGGGGACAGTAGCCGCTCTGACCTATACAGCGCCACTTCCAGAGCCCAGTGTCCCCACTGGGCCTCCGAGTGACTTGCAGCCTCGGCGACTCC
GGCGACACTATCCGCTGAGGTCCCTAGGCCACCGCTCTGTGTGCCGGAAGCTCCCCTCCCCCTCTTCCCAAATGCTTCCAGCAGCCTGGAGGCT
GCAACAGTGACCCGCGTGTCCCCGCGCACGCACACACCTCACGCACGTCAGACCCACGCCTCCCTATCGCCCCGTGCCAGAGTGCACGCAGGCC
TTTACGCGCGGCCACACATGATCACAGAGCCGCAGAGGGCGAGAGCGCGGCTCGCGAGTGGGAAGAAGACCCCGAGACTGGTCTGGGCGCTGTC
CGGGGTGGAGCCGAGGGCGGAGCTTCGGGGTCCGGCGCGCAGAGCTGGGGCGTGTCCGCGCCGCCGCGATCTGCGCCGCTCCGCCCTCGGCCCG
TTCGCTGCGCTCCCAGCCTCCTCGCCGCAACCCCCGCCGTAGCTGCCGCTGCTCCCGCCGTCACCGCCTCCGAGGTAGGCGCAGCGGAGAGGGC
CTGGGCTATGCCTGAGTCCCCAGGGCCTCGGGTCGCGCTCCTGGGAAGTCTCCAGGGAGGCGATCGAGGGAGGTTCGGGCGAGGGCGCTGGGCC
TAAGCGCTTGGCCCCGGGAAGGGTGAACCAGGGACGATCATTGCGGGCCTGGAGGGGCAGCGGGCTTGTAGAGGAGGCCTGGAGGGCGGGCGCA
GAGCGGATCTCCCAGATTCTAGCTCGAGCGTTCAGAGCACCTGCATTTGGAAGCCAGGGGCGGTTCGAACATGCGAGGAGCGGAAGGGCAAGGG
CGGCCGCGTGGAGGCCCGGCGGGCCGCGGGTCTAGGTGACCTTCCCGGCGGCGCCCTCTGGCTCTAGATCCCGTCGGTGTGGATCTGGTAGAGA
CCCTCCCACGGCCCAAGCCCTTCCCCACCAGCTCCAAGGGCCTGTGCAGACCCAGCTTCCTCCGCCGAGAGGACGAACTCCAGGCACGGCCATG
CCCTGGATCCCCCAGCCCCTACACGCCCTAGCCGGCCCACGCCCGGAGTAGGTGGCGCCGGGTCCCTCCCGCGCATGCCAGTGTCTTCCCGGGC
GGAACGGGCTGCCCTGAGTGGACTTAGGCCGCAGGAACAGGGACCTGGGCCTGGACTGAGAGCGAGACCCATAGGGAGCCATACGCTTGGCCT
CCTTGGCCTCGGGGACGGAGTCCGTGTTCTGTGTCGCCAAATGCAACTGTGCATTCTGGAAACTGTTTTCAGGGCCTGACATCAGATTGGAGGC
CCGCAACTCTACACGGTTTGTCCAAGGTCACACTGGTAGGAAGATTTAAAACTTCAATCTTCTCATCTGCGAAATAGGAGCAATTATATACACT
TCACTGAGTTTGGGGGAAAGAATAAAATGATCCGATTAACACGAAGCCTTGGGGCATGCACAAGGACACCTTAGAAACCTTGACATTTGCCTAG
GAGACCTAGGAGCTTTTGGGGAGGGTTGAACTCATCCTCCACAGACTTTTATTTTATTTTTATTCCACATGGTGTACAGGAAGGGACT
CCATGAATATACAGGCGTATTATTTTAATGCCATTATTACTAATGTCAGAAGCAAGCATTTGTGCAGCACCAGGTATTGAGTCATTGGAGAATA
ATTCACGAGACACTGTCAGTTTGCAGATTGACAGCTGTCAGGCTGGAGCACTAAATCTGACTGCAGACCCAGAATGCAGGAAGAGTGTGGGCTT
AGCTCAGGTGTGTGCTGTCCAAAACTTCTCTTTCCTTGACCAGAGATATGGGTGAGGGGCTTAACTCCGGCTTGTTTACTAGCAAGCCAGGCAT
AACTGCGGAGGGCCTGCCTGCTTTTCTCGGGACTGACAAAACTGAAGGGCCAAACTCAGGCTTGTCTTCAGGGACTTGGGTGGGACCACTTGGC
ACACATTAGGTGGTTAAGAAAGGTCTGTGGGGTAAATTCATTTTTAAAAAATGTCTATTTAATGTGTGCATGCTTGTGCCTATGTGAGTTTATG
TACATACATGCAGGTGTGAGATGCCTCATGTGGGTCTGGGAATCGAACCTGGGTCTTCTGCAAAAGCAGTAAGCACTTTTTTGTTTGTTTTGTT
TTTGTTTTGTTTTGTTTTTTTTGAGACAGGGCTTCTCTGTATAGCCCTGGCTGTCAGCAGTAAGCACTCTTTTTTTTTTTTTTTTTTTTTAAG
ATTTATTTATTATTTTATGTAAGTACACTGTAGCTGTCTTCAGACACTCCAGAAGAGGGCGTCAGATCTCATTATGGATGGCTATGAGCCACCA
TGTGGTTGCTGGGATTTGAATTCAGGACCTTCAGAAGAGCAGTCAGTGCTCTTAACCATTGAGCCATCTCTCCAGCCACAGCAGTAAGCACTTG
TAACCCCTGAGCTCTCTCTCCATTTTTTTTCTTTCATACCACTCTTAACTACCCAGGCATGGTAGGTGCACATTCAATCGTGGAATCTTAAAA
CAGCCATTAGATGACCTAGACAGCTCACTCACTTCTAGAAGCTATCCTGTCCTAGCCGAGTCATAGATGTCATAAGAGCTGTAATCGTACATAC
TCACCTACAGCAGTAGTCATGAGAGATGAGAAACAGCTCCTTTAGCATTCTACAACTTCCCAAGTCCTGGGGGAACTTGTCCAACTGGTGTTTC
TGGGCTTAAAGCTAGAGAGTGATATGGGTAGATGGGATTCTGGCCAAAGCTGTGGGGCCTGTAGCTTCTTCCCTTTCTGACAGGTGTGGGGGTA
TGACAGCTCGAGTAAGGTGCCAGTCCCCACTTGTAGTAGCTCACAGCTGATTCGCTTTATTTCTGGTTTCTAGAATGAGGCTTTGGACAGGGGC
TGTCTGGGGCCATGCGGTCCTCATGCTGGACCTGAGCCCCTAGGATTCCGGAAAGGTTGTACTGTCGTTGTAGCTTTGCGCTTTCCCCAGGTTC
CTTCGGTACCTGAAAGGATGGCAGAGGCATGCTTAGCTAGACCTGGGTGTGGGTCTCCATCCCGCAGTTAAGTCACAGCATGTGAGCACTTTAC

CTAGGGCTGAGCTAGAAAAAGCTCCAGAGGGCAGCCTGGGCTCTCAGTTCTGATCTGACAAGAGCCACAGAGTCTAGCTCAGGTGAAATAGCTT
TCTCGTGTCTTAGTTCCTCTGTTATAATGTGGTGGATTGATTGATTGATTGATTGATTTTGGCTTCTGTTTTTAAAAAAATTAATTGTTT
GGAGGTGGCTAGCACATGTGGAGGTCAGAGGTCAACTTCTGGTCTTCCTGTCTCCACTCAGGCCTTGGGATCACCTGGGTCTGCAGTAGAACTG
TGACTGTCAGTGCTGGCCATTCTGGTGTTCTGCGGCCCTGCTGTGTATACTTGGTGCTTGGGCACCAGTCCTCCGCTAGTATCCCCACACTGCA
CTGCTGCTGTGTTCTGAGGAACCCATAGGTGTGAGTGCCTCTGCACAGCAGAAGTTACCAACTGGTTGGGAAAGGAGAGAGGTAGCTGCTGTGG
GCCATCTGTAGTGGACGGTGCTCATAGAAATCATTTGCCCTGGGGTGAGATAGGAGGTGTCCTTCCGGGACCTGGCCAGACAGTATCCGGCTAA
ACAATACCTCTCTATGGGTGGGAAGGACTCTGGACCCCGTGGTTCAGGGTGAGCTTCTGACAAGATGCTCAGAAACCATTATTATAATAGTAGA
TATACAAGACCAGAGCTTGGTTAGATTCCCTAGCCATAAATATAGCAATGGAAACTGTCTATTGGACTGGCTTGTGTGGGACTTAGTAGAATGC
TAGCCCAGCATGCAGAAAGCCCTGGATTCTTCCTTCAACACTGCAGAAACTCAGTATGGTGGGGCACACACTCAGAGGTGGAGGCAGGAGGATC
AAGTTCAAGGTCATCCTCCGTGACATAGTGAGTTTGAGACTCACTGTGGGCTACATTAGATCCTGTTTCAAAGCCAAACCAAACTGGCTGGTGG
TGCACACCTTTAATCCTGGTACTTGGCGGGGTGGGGCAAGGGGGAGGGCACAGAAGGCAGACAGATCTCTGTGAGTTTGAGACCAGCCTGGTCT
ACAGAGTTTCAGGACAGCCAGGGCTACACAGAGAAACCCTGTCTTGAAAAACGAAGAACCAACCAACCAAAGAAACCAAACTTATTATTTATTT
GTCTGCTCATCTCAGATGATAAGTTGACCTGTCATCTGTCATCTTAATAGAATTCTACTTGTGTTTGTTTCATGGCTTCTGCATGTACCAGCCG
CAGGGATGTATACCAAGGGGAATTGGGTCAGAGAGACTGACTTTGGGGTCTTTTACTTAGAAAGGGAGTAGGATATAGACCCATATGTCCTTGA
TTCCCAAGGCTGAGCACTTAAAAAAAGCGCTGACTGTGTCAACCCCCTATGCCTTGTGGTGCCTGGGCTATCCTGGAGCCCTGGTGTACCTGGC
TGGACCCTAGACCCTGGAGTGCTGCTGGCTGCCTGCATGGCCTTCTCTCCACAGGTGGGTGAGGGAGAGAAGGCAGGTTGCCTTGAGTCAACCA
CAGCCTCCCCAGCCTTATAGAAGGCTGTGCTGCTGCTGGTGGCCCAGCTTCCAGAGGGTTTTAAAATAGAAGCAGAGCCTGGAAAGCCAGACTG
TCCCCCTGTGAGACTCTGTGGAGGGGGAGGGGAAGGCAGCTGCTTTGGGAACTCAGCCTGCTTCCAGAGCAGAGGCCACTGCCTTGCCAGATGT
GTGTGTGTCTGTGTGTGCCTGTGTTTATGTCTGTCTGTGGTGCAGGGAAGCTCCTGAACTGAGCCTGCTTTCTGCTGAGAGGTTGATTTTTGCC
CCTGGTCCCTAGCGTTGGAGAAGTGGTTGATTTTGCTGTAATCTATCATGACCTCTTTTTTATTTGTTATTTTAATTTTTAGATATATTTATTC
ATTTTATGTATATGAGTACAGTGTAGCTGCCTTTAGACGTACCAGAAGAGGGAATTGTATACATTACAAATGGTTGTGAGCCACCATGTGGTTG
CTGGGAGTTGAACTCAGGACCTCTGGAAGAGCAGTCACTGCTCTTAACCTCTGAGCCATCCCTCCAGCCCCCAACCTCTTGATTTCTTTATATG
TATAAGGGTTTTCCCTGTACATATGTATGCATATCATGCTCATGTAGTACCCACAGAGTCCAGAAGAAAGCGTCCATCAGATCCCCTTTAACTG
GAGTTAGAGAATATTTTGAGCCCCTGTGTGGATACAGGGAAGCAAACCTGGGTCCTCTGCAAAAGCAGCCAGTGCTCTTAATGGCTCAACCGTC
TCTCCATTCCCTTGATACCTCTTTTGTTTGTGGGTCAATTTTTTGCCCTGGCAAACCATCCAAAACTGTTGGAGAAAGAGCAGAGCCAAAAGTT
TTCCCATGATTCCCTAACCTGGGATGGTGATGGTAACATTTGGTGGCTTTGGCTCCTGACAGTAGCTATGTACTGTTAACCGGTTATTCATGCA
GCGTAATAAGGAAGTCACTTGCGGGTGTACTTGAGAAAGGGTGGGCTCTGGGTCACACCCAGGGGCTCTTCTGCCAAGTTGATGACTCCTCCAT
CATCATCTGTAGTTCCCTGGATGGTCTGAGAGATGCCACCGTAGGTGGCTCCTGATTTTTGGGAAGCTGATCTTGTTTCCCCTTTGCTTTTGGA
GATGGGGGTCTGAGCTCACTGCGTGTTTCCAGTGTTGAGGAGACTCTACTTCCTGGTTAGGCGTGAGACCTGTGTTAGCCTGTGTTAGCTTGGG
GTTCTGGTGGGTGCACAGTGCCGAGTGAGGCTAGTCTTTTTTTGTAGTCCATTGCCACCCTCCCTCAGGCTGCTTGATAGCTGCCCTGGCAGTT
TTTATACACATTGAAGATAAGGAGCTTTGCCCTGTTCTTTGCCTTCTGGGCGGAGTGGCCCAGATGTTGGTGGCTGCTCGGGAGAGGAATATGC
CCCCATAGGCCTTGCCCAGTGATAGGGCTACTGTCTCAGTTTGAATCAGTCCTTAGAACCAGTATGAACACTGTCCAGACAACTTTTCCTTCCT
GTATCTTAAAATATTACTCTTATGTCAATGGGTGTTTTGTCTGCTTGTGTGTATATATACTATACCATGTGCATGTCTGGTGTCCTCAAAGGGG
ATTGAACCTCCAGGAACAGGAGTTACAGATGGTTGTCAGCCACCACATAGGTACTGGGAATTGAACCCTGGCCCTCTGGAAAAGCAGCTATTGC
TTTAAACCAACTACCATTTCTCCAGTTCTTTCTCTTAAAAAATACTTTATGTGTACGTATGTGTACTACATGTGTGCAGTGCCCGAGAAGCCAG
AGGAGTGCGTTGCAGCTCCTGGAGCTGGAAACCCAACCCTGATCCTGAGAAGAGTGGGCAGTGCCCTTAGCCTCGGAGCCATCTCTCCAGCCCT
TTGGTGTCTTGACTGTGATGACATGTTGGAAGGTTGCTGACTTCCAATGTTTTCTGCTCTTCACAACACTATTTCAATAATGAAGTAGAATAAA
AAATGGAAACCACATCTGAATTCCGCATCTACTTTTCCCAAACCACATTTCTCCCTGAGGCAGCCATCCTGCCCAGATGGGGCCCCTCTTTCCT
GATTTCTCCCACTCACTCACAAGTTCCTGAATTGATAAAGGACCCACTAATTATGCAGAATTAGAAATTTCCCTGGCATGTTCTTTTCTTTTCT
CTCCTTTTCTTTTCTTTCTTTTTAAAAATATTTATTTTTACTTTTTTAAAAAAAATTAGGTACTTTCTTCATTCACATCTCCAGTGCTATCCCA
AAAGTCCCCACCCCCACCCTCACCCCCACTTCCCGGCCCTGGCGTTCCCCTGCACTGAGGCATATAAAGTCTGCACGACCAATGGGCCTCTCTT
TCCACTGATGGCCTTATGTTCACTTTTTGAGGCAGTGTCTCATTATGCAGCTCTGGCTGGCCTTGAACTCAGAGATCTGCCCGCCTCTGCCTCA
TGGGAGTTGGGGTTTTAAAGGCCCGCACCACAACACCCAGCTTGGCTTTCTCTTTTCATTAGGTGGTACATAATGTTCTATGTTCTCACATATA
AATTCACCACTGTTAATTAATTGTGTTGAGATAGACTCAAAACCCAGGCTATTCGTCCCCTGTATGACCAACAATAACCTTGAACTTTTGGTCC
TCCAGCCTCATCCTAAGCGCTGGAATTACAAGTTTTCTGCCCCCGTATCCATCTCCCCTCATTGCTTTTGATGACTCTTTGGTGATCCTTAAT
TTGTTACTATCGTACTTTTTTTGGTTATGTCATTTTTCTAATGATGGGCATATTGGTCACATCTAGGTTTGTGTGACACAGGCAATGGGGTAGA
GAATATGTTCTGTAGGTATTTTGGTGCCTAGAACACTTAGTGCGTGGGGTTCCTGGAGTAAGATTAATGCTGAGTTAATTGTTTATCAATTATT
CTCTAAAAAAAGTGGACTGTATTCACATTCCGTTTCCTGACATTTTTCCATTCTTGGGGTCGTCAGTGTACAGCAGCTCCTGGAATAAAACCCA
TAGCTGGTTTTAAGGCCTGAAGCACCCAGGATACCCCCTGAGAGGTCCCTCACCCTGGCCTCAGCTCTTTCCTAGGGGGCTTGCTGCTCTGGGG
ACTCCTGGTCTGGTCTGCTCTGCTCCGCGCTGGCTTGCCAGCTGCCTCTGGGGGGGTGGGGGTGGGGGTAGGGGAAGCGCCCACTTCCTGGTTA
CATTGTAATTTACTTGTTCCTATTGTCAGACACCAAGTTTCTACTTTCCTCTTTTTGTTACAATGATACTTTTTCTTTCTTTCTTTCTTTTTTT
TAACTGAGTCGGGCTCTGGCCTGAGTCCTGGTTCATCTAGAACTCACCTTCTGGACTATCCCTGTTTGTTTTTCATCCTTTTTTTTTCTCTCTC
TTAAATTTTATGTATATGAACGTTTTGTATGTGTGTACACCTGTGAGCCACCATGTTGGCTGATTCTAATGAAAGAACAGCAAGTGCTCCTCCC
TCACCTCTGAGTCATCTCTCTAGCTCCTCCTCTCCACTGTTTGTTTTTTTTTTTTTTTTTTTTTTTTTGAGACAAGAGTCTTATGTCGCATAGGC
TGGCTTCGAACTCACTATGTAGCCAGTGATGACTTAGAACTTCTGGTCTTCTTGCCTCTCTCTCCTGCAGGCTGGGATTATTGTCATATGCTAC
CAAGCCTGGTTTATGCAATGCAGTGATAGTACTCAGGGCTCTGTGCATGCTAAGCAAGCATTATACCAACGGAGACTCATCCCACCCCTTAAGC
TCGTCTCTGGCCTCAGCCTCTGAAACTGCGGCAGCAAAAAGCACGAAGCACACCCGGCTTGCGGTGATGCTTTGGGAGGGCTGATGAGGTAGCT
CAGCAGTTAAAGGCACTTGCTGCCAGGTCTGAAGACACAGTTTCAGTTCTCAGAAGCTATATGGTGGAAGGAGAGAACTAACTCCTAAGGTGTC
CTCTGACCCTCACAGGTGCACCACGGTACACACAGGCTCACTAAATACACGTAATTAAAGATATAAGATGTGTTACTCACTGCATAGTAACTCA
CGAATGCCCATCATGTGCTGGGCCTTGACTTCTTTATAGACATTTGGGTAAACATATGCTTGACGGGCTCCGAGGAGCTTTGAGTTCAGGGGGT
GTATGGTGGGAGGAGGGGTAGAGGGTGGGAGCACGGTGAGTGAGCAGCTGTCACTGCCATGTAGTTGATGAGTCAGGAAGATGTTGTCCTCCCT
AGGCCCCAAGATGGAAGTTACGTAAGTGGGTTGTGTGAACTGCTAGGTGATACACAATCCTTCCCTCTGCTTCCAGTATGGCTGGGTATCCATT
CCTTAGGCTGGAGTGGCGTTTGCATAATTTGTTCAAGGTCAGCCAGGGAAGGCTTGGGTTGGTAGGCTGGCAGACAGGGGGGCAGGGGAGTCGG
GGAGGAGCAGGTGTCCCCCGAGCCCCCCCCCCCCCCATTGAAGGCAGTATGGTGGAATAGAAAGAAAGGGAGCCTCACTGAGCCTGGCCCCTAC
CCTGAGCTCAGAAGTTCCGACTCACTCCCTGGTTGATAATCTCCTTAGAGCTGATGCAGTAGCTGGTGTTTGCTGTGGGTAGTGGTTTTTTTTT
TTTTTTGTTTTTTTTTTTTTTCCTCTTTTGACAGGTGGCTTTCCATGCTGGGTTTGAGGATTAGTGTCAACAGACTGCATTTGGGGAACACTAAAT
AATGAATGTTCTGTCTTTTCCTCAAGGTGGGATCTGGTCTAGATGCCTGCAGGGTAGGGGCTCTGGGGGGCTGTCTTTTCTGTGAGGTCAGAGA
AGAGTAGCAGGAAAGACCTGGCTTCTGATAGGCTCAGGTAGACACAGGAAGATCAGAAGTTCAAGGCCATTCCTGTCTGCATAGTGAGTTGGAG
GCTCGATTGGGCTACATAGGACCCTGCCTCAAAAGGAAAAAAAAGAGGCAGGTGTGTAGGCACACTTTCAAGGTTAGCTCAGGGGTTAAGTAAG
AGCACTGTATTTTTGTTGTTGTTGTTGTTGTTTGTTTGTTTTTTTAAACTTTGGACCTGCAGTTTTGTTCCCATGACTACCTTTAACTCC
AGCTCCAGGGGATCTGGTGCCTCCTTCTGGTCTTTACAGGCACCTGCACACAAGTGGCACACACAGATATATATTTATATACACAAAAATAAAA
TGAAATCTTAAATATTGGTTAGAGTGTGTGCATGGGCGCTTTAGTGTTCTTGGATGCTGCAGATGGGCCCGCTCCCCCTCTGATCCTTCCTCTA
GGGGAGAGACAGCTCTGTCTGTAGATGTTTCTTTTTGTTTGCTTTGTTCTGTTAGGGGTTTTCAGGTTTATTTGATTTTATGTGTAGAAGTGTT

TTTGTGTGTGTGCGCGCGCTGGGTCCCCTAGAACTGGAAGTCATGGACAGTTGTGAGCCACTGTGTGGGTGCTGGGAATTGACCCCTGGTCTTC
TACAAGAGCAACAAGAAGTCTTAGCCAGGGAGCCATCTCTCTTGTTTTTGTACTTTCACGGATGGCTCTTAATCCAGCAGAGATGGAGAATGTT
CTGGGCTCTCTGCCAAGATTTTCTTCTGCAGGTCTGCTGGGCTGGGCTGCCTTTCAGCCCAGGATTGCTTGGGGGTGACTTTTCTTAGGGGAAG
GGCTAGGCCCATCTGGCCTGAGGGGGAAGGGGAAGAGGGGAGTCCCCAGCTCTGGAAGAGCGGGTGGGGCAGTATTGGGTATATCTCTGCCCTC
TCTTTTGACCTGACCTTAATGTGGGCTGGTCTGCCTACATTAGGTTCCAGCCTGTTGGTGGGCGAGAGGTAAGAGCCGCAGCAACACAAAGAAG
GCTCGAGCAGTCTCTGAAGATGTGAACCATGGCCTGGGCCGCAGATTCCATTCACAGTGGAGGCTATGGCTGTTTCTTCTGTAGTGTTTATTGG
GTTTGGCCGTAGGCTGTCTTTAGTTATTTACTGAAGGATTGGTTTATTATGTGGAGGTAACTTTTGGGAGTCCCGTTGCATCCTGCAGGTTCCA
GCTGTGCCAGCAGGCACCTTCACCTGCTGGATTACCTTGCAGGTCCTGCTGTGAGCTCTTTGTGGTGTCCTTGATTCAGGTGTTGGTCAGTTGA
TATTGTTTCCCTGGAATCATTTGAAATCTTCAGTGGGCGCCCACTCGCCAGGAATATACCATAGTATATTCGTGTTTGTGAATGGGTACATGTG
TCATGTCAGATGTCGCCTATGCAGATCCAGTTTGATAAATTAGGTGTACAGTTTTTGTTGTTGTTGTTTGTTTCTTCATTTGTCTCCTCACCTC
TGAGACAAGGTTTCTTTGCATAACAGACCTGGCTGTCCTGGAATTCACTTTGTAGACCAGGCTGGCCTCAAACTCACAGAGATCCCACCTATCTC
TGCCTCTTGAGGAGCTAGGATCAAAGGTGTGTGTCACCCTCACCTGGTAGGTGTGCAGTATTTTAAATGAAGGGAACCAGCTGAGGATGTAGCT
CCACTGGCAGAGTGCCTGCCTGGGGACTTGAAGTCCTAAATTTGATCCCAGCAGTGCAGAAACTAGATGTGGTGATGATGCCTGCAATTTCAGC
AGTTGAGGGATGGAGGATTAGAAATTCAAAGTCATCCTTGGCTACATAGAAAGTTCCAGGCCATCCTGGACTACATGAGATCTTGTGTGTGTGT
GTGTGGGGGGGGGTTGTGTGGTGGGAATGGAACCACTCTTCTGGTTAGTGACATTATGGTTCTGGGATGGGACTCTTGTCACTCATGGGTCCTT
CTCTTCAGGACAGAAGTCACAGTGTGTGCTGTCCCAGAGCAAGGTTTAATTTTTTCTACACAGCTTGTCAACATAAAACCTTCCAGGAATATAA
TGTCACAGAGACCATTAGAGTTATTCTCTTTCCCTGACCACTGTGATATTTAACTAATATTTGCTCACTAACTTAATTATGTGTGACAACTAAG
TCCTGCTTCTGACCTCCTAGGGTCCCAGCACCCATGTGTGTGTGTATTCACTCATAGATACGTAAATAAAAGAGATGATAGCACTTTTGATGGA
ACCTGGAGCCTTTCATATGCTAAGCAGATGTGCTACCCTGCACTCTAGTCTCAGCTCCCTGGAGAGTATTTTTTTTTAAGATTTATTTTATTTA
TATGAGTACATTATAGCTGTCTTCAGACACACCAGAAGAGGGCATCAGATCCCATTACAGATGGTTGTGAGCTGCCATGTTGGTTTGCTGGGAA
TTGAACTCAGGACCTCTGGAAGAGCAGTCAGTGCTCTTAACCGCTGAGCCATCTCTGCAGCCCCCAAGTAGTATTTTATGTGCATTTGGGTGTT
TTGCCTGCATGTGTGAGGCTGTTGGATTCCCTGAAACTGCTGTTGCAGACAATTGAGACCTGTCCTATTTGAGTGCTGGGAATTGAACCCAGCT
CCTGGANNNNNNNNNNNNNNNNNNNNNTGGCTCACATACATACATGTGTGAACGTGGTTCACATATATACATGCGGAAACACATAAGGTGAAAAA
GAAGGGGCTGGAGAGATGGCTTGGTGGTTGAGAGTACTGCTGCTCTTCTGGAGGTCCTGGGTTTGATTCCCAGCACCCATGTGGCAGCTGAGGT
TGTCTGTTACCCCAGTTCCAGGACATCCAACACCCTCACACAGATGTGTGCAAAACATCAATGCACATAAAATCAAAAGAAATCATTAAAGAAA
AAGCCAGGCAGTGGTGGCACGTGCCTTTGATCCCAGCACTTGGGTGGGCTTGTGGGAGTGACAGGTGGATATTTGTGAGTTCGAGGCCAGCCTG
GTCTACAGAGCAAGTTCCAGGACAGCTAGGTCTACACAAAGAAACCCTGTCTAAAAACAAAAATCAAATCAAAACAAAACAACAGCCCCCCCAA
CCCAATATTTAAAATTGTTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTCTGTGCTCGTGCACATATGCACACGTACATGGG
CACATGCATATAGAGGCCAGAGGACAACTTGCTGGGGGAACTATATCATTTTCTCAGGGATTGAACTCAGGGAGCCTGGCTTGGTAACAAGTGG
CAAAAGAGCCACTGAGCCCTCTTGCTGGTCCCTTCTTTTGTATCCTTGTAGTTTGTTTCTTTCTCTCTCTCTCTCTCTCTCTCTCCCTCCCT
CCCTCCCTCCCTTCCCTCCCTTCCTTCCTTCCTTCCTTTCTTTTTTTTCTTTTTTTGAGACAGGGTTTCTCTGTGTAGCCCTGGCTTTCCT
GGAAGTCACTCTGTAGACCAGGCTGGCCTCGAACTCAGAAATTCGCCTGCCTCTGCCTCCCAAGTGCTGGGATTAAAGGCGTGTGCCACCAGGC
CCGGCTATGATACCCTTCTTTTGTAGCATGTTGTTGGACTTCATTTCCTGTGAGGAGATACTTAGCTAGCTTGTCATGCTGTAAAGAAAGTTTT
GTGGAGCTGGGCTTGCAGCTCTGATACTTGTTGAAGGAATGAAATCAGAACCATGTGAAAGATACATCGATTGCCATGGGAAGCTTCAATTTAT
CCGTGTGCAGTTACCAGCTGGGCGGCCGGCATTTTGTAATTACTGGCAAGAGTTCTGCGGTTCAGTATAGTGGCTGACTCCTGGGAATATGTCT
TGGATGGTTCATTCATTCATCAAATATTGACTGACTCCTTGTGCTCTGGGTCGGTGCTTGGGCCTGGCGTTGCTACAGTCAAAAGCAATCACTA
AGTGTCCCCAGCTCTAGCCTCAGGGGAAGGGTGAGACAACTCAGGGCACACCCACATCTGGCACACCCACATCTGGATGCCTGAGACTTAGAGC
TGAGTGATTTTTATTGGTTGTTTAATTATATCAAATAAGTTTTATTGGTGGTAAACTAATTTCCATAATTACCTATGTGTTCATTCTTTCTCGT
GCTTTTGTTGTGGCAGAACATGGCCGTGCCTCCCACATACGCCGATCTTGGCAAGTCCGCCAGGGATGTCTTCACCAAGGGCTACGGTGAGTGT
CGGAGGAGTCGGGAGCAATGGGAAGCCTTTCACCTACTAAGGGAGTTGGCATCTTTGTGACACTTGAGGTGGTCAGTTCCCAGCTGACAACTTA
TATGTCCAGACAAAAGGATGAGCTTCCTGTGGCTGTGCGCCACCCAGTGGTGAGGCTCAGGCATCACAGGGGCAAATGGCAGATCTAGTCCCTT
GCAAGCTCCAGCGTCTGCCCCAGTAGAACACTGTTCTAAATTTACCCTGATGGTCCCACCTCTGATGACTGCCTCTGCCAGCTGCTGGAACCTG
CCCCACAGNNNNNNNNNNNNNNNNNNNNCTGCAAGGGCACAGGTCAGGCCTGTGTTTGTGTCTGCCACTGTTGCCCTGGCTTCCTTTAAGTATT
TTCAGATAGCTAGGAGGAAAACAGTGGTGTCCTAGCTTCAAGCTATTATTTTGATTATTTTTTTTTTCCTCAGTGCTGGGGTCAAACCTTTAG
CTTGCTAGCAAACATTCTGTGGCTGAGATACACCTCCAACTCCTGGCTTAATTAGTTAACCTGATTTTGGCTGTTTTTCCTTCTTTAGGCTTTG
GCTTAATAAAACTTGATTTGAAAACGAAGTCAGAGAATGGATTGGTAAGTCTCTCCACTTGCACGGGACGTTATATTGTCCCTTACCAGGAGTG
GGTACTGTGGCCCGGGTGGCAGAGCCAAAAACAGTTGCCTGCTTGGATTGTGGCTGTTAGTGCTTGTCATCGAAGCGCTGTTCCATAGGTGGTC
TGGGACTATAGTAGCTTTTAATGCTTTTTTTACCAGTTATTTTATGTTGTTTGAAATCAAAACTTCTGGCCTAATGTACTGTAGGTGTGTGCTG
TACCCACTGATCTACCCTGATCCATCCTTGATGCTTCTTATTTTAAATTTGACCTCTCCTTCCCCCGCCCCCCTCTTATTTTGAGGTAGAGTCT
TACTGTGTAGTAGCTCAGGCTGGCTTCAAGTCACAGAAACTCTCCTGCCTTAGTCTCTCATGTGCTTGGAGTATAAGATGTGAGCCATTACACC
TAGCTTTGACCTAGGTTGTTTTGTTTCTTTATTTAAAGACTTAATTTATTTCTGTGCATGTGTGCGTGCCTGCAGGAGTTTGTGCACCATATGC
ATGCAGGAACCTGGGGAGGCCAAAGGAGGGCATTAGATTCCCTGGACTGGAATTACTTTTATAGGCCATTGTGAGCTGCACAGTGGGTGCTAGG
ACTCGAACCCAGGTCCTCTATAAGAGCAGTAAGTGAGTGCTCTTAATTGCTGAACCATCTCTTCAGCCCCGCTGACCTGTTTTTTTTGTTTTTT
GTTTTTTGTTTTTTTTTGTTTTTGTTTTTTCGAAACAGGGTTTCTCTGTGTAGCCCTGGCTGTCCTGGAACTCTCTCTGTAGACCAGGCTAGCC
TCGAACTCAGAAATCCGCCTGCCTCTGCCTCCCAAGTGCTGGCATTAAAGGCGCGCGCCACTACCGCCTGGCTTTTTTTTTTGTTTTTTTTTAC
TTATTCATTTATCTTTATTTTTTTGAGACATTGTCTATCCACATGGCCCTGGTTGCTCTAGAACTCACTCTGTAGACTAGGCTGGCCTTGAACA
CACAGAGCTCCACCTGTCTCTGCCTGAGTGCTGGGATTAAAGGTGTATGGCACCACCTATGTTTGTAATGTTTCATTATTATTTAGGAAACATT
TCTGGTGTTGATTGATACAGATACAGGTATCTGTAGCAATTGTTGGAGGGAAGGGGTGTGTTGCTCTGTCAGTAGTAGCTCCCTCTGAGGCTGG
AGGCAACATGGAAGCTGGGTGGTTTCCTGTTCAGACTTTAGGGCCCCCAAGGGAAGAAGGAAGCTGTCTTCCAACAAAGACCTTTCCAGTAGGT
TTCCTTGGGTAGCAGACCTCTCACTCCTCTGTATTTCCAGTATGTAATTGAACTGTAGAAGTAGTTCTGCCTGGACACGTTGGGGACTCTCTGT
TGCTTAAGGGCCTGGACCAAGGGCAGACTGGACTGTAGGCTAAGGTCTCTATCTCTCTCTCCTTTAAGGAATTTACCAGCTCAGGCTCTGCCAA
CACGGAAACCACCAAAGTGAACGGCAGCCTGGAAACCAAGTACAGATGGACTGAGTATGGGCTGACGTTTACAGAGAAGTGGAACACAGACAAC
ACCCTGGGCACTGAGATCACTGTGGAAGACCAGGTAAGAGCTCCCTGCCTGCTGGAAGTCCTGGCTCCCTCTAGTTCCCATTGAGACATCCTGGG
TCCTGTCTTTGGTTAACCTGTGCCACCTTTCTCTTATTTGCAGCTTGCTCGTGGACTGAAGCTCACCTTTGATTCGTCATTCTCGCCGAACACT
GGGTAAGGTTCTCCTTACCCACGAGGATATTCTGAGATGTTATGGGCCCTGGAAGTCCATTACAGCAAAGGATTTTTGGGCTGACATCATGCCA
AAGGTAGCCTCTTAGCTGGGAGGCTGGAGGGTGGAAGGAATCGTGTGGTCAGGACCAGCCAGGGGTATGTAGTGAGATTCTACATCAAAGAACA
AAAAACCAACTAGGTAGCAACAACAGTAAGGCTGCCTTGGTCCAAGTGCTACATATTCTGGTCTGTCGTGGTGTTCTATCCAGGACATGAAGAT
ACAACTGTTAAGGGACAATGCTGTAGCAAGCATTTAAAAAAAAAAAAGATTTATTTATTTTATGTATGTGAGTACACTGTAGCTGTGTAGAGAG
TTGTGAGCCATCATGTGGTTGCTGGGAGTTGAACTCAGGACCCCTGCTCGATCTAGCTCTGCTTGCTCCAAGCCCCGCTCGCTCTGACCCAAAG
ATTTATTTATTATTATATGTGAATTACACTGTAGCAGTTTTTAGACACACCAGAAGAGGGTGTCAGATCCCCTTACAGATGGCTGTGAGCCACCA
TGTGGTTGCTGGGATCTGAATCCAGGACCTACAGAAGAGCAGTCAGTGCTTTTAACCGCTGAGCCATCTCTCCAGCCCATTGCAAGCATTCTTA
ATTTAGGAAATGTATTTCTCTAGCAAATGGTTTTGTGTGTTCCTGTGCTCATTTGGAGACTGAAGGTGTCTGAGCTGGGATACTATTTGCCCCA
AGGAACTTCCCTTTTCTTTTTGTCACAGGGTCTCCTATAGCTCAGACTGGCCTTGAACTTATTTTGTAGGCAAGGGTGACATTGAACTTCTGGT

CCTCCTGCTTCTGTCTCTTAAGTCCTGGGATCATGGGCATGTGGTCCCATACCCACTTATGGGGTGGTAAGGATGGAAGCCAGGGCTTATGCAG
TCCATTTGTGACGTATGCTACGTCTACACCGAGCTGTGTCTCCAGGGTTAAGGATTGTCCTTGGTAGTGGAGGACTCAGGCCAGTGTTTACTGC
TAAGATCCCACAAAGCCACTGTGTGCCTGGCTGCAGGCCACGGGCTCTCTGTCCCAGCTGATCTGTTTCACATAAGGATGCCAGTCAATGAAAG
TGGCCAAGGCTGAAGGGCAGAGGTGACATTTGGAATCAGGGGCTGACTGGTCACTGTTGCCAGCCTATTTTGTACATGTGGAGGGCTCTTCTCC
CAGTTTTCTGAGACCCTGAGATCCTGAGAGCTTAACCACAAGGTGGCTCCTGGGGCTGCCAGGTCCTCCGGCCAGAAATAGTTTAGGCTTGTTG
GTTATTGACACATCAGAGGACAAAGAGAGCAAGCTGGTCTGCCTCTCCTGAGTGCTCCACAGGGCAAAGAAGGAACTCTTCTTTGAGTTCAGGC
TTTTACTAAGTTTCAAGCTTTGAGTTTTTGATTTGGCAGGTGTTTTGCTTGTTTGATTTCTTTTTTGTTTGTTCCCTTTTTTTTTTTTTTTT
TTTTTNNNNNNNNNNNNNNNNNNNNATAAATATTGGTAGTTGACATAAATCCTTGCTGAGGGACAGTGGGTCTTGAGAAACAGCTGACAGACAC
TGAACTAACTGGGCTTCGATTTAAATGTGGGCTGGACCTGAGACCTGAAGGACTCAGGGTCCTCATCAGTATCCAGAACTCTTGAGTTGTGAAC
TCAGTGGGGTCTCACGACTATGGTGGCAAAAGGTCTCCTAGCATAGTCACTAGGCAAGGGAAAGACCCATTGTTTATTTTATGTGTATATTCCT
GAGTGTATGACTATGTATCACATGTGAGGGGGAGGGGGAGGGGGGACCTGAAGGTGTCGGATGCCCAGGAACTGGAGTTACAGGTAGCTGGGAG
CTGCCAGTGTGAATGCTTGAAACTGAATCTCAGTCTTCTGCACTCTTAACTCTGAGCCTGATCTCCAGCCCCGGGGTCCGCTCTTTCCAGCCTG
ATCTCCAGCCCCGGGGTCCGCTCTTTCCTTTTTCGCTGGCTACTGGGTGAACCACAAAGATGACCATCTCCCTCAAACTGCTGTGTGGGTAGCT
TTGAGGTACATGCTTCTTTTCTTTTTTTTTAAAGATTTATTTATTATTATATGTAAGTACACTGTAGCTGTCTTCAGACACTCCAGAAGAGGGA
GTCAGATCTCGTTACGGATGGTTGTTAGCCACCATGTGGTTGCTGGGATTTGAACTCTGGACCTTCGGAAGAGCAGTCGAGTGCTCTTACCCAC
TGAGCCATCTCACCAGCCCCACATGCTTCTTTTCTGTAGGTTTGGAAAACAGCTGAGAGGCCTAATAGATGCCTGTGTCAGGTTTTGGGTTAGC
CGTGGGGAGAGGCTGGAAAAAGAACATGGTTGGCACTCACTTTTTGATCTCTTCCCATGGTGTACACAGTGCTGATGCGGCCTTTTTCAGACCG
AATTTGAGCTCAGGAGAAGTTGTGTCCTGTTGGTGGCTTAGCAGGTGTTTAGGGACAACTGGCCACTGACCTCACTTCTATTTCCTGGCTTCTA
CACAAACTGGGAACAGGCAAAATGTTTACCGTTCTTGCATGATTGTATCGAGATGAGTTAGCTCGGCTTTAATACACTCTTCCTTTTCCCTTTA
GGAAAAAAAATGCTAAAATCAAGACAGGGTACAAGAGGGAGCACATCAACCTCGGCTGTGACGTGGACTTTGACATCGCTGGGCCCTCGATCCG
GGGCGCTCTGGTGCTTGGCTATGAGGGTTGGCTGGCTGGCTACCAGATGAATTTTGAGACCTCGAAGTCCCGAGTGACCCAGAGCAACTTCGCA
GTTGGCTATAAGACGGATGAATTCCAGCTTCATACTAATGTGTAAGTGTATGTGGGGGGTTGTTTTAGTTGCTTTCCTGTTGCTGTGACAGAAT
ACCACGACCAAGGCAACCCGTGAAAGAAAGTGTTTGGTTAGACCCACCGTTTTAGTGTGTTACAGTCTATGAGGGCAGCAGGAACNNNNNNNNN
NNNNNNNNNNNCCCACCTTTTGGCATCCATGGTTCAGCGGCATGTGCGTTTTTATCTTTTGTGATTCTGGGCTTTTTTTTTTTTTTCTTTTCT
TTTTTTATTGCCCACCTAAGCCTCTTCAGTGCTGGGATTAAAGGTATGAGCTGCCATGTGGGTGCTTGGAACTGAACCTTGGTTCTCTGCAAGA
GCAGCAAGTGCTATCAACTGTTGAGTCATCTCTCCAGCCCCCTGAATTTAACCTTTTCTTTTGAAATAGTTTTAAAGTTTTTTTATAGGGAACT
GTGATACAAGCAGTATGTAGAGCTCTCCTCTACTTCTCCCCTACCTCCCTCTGATGTTGAAGTTTTCTATCTGCCATCACATTATAACATACTA
TATAATATACAGCTATTCATTACATAATAATATTTCAGTCAAGCACCTATAGGACTGTGGCCTCTGAGATTATTACAGAGCTGAAAAATTCCTG
TTGCTTATTGCCATCAAAACACAGTGCATTTATTGAGTCTGTCAAAATTGACATGAACACCACCCACTCTGTTATCTCCCCATAAATGTGGAGC
AGGTATAATTTTGCTCATGTAACAGTATTTGGACCCAGTGTGTGCCTCTCTTGTGGACTCACTCCCTGTGTTCTTACCATTAGAGCATGTTTTT
TTTTTTTGTTTTTTTTTTTTTATATAAAATATTTACTGTGAACCCACGTGCTATGTTACGTGGGGGTGCCTTGGACATCTGTCTCTTGGGTACATG
AGGAGGTCATGGTTGAGTGGTTAATCATGGTCATCTAGGTTTCTGTAAGTGCACCCTGTGATGTTTGCTTAATGACCAAATGGCCCAACGATGC
AATTTTCAGAATGTGTCCCTGTCATTAAGCAATTGTGACTAACAAAGATCCATGCCATCAAGTGACCATTGGTACCACACTATTAACTGATGTC
CTGCTGATATCATCTCTCTGGCCTGGAACCTAGTTCTGGATCCTCTATTGCATCAAGCTCTCAGGTCTCCTTTGTGGCCTCTCCCTGGGACACA
CTCTCCATCTTTCTCTGTCTCTCTCGACCCTGACATTTTTGAAGAATTGCTGAGAGCTCTTTGCAGAGTGTCCTTCTGTTTGGATTGGTCTGA
TATTTCCTCCTGAGTGTATTCAGTTGCATCTTTTTGGCAGCTGAGGAAGCGGCACCTCAGTGTGCTGTCTGGAAGGCCACTATTGTGTGTCTTG
GCCTGTGATACCAACCCTGATTATGCGGCTAAGGTGGCATCTGCTGGATCTCCGCTGTAAAGCTGTCAGTTTCCAGCTTTGTGCTTAGTAGCTG
TGTTACGGGGAGATACTGAGACTGCAAATATTCTCTCTCATCACACTTTGGGTTACATGGAAGCATCCTTTGATGCTTGCCTGTGCAATTATTG
GTAGGTGTTCCCTTCCTTCTTTTCTTGTTTCTTGAGACAGGGTTTCGTTCTGTGTAGCCCTGGCTCGATCTGTAGACCAGGCTGGCCTCGAACT
CAGTGATCCTCTTGCCTCTGCCTCCCAAGTGCTGGGATTAAAGGTGTGAGTCACCAGGGGAGCCATCATTCCTTTCTTACTTATGGGCTTTTAC
TGTAGGGAAGGGCAGTCCTACTCCTCCCTTAACCAGTTTTAGTTTTTATTTTGATGTATTATCTTTATATTTTGTCTATATATGTGCTTTGTCT
ACATATGTGTGTATGTATGTATGTATGTATACCGCTTATGTGCCTGATGCCTGTGAAGGTCAGAGGATGAGNNNNNNNNNNNNNNNNNNNTTA
GCTCGGCTTTAATACACTCTTCCTTTTCCCTTTAGGTAAAAAAAATGCTAAAATCAAGACAGGGTACAAGAGGGAGCACATCAACCTCGGCTGT
GACGTGGACTTTGACATCGCTGGGCCCTCGATCCGGGGCGCTCTGGTGCTTGGCTATGAGGGTTGGCTGGCTGGCTACCAGATGAATTTTGAGA
CCTCGAAGTCCCGAGTGACCCAGAGCAACTTCGCAGTTGGCTATAAGACGGATGAATTCCAGCTTCATACTAATGTGTAAGTGTATGTGGGGGG
TTGTTTTAGTTGCTTTCCTGTTGCTGTGACAGAATACCACGACCAAGGCAACCCGTGAAAGAAAGTGTTTGGTTAGACCCACCGTTTTAGTGTG
TTACAGTCTATGAGGGCAGCAGGAACCACTGAGAGCTCCCATTTTGATCCACAACCACAGGGCAGGCAGAAAGAGGGAACAGTGGGGGTGGTGG
GAGACTTGTGAAACCTTCTCCAGCAAGGCCACACTTCCTAATCCTTCCCAAACAGTTTGACCAACTGAAGACCAAGTATTCAAGTGCAGGCCAT
GAGTGTTTATGTGTGTGGCTAGGGTGGTGGCTTTTCTTTTCCTAAGTTTGGTTTTCAGTCATTTGGGTCAATGGGCCCCACGGCCTGTGAGCAT
TTTTGTTTCCCGTCACACTGAGGATAATCAGGCACTCATTCTCTCCATTAACTCGGTTAACAGCTTGCTGGACAGTGGGGTGCTGGGTGAAGGG
CTGGCCTATAGGTTGGGGAGAGTCTGTGCGTGGTCTTGGAGGTTGAAGGACATTGATGACATGAGGTAACAATTTTAGTCATAAAGACAATCTG
ATTTGGGGCCGGAGGAAAGCTCAGCAGATGAGAACACTTGCTGAGAGGATAAACAGTTTGGATCCCAGCATTCCTGTCATGCATGGCTCACAAC
TCCCAGAAACTCTAGCTCCAGGGGGTCCATTGCTCTCCTCTGGGATTGGAAGGGGACATCCCCCCAGGCCCATACATATAAAACTTTTTTTTT
TTTTTGAAAAGTAACTTTACTTGGGTTAATTCGATGAAGTACTAACCTGTTCTTTCCACTAGAGGGCGCTAAGTAAATAGCTTCTTAAATTCAG
ACCAATAATGGTATTAGTCTAAACAAATACTTTTTCCATTAATAACAATTAAAAACATGTATATGTATGTATGTGTGTGTGGGGTCTGTCTG
TCTGCTTGTCTGTCTTTCTGTCTGAACTCCTATGCCTCAGTGTAGGTGTGGAGGTTACATAACAACTTTCAGGGAGTCTGTTGTCTTCTTCCTC
ATCCAAACCACAGTGCTTGCCTTCCAAGGAAAGTGGCACAGAACTTTCTTGACCATTCTGGCTGTATCAGCTTCCCTCCTACCATCTTTGACAC
AACCATTAACCAAAGTGAATACACAAACACAGTAGACAGCAGAAAACTCTGTAGGAGTCTAATTTTCTAGTTTCTGCTTTCATTTGGAAAAAAC
AAAACAAAACAAAATGGTTTATTTTTGCTCACTGGTGTGTATGTGTGTGTATGTGTGTGTGTGTGTGTATCTGTGTGTGTGTGTGT
CACATGTGTGCAGGTGCCCATGATGGCCAGAGGGGGTTCTGGATGCTCTAGAGCTGAGTTATGGGCAGTTGTGAGCTGCCTGATGTGGGTGCTG
GGAGCTGAATTCAGAGCCTTTGGCAAAGCAGCGAGTACTCTTAACAGCTGGACATCTGTTGCTATGCTTACTCACAGGAATGACGGGACAGAGT
TTGGTGGCTCCATTTACCAGAAGGTGAACAAGAAGTTGGAGACTGCTGTCAATCTCGCCTGGACTGCAGGAAACAGTAACACTCGCTTCGGAAT
AGCAGCCAAGTATCAGGTCGACCCTGATGCCTGCTTTTCGGTGGGTACCCGAGAATCACCCATCTCACACCAATTCTATGCTTCTGCTTAGACA
TTCTCTCACAGGGCAAAGACAAGTCTTGTGTTTGAGATACTTGAGACAGATACTTTTTACAAAGTCTCACTATATGGCCTTGGGTGGTCTGGAA
CTTACTCTGTAGACCTCACAGAGATCCACCTAGTCTGCCTCAGCAGCGCTGGGATTAAAGGTGTGCGCCACGATATTGACCTCCATGGCTTTTT
GTTTTTGTTTTTTGTTTTTTGTTTGGTTTTTTTTTTTTTTTGAGACAGGGTTTCTCTGTGTAGCCCTGGCTGTCCTAGAACTCACTCTATAG
ACTAGAATGGCCTCAAACTCAGAGATCTGCCTGCTTCTGCTTCCTAAATGTTGGGACTAAAGGCATGTCAATTTTGCTTGACACCTGCAGTTTT
TTTTTTAATTTACTTATTATTTATTTATTATATGTAAGTACACTGTAGCTGTCTTCAGACACTCCAGAAGAGGGCATCAGATCTCATTACGGAC
GGGTGGTTGTGAGCCACCATGTGGTTGCTGGGATTTGAACTTTGGACCTTTGGAAGAGCAGTTGGGTGCTCTTACCCCACTGAGCCATCTCACC
AGCCCACCTGCATAGTTTTTATATCTTCAGAATTTTCACACTGGAGACGCTGAACGCTTATGGAGGTCGATTGGGTAGCTTCCTTAAAGGCACA
TAGCAAGTATGTGCTGGGACCTGGCTGTAAGTAGACCGCTCTGCTATTGAGCCTCTCTTACTTAAGTGTTTCACTCTTCCTCTCCTTTCCATTT
GGTTTTCAGTCTCTACATCCACATTAAGACATCAATGGTCAGGATGATGTATTCCAGTGGTAGAGCCCTTGCCCAGCATGTCTGGGCTTCAGCC
ACATTTCTGGGAAGAACCCAAACAAACAGAAACAAGGCTGGGATGTAGCTCAGTTGGTAGAGTGCTTGCTTAGCATACAGAAAGCCTGTGCTCG

GTCCCCAGAACTGCGGAAACAGCAGGCAGAAGGATCAGAAGCAGGCCATTCTTGCCTATGATGTAGCAAGAGTTCAAAGGCAACTTTGGGCTAT
ATAGTGAGATCACATCTCTAAAAGAGACAAAACCAGGTGGCCTCTTGTCTTGCTTACCCCGTGGTACCCATCAGGGTTCCGGAATGGCTCAGGT
TTTGTTGTGAGCCTATTTGAGCTGGCTTGTGTTATCACTCTGTAGGTGGCCACCTTTTTGAGGTGGGCTGAGGAAGTGTCATGCTGCAGAATGC
TTCTGCTGGTTGGTGTGCCTCACAGAGAGTCTATTTTAAGTCTCCTGACCTGGGAACTGAGTGCTCTCAACATGAGGCATGCATATAAAACTGA
AAGACAAAGGCTCTCCTTGTTGGGATGTTGGGAGCATAAAGGAACAGTTAGAAGGGACACGGCCTGCTGAGAGCCCTTCTTCTCCTCGCTCTGT
CCTTCAAAGTTCACAGGAGCAGGAAAGCACACACACTTGCACATGACACATCTCATTGAGTTTTACCAGATGGCCATGAGCAGACAGGAACACA
GTTCTGATACCTGTGACTTGCCTAAGATACTGTCACCAAGTTTGGAGGTACACCTGTGGGACAGTTTTCATGGGTGAGGAACACTGTCTTCCCT
TGGACTTAATCTTTTTTTTTTTTTTTTCCAGGCCAAAGTGAACAACTCTAGCCTGATTGGCTTAGGGTACACTCAGACCCTAAAACCAGGTATGT
GTTGTTGCCCATGTGCAAAGCTCGTTCTCGGTTGCATTTTGCTGATGTCTGCTATTGCTGAGGGACATTATAAACGAGTATATATAAGCTTTTA
TAATTAAATGTTTATAAAGGAAGTTGTGAAGTCATTGTAAAAAGAAAAAGAGAGTCTGAGAAATAGAAAGCAGAAGGAACCTGTCTGGGCTAAC
TCACATCACAGCTCTAGTTATTTTCTCCTTTCCTTTCCCCAGTATGTGATATGTGATAGCTGCTTCCAGACTGTAGTCAAAACTAGCCTGTCAG
TCATCCTCACGATGGAAAGACTAGGGTATAGGGATGTAGTGGGTCTTCTATGCATAGTTATTCCATCCTCTCACTGGTGTGTGAGGGCTGCAGA
AATCCCACTCAAGGCTGACTATGTAATATGAAAATCAAGTTCTTCCAGGGAAAACCATCCCGTTTGATCTAAAATTACAAGTAAGCCCCAGGAA
AAGAAGTTTATTGTTTTTTTTTTTTGTGTGTGTGTGTGTGTGTGTATGCTCACGTGTTATGAAAGTGAATGTAAGACTCAGGCTGTTAC
AAGATAGGGTTTCCCTCCAAGGCAATACTGCTCAAGCAACTTACTGAGTTGGGGCAGCAGCGGATGGCACACTCATTGTAATGGGACTGCAGGA
GGCTGGAAGGGAGGGGGATTCGGAAGTACGTTCCAGCAGGGTCTCTGCTCTGTGTGCCAGTGATGGCCGTTGCATGTGTTGATTCGAGGATAGC
AGCAGGTCAGGTTGTATTACAGAGCACACCTTGAAGGGTCGCCTCGCTTGGCCACTGCTGACTGCACCTGGAACAGATTCTGACCTTGATTCTG
ACCTTGATGCTAACCTCTCTTCTCTTTCCTTTGTCTCTTGCCCCTTTCTCCCTCCTCCGTCCTCTGTCACCCCTCCCTCCCACACCTCTGTCTC
AACTCCCCACAGGTATCAAACTGACGTTGTCAGCCCTGCTCGATGGCAAGAACGTCAATGCGGGTGGCCACAAGCTTGGCCTAGGACTGGAATT
TCAAGCATAAATGAATATTGTANNNNNNNNNNNNNNNNNNNCTGGCCTCGAACTCAGTGATCATCCTGCCTCTGCCTCCCAAGTGCTGGGATT
AAAGGTGTGAGCCACCAGGGAAGCCATCATTCCTTTCTTACTTATGGGCTTTTACTGTAGGGAAGGGCAGTCCTACTCCTCCCTTAACCAGTTT
TAGTTTTTATTTTGATGTATTATCTTTATATTTTGTCTATATATGTGCTTTGTCTACATGTGTGCATGTATGTATGTATACCGCTTATGTGCCT
GGTGCCTGTGAAGGTCAGAGGATGAGCCTATAGTCCCTGGAACTGGAGTTACAGATGTGTGAGCCACCATGTGGGTCCTGGGAATGGAACTCAT
GTTTTCTGCAAGAGCAGCTAGTGGTGCTCTTAACCGCTGAACCATCCATCTCTCCATCCCTTTATTATCTGAAAAAAAAACACATACACATAGA
TATGTATATATGCACACACATAAATACACACACACACATGCAGTTTCTTCTGTGTGTGTGTGTACAGTGTATGTATTGGACATCAGAGAACA
ACTTGGCAGGTTTGGTTTTTTTCCTTTTTCCATGCTAGTCCCAGGGATTCGCTCAGGTCATTAGGTTTGCCTGCAAGCACCTCTACCTCCTGAG
CTATCTTGCCTGCCCCTAATCATTTTTGACTCATGTATAGACTAATGGACATTTATTCAGTTGCATCATTTAGACGGTGGCTCAGGCTGTGACA
GTGTGGCACTCCTTCAGGTTGACATGTGTGGGCTCCTCTCACTGTCTTTGAGGCACCCTGTGTTTCTTGTTTTGGAGTTGTGTGAAGTTCATCT
TAGGGTCTTTCTTCCCTGGTCCTTCTGTCAGCCATTTGTCCTAGGCGCCTTGGCGCCTTATGTTGGGAATGCTGTTTAAAGGCGGTGCTGAGGC
CCTAGGTGTGTTGCAGATGAACTTTGATGACTTTGGCTCGCTGGGAATTAACACTGGCTTTCTGAAACTCTGGTGATACCGGGAAATCACTGAC
CACCCTGAGCCAAATGTAGGCACTACTGGATGGGACCGCAGGGCCTTCCTTACGGATTAGCACCCACCCAGGAGTTGCCTTCTACAGATAGAGC
CTGCTTGCTAACCATCAATCCGTGCTGTGTGTCTCTTGAGTGCTCGTCAAATTAGCACCACTCCTTAAGTAGCTAAAAAAAAATCCCAGCAATT
TGAGACATTTGAGAAAGGAAAATCTCCATAGCTGTGCTCTGGGCAGATCGCAGGGGGAATCTGAGTCACTGCCCCTCCTCTGTCCATTTTCTTG
GGATTCTTGGACCCTTAGCTAGAATCCTATGAGAATTGATGTGGGTGGTACCCACCATTGGTCAGAGGCTCTGCCACAGGCACCACACTTTGTG
GTCAAGGGCAGCTTTTTGCTGGTTTTGTCTTTGAGAGAAGGTCTCCTGTAGTCCAGTCTGGCCTTGAGTTTTTATGTGTCTGAGGCTGGCCTT
GAACTCCTGATCCTCCTGCCTTCATGGCCAGGTGTGTGCCACTCATGTTTTATTGAGACAGGTCTGATTATGTAGCCCAGGCTGACCTCCAAGT
TATGATCCTCTTACCTCTTTGGGAGTTGGCTCCCTCCTCCCTCCATCATGTGGGTCTGGGCGATTGAACTCAAGTTGTTAGGCTTGGTGGCAAG
TGCCAGTACCTTAAGCCATATTACTGGCCCTAAACTAATTTTTTTTGATGTATTTTAGTCTATTGCCAATTCTTGTCTTACCGATGCTAACATT
TCCCCATCTTTGAAGGCCTTGGGTGGAAACCTTATTTTAGCAATTAGATCTGTTGGCCCAATAATTCCTGCTAATCTCTGATAGCTTAAAGAGC
CGCTTCAGGTTTACTTTGTATGTTTGCTGCCTTGGATCTGTAACTGGCCATTTCCCAAGAAACAGCAAGGCCTCTGGGTTTAGAGCCATGGTCT
GAAAGCCGCAGATGAACCCTTAATGTCACTGGATAAGGCCAGGAATGGGCAACTATGTGTTGTCTTTTGGAGCTCTGAGTCCTGGTTTCTGTGG
TTTAGGCTGAGAAGCAGTTGGCTAGGAAGTCATCTCTTTTGTAAGCCTGTGATGTAGTTCTAATTGTACTTGACAGATTTGATCTTAAAAAAAT
TTTTTTTATCTGGGCAGTGGTAGGTGGCCTTTAATCCCAGTACTTGGGAGGCAAACAGATCTCTGAGTTCAAGGCTAGCATGGCCTATAGAAAG
AGTTCCAGGACAGTCAGGGCTGTTATACAGAGAAATCCTGTCTTGAAAAGCCAAAAAACAAAGATTTTTTTTTTTTAAATTCACTTGTGTGTAT
GTGGCCTATGTACACAGTGCCTCGGTGTGCTTGTGGGGGTCAAAGGAAAATCTCCGTGCTTCATTTTCTTAAAACAGGCTGGCTTCCTTCCTTC
CTTCCTTTAAAAATACTGCATTTATTTTTTATTTTATGTGCATTGGNNNNNNNNNNNNNNNNNNAAGCATGTACACACCTGCGTGAAAGGGAT
GTTTTTAGACTGATCCTCACACCCTGTTCCCATCGTGCCCTGTTCCCATCCTAGCCCATCACTTAACCTGTTTTACACCAAAAGTAGTCTTTAG
GGTGTGGTTAGCTATTTCTTTTGTGCCATTTTAGGGTGGAGAGGGTGGGCGTGATGGAGCCAGTCATTCAGGACTTAATTCTTCCTTGTGTTGT
GGTGTGGTTTTCTTTCTTCTTCTTTTTTTTTTTTTAATTCCTTCTTTCGCCATTGCACCAGAGTATGAAATAGCTTCCGGGTTCTCCGGCTC
TGAGCTGGGCGGTGATTGTGGTCACACCCTGACAACACTAGGGATCTCAACTGACTCCTCTTGTAGCCTCACCACTATTTTTTAGCAGTTTAAT
GGGTACATTATAGAGTCTTCCATTTTGTGTGGAATTAGCTCCTCCCCTTCAAATGCTGTAATTAACATCACTTAAAATAAAACTTGAATAAAAT
ACTGAAACCTCATCCTCTTGTTGTTTTTTGTTAAAATACGAAATGGCCAGGGCATTGGTTTGGATTTGTGCTGTGCTCCTTTGTGGTGTCTATCA
ATAAATCTAACCTGATGGTAGAAAAGAACACTTGGGAGGCTGGAGAGGTGACTCGGGGGTTTATAGTGTTTCCTGCGCCTGTAGACCTGAAGCG
CTCACAACTTCCTATAACTATGGGTTTGGGGTATCTGATTCCCTCTTCTGGTCTCCTTAGGTACCCACACACATGTGACGCACAAATAAAAATA
AATCTTAAAAGCACTTAGGGTTGATGTAGTGGCACATCTCAGTACCTTGGAGATTAGCACAATGAGATCAGTGAGGAGGAAGGTTGCGGGGTTC
AGGAGAGCCCACCCTTAGTTGAGGCACTGCTGGCATTGATGACTGTTGGGTGAGAGTCAGTTTTCTTTGGGGGTGTATGCAGCTGCCCCAGGAA
GCTAGGGCCGCTGGCTGGATCTAAGGAGAACTGCAGTCAGTCACAGGCAGTTTGATGAGGGTAGTGGGAACGAACGGAACCAGGGTCATCGGCA
AGAGCATCCAGCACTGTTGAACCACCACCGCCTCTTCCAATAATACATAATAATCTCACTGTTGTAGAAGGTGTGTCTGGTTGCTTTGCTCAGG
TTTGAATGAGAATGTCCCCTTAGGCTCTGGCTTTTGAGTACTTGGTCTCTTGTAGGTGCAGTGTGGTAAGGCTTAGGGGGTGTGGCCTTGCCAG
AGGAAGTACGTCACTGGTGGGTGGGCTCTGAAGTTTCGCAGCTTATGCTGCTCCTAGTTTGTACTCTCCAATTCTTGTTTGTGGTTTGATGCCT
AGGCTTTCAGTTTGTCATTCCTGGTGCCAAGCCTGTCCGCTGCCACGCTTCCCGGCCTTGATGGTGATGGGCTGCTATCCCTCTGGAATTGGAA
GCCAAGATGATTGCCTTGGTCACGGTGTTTTGTCACAGCAATAGGAAAGTAAACACAACTAGGCTGCACCTTCATTCAGCAAGAGACTTTGGGT
CCTTTTCCAAGCCCACGAGGTTATGGTAGAATCCATTTGTTGTGAAACTGAGTCCCTTCTTGCCGGCTTGTTTCCCGACGACCACGCAGTACCT
GGAGAGCCCCAGCATTTCTTACATTGTCTCCCGTCTGCGGTGTATGGAACAGAAAGACTCGCTGTCTAATCCTTACTAGGCTCCTGTTCTCTAG
GACCAACTCTGTCTCTATTACCGGCTCACGATTAGGCGAGGCTCCCCTTTATAAGGATAACTGCCATGAAAAGTAAGCTCACCACACTTATAAC
TCTCATTCGCAGGCTTTCCCTTGTGGGCCATGGGAGGGGGTCGTTTTGAAGTTTACTCTTGGTTTTTCAAGACAGGATTTTCCTGGGCAGTCCT
GGAACTTGCCCTGAAGACCAGGTTGGACTCAGAGATTCACCTGCCTCTGCCTCTTAAGTGCTGAGGTTAAAGGTGTGCGCCACCACTGCCTGTC
TTTTTTCTTTTCTTTTTTTTTTTTTTTTTTTTTTTTGGTTTTTCGAGACAGGGTTTCTCTGTATAGCCCTGGCTGTCCTGGAACTCACTCTGTAG
ACCAGGGTGGCCTCGAACTCAGAAATCCACCTGCCTCTGCCTCCCGAGTGCTGGGATTAAAGGTGTGCGCCACCACGCCCGGCAAAAATTTGTA
ACGTCTTTTTTCTTTCCTTTTTTTTTTTTAGATTTATTTATTTATTATATGTAAGTACACTGTAGCTGTCTTCAGACACTCCAGAAGAGGGAGT
CAGATCTCATTACAGATGGTTGTGAGCCATCATGTGGTTGCTGGGATTTGAACTCCGGACCTTCGGAGGAGCAGTCGGGTGCTCTTCCCACTGA
GCCATCTCACCAGCCCCCACCCTTTTTAAAAAAAAATATTTATTTATTTGATTTATTTTTATTCATAGCTGTCTTCAGACAGACAGATCCGTA
GAGGGCATCAGATCCCATTACAGATGGTGGTGAGCCATCATGTGGTTGCTGGGAATTGAACTCAGGACCTCTGGAAGAGTAGTCAGTGCTCTTA

ACCACTGAGCCATCTCTCCAGCCTGCTTTTTTTTTCTTTTTTTGAAGAAAGGTTTAATTGCTTCTATTTCACAGGTATGGATGTTTTGCCTGCAT
GTGTTTGTGAACCACATGCAGTCTGGGGCCTCCAGAGACCAGAAGAGGGAGTCAGATCCCCTGTGACTGGAGTTACAGATGCTTGTGAGCTGCC
ATGTAGAGCTGGGAACTGAACCTGGGACCTCTGGAAGAGCAGCCAGTGTCCTTAACCACTGAACCATCTCTGCAGCCCCCCTCTACTATTAACA
TTTTTTATGTTGTTTCTCCTTGTGTGTGCATGTGTGTTACAGAGAACAAGCGAGGGAGTCTCTTTCTTCCTAGTTTGTGGGTCCTGGGGATTGA
ACTCAGGTTGTTAGGCTCGGTGGCAAATGTGTTTACCTGTTGGGCTACCTCGAGATTTTTACTAAATCGTGAGTTCCTCCACGGAATAGGAATT
CTACCCGCACACTCTTCAGCTTCTATAGGAAGTGAAGTGGAGACTTCTGGTTTCTTTGGAAAGTCAGTTATGTCAGCGTTTTGCTGGGGCACCC
AGGTGAAAGGATGGTTTGCTGAAGCAGATACAGGTGGAAGGATGTTCTGCTATAGCAGACATGTGAAAGGACACATGAAGTTTAGAAGGAACAT
AAATCTGACCCCACGGACAGTGGGAGCTGGAGCATTGGTTTGCCTTGCTCTCCCTTGCTAGTTTTTGCTGACATCATGGATGCATTGGTTTGCC
TTACACTGCATTGCTGTGCTTTGCATGCAGTGACTTCATAGAGAGAGGCTTGCAAAAGAAAGGTCCCTGCGGCTTCTTGAGGCTTCCGTGGCAT
GGGGCCAGTTGGTGAGCCTCACAGTTCCTTCTGGATTCAACTGCAGTTGCTGATTCCTGTGTGGTATCTGCTGAGTGGACTGGACTGAGAACAA
CAGAGACTGGAATCTCCCCAAAGAGCTATGACTAAACATAGCTTATCCTAATAGCCTTCCTTTTCCACTATCTCTGCTGGTTGGTGGGCTAAGA
GGGGAGGTTGAACTCTTATTAAAGGAGGTTGAGAAAAATATATGCCTACAAGGAACATTCTTTTTTCTTGGCAGGATTCCTTTAAAAGAAAGAA
TTTTATTACTTTCTTTACTCTGTCTGGACATGTGTGGGCATACATTTGGAGTTCAGAGGACAGTTATTGGAACCATTTTCCCCCTATCTTTTTG
TGAGTTCTATGGATGAAACTTAAGTTCAAGGTTGTGGCAAGTATCATCTGCTCTTGTGTGAGAGTTGAGGCTTGTTGGTCACATCGACAGCACT
AGGTATGTATAGACGTGCAGCTAATTCTTGAGTGAGTGCTTAGGCTCTGACCAGAGACTTTAAAGAAAGTGGTTTCCCGGGGCTGGAGAGATGG
CTCAGTGGTTAAGAGCAGTGACTGCTCTTCCAAAGGTCCCGAGTTCAAATCCCAGCAACCACATGGTGGTTCACAACCATCCTTAATGAAATCT
GATGCCCTCTTCTGGAGTATCTGAGGACAGCTACAGTGTACTTACATATAATAAATAAATAAATCTTAAAAAAAAAAAAAAAGAAAGAAAGTGGT
TTCCCTGTCCATGTAGTTGAAGGCCAGGCATAGTGTAAAGTGTTGTGAAATGTATAAAAGACCCCCCTAAGTATGATGGGATGTCATTCACCAG
GCACTTATTACATCATGCCTGCACACAGTCTGCAGTGTGTTAGATGGAATTTCACTGCAAAATGCCTTGAGTTCATAGTATCTCATTACTGAAA
AGAACTCAGATGGGGCTGGATGCTTCAGCAGGTAGAGCACAAGATGTTCTTGCAGAGGACCTGGGATTGGTTCCCAACATCCACGAGGCTGCTC
ACAACTGTCTGCAACTCCCGTTCCAGGGCATCTGATGCCCGTTTCTAGTCTCTGATAACACTACTCCCATGCCTAAGCCTCGAAAGATGAGACA
TATACACAGACATGAAAAATAATCTGAAAAATGGACTCAGCTGATCCATCACTGAGGACAGAAGAACAAAGTAGATTAGGGAGGATGATAGAGG
GTGTTGCAGAAGCCGATCAATTGAAAACCATCTCCAAAGAGGCAGAAGCTGGAATTGAGATTAGTCTTTGTAATGGTTTGTATAGGCTCAGCCC
AGGGAGTGGCACTATTGGAAGGTGTGGCCCTGTTGGAGTAGGTGTGGCCTTGTTGGAGTAGGTGTGTCACTGTGGGTGTGGGCTTTAAGACCCT
CATCCTAGGTGCCTGGAAGCCAGTATTCTGCTAACAGCTTTCAGATGAAGATGTAGAACTCTCAGCAACTCCTGCACCATGCCTGCCTGGATGC
TGCTTTGATGATAATGGACTAAACATCTGAACCTATAAGCCAGCACCAATTAAATGTTGTCCTTATAAAAGTTGCCTTGGTTCGAAACACACAC
ACACACACACACACACACACACACACACACACACACACACACACACAAAGAGTGGCCTTGGTCATGGTGTCTGTTCAAAGCAGTAAAACCCTAACT
AAAATAGTCTCTAAACACTGGTATTTTCTAGACTGGCAGAAAGCAAAGCTTTGGGGTGCTTGGAGGGACTGTACCTCTGCTAATCTGGAAGGTT
TGGGCACCATTCCATGTACATGGGCTTTATGGCAGACTGTGAAATGAGGTAGATGAATGGCTTCTTGGTTTGTTTAACAGAATCTGTGTGCTTT
TAAGATGTCTTGGGGTCAGAGAAATTGGCTTTGGGAAAACACAAGCTGTTTCTGGGGAGGGAATTGCAGAGACAGCAGTGAAGCTGTTGGGGGC
ACAATAAATGCCAACTGCTCATTTTACTGAAAATTAGTGAAATGAACATATATGAATTGAAATCTATAAGAAACATTCACACAACATACTCACA
GATGGAAACTGTACCAAGGCTCTAGGCAAACTTTCTAAATTCACACTTCTCTTCTTTCTTTTTCTTTCTTTCTTTCTTTCTTTCTTT
TCTTTCTTTCTTTCTTTCTTTCTTTTTTTCCTGTGTGTGTGGGCAGGGAAAGGGGGAGAAAGCATTTCTCTGTGTACCCCTGGCTGT
CCTGGCACTCACTTTGTAGACCAGGCTGCCCTTGAACTCAGATATCCACCTGCCTCTGCCTCCCAAGGTTTATATTTTAGTGTTTCATCAAATA
TTTAACACTTCTCCGTAGTTAAGGGTGCATCAATAAACAAAGTAAGGTCAAGTTGGCCTTGGCAGGCTTGCTTTTGTGTGTGGGGCGCTGTAAG
AGAGGATAATATTTAACCGGATGATAGTGTTATAAAAGAAAAGCAAGGAAATTGGCTAGAAAGTCAGAAGGAGACACTGGCATTGAGAATAGGT
TCAAATGTTCCAAAGACATACGTCTATCACTTTTTACATTTTGTAAAACAAACCTCTCAGTATACAAAAATATAACCCAGCAAGTGGGAGGTGA
AGGTGAAGGAGTTCAAGGTTATCCACTGGGTAGAAAGGGATTTTGAATGCCGGTGCCTGGCAAACACAGAAGTGGATGCTCACAGTCAGCTATT
GGATGGAACACAGGGCCCCCAAAGGAAGAGCTAGAGAAAGTACCCAAGGAGCTAAAGGGGTCTGCAACCCTATAGGTAGAACAACAATATGAAC
TAACCAGTACCCCCGGAGCTTGTGTCTCTAGCTGCATATGTAGCATAAGATGGCCTAGTCGGCTCGGCCATCATTGGGAAGAGAGGCCCCTTGG
TCTTGCAAACTTTATATCCCCCAGTACAGGGGAACGCCAGGGCCAAGAAGTGGGAGTGGGTGGGTAGGGGAGTGGGGGGGGGGGGATATGGGGG
ACTTTTGGGATAGCATTTGAAATGTAAATGAAGAAAATACCTAATTAAAAAATAAAATTAAAAAAAAAAGGAATTTTGAGGCCAGCCTGGGCCA
CTTGAGATCTTGTTTCAAAACCAAAACCAAAAGGGTGCTGGAGAAATTATTCAACAGTTTAGAGCAATTGTGCTTGTAGAGGACCAGGGTGTGG
TTCCCAGGAGCCACATGGGGTGGCTCATAATCACAGCAACCTCCAGCTCCAGGGGAGTAGACGCCCTCTTCTGGCACTGGAGGGCATTTGAACT
TACACACAATTTTACTCTTTCTTTATTGTTTCTTTAATGCTTATTTTATCATTATTATTTTTTGAGACAGGGTTTCTCTGTGTAGCCCTGGCTG
TTCTATAATCGCTTTGTAGACCAGGCTGGACTCGAATTCACTTAGATTTACCTGCTTCTGCGTCCTGAGTGCTGAAACTAAAGATATGCACTAT
CACACCTGGCTAGTTTTAATTCAGAAATGATTGCTTGCATATATGTTTGTGTACCCCATATGCCTAATGCCTGTGGAGATCAAAAGAGGTCTTA
TAGTCAGATCCCCTGGAACTGGAGTTAGAGGTGGCTGTGAGCTGTTTAATCTGAGTGCTGGGAACCAAACCCAGTCCTTTGCAAGAGTAGCAAA
TGCTCTCAACAGCTGAACATTCTCTCCAGCTCCATATATATATATATAATCTTTCTTAAGTGTATTAAACTTGTGTGTAGTTGTTTTACTTATG
AGTTTCTGCATCAGTTATACGTCTAGTGTTTGAGGATGCCTAAAGAGGGCACCGTATACCCTGGGACAGATGGGTGTGAGTCCTCACATACAGG
GGTGCTTGGAATCGAACCCAGGAGCTCTGGGGGAATCAGCCAGTGCTCTTAAGCGATGACCCCTGAAATACATCTCAAAGATGACAACGATAAA
CCACAGAGCAAAACAAAAAACCACCAGTTGAAAATAAATCCGTCCCATTCGCCTTTTTTTTTTTTTTTTTTTTAAGCACCCTTTTCTACACTC
CCACGCTAACCTTTCGGGTTCAGAGATGCAACGTCATCACGCCGGGACGTAGCTGCTT

MOUSE SEQUENCE - mRNA

CCGTAGCTGCCGCTGCTCCCGCCGTCACCGCCTCCGAGAACATGGCCGTGCCTCCCACATACGCCGATCTTGGCAAGTCCGCCAGGGATGTCTT
CACCAAGGGCTACGGCTTTGGCTTAATAAAACTTGATTTGAAAACGAAGTCAGAGAATGGATTGGAATTTACCAGCTCAGGCTCTGCCAACACG
GAAACCACCAAAGTGAACGGCAGCCTGGAAACCAAGTACAGATGGACTGAGTATGGGCTGACGTTTACAGAGAAGTGGAACACAGACAACACCC
TGGGCACTGAGATCACTGTGGAAGACCAGCTTGCTCGTGGACTGAAGCTCACCTTTGATTCGTCATTCTCGCCGAACACTGGGAAAAAAAATGC
TAAAATCAAGACAGGGTACAAGAGGGAGCACATCAACCTCGGCTGTGACGTGGACTTTGACATCGCTGGGCCCTCGATCCGGGGCGCTCTGGTG
CTTGGCTATGAGGGTTGGCTGGCTGGCTACCAGATGAATTTTGAGACCTCGAAGTCCCGAGTGACCCAGAGCAACTTCGCAGTTGGCTATAAGA
CGGATGAATTCCAGCTTCATACTAATGTGAATGACGGGACAGAGTTTGGTGGCTCCATTTACCAGAAGGTGAACAAGAAGTTGGAGACTGCTGT
CAATCTCGCCTGGACTGCAGGAAACAGTAACACTCGCTTCGGAATAGCAGCCAAGTATCAGGTCGACCCTGATGCCTGCTTTTCGGCCAAAGTG
AACAACTCTAGCCTGATTGGCTTAGGGTACACTCAGACCCTAAAACCAGGTATCAAACTGACGTTGTCAGCCCTGCTCGATGGCAAGAACGTCA
ATGCGGGTGGCCACAAGCTTGGCCTAGGACTGGAATTTCAAGCATAAATGAATATTGTACAATCGTTTAATTTTAAACTATTTTGCAGCATAGC
TACCTTCAGAATTTAGTGTACCTTTTAATGTTGTATGTTGGGGATGCGAGAGTTGATAAATACCACGTTAGACCTCCAGGCTAAGGATGACTCG
GCTTTAAGGTGTTTACCATTTCAGAGGTACAGCAGAAACCCCATTCCAGAAAGGGTCCTTTTTAGCTGTAGGCGTGGGTTGGGGAGGAGCCCCT
GTAGAGATGCCAGGCTACAAGTGGAAAGCTGGGAACATGTGGGTCCTTTGTAAATCTGTATCCAGTCCCCAGATGAAATTGTGACTTCCCGAGC
ATCGAACCCTGGTGTCCAGATCCTATCTGCTCGGAAGCATGTACACACCTGCGTGAAAGGGATGTTTTTAGACTGATCCTCACACCCTGTTCCC
ATCGTGCCCTGTTCCCATCCTAGCCCATCACTTAACCTGTTTTACACCAAAAGTAATCTTTAGGGTGTGGTTAGCTATTTCTTTTGTGCCATTT
TAGGGTGGAGAGGGTGGGCGTGATGGAGCCAGTCATTCAGGAATTAATTCTTCCTTGTGTTGTGGGGTGGTTTTCTTTCTCCTCCTCCTCTTT
TTTTTTTAATTCCTTCTTTCGCCATTGCACCAGAGTATGAAATAGCTTCCGGTTCTCCGGCTCTGAGCTGGGCGGTGATTGTGGTCACACCCTG
ACAACACTAGGGATCTCAACTGACTCCTTTTGTAGCCTCACCACTATTTTTTAGCAGTTTAATGGGTACATTATAGAGTTTTCCATTTTGTGTG

GAATTAGCTCCTCCCCTTCAAATGCTGTAATTAACATCACTTAAAATAAAACTTGAATAAAATACTGAAACCTCC

MOUSE SEQUENCE - CODING
ATGGCCGTGCCTCCCACATACGCCGATCTTGGCAAGTCCGCCAGGGATGTCTTCACCAAGGGCTACGGCTTTGGCTTAATAAAACTTGATTTGA
AAACGAAGTCAGAGAATGGATTGGAATTTACCAGCTCAGGCTCTGCCAACACGGAAACCACCAAAGTGAACGGCAGCCTGGAAACCAAGTACAG
ATGGACTGAGTATGGGCTGACGTTTACAGAGAAGTGGAACACAGACAACACCCTGGGCACTGAGATCACTGTGGAAGACCAGCTTGCTCGTGGA
CTGAAGCTCACCTTTGATTCGTCATTCTCGCCGAACACTGGGAAAAAAAATGCTAAAATCAAGACAGGGTACAAGAGGGAGCACATCAACCTCG
GCTGTGACGTGGACTTTGACATCGCTGGGCCCTCGATCCGGGGCGCTCTGGTGCTTGGCTATGAGGGTTGGCTGGCTGGCTACCAGATGAATTT
TGAGACCTCGAAGTCCCGAGTGACCCAGAGCAACTTCGCAGTTGGCTATAAGACGGATGAATTCCAGCTTCATACTAATGTGAATGACGGGACA
GAGTTTGGTGGCTCCATTTACCAGAAGGTGAACAAGAAGTTGGAGACTGCTGTCAATCTCGCCTGGACTGCAGGAAACAGTAACACTCGCTTCG
GAATAGCAGCCAAGTATCAGGTCGACCCTGATGCCTGCTTTTCGGCCAAAGTGAACAACTCTAGCCTGATTGGCTTAGGGTACACTCAGACCCT
AAAACCAGGTATCAAACTGACGTTGTCAGCCCTGCTCGATGGCAAGAACGTCAATGCGGGTGGCCACAAGCTTGGCCTAGGACTGGAATTTCAA
GCATAA

HUMAN SEQUENCE - GENOMIC
TATATTGCATGGTGCTGAGGTTTGGGGTATGATTGAACCTGTCATCCAGGTATTGAGCATAGTACCCAACAGGTAGTTTTTCAACCCTTGCCCC
CCTCTCTCCCTCCCTCCCCTCTCTTGTAGTCCACAGTGTCTATTGTTCCCATATTTATGTCCATGTGTATCCAATGTTTAGCTCCCACTTATAA
GTGAGAACATGCAGTATTTGGTTTTCTATTCCTGCATTCATTCACTCAGAATAATGGCCTCCAGCTGCATCCATGTTGCTGCAAAGGACATGAT
TTCATTATTTTTTATGACTGTGTAGTATTCCGCCATATATATGTACCATATTTTCTTTATTCCATCCACCACTGATGGGCACCTAGGTTGACTC
CATGTCTCTGCTATTGTGAATCACGCTGTGACAAACCTACATGTGCATTTGTCTTTTTGGTAGAATGATTTATTTTCTTTTTTTGAGATGAAGT
CTCACTCTGTTGCCCAAGTTGGAGTGCAGTGGCACGATCTTGGCTCGCTGAAACCTCCACCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCT
CCTGAGCAGCTGAGACTGCAGGCGTGTACCACCATGCCCGGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTCACTATGTTGGCTAGGCTGG
TCTTGAACTCCTGACCTTGTGATCCGCCTGCCTCAGCCTCCCAAAGTGTTGGGATTACAGGTGTGAGCCACCGCACTCAGCCATGACTTATTTT
CCTTTGGGTGGAATGGTAGTTCTATTTTTAGTTCTTTGAGAAATATCCAAACTGCTCTCTACACTGGCTGAACTAATTTACATTCCCACCAGCA
GTGTATAAGCATCCTCTTTTCTCTGCAGCCTTTCCAACAACTATTTTTTAACTTTTTAATAATACCCATTCTGACCGGCGTGAGGTGGCACTCA
TTGTGGTTTTGATTTGCATTTATCTGATGATTAGTGATGATGAGCATTTTTTCATGTTTGTTGACCACTTGTATGTCTTTTTATTTTTATTTTT
TTGAGACGGAGTCTCACTCTGTCATCCAGGCTGGAGTGTGGTGGCACGATCTCGACTCACTGCAACCTCCACCGCCCCGGATTCAAGTGATTCT
CCTGCCTCAGCTTCCTGAGTAGCTGGGATTACAAGCGCGTGCCACCACACCTGGGTAATTTTTGTATTTTTAGTAGACTCGGGGTTTCACCATG
TTGGCCAGGTTGTCTCAAACTCCTGACCTCAGGTGATCCGCCCACCTTGGCCCCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCATGCCTGG
CTGTATGTCTTCTTTTGAGAAGTGCCTGTTCATGTCCTCTGCCCACTTTTTTTCGGGGGGTGGGATGGGAGACGGAGTCTCACTCTGTCACCCA
GGCTGGAGTGCAGTGGCACGATCTCAGCTCACTGCAACCTCCGCCTCCCGGATTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGAT
TACAGGTGCCCGCAACCATGCCTGGCTAATTTTTGTATTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGATGGTCTTGAACTCCTGACCT
CAGGTGATCTGCCTGCCTTGGCCTCCTAAAGTGCTGGGATTACAGGTGTGAGCCACCGTGCCCAGCCCTCTGCCCACTTTTTAATGGGGGTCTT
TGTTTTTTGCTTGTTGAATTGTTTACATTCCTTATAGATTCTGGATATTAGAGCTTTGTTAGATGCGTAGTTTGTAAATATTTTCTCCCATTCT
GCAGGCTGTCTGTTTACTCTGTTGATAGTTTCTTTTGCTGTGCAGAAGCTCTTAAGTTTAATTAGGTCCCACTTGTCAATTTTGTTTGTTTGTT
TGTTTGTTTTTGAGACACAGTCTTACTCTGTCACCAAGGCTGGAGTGCAGAGGTGCGATCATAGCTCACTGCAGCCTCGACCTCCTGGACTCAA
GTGATCCTCCCACCTCAGTTTCCTGAGTAGCTGAGACTACAGGTGTGCACCACCATGCCAGGCTAATTTTTGTATTCTTTGTACAGACGGGTTT
TTGCCATGTTGTTCAGGCTGATTTTTGTTTTGCTGTAACTGCTTTGGAGGACTTAGTTATTTATAAATTCTTTGCCGCGGTTGATGCCCAGGAG
GGTATTTCCTAGGTTTTCTTCTAGGATTTTAATTGTTTGAAGTCTTACATTTAAGTCTTTAATCCGTCTTGAGTTAATTTTTGTATATGGTGAT
AGGCAGGGGTCCAGTTTCATTCTTCTGCATATGGATAGCCAGTTATTCCAGCACCATTTATTAAATAGGGAGTCCTTTCCCCATTGCTTATTTT
TGTCCAACTTGTTGAAGATTAGTTGGTTGTAGGAGGGTGGCTTTATTTCTGTGTTCTCTATTCTGTTCCATTGGTCTATGTGTCTGTTTTTGTA
CCAGTACTATGCTGTTTGGGTTATTGTAGCCTTTTAGTATAGTTGGAAGTCAGGTAATGTGATGCCTCCAATTCTGTTATTTTTGCTTAGGATC
CTTTGGTTATTCTGGCTCTTTTTTTTGTTTAATATAAATTTTATAATAGTTTTTTTTCTAATTCTGTGAAAAATGATGTTGTTAGTTTGATAGG
AACAGGATTAAATCTGCAGATTGCTTTTGGCAGTATGGACATTTTAATGATATTGATTCTTCCAATCCATGAGCATGGAGTGTTTTTCCATTTG
CTTGTGTCACATAGATGATGCTTTCTAACTGTGTCTTTACATGGTGGAAAGGGTGAACAAGCTCTCAGGCCTCTGCCCTAATGATAATTACATT
TCAAAAGCTCTGCCTTCTAATACCGTCATCTTGGGACTCAGGATTTCAACATATCAATTTTGGGAGTAAACATTCATACTATAGCCCCATTCTA
ATAAATCATTTCTAGAATTGTCTTTTAGAGGTTGTATATTAGTTTCCTATTGCTGTTGTAACACTTCCTATTGTGTTTGTAACTGTGAACCACAG
ACTCAGTGGTTTAAACAACTCAGATTTATCATTTTACAGTTCTAGAGGTCAGGAGTCTGAAATCAGTCTCTCTGGGCTAAAATTAAGTGGGCAT
CAGGGCTCCCTCCTTCTGGAGGCCTTGGGAGGAGAATCTGTTTCCTTGTCTTTTTCAGCTTCTATAGGTTGCCTGCATTCCTTGGCTCATGGCT
CCTTCTTACATCTTCAGAGCTAGCGGTGTAGCATCTCCAATCTCTCTCTTTCTTTCTTCTTTTTTTCTTTCTTTCTCTTTTTCTTTCTTTCTCT
CTCTGTCTCTCTCCCCACCCCTGCCCTGCTCTGCTTCTGTCATTAAATCACCTTCTCTCACTCTGACCCTCTTGTCTTCCTCTTATAAGAACTG
TAGGCCGGGCATGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGAAGTGGGTGGATCATCTGAGGTCAGGAGTTTGAGACCAGCCTG
GCCAACATGGTGAAACCTCGTCTCTACTAAAAATACAGAAATTAGCCGGGCCTGGTGGTGGGCACCTGTAATCCCAGCTACTTGGGAGGCTGAT
GCATAAGAATTGCTGGAACCCAGGAGGCGGAGGTTGCAGTGAGCTGAGATCACGCCACTGCACTCCAGCCAGGGTGACAGAGTAAAACTCTGTC
TAAAAAAAAAAAAAAAAAAAGAACTTGTGATGACATTCTTGGGATTACATTGGGCACACTTGGATGATCTAGGACAATCCCCCCATGTCAAGAT
CCGTAACATCTGTATGATCTCACTTAAATGTACAATCTAGAATAATCACACTCATAGAAGCAGAGAGTACAATGGTAATCTTCAGGGCTGGAGG
GAAGGGAAAATGGAGAGGTGATGATCAAAGGGTATAAGGTTTAGTTACGCCAGATAAATAAATTCTGGAGATCTATGCATCTGACAAAAGGTAT
AATATCTAGAATCTATAAGGAACTTAAAGAGTTCAACAAGCAAAAAAACAAATAACCCCATTAAAAAGAGGGCAGAGGGGGCTGGGCGCAGTGG
CTCACACCTGTAATCCTAGCACTTTGGGAGGCTGAGGCAGGCAGACTGCCTGAGCTCAGAAGTTTGAGACCAGCCTGGGCAACATGGCAAAATC
CCATCTCTACTAAAAACAAAGAAAAAAATGTGGGCAGAGGACATGAACAGGTGCTTCTCAAAAGAAGACATACAAGTGGCCAAGAAACATATTA
AAAAATGTTCATCATCACTAATCATCATCTACTATACATCACAGTGCCTACAGCTAACAATACTGCACTGTATACTTAGATTTGCCAAGAGGAT
AGATCTTAAGTGCCCCTACAAAAAAAAAAAAAAGGGAATGGGGGTAGGGGAGGAAACTTTGGGAGGTGTTGGGTATGTTTATATGCTTTACGGTG
GTGATGGTTTCATGGAAATATACTTATCTCCAAACTCATCAACATATATATTAAATATGTACAGCTTTTTGTATGCAATCCTATCTCAATGA
AGTAGTTTTTGTTTTGTTTTGTTTGTTTTTTACATTCACAGGTTCCAGTGAGTAGGATGTGGATATCCTTGGGGGGCCATTGTTGTACTTACCA
TAGTTTGCCTCCACAGTTTTTAATGTTGGGGTTGCAGTAATACTGAACATAGATTGCCTTCCATTAACATTGTAACAGAAATATTTCCCCACAG
GAAATTTGTTGTTGTTGTTGTTTTGAGACAAAGTCTCGCTCTTGTCCCCCAGGCTGGAGTGCAATGGTGTGATCTCGGCTCACTGCAACCT
CTGCATCTCGGGTTCAAGCCATTCTCCTGCTTCAGCCTCCCGAGTAGCTGGGATTACAGGCGCCTACCACTATGCCTGGCTAATTTTTGTATTT
TTAGTAGAGGCAGGGTTTCATCATGTTGACCAGGCTGGTCTCAAACTCCTGATCTCAGGTGATCTGCCCGCCTCAGCCTCCCAAAGTGCTGGGA
TTACAGGTGTGAGCCACCACGCCCGGACCCCCACAGGAAGTTTTTGTAACCATATTTCCTCAAGGTTGTGAGTGATTCAATATGCCCAAGCTGG
AAACCAGGTTGTGTTCCGTCCTGGGCTGCTGTCCATTTTCCTGCAGCAGGCATTCCCCATACTTACAATGATGGTCTTAGCGTGGGTTCCCAGC
ATCAAGGGGGGTGGAATAGGATTATGATTCTGATCGCATATAGCCTAATTGCTTTTCAGAAGGATTGTATCACTTTACACATCTCCTGATGAAC
CTCATATGACTTTCTTAAAGCTGAAAAAAGTTCGCTCTTTTTATAATCAAGGTATTATGTCCTCATTAAAGCATATTTGGAGGCTGGGCCTGGT
GGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGACAGGTTGATTACTTCAGGTTAGGAGTTTGAGACCAGCCTGGCCAACGTGGCAAAA

CCACATCTCTACTAAAAATACAAAAATTAGCCAGACGTGGTGGCACGCACCTGTAGTCACAGCTACTTGGGAGGCTGAGGCATGAGAATAGCTT
AACTCGGGAGGTGGAGGTTGCAGTGACCCGAGATGGTGCCACTGAACTCCAGCCTGGGTGACAGAGGGAGACTCTGTCTCAAAAAACAAAACAA
AACAAAACAAACAAACAAAAGAATATTTGGGAAATGTAAAAAGAGCCAAAGGAAAAAATCACTCATAGTCTCATAAATAGAAACACAACTTAAT
AATTATGTTTCAATTTATAAGAATTGATCAATTCTGGCTGGGTGCAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCGGAGGCCGGCAG
ATCACAAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGCTGGGCATGGTGTCGTGT
ACCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGAATTGCTTGAACCAGGACCTGGGAGGCGGAGGTTGCAGTGAGCCAAGATCATGCCACCG
TACTCCAGCCTGGGCTACAGAGAGAGACTCCATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAATTGATAAATTCCCATAAATACTTCATTAA
TACTTAATACATTTCTTTCCAATATTTGTCTCTCTGTGTATATATATACAAAATTCTTAAAAATCATAGCTATGATGTTGGAGCTTCTTGGAAT
TGTTTTAGATTAGATCTAGGACACCTCATGTTTTGGGATATGCAGGAGAATATTATCAATTGTGTTTACCTTGGGATGCTTTCTGTCCTGTTTC
CCCAAGAGATTACTGCTGTCACTCAGAACCTGGAGGCCCAGCTGGGTCCTTCCCTGGATGCTGAGTGTCAGGGCACAGTGTGGGGAGTGTGGCC
TGAGATCCTTGACCACAAACACGCCATCTTGATTCTTCCTACCCAGACTCTAGTCTGAGGAGTTCACTGGAAAATGATTGGAAAGTTAGGTTTT
ATGACAATGCAACTTTATAATCCAATTAATTGATGCTGGTTACAAGCAGAATATCTTTCTCTTTAAAAATTAATTTACATAAATGACTACCATT
TCTGCCTTCATGAACTTCATCTTCAAGCTCTGGTACTTAGCACAGACAATGCTAAGAAACCACATAGAAATCCAGGGACATCTGGCTCTGAAAA
GAGAAGAGTTGGGAGTGTTTCATCCTATGTTCTTGAAAGGGGGGTGGAATAGGTTTATGATTCTGATCATAAATTGGCTGCTTTCCACTTTGAT
AAATATCTACAGTAGAAGCCCTAAGGCTGTAAGTTAGAGATAAGACAAAAACCAAAAACTCCCTAAAATGAAATAGTCTTACATTGGTAACCCA
TTCCAATATTAACAATGAAAGAAAAATCTCATTTTCCCTGGATGTTTTACATTGTTCTTCTTGAATGGAGGAGAGGAACTGAGTTAGCATCTGG
AAGAAAACAATCCAAACTGGACTAGGCAAAACAGGAGGCCGTTGGCTCAGGCAGCTGGTAAGTACAGGGTGTAGTCTCCGGCATGGCTAGATTC
AGGACCTCATCTCTGCCTTTCTCTTATGGGCTTACTTCATTTTCAGGGAGTCTTTATTCCTGTAGCCCCAGGAATTCTCATCTGGTCTCATTGG
TCCATCCCTGCGGGGCGGGGATCGGGGGCGGTGGGAGGCCAGGATGTGGGGGCGGAGAGGCGGGGGCAGGAGAGGTATACAGGGCTCTAATTGG
TCAGACTGGGCCATGTGGCCACTCCCAGGAAGGCTTTGGAGTCAGGGATGGAGTCAGCTCCATGAAAGCTTGCTGACCAAAAGGAGAGGGAAAC
AGGGTCATTCGCCCAGAGAAAAACTGAGGTTAGGATTGTCCTGTCCCCACAAACCTCCTTCTCCACCCACCAAGATTTGACTGTCTTCGCCAGG
GACTTGCTCTAGCTGGGTCAAGCTCAAGTGGGGTTATTGAAGTGGAACAGGGAAACCCACGCATGGCAAGAACAGGGGGGCACTCAAGGAACAG
GGGCCCAGAGCCACCCTCTGCAGCGGCTGCTCCATTCTCTGTTCTGTGAAAAGCCCTCGTTAACTTCGCAACACCGACAGGGATGCCAGACCCA
GGTCTCCCCAAGGGCCTTGAAAGCTCCCGCATTTTCCCCTCTGCCATACTCATCCCTGGGTTTCTCAGTTCAGGTTTGCAAGAGAGGATCTGAT
TGACCTGGCTTGGGTCAGGGGCCCAACCCTGACCCAATCAGCTGTGGCAGATGGAATGGAGGTGGGGCTCAGGGGGTTTCCCCTCTCCCTCAGG
GTTGTGGTGGGTCAATGGATTCTAGTGATTATGGCACCTGCAGATCTCAGCTGATTTTGTTTTTTAAAAAATTACTAATACTATTTCTTGAGAC
GGGAACTTGCTCTGTGGTCCAGGCTGGAGTGCAGTAGTGGGATGCTAGCTCACTGCACCCTCGAACTCCTGGCCTCAAGCCATCCTACCTCCTT
GGCCTCCCAAACAGTTGGGATTACCCACATGTGCCTCTGAGCCTGGCCCAGTTACTGATGAGTGCCTACTCTTTTTTCTTTTTTTTTTTTTTG
GCAGAGTTTCGCTCTTGTTGCCCAGACTGGAGTGTGATGGTGAGATCTTAGCTCACCGCAACCTCCGCCTCCTGGGTTCAAGCAATTCTCCTGC
CTTAGCTTCACGAGTAGCTGGGATTATAGGCATGTGCCACCATGCCCGGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTCTCCATGTTGGT
AAGGCTGGTCTCGAACTCCCGACCTCAGGTGATCCAGCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGAGTGAGCCACTGCACGGGGCCGA
GTGCCTACTCTTTATGTGTCCCATTTTAAACTTACACCAACACTCTGAAGCTGAGGCTCTTAGAGGCCAGCCTTCTTGCCTGGGTCACGCAGCC
ACTAAGTGAGTGGTTAATCTGAAACTAGCACCTAGGGGAGCTGGCGAAGGGGCCCAGGGTAGCAGAGGCCATGAAGAACTCTTTCCAAGTTGTT
GTTTTTTTTTGTTTTTTTTTTTTTGGGGGGGGGGGACAATGTCACTCTGTCAGTCAGGCTGGAGTACAGCGGCTCAATCTCAGCTGACTCCAGCC
TCCTCCTTCCAAGTTCAAGCGATTCTCGTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGCGCGCCACCACGCCCGTCTAGTTTTTGTATT
TTTAGTAGAGACAGGGTTTTGCCATGTTGCCCAGGCTGGTCTCGAAGTCCTGGCCTCAAGTGATCTGCCTGTCTCGGCCTCCCAAAGTACTAGG
ATTACAGGCTTGAGCCACTGCACCCGGCCCAGATTGGTTCTTTAAAGCGGAGTTGAGAGGTGGCGCTGGAGGGGAGGAAGCCCTTCGACATTTG
CTCCCAGCCTCAAAACTGGGTTGCACCGGCATCTGTTCCTAGCCCTGTGGGGTTCCTGGAGCCCCGCCTTGTCCCGCCCGGCCTCCCTGAGTTC
TTGTCCTCCCCCTGCCCACCAGTCTCAGTGTGCGGGGTGGGGACCACCAGGCTGGGAAGCCCAGAGTTCCCAGGCAACTCGTGCGCCTGGGAGG
GTCATAGAATCCGTCCTACACTCCTCAGGATCTTGAAGGGGGCTCTTCCTTACATTCCCAGTCACCCCTCCCCCAGCCCCTACACAGGGCCTAG
GTAACCTGTCTGCACCCCACTCCCACTCTGTATCAGCTGCCCTCTTCCTCAGCACCCTATCCCACTGGAGCACCTTTTCCAACTCCAGTCGCCA
CTTTTAATCTGCCGCCTTTTCCCAGCAGCCAGTCCTGATTGCCTCCTCCGTAGCCCCAGTTGCCCACTGCTTTAGATAGTGTCGCAGCTGGCTG
TGAGGAGTGTCCTGATTCTGTAACCCGGCACCTCCTCCACAGGGCCCTAGACGCCTCAAGCCTTCCAGGACGTTTGTTGATCAAAGGCGAAGGA
TGTGCAGAATCTTCGTCCATCTACGAATTAATTCTCGAAACCTGCTTCGAGTGGGCCTCGCGCGTAACACAGGGGACACTCAGTGGTGAACGAG
ACCACTCGCTTAGGCCTAGCAGCGAGGTGACCGTTCACTCAACACACACTAACTGGGTCCCGCAGGACACGCCCCGGCTGGTCGCGGGGGTTAC
CCGGGGTGCCCTCAGTCGGCCGGCCGGCCATAACCGGCGTGATCTCCTCGCGCCGAGAGACCCAGCAGGGACCTCGCAAAACCCAATCCACGTT
TTGTTTTATTTTGTCTTTTTGCCTCTCAAATGCATGGAAATTGGCTGCTAGTAGCTTTGCTACAGGAGAAAATCGCTAATCTGTAGTGCAAAAT
CGGCGCACAGGGGTTTTCTCTGAGATTGTCTAGACGCCGCGCGGGCGGGTCGGAGGCGCCAGACACATTGTATCCGGAGCGCGGAGCTCGGGAG
CAACAGTCGCCGCCTCTACTCTGTATCTGCGCCGCCCCAGGCGCCCAGTGTCCGCGCTGGGCCTGGGACTGCCCTCGGGGGATGGGGCCCACGC
GGGCTTTGATGGGGGGCCGGGGGCCACTTTGTCCACCCAGGCGAGGCTTGGGTCCAGCGCCGGCCACATCAACTCCCGGGGGATCTAGCAGCGC
GGAGGCCAAGCAGGAGGCCCAGGAGCCCCGCGCGTCTTCCATTAGCGCAGGGACCTCCGGGCCACAGCTCAGAGAATCGGAAGGCCTCCTCCCC
CTTCCCGAGCGCTGCCACTGGGGCCGAGGTTTCCAGCAAGAACCCGCGTGTCCCTGCGCACGCACACACGGTGCACACGTCAGTCCGGCGCCTC
CCCGTGCCCCGACTCACGCAGGTCCTCCCGCGCGCCCGCAACACGCCCGCAGGCTCCTGTGTCTGCTGCCGGGGCAGCGGGGCCCGGAAGGGTA
AGAACGCGGCTCGCTAGCGGGATGGGGACCCTGGCCCGGCCTGGACGCTGTCCCGGGCGGGGCCTGGGGGCGGAGCGCGCCGGGCCGGGCGCGC
AGGAGGGGAGGCGGGTCCGCGCCGCCGCCGTCCGCGCCGCCCCGCCCTTGGCCCAGCCGCTCGCTCGGCTCCGCTCCCTGGCTCGGCTCCCTGC
CTCCGCGTCGCAGCCCCCGCCGTAGCCGCCTCCGAGCCCGCCGCCACATCCTCTGAGGTAGGCGCAGCGGAAAAGGACCCCGGCTTCCTTGCGC
CCTGGACGGCGGGGGCCAGGCCCCTGGGGAGCTGAGAGGGAGGCGCTGAGGGAGGAGCGGGCGAGGGGCCCCGGCAGCCCGGCCGCGGGGAGGG
ATCGCGAGCGGCCGGCGCGGGCCTGGCTGGTGAGCGGGCGGGCAGAGAAGGCCGCACAGGCGGGTGCCGAACAGGTCTGGGCTGGGGAGCGCGA
GGCCGAGGGTCCAGAGACGCCTGCGGCTGGCGGCGAGAGGCGGCCCGGGCTTGCGGGCGGAAGTGCAAGGGCGGCCGCGTGGAGGCCCGGCGGG
CCGCGCGTCTAGGTGACCTTCCCCGGCGGCGCCTCTGGCCCTGGATCCCACCAGCGTGCATCCGGCGGGGACCCGTTCGCCGCCCACGCTCGC
CGGACCAGGCCAGCGGGCGGGTGCCGGCCACGCTGCCGCCTCGGGGATGAGCTCACGTGACGACCGTGGCCCCGAGTCCCCAGGCCCACGCGCC
CTGGCCGGCCCACGCCCGCAGAAGCTGGCGCCCGGCACCGCCCGCCTGTGCCAGAGCCTTCTAGAGCGGAACGCGCCGGCCGAGAGTCGACTTA
GGCGGTAGAGGCCGGAGCTCGGGCCTGGGCTGAAGGTTTGGCCTCGGAAAAGGAGGCCCCACGGGGAAGGATGTGGCCTTCTTGGTCTTAGGAG
TGATTACTGGTTCGGTCGTTCATTCATTCGCCAAATGCGGCGGTGCATTCTGGAAACTGTTTCGGAGCCTGACTTTGGATTAGAGGCCCGCAGT
CTTAGTGGTTTGTACAAGGTCACACAGCTGGGAAGTCCCCATACCTTCGTTTTCTCATCTATAGGACGGGAGCAATTGTACCTCTCCTTCGATG
AGTTTTGGGGAATAATAAAATGAATTAATTAGCATGAAACCTTTAGAACAGTGCCGGTGTGGAGAAGGGCTAAGTAGAAACCCTGACACCCTTG
GGGCTTTTTGGGTGAATCCAGCCCATCCCCCGCAGACCATTTTGCTACACGTGGCGTTGTGGAAGGGGTTCAATAAATGTAGCTCCTGTTTTTA
AACATTCTTTCACTATTATTGACAAGCATTTGTATACCAGGTATTGAGTAACTTTCAGCTTAATTTATGAAAAATCTTGTAAGTTTACAAATGG
ACATTGTCAAGCTGGAGCAGTAAGTTTGCATGTGGAGATCTTGAATGCAGGAGCAGACCCTGGTTTAGAGCCCGTTCCGCCCGGGGTCCCTGTC
CCCTTGACTAGCCTCCCCTCTCCTGGGGAGATAGGGGAAAGGGCTCCTCTGTTGCCTAAACTTCTCCACTGAGGCAGGAGAAGGCCAGAGCAGA
CTACCGAGGGCCAGCCTTCATTCTGCCCACCCCAGCTCTGGACCAACTCAGCTCCTAAGGGTCAGACTGAGGCACTGAGGCCCTGTGCTACTTT
GTCTTCAGTGCCTGGGGTGGTGCTGCCTGGCACACAGTAGGTGCTTGAGAAGGGTCTGTGGGGGTAAATGCACTCTTGTGTCAGAATCCACCCA
TCTTTACTGACAGAGTTTTACTATTCCAGTACATGGCCCATAGTAGGTGCTTATTGAGTATTTGTGGAATTATTGAATGGGCATATGAAGGGCT

GCAGGCCCAGACCATAGTCCTTTGATCCTGGACTTTTTTTTTTTTTTGAGACAGGGTCTTGCTCTGTTGCCAGGTCTGGAGCGCGGTGGCACCAT
AACGGCTCATGGCAGCTTCTGTTTCCTGGGTTCAGGCAATCCTCCCACCTCAGCCTCACAGAGTATCTGGGATCCCAGGCACACACCACCACGC
CTGGCTAATTTTTGTATTTTTAGTAGAGTCGGGGTTTCACCATGTTTGCCAGGCTGATCTCAAACTCCTGGCCTCAAGCAATCCACCCGCCTCC
GCCTCCCAAAGTGCTGGGATTACACGCGTGAGCCACCATGCCCGGTCCTGGACATCCTTTTGAGGGACACAGACATCTCACTTGTGGAAAACAG
CCTCACCTAGCAGAGAGTCACAAATATTTAAAGAACTGTAACAGTATGTATAGTCTCTTGAAATAAGTGCTTTAAACACATCGTCTTCATTCTC
TGGTTTTCCAAGTCCCGAGGGAAACTTGTTGAACTGGTGTTTCTGGGCTTGCAGGGAGGGTGACATGGGTGACTGGGATTCTACAGAAGGTGTT
GGGCCTGTTACCCCTTCCCTCATGGTGGGTGGATGGACAGCTTGTGCTGGGGTTGTCCTGAGTAGGGTGCCTGCCTGTGGGTAGTGGGGACTAC
TCCTTGTTGATTATTTAGTTTTATTTTTGCTATTCTAGAGTGGGGCTATAGGCAGGGGTTATTCGTAGCTCAGAAAGTGGGGGACCATACAGGG
ATGAGGTGCCTGTGGGCCCCTGGCCTTGCTGAACACTAGGCAGGTGTGGACAGTGAACTCCATGCTGGGGAGGTGAAGGGCATCCAACCTCTAC
CCTTACCAGGAAGATGCTCCTGAAGCACTGAAGTCCACTTCGCCTTTGATGGAATTTCCCGTGGTGTAGTGTCTTCGGTGGTAGTGACTGGAAG
AGGCGCATGTGTGGTTGAGGACCAGCCGAAGCTTGGAGGCAGCCCCTCCTGGTGCTCAGAGATTCTGTAGTCTGCGGCTTTGGGTTTTCCATGG
AGTCCTGTGGTAGCCACTGAGAAAAGTTGACCAGTGGGCTCCTCAGCTGGGTCTGGGCGCATTTCTCCATTTTACCACGTACTCAGGGGGTTTG
GGATGAGTGGGACTTTAAGTTCTTTACTCAGAACTGTGCTGGAAAGAGCACTGGAGAGTAGCTTAGGCCCATAACACAGGTCTGGTGAGCCATA
GGGTCGGTCTCATACAGGTCAAGTCACTGTCTTGTGCCTCAGTTTCTCTCTCTCTTTTTTTTTTTTTTTTTTTTAGATGGAGTCTCACTCTGTT
GCCCAGGCTGGAGTGCAGTGGTGCAATCTCGGCTCCCTGCAATCTCTACCTCTCGGGTTCAAGCAAGTCTCTGCCTCACCCTCTCGAGTAGCCG
GGATTACAGGCGCCTGCCACCATGCCTGGCTAATTTTTTTGTATTTTTTAGTAGAGATGGGGTTTCACCATCTTGGCCAGGTTGGTCTTGAACT
CCTGACCTCCTGATCCACCCGCCTCGGCCTCCTAAAGTGCGGGGATTGCAGGTGTGAGCCACTGAGCCCGGCCGAGTTTGTCTGCTATAAAAGT
ATGATTGTCGTCATTACAGTGATTGCTGATTGAGGGCTTGCTCAGCACCTTTCTGGGGGCTCAACGAATGTTCTGTGATGTTGAGTTCACCACC
CTATACCCTGGGAGAGAGATAGTGTGTTTCCATTTCACAGGTCAGCAGACTCGAGCACAGAGAGGTGAGGTAACACAGCCTGGCAGGAGTGGAG
TTGGGATTCAAGGCCTGGTCTGAATGGTGGTGCTCTCACATTGCAGTTGCACTCCAAGGGACCCTTGCAAGGTGCTAACAGATGTGAATGCCTT
TTGGAAAGTCAAAATTGGTGTTCAGATGGGAGACATTATTTTTCCACACCAGTCAGAGTGAACTTGTGCATGGCTGTGTGCGGGCCAACTGGCA
GTGGACAATGGAGTCACCTCTATTTCTTGCAAGGACAGTGGTGCTGAGTGTCTATTATAAGGGTCCGTTTTCCCTGGGATCTGGTGGGAGGCAT
TCTTTCAGGACCTGTTCAGCTAAACAATGCCTCATTGTGGACATGAAGGACTCTGGACCCTGTGGTTCAGGGTGACCTTTTGAACATGCTTAGC
AGCCATTATTATAATAAATATACAAAATGAAAACTTGTGATAAAATACTGTGTGTATTCCCTGCTTACCAAGCGCCAGCCACTGTACCAAGTGT
TGTATATTAACGAGCTAATTCAGTCCTCACAGTGACGCCAATCCAGGCTCTCTTTCTCCATATTAGAGCTGAAGAAAAAGGAGTAGAGAGGTTG
CGACTTGCCCAAAGTCACATACCTAGAAAGTGGTGGGGTGGGTTAGAACTCAGGTCTATTTGATTCCCGAGGCTTCCTGCCCAAGCACTGTCTG
TCTCAACCCTACCTGGTCAAGCCAAGCAGTGAGGCTCCAGGGAACTTGAGGTGCCTTAGGTCAGGTAGGAGCCCCAGGTATGCCTGGGATCCAG
ACCATAGTGTACTGGCTGCCAGCGCAGGCCATCTCCCCTTGATAGGTGGGTGGGCAGGCTGCCCTGAGTCAGCAACCTCCTGAGCCCAGGAGCT
CAGCATGGAACTCAGCTGTGCTGGTGGTGGCCCAGCTGCCAGGGTGTTTCAAAATAGAAGCTACCCCTGGAAAGCTCTACTGCCCACTGCGAGA
CTGTTGTGGAAGAATGGAGGGAGAGAACAGCTGCATTGGGTACGCAGACCTGCTACCAGAACACAGGGCCATCAGCCTTTGCCAGCATCCTGGA
GCTTGAACCAGGAACTGTTCCCCTGGGTTGTTTCTTCCTGGCAAGAAAGAGAAAGTGCTGGAGTGTGTGTGTGTGCATGCGTGCATGTGTGTGA
GCGAGCTGCTGATTGTGTTCGCCCCCATGTTGGCTTTTAGAGCTAGGGTTGCCTTCTGCTGGGGAAGTTGCTTTTCCTGGTCCTCAGGGCTAGG
AAGAGGTGCTGTTTCTGTGATCACTGGCTGGTCTGATACCCCTCCTATAGGCTGGCCTAGTTCTGCCCTGACAAACCACCTAGAATGGTGTTGG
TGAAACAGCGGGGCCAGAGACTTTTCCATAGTACTCTCTTCCTTGGCAGAATCATAAGATGATGGCAATGATGATGATGATGGTTGTGATTGCT
CTGTTGGTTAGCGTCTTTGCAGGGATCTGGTGCACACTTACACTTGGTAATCCAGGAGAGTTTAATGAAGACATCATTTGCAAAGCTGTGGATG
GGGTGTCAGGTCTGGTCTGTTAACACCCTGAGGCCTACAAGAGAGGGAGCTTCTTGGCAGGAGCTGTGGCCTTGGGTAGAGGAAGGTAGTCATT
GCCCATCTGAAGCCTAGCAGGGAGGGAGACTCGGGGTGAGTACCCCGACTTCATTCTTCCCTAAACTCCCGTCTTCTGCAAGTACCTCACGTTG
AAAGGCTAAGCCCAATCATAAGCCCATGGACAGCAGTCCATAATGATCAGTTCTGGGGGCACAGAGCAGGGTGGAAGGGAGGAGAATGGATCTG
GAGGGGCAGACAGAGTATCCAGTGTAGTGGATTATGGTTATTACTGCCATTTGTTGAACACTTACTCCATGCCAGATACTTCTGCTGTTCTGCC
TGTTTCACTCATTCCTTGTAACAACTTCCTTAGGCCTAAGGCCTTTCCTCCCAGCTGTTTTTAGCTGAGTCTTGGAGACCCATGGCCACCCTGC
TCCCTGTATCAACCATTGCAGTAGTTGTTGGCTCTCTAGGGGTGCAAAGCTCATCTGCCTGAATCCTTCTATTATTACTATTTATTTCTTTTTA
TTTTTTATTTAAAAGAGACAGGGTCTCACTGTATTGCCCAGGCTGGTCTCGAACTCCTGCATTCAGGCGATCCTCCTGCCTCAGCCTCCCAAAG
TGCTGGGATTAGAGGCGTGAGCCACCATGCCTGGCACATGCCTGAATCCTTTTGAGGGAGCCTCTGCAGAGAAGAGAGCATATTTCTACCAGGC
GGGGGCCTGGTAGGTGCTTAGTGCAGGAACCGCCCTGAGCTGCTGCTTCTCAGTGGCACCTGGGGGCAGCCCTGCCTGTTAGGCACAGGCTGAG
AGGTAGGGCAGGAGGAGTTCCATCTCTTCTGGCAGGCTCTTCTTGAACAAGCGCCTCCGGTGATTCTTGTGCACCCTGAAGTTAGGGAGCTCTT
TCCTGCTCATGATTTCTGGCAGGGTGGCCAAGCCACTAGTGGTCACCTGGGAGTGAAATGTGCCCCGACGGACCTTGCCTGATAACTCTTCCAT
CTCAGTGTAGTTTAAATCTGTTCTTGCAATCTGTATGGACACTCTAGGTAGCCTTCTGGCATTGCTACTGCAGCAGCCTTGGAACGTGATTTGG
GACACAACACAGCTCAATTTCAGGCACAGTGGTTGGCTTTTAAAGTGCTGTTTTTTTGGAGAGGGAGTCTCTCGCTCTGTCACCCAGGCTGGAG
TGCAGTGGCACGATCTTGGCTCACTGCAGCCTTTGCCTTTGGGTTCAAGTGATTCTCATGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCAC
TTACCACCACGCCCGGCTAATTTTTGTATTGAAATTCTTTATCCTTAAACAAATTATTAGTATACACAAACAGCTTAAATAATGAAGCAGAACA
AAAAATGAAAATTCGATTTGAAGTGCATTCCTTCCCTAAACCTCCTTCTCCAGAAGCGTATCTAAGCCAGCCCCAATTTGCAGATTGGCTTGTA
TCCTTCCACATGCTTTCCCATCCATTCATGAACATAGAAAGATGTGTAAAAAGGTTTTCCTCCAATTACATGGAATTACAAATTTTCTGACTTT
TTTCATTTAACTGTATCATAGCTAGCTAGCTTTCTTTCTTTTTTTTTTTTTTTGTTTCGAGACGGAGTTTTACTCTTGTTGCCCAGGCTGGATTA
CAATGGCGCGATCTCAGCTCACCACAACCTCCACCTCCCAGGTTGAGGCAATTCTTCTGCCCCAGCCTCCCGAGTAGCTGGGATTACAGGCATG
CGCCACCACGCCTGGCTAATTTATTTTGTATTTTTAATAGAGACAGGGTTTCTCCATGTTGGTCAGGGTGGTCTCGAACTCCTGACCTCAGGTG
ACCCGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCGCACGGCTATCGTAGCTTCATAGCTAGCTTTCTATGCCACC
ACATACATCCACCTTATTCTTTTTTTTTTTTTTTTTTTTTTTTGTGAGACAGTCTCGCTCTGTCATCCAGGCTGGAGTGCAGTGGCATGATCTTGG
CTCACTGCAACCTCTGCCTCCTGGTTTAAGCTTGTGCCTCAGCCTCTCAAGTAGCTGGCATTACAGGCGTGCACCATCACACCTGGGTGATTTT
TTTTTTTTATTTTTTTTTTATTTTTAGTAGAGACGGGGTTTTGCCATGTTGGCCAGGTTGATCTGGAAGTCCTGGCCTGAAGTGATCCGCCCAC
CTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCCACCTTATTCTTTTTGATTACCATATGGTACTCCTTAGTTTGCAAGTATAGTA
CCTTAATTTTTATTCATTCATTTTCCTTTTGATGGACTTTTAGGTTGCTTCTGGGTTTTGTGTTACAAATACTGCTGCAGTGAGCATCCTCATA
TACACATCTTTGAGTAGTGCCTTGGTTGCTACAGTGGGGCAGGTTCCTAGAAGTGGAATTGCCACTAGGGTTAATGCTGGGTTAATTGCTCTCC
AAAAAGAGTGTACCTGTAGTACTCCCCCTTGGCGTGAACAAGAGTGACTGGTTTTCCACACCCTCACTGACACTGGATATTATTTACGTTTTTGC
CAGACTGCTGGTTAAGTGAGCTTCTGAAACACAGATGTGGTAGTCACTCAACAGTGGCTCTTGGTGGCCCTTAGAATAAAATCCATGCATGGTA
TTGAGGTCAGAAGCAACCAGTGCTTCTGATGGCACTTGGTCTCCTCAGCCTGAGATCAGCTCTCCTTAGGCCGAGGTGGGAGCAGGCAGGGAGT
GGAGGTCATTGCTAGTTGAGGGTCTCCCCAACTCCCCCACTCTTGGTGATGCTGCAACAGTGAGCCTGCAGAGGGAGCTCTTACTTCCTGGTTG
CATTGTAATGAGTTCCTATTGTCAGATTCCAAGTTTCTACTTTTTTCCCCATTGCTAAATAATACTTTGATGCTCATTGCTCATTCACTCATCA
AACACATTTATATTGAATGCCTATTATGTGCCAGGGCTTAGCATCTTTATATACGTAACTTTTTCCATATTTTGGATAAATTTATGCATGACAG
GCTCTGGGGTGCTTTGAATTCAAAGAGGTGATTTTGGGGGTAGGTGTATGGGGTAGGGTGGGGTGGGGGCACGGTGAGCACAGCAGCTGTCATT
GCCATTCAGCTGATGAGCCAAGAAGGATGTGTACCCCCAAGACAGAGGTTACGTAAGTATTATGCAGACTGTGCTGGGTGATAGATACACTATC
CTTCCCCTCTGTGCTTCCAGTATGGGCCGGATTTTCATTCCTCAGCTGGAATGGGGCTTGCATAATTTGTTCAAGGTCAGCCAAGGAAAGGTTG
GGTAGGTAGACTGGCAGGCTGTGGAGGGGAACCAGGGACTCCTGTATCCTGGTGTGACTTGCTGGTCCTTCTCAAAGTCTTCAGTGACTGCAGG
CAGGTCTGCTCAGCCTGGCCCTGCCCATCCCTCTGTTTCCTACCAACCAGTGGGAACAAAGCCCCCAGGCTCTGCCCTGAAGCCATCACTCAGG

CAGAGAGGCCTGTGGTTCTGACTCCCCCAGGACGCCCTCTGACTTCTGTCTGTCCAGGGCTAGCTGCTTTGCCGATGCCAGACTGCCCTGCTTC
ATGCGCAGCCTCTAGAGGCTCAGCTTGTGAAGGCCCCTGGGGGGTGGATGCTGCAGAGACAGCTGTGTATCAGTAGCTAACTGTACAGGCTCCG
ATTTGGAGCAGATCTGGGTGGAAGGAGTGACTGGGAGGGGTGGGGGCCAGGGTTCAGCCTTCAAGTCAGCACCCTGGCAGGGTGTTAAGTGAAA
GCAGGCTTTGTTGCCGACTTTTCTTTCCTCCAGTCCTCGCCTTAGAAAATTAATGCAGATTATTATTTCTATCATAAAATTGTCTCTGAAATGG
GTTCGAGAGCTGTGTAAAAATGGGCATTTTGGGGGTGCTGTCTGTAGCTGTAAGAAAGCTGAACTTCTCGGAGCGGCAGAGCTGTCTCGGGCCT
TCCTTAGTTCCGTCAGATCAGTGCAGCAGGGGATGGGCCGAAGTGCACAAAAAGGAGGGGAAGCTACCACTACCTGGCAGTTGGGGGCCTTTAG
TGAAAGGGTGAGTCATCCTTTTGCTGTCCTCGGTGGTGTCACTTCAGGCCCAGGAGTGGACTTGACTCCATTCAGCCAGTGGTTTCTGTGAGTC
TTCCTTGCCAGGTGCTATGCTGGGGAGAATGCTTACTTGGGGGCCCAGAACGGGGGAGATTATGCTTCATTGTCGGTGTTCAAGGAGATGGGGA
AGAGAGCAAGACACAGATGAGAAAGCCAGCATCCAGTATGTTTACAGTGAGGCATTGGATAGGGATATGTTTTAGTGAACCAGCAAGTTCACTT
GCGTGCTGCTGGTACCAACTACATGGTTGTGTTGTGGAACCCCACAGCCCCAAAAGAGCTTGGCCGTGTCGGAGCTCCTAGAGGCCCCAGGAGG
GGTCCGGTCTGCTCTTCTGAGCTCTGCTCTCTGAGTGCCTTGTCCTTGGGTGGTAATCTCTTTAGTGGCCTTGTACTTCAGGCTGATGTTTGCT
GTGGGTGGGGTGTTTTTTGACAGGTGGCTGTGCTTGTTGGATTTTGGGGATTAGCGATGAGAGAGGGCATTTGGGGAACATTTAATGGATGAGT
GCTCTGCCTTTATCCTGAGCGGGGACCAGTCCAGATGTGAAGGCTGCTGTGTCTGGGAGGCGTCTCTTCTGTGGGGTCAGGGGAGAGTCGTGGG
GAAGGCTCTGGCTCCTAAGGTCCAGGGAGGTCTTAGGTGACCCACAGATATTACCACTGGACTGCTTCTCCTTCTGCTTCCCCAGCCCCCACCC
CGGCTGAGTTTGTGGCCCCCCTGGGAGGCATAGCACTGAAGAGGGGTACTTGGTTCACTGATGGTTTGTTAACCCTGTCGGGTGGAGAATGTTC
TGGGCCCGTTACTGTTATGTTCTGTGTCTGCCTGGGGTTACATTGCCTCAGCTTTCAATCCAGAGTTGTTCTCCTAGGAAGGTGTCAGGTAAAG
GGTATTTCTTGAGGTTCTGGTGGGTGGTTTCCTGGTCTATCCCGGGGGGATGCACCTACAGGGTTAGTTTGGGAGGGAGGAACAAGTGGGGAGA
GGGGAGCCCCCAGACTGGAAAGAGCCAGTGGCGGGCAGTGTAAAATGGATCTTCCCCCCCTCATCTCTCTACCCTGATACTAATGTGGGCTGACC
TGTCCATGGTTTCAGCCTGATCATGTGCAAGAAATAACACAGCAGCGACAAAAATAGGACAGAGTAAACAGCTCGCTGCTCTTCTGTCTGTGCT
CTGACACAAAAGTGAGCTGGGATAAAATTAACAAAGCATCTGGAAAAAGTAAAGTAGGACCTGGATCACAACTTCACAATTTAAAATTGTAGAA
GTTTATACTGTTTCTTTTACAACATACTCAATGAGTCTGTGGCCTCCTGCAATGCCTTTGAAGTTAAAGCTTTGGCCAAGAATGCAACTTCCAT
TGATGATATGGAAGCATATCATGTCATATGACATGCCAGGAGCATGTCATATATGTGTTTATTTGTGTGAATATATATACATGTAACTTCAGAT
GGTATATATGCAGATGAATTTTGATAATTTAGGTATACTGTATTTTAAAACGAATGGAATGGTCCTTCTGGTTGAGACTAATGATTCTGGGGAT
GGAGAAGGTGCAGGAGATGAGGCTTTCTCATGCATGACCCCCTCTCCTCCTGGGCAGAGCACACCATGTACAGTCCCAGATTAGGATATTAATC
CTGTGTACACAGCATATACAGCATGCCAAAGCAAAGCCTTCCAGGAATGCAGTGTGGTCCTTAGGGCAAAGACTATTTGAGTTACTCTCCTTCC
TTGAACACCGAGGTGCTTAATAAATGTTTGTTGATTGACTTAGTGATATGCAGCAATCCCAAGTAGTCCTTTGATGGTTGGTTTTAAAAATAAA
GTTACACTGGAGCTCAATAAATATTTGTTTAATGTATTTGGAGGATGTATTTGGGTTTTTTCCATGTGAAGAGCTGCCAAACTGGTTTGGTTTT
ACTGTATTCTCTATGAGAAATATGAAGTGGGTTCCCATAAAGTCCAAAAGTTTTGTGAAAAGTTGGGCCCATCCTGGCATATAGTAGGTACTCC
ATAAATATTTGTTGAATGAATGAAATCAGAGCCACATGGAAAATGATGTTCCCATGAAAAGCTCTGATTTCTATTCGGTACATTTAATGTCCTA
GTAGCTGACATTTTGTAAGATGATATGTTTTATTGGCAACAGTCCTACAATTCAGTAAAGTCACTGGCTCATGGGAATGTGTCTTTGACAGTTT
ATTCATTAAGCAAATATTTCCTGACTCCTACTCTGTTCTGGGCCTGGGCTCAGTCCTGGGGATGCTGAGGAGGAGAGGTCTAAATTGTTGATCA
TCTGTCAACAAAGACTCATTGAGTGTCTCAAGCTCTGGCCACAAAATGAAGGACAAGACAGCAAGGGCTTCTTGGCCCATCTGGGAGGATAAGC
TACCTGGTAGTCTTAGTGCTAGGTGATTTTTATTGGTTGCTAATTACATCTAATAATTGTTATTGATGGAAAGCTAATTTCCCTAATTATCAAT
GCATTTATTCTGGTGATTCTTTTATCATAGCAGAAGATGGCTGTGCCACCCACGTATGCCGATCTTGGCAAATCTGCCAGGGATGTCTTCACCA
AGGGCTATGGTGAGTGTTGCAGAGAGGGGGTGCCTTTCAGCTCACAGACTGAGTTGGCATGTTTGAGACTTTACCGATAACTGTTTAGGAGACC
TGGGTAGGTCAGCTGTTCTGAACTTTCACGTGAGGGAAAAAGAAGCTTTCATTTGTGTGGCAATTGTAGCAACTTTGGTTGTGCACCCAGTTG
GACAGGCTCCTGCATTGGTGCTGTCAAGTGGGTATTCTTGTTTTCTTTTCCAAGTGTGGAGCAGCCCTGTGGAAGCTGCTGCAGTGGAGCGCGG
CTTCTATATTTAGCCTGTGCTTAGGCACATGCCCACGAGGCCCAGTAACTGTGTCTTTGCCAGCTGTCAGGTGTCTTCTTATCAGACCCTGCTG
GGAGTGCAGGTGGGACCCAGGTGGGGGTGCCCATTCTGTCTGCTGCTGTTCCATGGCAGCTGAGAGCTCCCCCCACGAGCAGCAGCAGAGACTG
GGTGCCCTCAGCCCCTGTGGCAGGAGTGTGCTTCTTTTTAAAAAAGCATCCTGAAGCAACCATGAGGGAGGCAGAGGTGCTGTTCTCTAGTTAT
TTAACCTATTGACAGTTGTCTTCTTCTTTCTTTAGGATTTGGCTTAATAAAGCTTGATTTGAAAACAAAATCTGAGAATGGATTGGTAAGTTGT
CCAACCCACATGGAACATGAGTATTTATTTATTTTTATTTTATTTTATTTATTTATTTTTGAGATGGAGTTTTGCTCTTGTCGCCCAGGCTGGA
GTACAATGGCGTGATCTCAGCTCACCACAACCTCCACTTCTTGGGTTCAAGCGATTCTCCTACCTCAGCCTACCGAGTAGCTGGGATTACAGGC
ACCCGCCACCATGCTCGGCTAATTTTGTATTTTTAATAGAGACGGGGTTTTTCCATGTTGGTCAGGCTGGTCTTGAACTCCCGACTTCAGGTGA
TCCGCCCACCTTGGCCTCCCAAAGTGCTGGAATTATAGGCATGAGCCACTGCGCCTGGCTTATTTTTATTTTTAAAAAAGATTTTAGATTCAGG
GTGTACATGTGCAGGTTTGTTACATGGATGTATTGTGTAATGGTGAGGTTTGGGCTTCTAGTGTACCCATTACCCAAATAGTGACCATTGTATG
GAACGTGGGAATTTGTTGTAGATCAACAAATAACTGTCGTGACCTGGCCCGCAAAGCCAAAAGAAGGTACTTTTTTTTTTTTATTCTGGCAGTT
TTTGTGGTTTTCACATTCATTCCATTTTCTGCATGATGGGTGGTCCAGGGGAACCATGCCAGTAGGCCCCCAGTTCAGCAGCGGGTAATAGAGG
AGAATGGGTCAGGTCTCAGTTTTAGTTTTCCTTGTGCTTCTTATTTTCAAATTCACCTGCATTCAACCACATAAGTGTTTTTAAAGTAATCTTA
GTAGTCCCTTTGAAATTATGTGTGCAGTAATTGTTGGAAGAAAGAAGTTTTGGGTTTGAATTACCGCTGTGTCAGCTTTAGCTCAGTGCTTTTT
CTCTGTACTGCCCTGGAGCCAGGATGGAAGGGAGATGCTTTCCTGTCCAGACTGAAGAGTTACAGGGAGGAAGGAAGCTGTCTGCTGACAACAA
ATTCCCCATAAGATTTCTTTACATAGCAGGCTCCTTTACTCCCATCTGTACTTTAAATATCTATTTGAATTGTAGAGTTAGCCTTGGCCCCCCC
ACATTCAGGGTCTTGCCTCTTGCAGAAAGGCAAGTATAGTGTTTAGGAGTGAAGTGAAGCCAAGTGAGTGCTATGGTGCAGGCTGTGACTCTTC
TCTCTCCTTTGAAGGAATTTACAAGCTCAGGCTCAGCCAACACTGAGACCACCAAAGTGACGGGCAGTCTGGAAACCAAGTACAGATGGACTGA
GTACGGCCTGACGTTTACAGAGAAATGGAATACCGACAATACACTAGGCACCGAGATTACTGTGGAAGATCAGGTAATGGCTGCTGTGAAAAGA
TGTGGATTTATTAATTCGCATCTGCCAGCCTGCCTTGTGACTAAATCTAGTGGCAAATTTCTTTTCTGTTCAGCTTGCACGTGGACTGAAGCTG
ACCTTCGATTCATCCTTCTCACCTAACACTGGGTAAGAGTTTCATCTGTTTTCTCCACAAGGATGTTCTCTGATGTTGCAGGTGGTGGAAGCCC
TTTGTGACAAAATGTTTTGGGGGCTGACAGCACCTAAAATATGGTCTCCGAGACCTGGCGATTTAAGTCCTCTGGTTTTGATTTGGTCCCAGGG
GTCGTATCCACATCTATGCACTAACAGACTATGCTATAATGAGCACTTCCTAATTCAGGACTGGTGTTTACCCAACAAACGATTTCTAAGTGCC
ACCTGTGCTTGGCCCTGTGCCCATCTGGAGATCTAAGGGTGCCCAGGCCATGATTGTTACCCGCCAAGGAGCTCACTTTCTAATAGAGGATTCA
GACCAGTGTTTAGCCGTGTTTTGTAATAAGATTCTGCATTTTGTTAGTGTTCTCCTAGTTTCTGCCATGGAGGTTGCAGGATTTCTGTTCAGTA
ATAGCCATTTCATGTGAGTTAGGCTGCTGGTGATGTAAGTGGCTATGACCAAACGGGAGTGGGTGACATTTGGAAGCAGGGCCTAACTGGTCAC
TGTTGCCAGCCTCATTTCTTCAGGCATGGAAGTCCTTCTCCCAGCTTCCTGCTGCTTAGGGACACTGAGACCCTGTGGGTGTAACTGCAAGGTG
GCTCCTGAGGCTGCACTTTCCCCAGGCCTTCTGGCCACAGATGTAATAGGCTTGTTAGTTCTTGACCATCACTTGGCATGATAGCATGGTAGTC
TGCCTCAATTCCTGGGTGCTTTTCAAAGTGCCTAGAAGGAATTATTCCCTTTTAGAATACACCCTTGTTTTTTTTCCACTCATATTGGTGGGTCT
TCCAAACCTGGGGAAGATGTTTTATATAGTGATGTTAGGGTCAAGGGCATGTACTGAATTTCAGTTTTTAAAAATTGTGGGCCGGGCGTGGTGG
CTCACGCCTGTAATCCCAACACTTTGGGAGGCTGAGGCAGGCAAATCACCTGAGGTCGGAAGTTTGAGACCAGCCTGACCAACGTGGAGAAACC
CTGTCTCTACTAAACATAAAAATTAGCTGCGCCTGGTGGGCGCATGCCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAA
CCTGGGAGGCAGAGGTTGTGGTGAGCCAAGGTGGTGCCATTGCACTGCACCCTGGGCAAGAAGAGCGAAACTCCATCTCAAAAGAAAAAAAAAA
AAAAGAGTCGGATGCAGTGACTCATGCCTGTGATCCCAGCACTTTGGGAGGCTGAGGTGGGTGGATTGCTTGAGGTCAGGAGTTTGAGACCAGC
CTGGGCAACATGGCAAAACCCCATCTCTAATAAAAATACAAAAATTAGCCAGGCATGATGGTGCGTGCCTGTAGTCCCAGATACTTGGGATGCT
GAGGCATGAGAATCGCTTGAACCCAGGAGACAGAGGTTGCAGTGAGCTGAGATCGCACCACTGCACTCCAGCCTGGGCTACAGAGAGAGACTCT
GTCTCCAAAAAAAAAAAAAAAATTGTGGTAAGATATACATATAAAACTTAACATCTTTAAGTGTGTAGTTAAATGGCACTATGAATTTTTCAGTT

TTGCCATTCATTTTTTTTCTTTCTTCCTTTTTTCCTTTCCAACAGATATTTATTAGAGGGAGGATCTACCAAGTGCAGACCTGTGCTGGGTGTG
CAGTGCACACAAGTGACTGGGCACACAGGGTTCCTATCCTCTGGAGATGTCGTCTTATAGCTTGGCTATAGATGATCTGAAGAGACCATTGTTA
CGGGGCTGATTTACTCTCATTCCTCTTCGCTGCTGTAGTTTCTCCTGCAAGAGCACTGCCTTTTTGCAGTGCTGTGCACTCTCCCCCCAGGAAC
TCTGCCATGGTATCAGGGAGCGGTTATCTGGAAAGATCCTGGGATAGGATGAGAGGCTGGAGGATGTGCCCACATGCTTGAATTTGCTGCCTGG
GACTTTGCCTGCTGCCCTGGGATAGCACACTTTGGAATTTGTAGGCGATTTCCTTCCCATGACCTTAGGGAGCTTTGCAGAGGTCTCCAGGCCA
TGCAGTATAAAACACAAAGGAAAGTTTTTTGGTTTTTTTTTTTTTTTGGGTTGAGGGGGACGGAGTCTTGCTCTGTCGCCCAGGCTGGAGTGCAG
TGGTGTGATCTCAGCTCACTGCAACCTCCTCCTCCCGGGTTCAAGTGATCCTTTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGACACGGGC
CACCATGCCTGGCTAATTTTTGTATTTTTAGTGGAGACGGGGGTTTCACCGTATTGGCCAGGCTGGTCTTGAACTTCTGACCTCGTGATCCACC
TGCCTCGGCCTCCCAAAGTGCTGGGCAGATTCATGTGTTTCTCCTGCCTCAGCCTCCCGAGTAGCCGGGATTACAGGAATGCACCACCACACCC
AGCTAATTTTGTATTTTTAATAGAGACAGGGTCTCTCCATGTTGGTCAGGCTGGTCTTGAACTCCTGACCTTGGGTGATCTGCCCACCTCAGCC
TCCCAAAGTGCCGGGTTTACAGGCGTGAGCCACTGCACCTGCCCCCCTTTTTTTTTTAATTTACTTTTTATTTCAAAATAATTTTATACTTAGA
AAAAAATGTGGCAAAAATAGTATGCAGAGTTCTCCTGTGTTCTTCACCCAGCTCCTAATGTTAATGGTTTACGTAACTATAATGATCAGAATCA
GCAAGTTAATGTTGATATCATATAGTTAATTAATCTGTTGTCACAATGACGTCTTTTTTCTGATCTGTGATCCAGTTCAGGTTCCTAAATTGCA
TCTAATTGTTAAGTCTTCTCTAATCTGGAATATTTTCTGACTCTGACACTTTTGAAAAAGAGTGGCCAATTATTTTGTTAAGATGTCCCTCAGT
TTGGATTTGTCTGATGCTTCCTTATGATTAAATTTAGGTTATGCATTTTTGGCAACTGTAGTTGTTGTGTTATATTCTTCTCTGCACCTGATGT
TAGGAAGAATATATCAGTAGGCCTCATTTTTGGTGATCAGTTTTGAAGTGGTGTCTGCCAACTCTCTTCATTGTAAAGCTACTATTTTTCTCTT
TGTAATTAGTAAGTATCTTGTGGGTAGACACTTTGAGATTATGCAGATATTCTATTTCTCATCATACTTTTGCTCAAAAATAGTAACATCCATT
GGTGATTCTTGCCTGCAACAGTTACGCTTGGCAAATGGTGACTGGAGTGCAGTGGTGTGATCCTGGCTCACTGCAACCTCTGCCTCCTGGGATC
CAGCAATCCTCCTTCCTCAGCCTCCCAAGTAGCTGGGACCACAGGCGTGTGCCACCAAGCCCAGCTAATTTTTGTATTTTTAGTAGAGATGAGG
TTTCACCAGGTTGGCCAGGCTGGTCTAGAACTTCTCAGCTCAAGCGATCCACCCGTCTCAGCCTCCCAAATTGTTGGGATTACAGGTGTGAGCC
ACCACGCCTGGCTACAAATGGTGATTTTCTTTTCTTTTTTGTTTTTATGAGATGGGGTCTCACTCTGTCACCTAGGCTGGAGTGCAGTGGTATG
ATCTCGGCTCATTGCAACCTCTGCCTCCCTGGCTCAAGGGATCCTCCCTCCTCGGCCTCCCCAGTAGCTGGGACTACAGGTGCCTGCTGCCACC
CCTGGTTGATTTTTATATTTTTGGTAGAGACAGTGTTTCACCATGTTGCTCAGTCTGGTCTCAAACTCCTGACTCAAGTGATCTGCCTCCCACC
TTGGCCTCCCAAAATTCTGGGATTACAGGTGTGAGCCACCACACCTGGCCTCAAATGGTAATTTTCTATTGCCATCCTTCCTTCACTTGTTAAT
TGGTATTCTACCGTAAGGAAGAGCTATTCCTTCTTCCCCATGTATTTATTTAATCAATTATTTATTTATATTAGTATAGATGCATGGACATTTA
CTCTATGGGCTATAATGCACAGTGTCATTTATTTTGTCGCTCAAGTTGTCCCAGATATGGGCTTTGGGAGAATACACTCTGTGTGCTTTTTGAC
AAACCTCTGTCGTTTTTCAGAGCATGTCTTTATTTCTGGTTTTAGAAAGTGTACCACGCTCATCTAGTACTTGTTTTTCCCCAGTCCTGCTATC
TGCCATTTCTCCAAGGAGCCTTGGTTCTTTATGTTGGAGAATGATATTTAGAAACTAAGATTGTAGGCCTGGCGCGGGGGCTCATGCCTGCAAT
CCCAGCACTTTGGAATGCTGAGGCAGGTGGATCACGAGGTCAGGTGTTTGAGACCAGCCTGGCAAAACCCTGTCTTTACTAAAAATACAAAAAT
TAGCTGGGTGTGGTGGCGCACACCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGTGGAGGTTGCAGCGA
GCCGAGATGGTACCACTGCACTCCAATGTGGGCGACAGAGCAAGACTCCATCTCAAAAAAAAAACAAAACTAAAATTCTGGGTGCTAGATGTAC
ATAATGCTACTGGGTATTTGAGGAAAGTTCTGGTGGTGCATCATGGAGATTAGAAACGAAAGCTGGCTTTCCAAAGTGACTGAGGGTACAGCCT
GGGAAAACACCTGGCTCCCAGGAGGAGCGGAGTGTAGACCACATCTGGATGAGGCCACAGACCTCAATAAGGACCAGCACCCACGCTGAGTATC
CATCACAAATAAAGCTTGCTTGTTAACCACAAATCAGTCAGGCCTCTCTCGGGTGCTTGTCAAATTAGCACTACTGTTGAAATAGCTTAAAAAT
AAATCCCAATAATATCTGAAAGAGGAAGACTCCACAGACATGGTGTGCAGTGTTAGAAAGAGACCTGGAGAGAAGCCTGAGCCACTCCCCAGCA
CTGCCCTTTCTCTTGGGGATTGTGGGCCCTGGCCAGAATCCAGTGAGACAGTGGGTGGGGGTGCCATGTCAACTGGTGCAGGTGGTGCACACCA
CTGGTCAGAGGCCCTGCCATAGGCATCATAGTTTGTGATCATCAGCAGCTTTTTATTAAAAATTGAAAAAGGAGATGGTTAGAAGATGCCTGAT
TTTATATTTCCTTTTCCCTTTGTAAATGTCAGCCTCTCAACAGCTGTCTAATCATCAGTCATCTCAACCAGCCTGGTGCCAATCACATACTTGG
CTGAAACCCAGACTTCTTTCCCCAAAGAGCAGGCAGATGAAGATAGGTTTCTTTTTCTTTTTTCTTGAGACATCTTGCTCTGTCGCTCAGGCTG
GAGTGCAGTGATGTGATTTCAGCTCACTGCAACCTCCACCTCCCAGGTTCAAGCAATTCTCGTGCCTCAGCCTCCTGAATAGCTGGGATTACAG
GCACATGCCACCACGTCCTGCTAATTTTTGTATTTTTAGTAGAGACAGGGTTTTTCCGTGTTGGCCAGGCTGGTCTCCAACTCCTGACCTCAAG
TGATCTGCCCTCCTTGGAGTGCTGGGATTACAGGTGTGAGCCACTACGCCTGACCAGTTTTGGATTTTTCTTATTGAGAGATAATTTGGTTGTT
ACTCCTTTCCTTCAAACCTTGCCAAAATGTACAGAAGTAACTTGAACAAAATTGAGGTTCCAAGGCATAAGTTTCATTGTCACTTGTTCTGTTG
GTGAGCAGGTCTGTGCACACCTACTCCCAACTGCTGAGGGAGCTGAGCAGCCAAAGAAAGAGACTGACAAATCCAGTTTCTCAGAAAGAAACAT
TTAATAGAGACTTACAAATAGAAGCGATGTCTCAAGCAGCCAAGAGACAGTGGATCCCTGCATTCATCCTCCAGAAAGTATTCTTTATATAGCA
AGCTTTTAGAGTAAAGACATGTGCATGTCTTAGACCATCTTGCAGAAAACTCTTGCAAAACTTGTGACCAAAGGGAGGTTAGATAAGCATCTTT
ACTTTTTAAATTTTTATTTATTTATTTTTTTGAGACAGTCTCACTCTGTCACCCGGGCTGGACTGCAGAGGCGTGATCTTGGCTCATTGCAACC
TCTGCCTCCCGGGTTCCAGCGATTCTTCTGCCTCAGCCTCCTGAGTGTCTGGGACTACAGGTGTGCACCACCACACCCAGCTAATTTTTGTATT
TTTAGTAGAGATGGAATTTTGCCATGTTGGCCAGGCTGGTCTTGAACTCCTAAGCTCAAGTGATCTACCTGCCTTGGCCTCTAAAAGTGTTGGA
ATTACAGGTGTGAGGCACTGTGCCCGGCTGGCATTGTTTCTTTTATGGGATTGTCTATGATGCATTCCTTGGTCGTCATGGCTGTATTAGGCTA
TTCTTGCCAGGCAAGGTGGCTCACGCCTGTAATCCTAGCATTTTTGGAGGCTGAGGCAGGCAGATTGCTTGAGCCCAGGAGTTGGAGACCAGCC
TAGGTAACATGGTGAAACCCCATCTACACACACACACACACACACACACACACACACACACACACACACACACACACACACGCTGGTCATTGTGGTGAGC
GCCTATAGTCTTGTCCTTGCATTGCTCTAAAGAAATACCTGGCCAGGCGAGGTGGCTCACACCTGCCAGCATTTTGGGAGGCTAAGGCA
GGCAGATTGCTTGAGCCCAGGAGTTGGAGACCAGCCTAGGCAACATGGTTAAACCCCGTCTACCCACATGCACACACACACTAGCTGGGCCTGG
TGGTGCGCACCTATAGTCAGTTCTAGCTACCTGGGAGGCTGAGGTGGGAGGATCACCTGAGCTCAGGAGGTAGGGGCTGTAGTGAGCCATGATC
GCACCACTGCACTCCTGCCTGGACAACAGAGTGAGACCTTGTCTGAAAAAAAGAAAAAAATACCTGAGGATAGCTAATTTATGAAGAAAAGAGG
TTCAATTGGCTCATGGTTCTGCAGTCTGTACAAGCAGAGCACAGGCATCTGCTCGGCTTCTGGGAAGGCGTCAGGAAGCTTTTAGTCATGGTGA
TTGATGAAGCAGGAGCAGGCACATCACATGGCAAGAGCAGGAGCAAGAGAGAGAGAGTGGTGGGGAGGTGCCACACGCAAACAACCAGATCTCA
TAACTCATTATTGGGAGGACAGCACCAATCCATGAGGGATCCACCCCCATGGTCTAACCACCACCCAGCAGGTCCAACACTGGGGACTGCATTT
CAACATGAGATTCAGAAGATACAGCATCGAAACTGTATCAGTGGTGATTTTGTTTCAAGACGGTGTCACTCTTGCCATGGAACAGGCTATTTTC
CTACATCACTTGGGAGGGGTGCTGGCTTTATTTTCAGCTGTGACCTCTAAAATTCTTGTCTCATTGAGAATTTGGAATTTTTAACCTTTATTTT
TTTTTAATGAGAAATCTGAAACATACAAAAATATACAGAAAAATATGTTTAACCCTCATTCTATTCCTATCACACAGCTTTGATAGTTACCAAC
CTGTGGCCAATCATGTTTTATTTATACAGCCATAAATATAACACTCCTCCACGCACATACTATTTTAAGTAAATAACAACACTTAATTTCAGCT
GTAAATATTTTATTATGTATCTTTAAATGGCAATAATCCATTTTAAAGGAGCATAACCATGATATTATTATTATATTGAAAAAAGTTGATCATT
TCTTTTTCTTTTTTTTTTTTTTTTTAAAGATGGAGTTTCACTCTTGTTGCCCAGGCTGGAGTGCAATGGTGCGATCTCAGCTCACGCAGCCTCCGC
CTCCCGGGTTCAAGTGATTGTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGGGCCACCACACCCGGCTAATTTTGTGTTTTTAGT
AGAGACGGGATTTCTCCGTGTTGGTCAGGCTGGGCTCGAACTCCCGACCTCAGGTGATCCGCCTGCCCCAGCCTCCCAAAGTGCTGAGATTACA
GGCATGAGCCACTGCGCCCAGTGGATCATTTCTTAATATTGTCAAATCTCTAGTCTGTTCAAATTTACATGATTGTTTCATGATTTTTTTTTTT
TTTTTTGAGACTGAGTTTTATTCTTGCTACCCAGGCTGGAGTGCAGTGGCGCGGTCTTGGCTCACTGCAACCTCCACCTCCTGGGTTCAAGTGA
TTCTCCTGCCTCAGCCTCCCAAGTAGATGAGATTACAGGCATGTGCCACCACACCCAGCTAATTTTTGCATTTTTAGTAGAGATGGGGTTTTGC
CATGTTGGCCAGGCTGGCCTTGAACTCCTGACCTCAGGTGATCCACCCACCTCGGCCTCCCGAAGTGTTGGGATTATAGGCGTAAGCCACCGCA
CCTGGCCTTTTGCTGTTTTTAAAATAACAGGTTGGTTCTTTAGTCTCTAAAGATGACAGCTATGTGATTTGAGCGTTATTATAATTCTTTTTTT
TTTTTTTTTGAGACGGAGTCTTACTCTGTCGCCCAGGCTGGAGTGCAGTGGCGCGATCTCGGCTCACTGCAACCTCTGCCTCCCGGGTTCAAGC

GTTTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACACACGCCCACCACCGCGCCCAGCTAATTTTTGTGTTTTTTAGTAGAGACGGTGTTTC
ACCATGTTGGCCAGGCTGGTCTCGAACTTCTGACCTTGTGATCCACCTGCCTCAGCCTCCCAAAGTGCTGGAATTACTGGCATGAGCCACTGCG
CCTGGCCCCGAGTGTCATTATAATGCCTAGAATAAACATACTGTTTAATATGTTTCAGCCTATTGCTAATATTTTTCTTATTGAGGCTCACATT
GCTCCATTGTCGAAGCCCTTGGGAGCCTCTTCAGGTTACCTTGTAAGTCCTTTTGCCTCCACCCCAGTAGTCTTCAATAGCTTTGATAGATGTT
TTAGGTTACTGTGTACATTTCCTGCCTAAGATCTGTAGTTGGCCATTTCTCCAAGGAGCACTGGTTCCATTTAGGAGGAAATGGTCTAGGTGCT
GAGGATGAAGCATTAATCTCAATGTGAATAAAGCTAGAAGTGAACAGTGCTGTGTAGTCCTTGAGGCTCTGAGTGGATCTGGTTCCTCCTGTGG
TCTCTGCTGAGAATGCAGCTTCCTGTGGGAGATGTCGATCTTGTAACTGAATGATAGAGACAATCAGATAAAAATGATCCATGTTGTATTTGTT
GGATGTGATCTTGTTCTCCAGTGTGTACTTTTGGTAAAAGACATGGTAATAATAGGTCTGCAGGTGACACTATTCACCTGCTCTTCCTAAGGGA
TGCTGGGTCTTGAGGAACCGGCAGTAGAGACACTGAACTGCTTATAGACTCACATCTGGTATCATCAGGTTGGACCTGGGATACTGTCTGGCTA
ACTAACACTTCCTGGCCCCCATGACTGCAGAGTTCCAGGTTCTACATCAGTACCCGGTTCTCTGAAATATGTACTCATTGGGGTCTCATGAATA
TGGAATTGAAATCCATTTTACTGTTGTACTCACTTAGAGGGAACATAGCCTTTGTTTCCTTACTTAACCATGTGAGCCACAGAGTTAAGAAGAAA
ACCGTCTCTTTAAAAGCTGCTATTTAGGTAGCTGCCTTCATGGCAGATAAATCTTTTCCACAGGTTTGGAAAATATCAAAGATGCATCTGTTTC
ATAATTACATGGTGGCTTTCTACCTAATGAATGCCTGTGTAGGCTGCTACGTTAAGCATACAAAGAGGATAGGAGAAGAAAGTTACTTCGTATT
TATTTTTCAGGCTTTTCCTGTCTGTGTTCTCACTTCGTTATTGTGGGGTTTCTGCAGACTGAGTCCCTGTGGAAGAGAGGTTGTGTCCTGCTCA
TTGTGGTACAGCAGTGGCTTAAGGGAGAACTGGAGCCCTGACTTCACCCCCACCCCACTCCCTTTATTTGACCTGGGATTAAAAAAAAAAAAAA
GACAACTTGCATTTCAAGGTGAGTTAGCTTCTGATCTTAATATAACTTATTTTCCTTCAGGAAAAAAAATGCTAAAATCAAGACAGGGTACAAG
CGGGAGCACATTAACCTGGGCTGCGACATGGATTTCGACATTGCTGGGCCTTCCATCCGGGGTGCTCTGGTGCTAGGTTACGAGGGCTGGCTGG
CCGGCTACCAGATGAATTTTGAGACTGCAAAATCCCGAGTGACCCAGAGCAACTTTGCAGTTGGCTACAAGACTGATGAATTCCAGCTTCACAC
TAATGTGTAAGTGTACATGGGGGCAGCAGGGTGGGAGGGGTGGGGTTGGAGCATGTGTGGTAAGGGGATTGCTTTTCACTGTTTTTTTTTTTTT
TTTTTTAAGAAAGCCCAGTTTTTAACCACTGTAAAGTGAGTTTGTTGGCATTAGATGAGCCACATGGCCTGCTGCTATCTTTTGTTTCCCACCT
ACCCATTTCCTGGAGTGTCTTAGATCCTTTCCACTCTGTGAACAGTATATATTGCCACAGGTACACAAAGTGGCTGATTAATTACAGCAGGGAC
ATGGTGTCAGTCCAGAGCGTGTCCATTCCCTGCAGTTTTTGTTTTAGTTAACAAAACAGCTCTCTTTCTCTGTCTAATGCCTGAGGATTAGCCT
GCTGGGCTTGATGACATGTAGACATGGTAGACAAATTTAGGAGCTGATTATCTCAGTTACAAACTATCTTCTCTGTACAGTGAAGCATGTAAAA
GTAACTATTGGACAGTATGGTGAAGGGAAACAGTGATTATAGGTTAGGAGAGAGCCCCTTGAGAATTGAAGTAGATTGATGATTTAAGTTAAGG
GAAACACATTTCATTCATGAATCTTGTTTTTATCCATAAACCTTGTTTTATTTAGTTTCATGAGGAATTAACCTGTGACAGGCACAAGCTGGGTG
CAGAGTTACCATGTTTATTTCTTTCCACTAGAGGTCACTAAAGAAGTAACTTCTTAAACTTAAGGCAAATCAGTGATATTAATGTGTAAACTAA
TATTTCCATTAATAAATTTTTTGAGGAATTTTTATCATTAATTTGGAATCTGTTACAGCTAAAAAGTCACAGGAAAACTATAGAGATGGACAAT
CTAGTGGTTGGCAGGGGGCGGGGAGGGTATGACTACAAAGCAGTGACTGAGGGAGTTTCGGGGAGGGAACTGTTCTATATTCTGACTGTCGTCA
TGGTTACATTAATCTGTGTACGTGTGTTAAAATTCGTAAAAATGTATACCAAGAAAATATCCATTTTGGCCGGGCGTCGTGGCTCACGCCTGTA
ATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACGAGGTCAGAAGTTCAAGACCAGCCTGGTCAAGAAGGTGAAACCCCATCTCTACTAAA
AATACAAAAATTAGCTGGGCGTGGTGGCGGGTGCCTGTAATCCCAGCTACTTGGGAGGCTGAAGCAGGAGAATCGCTTGAACCTGGGAGGTGGA
GTTTGCAATGAGCCGAGATCACGCCACTGCGCTCTAGCCTGAGCAACAGAGCAAGACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAGCAA
AGAAAATATCAATTTTATTATATGTTTAATTAAGAAGAGGTGAAACATACTAAAAAGCTATAGGAAACATACCACATGCATAGAAATGTTTTTG
AACGTAGAATTCTGATTGGCATGGGAAGTGTTTTCCTTGGTTTGAAATTGGGCATTGGCACCAATTCTTCAGTACCAATTCTAGGAGGAACAAT
GGCTGTTAGCCATTTCCCCCACATATCTGAGCTTCAGCATTTTAAATAAGCAACAAGTGGGTATGGTTTATTTTTGGAACCAGCGTGAAGGCAG
CTGACACAACTCATCTGGGTTGCCCTGGTGCTTGCAGGGGCCCAAATGCATATAACAGAAATTCTTTGTGCTTCATATAGATGAATTTGAACAGTT
CCACCTGTGTATTTATTTATTTATTATTATTATTTTTTTGGTGACAGGGTCTCACTCTCTCACCCAGGCTGGAGTTCAGTGGCACGATCTCTGCA
GCCTCCACCTCCCGGGATTAAGTGATACTCCCACCTCAGCCTTGCAAGTAGCTGGGACTACAGGTGCATGCCACCACACCTGGCTAATTTTTGT
ATTTTTTGTGGAGGCAGGATTTCGCCATGTTGCCCAGGTTGTTCTTGAACTTGTGAGCTCAAGCGATCTGCCCGCCTTGGCCTCCCAAAGTGCT
GGGATTACAGGTGTGAGCCACTGCATCTGCCTTCTGTTTATGGTTTTGAAAGCTCTGTACAGGAAGGCAGTATTGTGTTCCTGGTTTTAGGATA
TTCTGAAAAGTCTGGCCTTTTTTAAAAACATGTAAGCCCAAGAAACTTCCCCATTTGAATATATTACTAAAGTCATTCAAAAATCTTATTTTTG
ACAGGCTGCTGTTTTATTGTAGCATACTTGGGCTGTCTACAGAAGACAGGATTCTCTGTGAATCAGGCAGTGCCTGGGTCTCCCTGTACTTTCT
AGAAGCATAATGTCTGTCTCGCTGAATTTCATGGGGAAACGAAAATTTACAATGTGTGGCTCATACGTGTAATCCTAGCTACTTGGGAGGCTGA
GGCGGGAGGATCACTTGAGGCCAGGAGTTTGGGACCAGCCTGGGGAACATAGAAATACTCTGTCTCTAAGAAATTTTTTAAAAATTAGCTGGGC
ATGGTGGCAACATGCCTGTGATCACTTGAGCCCAGGAGTTTGAGGTTACAGTGAGCTATGATTTTGCCACTGCTCTCCAGCCTGGGAAACAGAG
CAAGATCCCATCTTGGGGAAAAAAAAAAAAAGAAAATTTAGAATGTATTCTCTGATTTAGGGAGAGTGTCTTGTGAAGACTAGAGTTTTTGTTCT
TAGGTCCTGAAGCCCTTTGCTGGATTCCAAAGTACGTGGGCTCTGACTCACAGTTAACCAATGCCATTTCCACTGGAAATGCCCACAATGATGA
GGCAGAACTCAGACACTGATTTTATGTTAAAGATGTTTGAGAGGGTCTAGGCAGGCTTGAAGACCATCTGATGCAAGGAGGATGGTCATTCCTT
TTTAAAAAATTGCAGCATTAAAATTTTTCTTAATTTTTTTAATCAAAGGAGTCTGAACCCATGGTTGTAAAATCAAACAGTACAGATGGGCCTA
TGAAAAGCAGTGATTCCAGCCTGCCTCAGCCTGCTCATCCCAGCTCCGCAGTGGCAGCCACTTTAACTGTTTTTGTTTTCTGTGGTTCCCTCCA
TGGAGAAGGTTGCTTCTGACCAGGCACCAGTATGCACTGTGTGTATAAACAACAATCTGAAAGCAGTAATGAGAGACAGTCTATGATCTGTGCC
GACCCCAGCCCGACAGAGGACAAAGTGTAGACTCTGAGCTCTTCGTATGCCTTTTTAGGGGTGGCAGTGACTGCAGAGTTTGTATAGGCTGTTC
AGCTGGGTGGGGCAGACTTTCAAATTCTGAGAGCTTAAGCAGGGCCCCAAAAGAGGAAGAGGAGAATTTGAATGACTGAAGAAGGGAAAGGGAT
ATTCCCAGCAACTGGAGTCATTCAGTGTGTTTGTAAGAGAGGAGGGAGCTTGGCCAGCTGGGGTTTCATTCTGAATGTTTTTGAAAGAGGGAGA
CATTTTATGATGTAGCAAAAAGCTCCCTTTCAAATCCTGCCAGGCTTAGATGTTGCAGCATGGGTGAGGAGTATGCACAGGTGGACGAGATGAA
TTGTGGATTAAGCTCTTTTGAAGTGCTGCTCCTCCAAGAGGCTGGGTCAGTGCCAACTGTATCTCCCCAGCAGTGGCTGCAGCAGGTTGTGCCA
AGGGCTCTAACTTGCCTTCTGAGGCATATGTGCAGCCCCACCTTTCTTGCCATTTCTGGCTGTGTTCTCTTCTCATTTCTTCTCTTTCCATAA
CATTTTTTATTTTTACTTTTATTTTTTGAGCCAGAGTCTCACTCTGTCACCCAGACTGGAGTGCAGTGGTGAGATCTCAGCTCACTGCAACCTC
TGCCTCCTGGGTTCAGACGATTCTCCTGCCTCACCCCCCCAGGTTGCTGGGATTACAGGCACCTGCCACCATGCCCAGCTAATTTTTATGTTTT
TAGTAGAGACAGGGTTTCATCATGTTAGCCAGGCTGGTCTCAAACTCCTGACCTCAAATGATCTGCCCGCCTTGGCCTCCCAAAGTGCTGGGAT
TATAGGCATGAGCCACTGCACCCGGACTTCCATGCCATTTTTCTGGTAGAATCGTTTATAAAAGTAATAACATCAGTAGCAGTAAAAATAAATC
ACTCAGAATCTCAGTGCTCTACTTGCTGCTTCTTTTTTTTTTTTTTCCTTATAGAGACAGGATCTCGCTCTGTTGCCCAAGCTATATCCTGGGC
TCAAGCAGTCCTGCTGCCTCGGCCTCCCAAAATGCTAGGATTACAGGCGTGAGTCACCACGTACCCCCTCTCCCCTGGCTTTTTCTTTTTTTGT
TTGAGACAATGTCTTGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCGCGATCTCGGCTTACTGCAACCTCTGCCTCCCAGGTTCAAGCGATTCTC
CTGCCTCAGCCTCTTGAGTAGCTGGGATTACAGGCGTATGGCACCAGCCCGGTCAATTTTTGTATTTTTAGTAGAAACAGGGTTTCACCATGTT
GGCCAGGCTGGTCTCAAACCCCTGACCTCAAGTGATCTGCCCATCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGTGCCTGGC
TAGGTGCCTGTTCCATACTTATCAGACTTCCTGTAATTTAGTACCTGTTTTGTGAAATTTGGTGAACTTCTGACTTCCCTTAATACCAGTATTG
GTTCAGTCCATTTCTGTCATCCCTGTCTTCTGGGAGACTTGGGTGGATCTGTCTGGGCTGCAGCTCACCTCCCTGGGAAGCTCAGCATCTGTCC
TGTGCTTGTTTGCAGGAATGACGGGACAGAGTTTGGCGGCTCCATTTACCAGAAAGTGAACAAGAAGTTGGAGACCGCTGTCAATCTTGCCTGG
ACAGCAGGAAACAGTAACACGCGCTTCGGAATAGCAGCCAAGTATCAGATTGACCCTGACGCCTGCTTCTCGGTGGGTATCTGTGGAATCACGC
ATCTCACAGGCAGGCCCATCTGCTCTTTATGTTGGAATCCTTCAGGTTTGCTGGAGTGCTGTGCTTCAGCTTACTCAAAGTGAGAGATGCTGCT
GGGCGCCGTGACTCACGCCTGTAATCCCTGCACTTTGGGAGGCCAAGGCAGGCAGATCACTTGAGGTCAGGAGTCTGACACCAGCCTCGCCAAC
ACGGTGAAACCCTGTCTACTAAAAGTACAAAAATTAGCCGGGCATGGTGGCGTGTGCCTGTAATCCCAGCTACTCGAGAGGCTGAGGCAGGAGA

ATTGCTTGAACCGGGGAGGCGGAGGTTGCAGTGAGCTGAGATCGTGTCACTGCACTCCAGCCTGGGTGACAGAGTGAGATTCTATCTCAAAAAA
AAAAAAAAGACTCCGTCTCAAAAAAACAAAAACAAAGTGAGAGATGTTCTCACTTTGAAAAGAGTGCCAAATGAGTACAGTGATCATACTACTA
GTACTTCTTATGGGTACCAGGCACTGTGCAGAGCCTTTTGTGTAGATTACTGTGTTTAATCCCATTTGAAATAGGTGCTTTGGTTTTTTAATCA
TCTCTGGGTTTTTTTTTATTTTTTGTTTTTTTTGAGACAAGGCCCAGGTTGGATGCAGTGGTGTAATTGCAGCTCACTGCAGCCTCATCCTCCTGT
GCTCAAGTAATCCTGCCACCTCAGCCTCCCAAGTAGCTGGGACTATAGGCACACCAGCATGCCTGGCTAATTAAAAAAAAATTTTTAGTAGAGA
CAATGTCTCACTCTGTTGCCTGGGCTGGTCTCAAACTCCTGGGCTCAAGCTGTCCTCCCACCTCAACCTCCCAAATGTTGGGATTACAAGGCAT
GAGCCACCATGCCTGGCCAATCATCTCTGTTTGTTTGTTTTTTTTTTTTGAGACGGAGTCTCCCTTTGTTGCCCAGGCTGGAGTGCAATGGCACG
ATCTCAGCTCACTGCGCAACCTCCGTCCCCCAGGTTCAAGTGATTCTACTGCCTCACCCTCCCATGTAGCTGGGAACACAGGCACCCACCACCA
CACCTGGATAATTTTTGTGTTTTTAGTATAGACGGGGTTTCACCATGTTGGTCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCTGCCTGCC
TCGGCCTCCCAAAATGCTGGAATTACAGGCATGAGCCATGGCCCCTGGCCAATCATCTCTGTTTTTACAAATGAGGAACTAGAAACTTAGGTGA
GTAACTTGCTCAAAGGTACACAGCAGGAAAGTGCTGGGAGCTGGATTTGAACCAGACTGGCTTACTGTTAAGCCTCTTCCATTAATACCAGTTC
CTGTTCTATCATGCGGACTGTTAAAAGGGGCACTCTGAAATCTAGGGTTCTAATTGATAATTCCCCCCGCCCCGCCTCACTTTTCATTCTCCTT
TTCAGCTCCTGCATTGCATATTAAGAAATCAATAGTCAGTTGGCATCTTGCAGAGTCTCTGGCATTGCTCACAGGCCCTCGAACTACTACACAG
TTTTTGCAGTAAATCCTATTGGGCTCATTTCTGTTGTCACAGGGCACTGGCGGCTGTATCTCTTTGGGGTGAAATGAGGGAATCTCATGTTGCA
GAATGGTGTCTGTACTGGTTTGTGTAATTTATGGACAGCCCTTTTTAAGTCTCCTAAACTAGAACCGAATTTGGCTCCCTTAACAGCAAGCACT
TAAAAACAAGAGAAAAGGAGCCTCATTATTTATATGAGCAAAAGGACACTGGCCCCTAAGAGGCCTTCCTTCTCTCTGCTTTGTTCTTATGAGG
GGTGTCAGATCTCAGCACACCCTTTGAACAGAAAGGTATGCACCTAAAATTGATGTATTTTGTATTGAATTTAATGAATCTCATGAACAAGGTG
GTCATGAAAAATTTTGATTCTAAAGTCCAAGGTTGGTTGACTAAAAAGCTCTAATTTTGGAGATGGAAGTGCAAAGTATTATACTTAATGTTTT
CTCTGTTTTGTCATTTCCTTGATTAGGCTAAAGTGAACAACTCCAGCCTGATAGGTTTAGGATACACTCAGACTCTAAAGCCAGGTATGTGTTG
CTTGTGTGTGAAATCGGTTCTTTATCTTAAAAAAATTGTGGTGCTGGTTTGCTGATTTATGTCATTGCTTATAAAATGTTTATATAATACAGTG
GGTATATATAAATGGATATATGTAAAGTATAATTAAATGTTTATAAAGGAGTATGGGGTCATTATAAAACATTTGGAGAATATGAGATGTAGCA
AGCAGGAGGAAAAAGGCTGAGGCTAACACATATTCTTTGCTATTTTCTTCCATCCTTTTTTCCAGTGTGGACATAATGCTTGATACTTATTTCT
GGCAGATTCTCAAAACTAACTTATAAATCAGCCCCACTGTAAAAAGACAAAGAAATAGGAAAAGTGGTTTGCAGGTTTCCTCTGCACAGTTGGC
TAGGCCAGTCCACGGCGTATTATAGTTCTAGTGTATAACCACTTTTGAACCCTGGAAATCTAAGACTACCAGCTACTCCCTGAATCAGGTTATT
CCAGGGAATGTCAGTTTGTTGTGTGCATCTGTGGATGTACATGCACACTACACATGTGTGTACACTATGAACATGAACATGTAAGACCTTAGGT
TGGATTCAGGATTGAGGTTTCATTTAAAGGGATGATTGCCAAAGAAGCTTACTGCATGCTACCAGTGCTATAGACTAATTGTACCAGGGGAACA
GTGAGAGGAAAAAGGAAAGTGGGGTTCCAGAAGTAGATTTGGGTAGGCTCTCTGGGCGGTGGGATAATTATAGTTGTTTTATAAGCCCACTGTA
GTATGCCTGTTGGTCAGATAGTGCTAAGTAACAAGGATTGAAGGGCCATGTAGTTTGGACCCTGCTGATAATACCTGGAACGAGTTCTGAATTT
GGTGTTAATCTTTCTTGTCATTTCTTTCCTCCATTCCTCCTCCTTTCCTCTCCCTCATTTTTCTCCCTGCAGGTATTAAACTGACACTGTCAGC
TCTTCTGGATGGCAAGAACGTCAATGCTGGTGGCCACAAGCTTGGTCTAGGACTGGAATTTCAAGCATAAATGAATACTGTACAATTGTTTAAT
TTTAAACTATTTTGCAGCATAGCTACCTTCAGAATTTAGTGTATCTTTTAATGTTGTATGTCTGGGATGCAAGTATTGCTAAATATGTTAGCCC
TCCAGGTTAAAGTTGATTCAGCTTTAAGATGTTACCCTTCCAGAGGTACAGAAGAAACCTATTTCCAAAAAAGGTCCTTTCAGTGGTAGACTCG
GGGAGAACTTGGTGGCCCCTTTGAGATGCCAGGTTTCTTTTTTATCTAGAAATGGCTGCAAGTGGAAGCGGATAATATGTAGGCACTTTGTAAA
TTCATATTGAGTAAATGAATGAAATTGTGATTTCCTGAGAATCGAACCTTGGTTCCCTAACCCTAATTGATGAGAGGCTCGCTGCTTGATGGTG
TGTACAAACTCACCTGAATGGGACTTTTTAGACAGATCTTCATGACCTGTTCCCACCCCAGTTCATCATCTCTTTTACACCAAAAGGTCT
GCAGGGTGTGGTAACTGTTTCTTTTGTGCCATTTTGGGGTGGAGAAGGTGGATGTGATGAAGCCAATAATTCAGGACTTATTCCTTCTTGTGTT
GTGTTTTTTTTTTGCCCTTGCACCAGAGTATGAAATAGCTTCCAGGAGCTCCAGCTATAAGCTTGGAAGTGTCTGTGTGATTGTAATCACATGG
TGACAACACTCAGAATCTAAATTGGACTTCTGTTGTATTCTCACCACTCAATTTGTTTTTTAGCAGTTTAATGGGTACATTTTAGAGTCTTCCA
TTTTGTTGGAATTAGATCCTCCCCTTCAAAATGCTGTAATTAACAACACTTAAAAAACTTGAATAAAATATTGAAACCTCATCCTTCTTCTGTTG
TCTTTATTAATAAAATATAAATAAACAGGGCATTTGTTTAGATTTATTTTGTCTTCATGCTCTGTGTATTATATATTATTCGTTTTCACTCACT
GTACAACAGATTACCATATGTTTAGCAGCTTAAAACAACACTCATTTATTTCACAGTTCTGCAGGTCAAAGCGAGGCAGGTGTGCATGCCTACC
TGGACTGTGCTTAGCTTCTCACAATGCTGGAATTAGGGTGTCGACCAGGCTGTCTTCTCATTTTATCTGGGGGCTTGGCGTCCTCTTCCAGGCT
TTCAGGGTTGTGGTGGAATTCAGTTATTTTCAGTTGTAGGACAGAGGTCCCTATTTCTTTGTTGGCTGAGCCACTCTCAGTGCTCAGAGGATGC
CAGCATTCCTTGCCATGGGGTCCCCTCCATCGCCAAAGCCAGAAACAGAAAAACTCCCTCATGTGAAATCCCTCTCACACTTCCAGTCTCCTCC
AGGTAGAGCCCCAACCCTTTTAAGGACTCACCTGATTAGGTTAGGCCCAATGAGGGTAATCTCCCTTCAAGTTAACTGCCAGGTAAAGTAACCT
AATCACTGGTAATATCCTTTCATGTTTGTAGGTCCCTCCATATGGGTCATGGGAAGGGGTGATTTTGGAATTCTCCCATATATTTATATGTTTT
TAATAACTTGATGGTGGATTTTTTTTTTTTTGAGGCGGAGTTTCATTCTTGTTGCCCAGGCTGGAATGCAATGGCGCACAATGTCTGCTCACTG
CAAGCTCCGCCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCCGCCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGC
TAGGATTACAAACATTTGCCACCACACCCGGCTAATTTTGTATTTTTAGTAGAGATGGGGTTTCTCCATGTTGGTCAGGCTGGTCTCAAACTCC
TGACCTCAGGTGATCTGCTCACCTTGGCCTCCAAAAGTGCTGGGATTACAGGCGTGAGCCACCACATCCAGCCTATTGTGGAAACACAAATAGT
AATAAACTCTATGCATGATCCAGCTTCAACAAATATGAACATTTTTTTCCATTCATGATTTTTCAGCAGAATTCCTTTTTTTTTCTATGTTTGAA
AGTGACATTCAAAACAGGAACCATCTATTTTAGCATTTTATGCAACTGATCACCCAAAAACTGTGGGCCTCAGTATTTGTCATACTGTCTTCAG
GGACTTGCAGCTATTTCTAAGTGAATGTTCATAGAATTTATCCAGAGATTATGGCACATAGTGGTTGCTGGGTACATCTAGTCAGATGTCAGGT
ACAGTATTAAGATATTTTACTTTTAGAGACAGTCTTACTCTGTCACCCAGACTGAAGTGCACTGTCATCATCATAGCTCACTGCAGCCTTGAAC
TCCTGGGCTCCTGTGATCCTCCCATCTCAGCCTCCCGAGTACTTGGGATTACAGGCATAAGCCTGGCCCTAAAATATTTAAAAATGTATAAAGG
GTTCTCTTGAGTATGAGGGAATATTTCCCTCACTAGTTACTTATTGTCTGCTTGTTGCATGCAGCATGTTGGAATATCATTGTGCAAAATGCTT
TGAGTTCATAATATCTCACCAGTTAAGAGAATTGAGACAATCTGGTATGAGGACACAAATGGACAAAGTGGACAATGAGTCAGGGAAGAGGACT
GCAGTGTGTTTATTATAGATTAACTTTAAAGTCAACAAGCAGAAACTAAGATTGAGAAGCTCATTTGTTGAACTGAGTGGTTTTACAGAAAACT
TAAGTACCGCTCAGAGAAGGGAAGCTCCTGGGGGACTGGGAGGACTTTGCACCTTGGCTAAAGTGGAGAGTTTGCAATAAGGACACCATTCAGT
CTAATACGGGCTTCTGGGGGATTTCGGGAAATGTGCAGATGAATGACTTCTTAGTTTTCTTAACACAGAGTTTGTGTGTTTCTGAGCTGTCACC
AGGGTGAGATAAAAGCTTAGGGGAAACCAGATTCAGGAGTAGAACACAGGCCCTTTAGAGAGACAGCTCAGCTGTGTCTCTGGGGGATAACAGC
AATCTTCGCAGGGAATCATAGAGACCAGAATGGTGAAGCTGTGGGCACAATAAATGTCTTGCTTAACGTCACATTGATTTTCCTGAAATTGATC
AAATGGAACTTTTATGAATTGAAGCCTGTATCTGTTTATTAAGGAGACATTTACAGAACGTACACACAGAGCAAAGTATGGCGCCAGGGCCCTA
GGTGAACTTCTTGGAAGTTTGTAAGTTTGCATTTTTATACACTGGGGATTTCAAGTAACAAAATTTAAAAAGAGAAGCTTATTTTAGGAAATCT
GAAAGTTATTTTCAATGGCAGCCCCTCACCTCTACTTCCTAGCTACCTTCCTTTCTTTTCCTCCATAATTTTTTTTTTTTTTTTGAGACGGAGT
CTGTGGCCCAGGCTAGAGTGCAGTGGCATCTCGGCTCCCTGCAGCCTCCACCTCCCGGGTTACAGCGATTCTCCTACCTCAGCCTCCCGAGTAG
CTGCGATTACAGGCACGCGCCACCACGCCTGGCTAATTTTTGTATTTTTAGTAGAGTCGGGGTTTCTCCATGTTGGCCAGGCTGGTCTCCAACT
CCGGACCTCAGGTGATCTGCCCTCCTCGGCCTCCCAAAGTGCTGGGAGCCACTGCACTAGGGCCGGTCCATAATATCTTTATCATCTTGTATAG
TGTGTATTTTACACCATATTCGCCCTCACAAGAAAATAAACTGCCAAGGCGGGCGGGGGGGGGGGGGTTCTTTTTGTTCACTGCTGTATCTTAA
ATAGGGAGAGGTGCTAAATCTTTGCTGAAAAAAAATAAATGACTGTCGGGAAAGATTTTAAAAATTACTTATAATCCCATCACCGAAATAGGA
CTACTTAACATTTGTGTTTCTTTCGCCTTTGAGAGAGGAAGAGCAGTTACTTCGCTTTCGTGATCAGTCTGTTCTACAGCTGGATCTTCCTTTT
TAAAATGGCTAAAAACGCTATTTTTGGCTGTATAGTACCCAATCATGCAGGCGGCAGGGAGGGGCTCGCTTTGGCCCTCTTCAGCACGTCACAC
CCTACCTTTAATCCGCAGCCAACTGTGTGGCGGTCCCCACTTTCGCCTAGCGGCAACTCCCTCCTCCCTGCAATCCTTCCTTCTTATTCCGGTT

TCCAGAGCACGTCTCCAGGCTTCGACGTCACCACGCTGGGACGTATGTGCCGAGGGCCGCGGCGTCTGACCTCATGGCGTAGAGCCTAGCAACA
GCGCAGGCTCCCAGCCGAGTCCGTTATGGCCGCTGCCGTCCCGAAGAGGATGAGGGGGCCAGCACAAGCGAAACTGCTGCCCGGGTCGGCCATC
CAAGCCCTTGTGGGGTTGGCGCGGCCGCTGGTCTTGGCGCTCCTGCTTGTGTCCGCCGCTCTATCCAGTGGTAAAGGGGGGCGGCAGTGTGGGC
TTAGGAAGGCTAGGAGGGCTCGGGCGCAGGGCAGGAGACAGGCCGGGCCAGGGAAAGGGCGCTTCCAAGTGTCAGGAGCAGACGGCGGTGTCTG
GTTGGGTCAGGGTCTCCGCGGGCCTGAGGACGGAGGGTATGGTGTCTGAAGGGGTCCAAGGTGGTAGGGTCTCCAAGGGGCCTGAGAAGCGGGG
TCCCTGAGAGATGCAGGAACCCAGGGAGCAGGCAGCAGGGTGTGTAGATGGGCGGGGAGGGAGGAGTGGTGTTAGCGCCTAGAGATCGTTGAAG
AATGGGCTGCCGCAAGGAATGGCGGTGGTGGGGTCTCCAAAATTTCTTGGATCGGAAAGTTAGGAGACTCTGGAAGAGAGGGTGGCGACAGGGG
CTGAGGAGGTGGCCGGGGCTGGGGGTGTGGTGTCTGGAAAGGGTCCTGAGTTTGGGGGACTCAGGAATCTTGCAGGACCAAGGAAAGGTGGGGG
TTTTCCAGAATGGGAGAGGTCAGTGGTAAAGACCGAGGCGGGCAGGGGCAGTAATCCAGTGACTGGACTGAACCAATGGAATATTTCCGAGAGG
GAAAGTGAAAGGGAAAGAGCTGTCTTAGGGTACTGGTGCATATTTGAAGACTGGGAGGTTCTGGTGTTTGATAAAGATTCAGAGTACTGGGGCG
TTGGGCCCCTGAAGGCTTGGGAGGCAGAGAGGAGTTTGGAGACAAGGGAGATCATGATTCCTCTTCCCTGTGTTCCGAGTTAACCAGGATAACC
CTGCCTCGTTTTAATGCATCTGTAGGATTTGATTGATAAAATATTTCATTTCTTGCAAATGTTGCATGGTGAAATCAAGAGATTGAAGGCTTTT
ATTGAGAAATTAGGAAATCTGTAAACCAGTGCCTGATACTTGGTGGGAAAAATCCACTATTAAGAACTTGTAAGGATTAAACGGTATTTTGTTT
AGTAGTCCCATTTTTCTTTCAGGCCAAGACACAGTCCTGCGTTTCTCCCTAAATTTGAATTTTCAGCTGCAAAACAGTGTGACCTGGTATAGTG
TTTTCTTTCTTGCCAACAGGGCCTGTCCAGCCCTACATTCCTCTGCGACAGTACTGTGGGTACATACTTATGTTTCCTCAGCAACATTTCAGTG
TTGCTAACTGGACGCCCTCCCAGAAGTCTTTGCAGTCCCTGAGGAAGGACTGCTGTCCATTTCCTAAGGCCCTTTTATCATTAGTGAAATGTAA
TGAGGATTTCCCTGGTTGATGCAGATATTCCCGTTCCTAAAGTACTTAAGTAGCTTAATTGTTTTGGCCATTTAATCATCTAAGAAAAATAAAA
CACAAACATTTATATTTCCTGCTGGAATGCTTAAGGGATATATATCTGGCAACTGTAGTTTCAGAAACAGCTTTTTTCCCCTAAGAGATGGTTG
AAAATTGGGCAAGAAGTGAGGCAGAATGTGGACTGTTAAGTGTCCTTTAGTCTCTGCTTTTATTTGTTAGAGCCCTATAAATATTTTTCTAACT
ATACTGAGACATTTTAGAGAATCTTTATCTTTTAAATTAAGTCTTTACATACACCAGTTTAAAATGTCATAAATTCAGATTATTCTGTCCTGAA
AAGAAGCTAAATGAAAACGAACATACATGTCTTTAATAGGCGAGCAGCTCCACTGCACTACAGTGTAGCTTGGGATATAAGTATTTTTTGTAAG
CATACCTTATAATTTCAAAGTAGTCACTCCTGTAATAAGAAAATTAGTCTAGAATGTGTTGAGTTCCAAATTTCAAGTGAGTTTACAAAGGTAG
AAGGTTACCACATTAGATTTATTTAAATTTGTTCCATATTAGGTTTTAAAAACTGTCAATGCTTGGTTATATGCTCGTCAGTCTGTAAGAATTT
TTGTTTTATGTTTTTGTTTTGATCAAGTCTAAAAAATTAACATAAGCAGTTTGGATCACTGGGTGACTAATTCTTGGTCATGCCATTTCAAAAA
TGCCTGGTTCTCTACATTTGCCATTATATTGTCCCCAAATGATCACCTAAACTTAATGTATAATGCATTTCATTTTTAAGGCATTGTTTCTCAA
ACCAGTGTGTGAATGAGTTCTCGGGGTCCTCTGCATTCTTAAGTTTAAGAAATGCTGATATAGTTTTATTTTAGGGCAGTTTTTAAAAAGGGAC
CAGTAGAAGGGGAGAATTAAATTTATAAAGTTTTGTTTTTTGTTTTTTTTTTGAGTCTGTCGCGAGGCTGGAGTGCAGTGGCGTGATCTCGGCT
CATTGCAACCTCCGCCTCCCGGTTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTATGCTGGGACTACAGGCGCGCACCACACCTGGCTAGTT
TTTGTATTTTTAGTAGAGACGGGGTTTCACCGTGTTATCCAGGATGGTCTCAATCTCCTGACCTCGTGATCCGCCCGCCTTGGCCTCCCAAAGT
GCTGGGATTACAGGCCTGAGCCACTGTGCCCAGCCTTTTTTGTTTGTTTGTTTGAGACAGGGTTTTGCTCTGTCGCCCAGGCTGGAGTGCAGTA
GCACAAACTTGGCCCATTGCAACTTCCGCCTCCTGGGCTCAAGCAGTCCTCCCACTTCAGCCCCCTGAATAGCTGGGACCACAGGTGCCTGCCA
CCGTGCTCAGCTGATTTTTGTATTTTTGTAGAGATGGGGTTTTGCCATGTTGGCCAGGCTGGTCTTGAATTCCTGTGCTTAAGCGATCCACTTG
CCCTGGCCTCCCAAAGTGCTAGGGTTACAGGCGTGAGCCACCGTGTCCGGCCTAAGCTTTATTTTTAAAATGTTAAGCTTCAAGTAGAGAGGTA
ATATCAATTAGGAAAGGGAAGATTTAGAAGTCTTATTTATATGCTCATAGAAGGTCAACAGTTAAATCCGTAAAGTCAGAGTTGTACCTTTGTT
CTGAATACTCTTCATATCTGACTTAATCAACTTCTCTGATTTGAAGGAGTTTGAGTAAGTTGATAGCCTTTGTATTACATGTTTCAGGTCAATT
ATTTGTTTTTTCTTGTGCTGTATTTGTGTATTACTTCCAAGATTTTACTGCTTGACTAAGACATTCTGCTCCTACTTGGTGCTAGGTATTGGAG
TTAAACAATGAATAGGGTGATACTGGGGGTATCCTTAGAAGAATGAGTGGCGTTTTGCTGAGAACCATGGCATGGGCTCTTGAGGGAGTGCAGT
AGGTGCATAGATGCTATGTGGGATGTGGTGTGGGATTTGTGGTGAGAGTTGAATCGAGAGCATATTCAATAAATATTTATTGAGTGCCTGCTAT
CTATTAAGTAGGTAATGGGGATAGAGCTGTTAGGGAGATTAGTAAGATAATGAGAGTGAGGTAATGGGGGCCAGATCATGTAGGATCTTGAAGG
CTATTATAAAAATTTTCACTTTTGTGAGAAATGGATGGCCCTAGAGGGTCTTAAGTAGAGGAGTAACATTTGATTTAAGTTTTGACAGAATGAC
TCTGGCTGCTGTGTTGAGTATAGACAGTAGAAGTTAGGGTGGAAGCAGGCAGATTAATTAGGAGGCTATTGTAATAATCCATGTGAGATAATGG
TTACTTGGATGAGGCAGGAGCAGTGGAGGGTGAAAAGCCCTCAAATGCTGCATATGTCAGAATAACAGATTGGATGTGGGATGTTAAAAAAAAT
GACAACTCCAAGGTTTTTAGTTTTAGTAACTACAAAGATGTAGTTGCCATTAATTGAGATGGAGACTAAGTAGAACAAGTTTTTTTGTTTTTTG
AGTGGGGCATAGGAATTTATTTAAACTTATTTTGAGATAATTATAGATTCACTTGGCAGTTGTAAGAAATAATATAGAGATCCTGCATATCCCC
TACCCAGTTTTCCTAATAGTAACGTCTTTCAAAACAATAGTGCAATATCACGACCAGGATATTAACATTGGTACAGTCAAAATACGGGGCATTA
CCATCACCACAAGGATATCTCATATTGCCCTTATAAAGCCACCCCACTTCCCTCCTACCTCACCCCTCCTGAACTCCTGGTAACCACAAATTAT
CCATTTGTATAAGTTGGTAATTTTGAGAATCTTACATAAATGGAATAATACAGTATGTAACTTTTGGGATTGACTTTTTTTCACTTAGCATAAT
TCTCTGAAGATTCACCTAGGTTGTTACATGTGTCAATAGTTTGTTCCTTTTTAAATTTTAACTTTTATTTTTTCGAGAGTAAGTCTTGCACTCC
AGGCTGGAGTGCAATGGCACGATCTCGGCTCACTGCAACCTCCGCCTCCCAGGTTCAAGCAGTTCTCCTGTCTCAGCCTCCAGAGTAGCTGGGA
TTGTAGGTGCACACCACCACACCCAGCTAATTTTTGTATTTTTGGTAGAGATGGGGTTTCACCATTTTGGCCAGGCTGGTCTCGAACTCCTGAC
CTTGTGATCCACCTGCCTTGGCCTCCCAAAGTGCCCAGATTACAGGTGTGAGCCACCAGTCCTGGTTGTTTGTTCCTTTAAATTGCTGAGTAAT
ATTCTATGGTATAGGTAGACTACACTTTATTTATCTGTTGAAGGATGCCTGATTGTTTCCAGTTTTTGGCTATTATGAATAAAGCTGCTATGAA
TGTGTTTGTGCAGCACTCCAGCCTAAGTGACAAAGCGAGACCCTGTCTCAAAAAGAAAAAAATAAAATGAGCTTTCTATGGACATCATGTAGTT
GAGTCTGCCAGTCTCTGTTTTTTAATTGATGTATTTAGGTCATTTACATTTACTGCACTATGGATATGTTAGAGCTGAAGTCTGCCATTTTTAT
TTTTTGTCTTTAGCCTGGGATATATGAGGTAAAAAGAAAAACCTAAGGAAGTCACCACCATGTTGTTTCACATATCCTGAGGTCTCTAACTGTT
CTACCCAGTTCTTTCCACCTTTCAGAGTGTTCTTGTGTTATTTTATACATAATGTTCAGAGCTTTTAGTTGTTTTTAGTGGGAGAAACAGGGAA
GAGTGTGTTTGTCTTCCTGAAAGCCAGCCAGAATTCATTTTGAACATATTAATGTGAATGTCAGACATCTAAGAGGAGATGTCAAGTAGGTGGT
TGGATTTATGAGTCTAGAATTCTGGTCGTTCTTGGAAGTTCTTTTAATTTTTCTCAGAAAAGTTAGGAAGTGATGTCATCAGTTGAAAATGAGG
ATAACAGAGAAGACATTTGAAGTTTGTGGTTAGAGGAAAATGTGATTGGTGTCCTAAGAGAGTAGAAGGGTAAATGGACTAGGAAAATATGATT
GCCAACAATTTTAATTGCCAACAGCTTTAAACATACACCTGAATCTTTGGCATTGAATTTAAAATGAAATGAAAACAGTGGCATGGTTGTATAT
TTTTTCTAGCCATGTTCAGCTGCTGGGTGCAGATGTGAGTAGTCAGAGAGCTTGATTTATTAATAACTAGGGATGAGTGTAGTCTCACCAAGTG
AATGGGTCAAAGTGGACAAGGGGGAAGGGAATTGAAGATGGATGTAAGAGAGTGATTATAAGCAATTATAATAGCTGACACAGAATTGAATCTG
AATAAAGAGAGAAGAGAGTGTATTGGGCAAGTTTTGATGGTGACCGTAAGGGAATGAAAAGGATTAGAGGGTTGTAGGTGTTTATGGATTGAGA
ATACCAGGGAATGAACTGGAAGGATAGGAGGTCTTGCCAGCAAGTAGAATGCATGAAATTGAGATTATGGAAGAATTGTGATAATAAATAATGA
CTCTGGGAGTGAGTGGCTGAGGTAAAGAGGAGGGCTAGCTCATGAGAAGAGAGGAGGTCAAAGATTTTGAAATCAAGGCAGGAGTACTTGTCTT
AGATGGAGTGAACTCTAGAGCCAGGAGCTAAAGATCATTAAGAATTAGGGGGCATGACTTTGGAGTTGGATGAAAGTAAGTTAGTGCATTATAG
CTTAAGATAAGAGAATCAAAGCTAGAGGCATTTAGGGAGAAGAACGGGAGAATGGTCTGAAAAGGGCAATGAGGAGGAGAACTGTGCCTCCTTG
AGATTCAGTGGTTCAAGGATGTGGGAGAAAAAACAGCTATTACTTAAACAGGCTGAAAGGAAAATGTGTCCTTAAGGGAGAGTCAGGTTTCAGT
AATAACAAGAAAGCAAAGGGTGAAAGAAGGGATTTGCTGATGACTGTGAATTCTATACTGCGTGGTGGAAATTTCTTTATAATTATTCCCACCC
TATCAGCTTGTGTCCTTTAAAGGTACTTACCCATGGAAAAATTGTTCTTTTAAAAGTTAAGTTTAGTTAGTTGGCTCCCACTTATTTCAATTTT
AAATTTTATTTTAAAACATGTTTTTTGTACTTTGGCAGGAAAATTAAATGTATCAGAAAATAATAATTTTTAAATTCTTGAATTATAACTAAGT
TGAAGTGATAAATGCAAAAATTATTTTCAGAAATTCCTGTTAGTAGTTTTCTGAGTAATGTACTGAGTTGTAGGTCCTGTTTATTTCTCTTTTC
TTCCAGTAAAAAATTTCAAGG

HUMAN SEQUENCE - mRNA

GCCGCTCGCTCGGCTCCGCTCCCTGGCTCGGCTCCCTGCCTCCGCGTCGCAGCCCCCGCCGTAGCCGCCTCCGAGCCCGCCGCCACATCCTCTG
AGAAGATGGCTGTGCCACCCACGTATGCCGATCTTGGCAAATCTGCCAGGGATGTCTTCACCAAGGGCTATGGATTTGGCTTAATAAAGCTTGA
TTTGAAAACAAAATCTGAGAATGGATTGGAATTTACAAGCTCAGGCTCAGCCAACACTGAGACCACCAAAGTGACGGGCAGTCTGGAAACCAAG
TACAGATGGACTGAGTACGGCCTGACGTTTACAGAGAAATGGAATACCGACAATACACTAGGCACCGAGATTACTGTGGAAGATCAGCTTGCAC
GTGGACTGAAGCTGACCTTCGATTCATCCTTCTCACCTAACACTGGGAAAAAAAATGCTAAAATCAAGACAGGGTACAAGCGGGAGCACATTAA
CCTGGGCTGCGACATGGATTTCGACATTGCTGGGCCTTCCATCCGGGGTGCTCTGGTGCTAGGTTACGAGGGCTGGCTGGCCGGCTACCAGATG
AATTTTGAGACTGCAAAATCCCGAGTGACCCAGAGCAACTTTGCAGTTGGCTACAAGACTGATGAATTCCAGCTTCACACTAATGTGAATGACG
GGACAGAGTTTGGCGGCTCCATTTACCAGAAAGTGAACAAGAAGTTGGAGACCGCTGTCAATCTTGCCTGGACAGCAGGAAACAGTAACACGCG
CTTCGGAATAGCAGCCAAGTATCAGATTGACCCTGACGCCTGCTTCTCGGCTAAAGTGAACAACTCCAGCCTGATAGGTTTAGGATACACTCAG
ACTCTAAAGCCAGGTATTAAACTGACACTGTCAGCTCTTCTGGATGGCAAGAACGTCAATGCTGGTGGCCACAAGCTTGGTCTAGGACTGGAAT
TTCAAGCATAAATGAATACTGTACAATTGTTTAATTTTAAACTATTTTGCAGCATAGCTACCTTCAGAATTTAGTGTATCTTTTAATGTTGTAT
GTCTGGGATGCAAGTATTGCTAAATATGTTAGCCCTCCAGGTTAAAGTTGATTCAGCTTTAAGATGTTACCCTTCCAGAGGTACAGAAGAAACC
TATTTCCAAAAAAGGTCCTTTCAGTGGTAGACTCGGGGAGAACTTGGTGGCCCCTTTGAGATGCCAGGTTTCTTTTTTATCTAGAAATGGCTGC
AAGTGGAAGCGGATAATATGTAGGCACTTTGTAAATTCATATTGAGTAAATGAATGAAATTGTGATTTCCTGAGAATCGAACCTTGGTTCCCTA
ACCCTAATTGATGAGAGGCTCGCTGCTTGATGGTGTGTACAAACTCACCTGAATGGGACTTTTTTAGACAGATCTTCATGACCTGTTCCCACCC
CAGTTCATCATCATCTCTTTTACACCAAAAGGTCTGCAGGGTGTGGTAACTGTTTCTTTTGTGCCATTTTGGGGTGGAGAAGGTGGATGTGATG
AAGCCAATAATTCAGGACTTATTCCTTCTTGTGTTGTGTTTTTTTTTGGCCCTTGCACCAGAGTATGAAATAGCTTCCAGGAGCTCCAGCTATA
AGCTTGGAAGTGTCTGTGTGATTGTAATCACATGGTGACAACACTCAGAATCTAAATTGGACTTCTGTTGTATTCTCACCACTCAATTTGTTTT
TTAGCAGTTTAATGGGTACATTTTAGAGTCTTCCATTTTGTTGGAATTAGATCCTCCCCTTCAAATGCTGTAATTAACAACACTTAAAAAACTT
GAATAAAATATTGAAACCTC

HUMAN SEQUENCE - CODING

ATGGCTGTGCCACCCACGTATGCCGATCTTGGCAAATCTGCCAGGGATGTCTTCACCAAGGGCTATGGATTTGGCTTAATAAAGCTTGATTTGA
AAACAAAATCTGAGAATGGATTGGAATTTACAAGCTCAGGCTCAGCCAACACTGAGACCACCAAAGTGACGGGCAGTCTGGAAACCAAGTACAG
ATGGACTGAGTACGGCCTGACGTTTACAGAGAAATGGAATACCGACAATACACTAGGCACCGAGATTACTGTGGAAGATCAGCTTGCACGTGGA
CTGAAGCTGACCTTCGATTCATCCTTCTCACCTAACACTGGGAAAAAAAATGCTAAAATCAAGACAGGGTACAAGCGGGAGCACATTAACCTGG
GCTGCGACATGGATTTCGACATTGCTGGGCCTTCCATCCGGGGTGCTCTGGTGCTAGGTTACGAGGGCTGGCTGGCCGGCTACCAGATGAATTT
TGAGACTGCAAAATCCCGAGTGACCCAGAGCAACTTTGCAGTTGGCTACAAGACTGATGAATTCCAGCTTCACACTAATGTGAATGACGGGACA
GAGTTTGGCGGCTCCATTTACCAGAAAGTGAACAAGAAGTTGGAGACCGCTGTCAATCTTGCCTGGACAGCAGGAAACAGTAACACGCGCTTCG
GAATAGCAGCCAAGTATCAGATTGACCCTGACGCCTGCTTCTCGGCTAAAGTGAACAACTCCAGCCTGATAGGTTTAGGATACACTCAGACTCT
AAAGCCAGGTATTAAACTGACACTGTCAGCTCTTCTGGATGGCAAGAACGTCAATGCTGGTGGCCACAAGCTTGGTCTAGGACTGGAATTTCAA
GCATAA

TABLE 38

MOUSE NOMENCLATURE
ICSGNM Nfatc1
Celera mCG18180

HUMAN NOMENCLATURE
HGNC NFATC1
Celera hCG15098

MOUSE SEQUENCE - GENOMIC

CAAACTCCAAGGAAGGTAAATTCTAAATCGAGTCTGCCAACGGAGAGAAGAAAGTGTGCAGAAGAGCCAAGTGGGACTTCCAGAGCTGAAAGGC
ACACTAATCCAGTAAGTGCTGGAAATGACGTCCCAGTGGGGGCTTAGCCATGGCGCTGAGCTGGCACAGGCAAGAGCCGGGGATGTGCTATTCC
AACTGAGACTGCAGGCTGTGGACTGAAAGAATGAGAAGAGATGTCGGGAGAGGAAGTAAGGGAGCGGAGAGCAAGAGCATATGCACAGAGGGAG
GGAGGGAGGGAGGGAGGCAGAGGGGTGCTGAAACCATTACAGATGTGTAACCCAATCTGCACCACCAGGAAAATCCCAGCAAACTCCAAGGAAG
GTAAACTTCAAGAGACCAGCAACAAACTGACCTCACAAGGAGATATATCAAAAGCAGAAGGTGGGGGTATTAACCCTTGCAAGGGAACCCCAGT
AACGTTAACATCTGACCCTAGAAGCAGCAACTGAGGCTTGAAGACAGTATGTCCAAAGGGCACTAAGAAAAAACTTGCAACAGACCCCTGTGCT
CAACAAAGCTTCTTTCTAACTCTTAGACGAATTAAAAGCTTTGGCACAGAAACAAAAGCCAAGAATACGCTGCTAGCACAAAGAACCTTCTTGC
GAGGAATACAAGGCAAAGGCGGGAATGCTGGGACAGTAACCTGCACCTACAGGAAGCAGCACGTCAGGAGGCAGGCACGTGATTTTACAAGGCA
ACATGCATGCATGTTTTCTTCTCATGACTCACTTAAAAAACAATCATATAAAACAATGTGTGTATACTGTAGTGCTTTGCCGATAGCTTACAGA
AACGCAACCCAGGTGTAAGATGTTTGCCAATAACAACAAATAGTGTCTTAAGGGACTGCAGAAGGCAAAGGAACAATTCCCACAATGCACCATG
AGGTTTGTCTGTATCGCTTTCTGTAATGCTGTAGAACATCACACCACTGGGCAATGGGAGAACCATATAGAAATAATGCTTCTGTGAGTCACTG
AAATGGTCGCAGGGTAAACTAAAACCCAGCATGAAGTCACGTGTAGCTGGCAAACACAGAGCAGACTCTAAGGGATGCTGCAAACCAGGGAAGT
ACCTTCTCACCAAACACATCCTGTAATGCAAAGAAAGCAATAAAGAGACTGAGTGAAAGGAACACGGAGAATGTAGAGAGAACACGCCAAGTTC
AACTTCATTACCTGAAACTGAAATGTGAACAGATTAACATTCCAGTCACGGGGCAGCAGTAGTCAAGCCGAAGAGTCAAACATTGTACAACTTC
ATGCTGTCTTCTGGAGATAAGCTGTAGGTGGAGAGGTACACACTCACTACCAGGACGGGAATCATCCATCATGCACAAAGAAACTCCAGGAAAG
CCAGAGTGGCTGTGCTGCTGTTGGATGAAAGAAACCAAAAGTAAAAAATAAAAGTCAAAGACTGCTGAATTGGATGCTCAGCTCCCTCCAAGCC
TCGTGTATTGAAGACATGGTCCCTAGAGAGGGGTTGGAGCCATGGAGAGAGGGGGAAAACCTTTGGGCAGTGAGACTACCTGGTAGGAACCCCC
ATTTCTGGAGACAAGCCCTTCATGAGGTTGATCCCCACCCCAAACCTCCCTTCCTTTTGCTTCTCTGCTGAGATGAGGTTGTTGTGGGCTGTCC
CATGGTCCCACTGTGATAGGCTGTACTGCCATAGGTCCTAAAGCAATGGGGGCCACTCAATAATGGACTGAACAGGCCAAAAAAATGTAAATTA
AAAAAACCTTATTTCTTCATATGTTAATCATCTTTGTGTTTTGTTACAGTAGCCGAAAGCTAACTGATACAGATTAAGAGGGCTGCTTCAAGGT
AACTAAAGAACCAGTGTCTGAGAGACAGAGAGAGAGTTCTAAGTGTAGGTGTGCCTAACAACACAGTTCCCAAAGAGACATAGCAGAGCCAGCA
GGTACTTGGTGAAAGCCTTCAGAGTCAGGGCAGGTTGACTCTGTCAGGGGGTGAGCGTGACTCAGAGTGGCTTCAGTGACGAAGTCCCTTGTGG
CCACTTCAGGCAAAAGATGAGGAAATTGAAGAACACTAGGTATCAAGGGAAGCAATTTGGTCTTTATTCTGATTTCCAGGACATATGCCCTGGG
AGAAAGTTATTAATAACTGACTGATTAATTGATTGATTGTGGTATTCGTTTTATTTTGTTGTTTTAGGGCTGTGTCAATTTCTCATCATGAGAC
AAAATACCAGAGACAGCCACCTTAAAAGGATGAAAGCTTATGTTAAGTTATTGCTTCCACAGGCTCTTAGCTCCACTGCCTTTGGACCTATGGC
AGAGCAGAACGTTCTGGCAGCAGAGCACACTGTGGGCAAAGCTGGTGACCTTAGGCAACAGAGATGGAGTGTCTGGTCTCAGTATGCACTCCGA
GAGCAGTGCCCATCCCATGAGGTCCTGACTCTTCACACCCCAGCACAGGACAATGCTCCATCAGCCAGAAAACAGGTCGTTTGCCATGGCCTTC
AAGACTTGGGTTTTTTTTGGGGGGTCAGGGGTGGGGGCACCCAAACCTTTAGGAAATGGATGTTGCTCTGGTTAAATCAAATCATAGAAGGCAT
CTTCACTTGTCCAGGGACGAGGGAGAGATTAAACAGGAACCCCAATTCTGTGGTCCTCCAAGATACCCCAAGGTCTGAGAGGGAGTGGCTGATG
TTGCTGTAACTAACTCAACGGCAACTGTCAGGCTTCACTTGACTGTTTTTTTGTTTGTTTGTTGTTGTTGTCTGTTTTGTTTTGTTT
TTGCTTTTGTTTGTTTGTTTTTAAGCACTTTAAAAGTAACCTGACTGGGCACCAATCAATCAGTAGGCAGCACATCAAGCCAGGGCTTTAGCAC
CAATGGCTAACCAATCAACTCAAACCAGCCAGGTGTGGTGCATGCCTGTCACCCTAGAACTGGGAATATTATAAGAGGACCTGGAGTTCAAGGC
CAGCCTGGGCTACCTGAGACCCTTTTTAAAAAATGATGCTCCTGAATTCTGGCCTGTTAATTCCACTCTCCCAAACCGGCTCTGGAGGAAGGCC
CAGTTTCCCAGCCTTCCCAGTGCCTCACAGTCCTGGGCCTCCTCCCTGTGTTGTGGAGTGAAGTAGATAGATCCAGTCAGAAGCCCCAGGTGAG
GTAACAGGAGGGAGTTGCAAAGTAACCATTGCTGTGGCCCACACTGCAGATGCAGTGAGGAGATGTGTATTTAGCTACTGATGTTTTACATGGT
TTACGTAAGCAAGCAAGATGTACATGGGTCTGGGGCTTGACTGTACAAAGAAGCCCTCCCTAGCCTGGTGCACCGTACCTGCCCACAGTGCAGT
GTGTACACAGCCAAAGGAGGCTCCAGGTTGCAGGACTGAGAGTCGTGCCCCTAGCAACACAGAACCCTGCTTTTGCACTAAAAGCCCATCAGAT
CTTGTTGGGGTTTTCTGTGCCCTTGTGTTTTCACACCAGGTTAGAATCAACAATTGCCTGGCTCTTGGAAACTTTGAGCGCTGGGTGGATAACC
AAATGTGCCCCAGAAGGAAGGATTTAGCACCCAAAGACACCTATTGGATTAAGCTTCTGGGGTGCATTTGCCCCAATAATCCACAGAAGCAACA
GTAATCTAAAAATAGTCTTGTTTTCTGTCCTAAGCTCCTTTTAACTTTGTTAGTCATCGCCAAACCTTAAAATAAAACCCGTGTAACGTCTCTC
CTGGTAGCAGCTATAAACAAACCTCCTCTAGAGGAGGCCGAAGGAAGAGGAAAGAGGCGGTAGGGACACGCAGGGAGCGCGGCCGCGGGACCAG
GCTTGAGCCCGAGGTGGCCGCAGGGCCTGGCGGACAGCTCAGAGCTGGCCGAGCTCCTGCGCCGCTGCCTCCGGAACTCCCTGCGCCTGGCGTG
CGGCCACCGTGGTCCCGGCAACGGCATTAAACAGAGGGAAACAGGCCCGGGATTCCGTCACCCGCGGGGGATAAGGAGGGCATTGAGACAGACA
GGAAAGGGCTTTTCTGGATGGGGTGAAAAGTTATTTATTGGAGAGGGAGGGGGGAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

GCGCTGAGTACTCAAACTTGGTGGGGTCTTGGAGATACCACATGGGGAAACTTGATTCACGGGGGCGTTGAGATGTGAGGATGGGGCGCAGTGG
GGGCGGGAGCGCTAGAAGCGAAAACAAACAACCAAACAAAAACACCCTGGGATGAAGTGAGGCATCTTTGGAGAGCCGAGTTGGTCCTGCCTTT
ACCTCAGGAAGGCAAGCAAGTCCATGACCAGAAGTATAAGAGTCCTGCATCCTCCCCAAGTGAGTCTAGCCTTAGCTGCTTCTCACTAAAAGTAA
GAGCTTGGCAAAGTGGCCCCAAGTGGTCCAGACTTCTAAATGCCTCTCAAACTCGTGGCCAAATGTTGTATCCAGACAAGAGTTCTGCCTTAGA
AAATGCCTTGAGAAAGATCGAAGACGGACTGCCAGGTTTGAGGTTGCTTCTTCCAAAAGAATATGCGCTGCAATCTGCCCTAACCTGTCAGGGT
CACAACAATGACATGACCCAGACCTTCTGTCAGAGCCCTGCAGGTCCCCTCAAAAGAGTTAGCAAAATAACTTCTAAAACGTTTAGGCTCCTGC
AGGTGTCTTTGAAACACCCTTTAAAGAGTGACTAGCTTTTCAGCAGGGATAACTTGACCTATGTCGAATGGACCCCAGGAGCCATAGGGCTCGT
AATTCCTTTTTGGCACCAAAGAAGTTACTTAAAATTACTGAAGGCCAGCTGGACCCCTGCTGGGCTGGGGCACTCCTATTTACAAGGGCGGCCA
TCCTGTAGACAAGCACTTGGAAGGAAACCTTAGCTTCCTGTGAGAGTCTGATGAGTGGGTCAGCAGGCAGAGGCAGCCGTTCCCAGAGTCAGCC
CTGGACACCTGGCTCATCTTTAGACTTGAGCCATCGGCTCAGCACAAATGGATCCAGCTTTTCAGAGCCCAGGTGTCCTGGGTAGAGAGTCTTG
TGTGAACTTTGAAGCGGAGCAGCAGAGATTGTTCCTTTCATGTCGCTGACCTCAATTCTAAAAGGTCTAAATGTTGCTAAGTGGACTCCCGAAT
GAGCTCTTGCAGCAAGGAAAGCTACAGTGTTTTTGTTGTGGTCTGGGTCGTGAATTTCTTGACATTTATTTCCACACACATCTGTCAGTCACTT
TTCTTCTCCATCTTCTTCTACTTGGAGGCCTTAAAGCTTACGTTCTTTACTTGTAGCGTTACTGTTCCATTACTCAAGAAACCTTCTAAGCTGA
GGTTGATGGCTCACCCTCGTAATCCTAGGCGTAATCTCAGCACCTGAGAAACTAAGGCAGGAGGATTGCCATGAGTTTGAATCCAGCCTGGGCA
ACAAAGCAAGAACCAGGCCTGCCTTGGGCTACAATGTAAGACCCCAAGTCCCAAAACAAAACTTTTTTGTCTTTCCTTTTTTTCTTTCTTCCTT
CCTTCCTTTCTTTTCTTTCTTCCTTCCTTCCTTTCTTTTCTTTCTTTCTTTTCTTTTCTTTCTTCCTTCCCTCCTTCCTTCCTTTCTTTCTTCT
TTTCTTTTCCTTTTCTTCTCTTTTCTTTTCTTTCTTTTCTTTTCTTTTCTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
AGGGAAAACTATTGGGCAGAGGGTGTAATCATTTCTGGTGTAACTTACCTAGAAAAGGAAGTTTGACAGTGTCCCCAATGAAGCAGTGAGCTGG
AGGCAATAATGACCGAATGATACTGGTCATATTTTACAGAGTGTGTGTGGATGTAACTGAGCTAACTAGAAACTGTGACCCAGTCTTGAGACAG
CCAGACCCAGGCAGGGGAAAAGAACTGTATGCCGCAGGTCAGTATCTGCCATTGCTGTGGGCCGTGGGAAAGCACCTTGAGGAGGCCTTGATCG
GGACACCAGCCTTCTCTGAGGCCTTCTTCCAGCTTGATGGGCATTTGGATGGAAGCTCATGCGGCCTGGCCATTTTTGAAGGCCTTGTGCTGCT
CAGCTCTGAAGAACTCAGAGAAACACAGGCCTGTAGGTAGTCACAGCGTCAGAGTTGCCTCACACAATGCGCCACAGGCTCTCCGGAGCTGAAC
AAAGCTTTCCCTGTTCTCCAGCTGTATAGCTTCATGGCACTGTTTCTTAATCCAGATTAGAAAATGCTGCAGCCATGCACCCTGCTTCATCACA
CCCAGCACCCACCGGGGCTGGCCCATTAACATCTTGCACAGTTAGGAGGAAATGGTCCAAGCTAAACACTTCTATCAAAACTGGAGTGTCTGCT
GAACTGGCAGACCAAGCTTCATACTATATAGAGGACTGGCAAGGGGGCTGGCAGAGGCACAGGGTAGCATTTCATAAGTAGTTGTGTTGACTGA
CTCCTGTGTTAGAGAGTAGACAAGGAGGGAGGCAGGCCAGCCTCTGAGAGAAAGGCCTTGTGACTTCTTTCCTATTGTCCCAACATCTGGGGGC
ATGTGGCCAGGGGAAGCCAGGTGCTTTGTAACTTTAGCATAAAGCTTTCTTCAAAAAGTAGACAAGAAGGGCTGTTGTGTGTGGAACTGTGGGA
AAGGTGGATAAAGAGAGATCGAGGTCTCACGGCAGAAAACAGAACTTCCATTTCCCCGAAGGTCAGCAAAAAAGAAAAGTAAAACAAAACAACG
CTCCAACTCGCATCTCAAAGTGAGAACTATTATTAGAAACGAAATCAGGCCAGACTGAACTATAGTTTATCACTGGAGAAAAGCAGCCATTGAA
ACAGGGTCCTGGGAGAAGTGGTAGCCCACGTGATGCTCAAGTTAGCCTCCGGAAAAAGCCATCCCCCAGAGTCCAGAGCTGCAGGGCAGGAGGA
CACTGGGGACACTTGCATCTGGTGGCAGATACTGACACTAATCTCCCTCCTCCTTTCCTTCCTGCCTCCTTCCAGGGTTGGGTTCTGATACTGG
TCTCCCCTGCCCTGGCCACCATTTTCCTGATATTCCAGATGTTGGTTTATGTGGTGCCAAGACACCAGGAAAGTTAGAACAAAAAGCTGGGAGA
AACAGGAAAAGATGGTTGGGGCTCTGCAGGCCCAGCCTTTTCCTTCTGATTGCTGTGTGCATGGTACCCTGTCTGAATGGGTCACACCCAGCAC
CTACTCAGCCTTTGGGAGCTTTGAAATGACCCCCTACTGAAGCAGGAGTGTGTGGTGGTTTTTTTTCGGAGCTGAAAGATTAATGAGGTCGTTA
GTGCACGAAAACAAGATTTGCTTTGAGGTAGGTGCCCACAGAGAGAGGTTGGCCACCATGGGCAGACTTGAATGCTTCGGAAGCAACTGTGCTC
TGGGGTTTGACCTGCATAGAGGAGAAGGCGACCCTCAGGAAACTCCACCCTCATTCTCCTGACCCTTTCAGGTAATTTTAGTAAAAGCAGGGCT
AGAAAATGACCCCACCCCCCAGCGTTGATTGCTTCAAGTTGCAGCGCTCTGAGGTGGGCTCTGAGATGCTTCCCTGAAAGTGGGTTTCCTCGGG
CAGCAACCTGGAGGAAGCCTAAGAGAAGCCATGTTGGGAATATACATATATAGATATATCAGGGTTAGTATATATTCCCTCTTTCTTTTCTTTCTT
TTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCGAACTTTTGAACTAATTCAGTAGTTTTGGTCTTTTTCCTGGTGCAGGGAAA
CAGCAAGACCCAGGGCACCTCCTTCGGCTGTGGACTGCACACCACGCTGAACAGGAACCAGGGGACCGGCTGCGGGGCCGGGCGGCGGGTCCAG
GACGCAGCTCCAGCCCCGGTCAGCCCTGTACTGGGTCCGGGAGCGACGGCTCGGCCCGGCATAGGCTGCTGCGCTCCCCTGGAGGCGGTCAGCT
GCGCAGAGGTTGGGGCGCGGACGCCAGGGCTGCTGGCAGGGGGCTAGGTTCCTGCGGAGCGGGGGGTATCCTAAGGGAGAGCGAAGCCCCACAG
GAGGCGGAGGCCCGAGGGAGCTGTGCGGGGTCGTGCGGGGGAGCGGGCATGCGACAGAGGGCCGGGGGTGGACCTCGGACCGCGCGGTCCTGCG
GGCACGAGTGGAGCCTGGGCTACGCTTGGGCTCGCGCGCGGAGTTTATTTAAAACTAGGAAGCCGGCGGCCGCGAGCCGCTTGTTTATGTAAAC
CCGGAAACACCCGGGGGGACAGGGGCGGGACCGGGGCGGGAGGCCGGGGGAGGGGACAGGGGAGGGGACAGAAGGCGGGGGCCGCGTCACGCCGG
GGACGCGCGCGAGCGCCGGGCGCACCAGTGCCGCGCGACCCCGACATGACGGGGCTGGAGCAGGACCCGGAGTTCGACTTCGATTTCCTCTTCG
AGTTCGATCAGAGCGGCGGGGGCGCCGCGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

TCCCCACTGAGCAGTAGAAGGAGCTTCACATTATCTGGAACGAGTCTAAACATAAATTCATGTAGGCCTGACCGATTCTGAGATCAGTTGCAAA
GGAATATTTGGGTTTTGCAGCTTGTCCTGAGCACACAAAACCCACATCATGAAAGCGGACATGGCTACCTCAGAGCACAGCTTACCTCCTCAAT
GCTGCATGAAGGGACCCCAGTATCCCCCTCCCCACCACACCACACCACTGTCTCCCAGCTGGGTTTCATCCATAGGCAGAGACAGCACTCCACA
GGCAACCCCAACTACCAACGACTCTTCACAACTTTCTTCAGATGAAAGCATGTGAGCAGAAATATGACTGCTTCATCTGTGGTCACTGGGGCAT
GTGGCCCTGGACACTTCCTCCCAGCCAGGGCTCTTAGCAAGATGGCAAGTCTTAAACTTCAGACTGGTGAAGGCTGCAGAGGCAGAACACTTCC
AGAACTGACTGAGAACTACGAGAGCAGACACTGTCTACTCGCCCTCCTGGGGACACAAAGTCACATTTTGGTTATTCTGAGACTGGCAACAATT
AAAGTCTAGATGGTTACACTTAAAAATCCTGAGCTCAAAGCCTCAAAGACTGATGTCATCTTGCTCTCCCGAGAAGGGGGAAGTGCACTAGTTC
CGCTTTCTTTACAGAGTANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNGAGCAGCTTCACTGGGCTCAGGTTCTATAGATGTTTTAATCAAGGACAAACCTGTCTGTGTGAGCAGGATAT
GCTAGCCCCGTATCAGGTTTTCAAAAGAAACCCTTGGCTAAGAGGGAGCGCCTTGGAAATACAACAAGGGAAAGGAATGCTTTAATATTCACCT
GGGGGAGTGTCGGAGGTCTTCGAGGAAAGATGTGGGCCCAGGCTGGACACGGGACCCTTAAGCACGCTGTAGTGAGCTTATTTGCGGACCATTG
GGTGACATTTGCTATTGCTCCAGCAAGTCCAGCTCTCTGCCCTGTAAATCTCCCTTTAGCACATCGTTGCATGACAGTATTGAGAACCTGTTGC
TGTCTGTCACTTCTCGGGACTGACCCAGTCTCCATACAGTCCTCATTAGGGAGCACTATCCAATGTGCTAAGTAAACACAAGAACGGTGCTGCC
TGCCCCAGAACTGTTTTGTATTCTTTTGTTTCATCCCTAAGTGTGGAGACTTGCAGCCTCCCTCACACCCTGCAGGCTCTATTGCATGTAGAAA
GAGCAGGGTGGGCAGGCATTGGAGGCCAGGACCTGGCTGGCAGGATCTTTCTGGTTCTATTTCTAGCGCAGCCCCAGGAAAGGCTAAAGGGGTT
TGTTCCTTAAAATGAAAGGTGAAAGTTGGCTGTGATCGGTTGTGCTCTGTGCTTGTGAACAGTGAGTTTGGGTGGTGACTCCGAAGGCCATACC
GATGGCAGAGGGTCACATATATGTGAGCATCACATACACGTGGTGTGGCAGAGACACAACATTGTCTTCACTCCAGATAAAATACCAAGTGCCT
TAAGCTGAAGCACCTACAGGGGTATTTCCCAGCGGGTGCCACAGATTGCCCAGTGGGCAGCAGGCTTTCTCCACAAGTCTTAAGAAGACATAGA
CCAGGGGCTGTCATGGTGTGCAATGCCCTGGTACAGCTGCAGTAGTACCAGCTTGTTGAATTTGCTGAGGCTGGTGGGAGCTGGCCAGCGCAGA
GAGTTCTGGATTTGCTCAGCATCGCCTGCCTGCATCTCATCCATGTGAAATACTGAATGCCGCAGGGTGATTGAGAGAAATGAGCTCAGAGGAA
TAGGAGGACAGACGGATGGACGGCGACACCTGCACAGGGTGACCGCGCCTTCCTTTTGTATTACATGGCATAAGAGAATGTGTGCGTGAGAGGT
CTTTGCTTCCAATTGTGCTTTTCTTCCCTGGTCTCCCACACCTCAGTTTACTGGCCCAGTCAGCAAAAGCCAGGCTGCGGGGCACGGATGTTGC
CCCGAAACAGCAGCATATGATGTTCTCTAATCAGCCTCAATGTCTCAGGATTAGTAAGGAATTACTGGGAAGCCTGGCATTCCTGATAGACCCC
CATAGAGTGATCCCTTTGAGGAAGTGGAAGTTGGTACAGGTGGAGGGCTACCCCACAGGTCCAGGCTTTGCAGCACCAGGGAACTCAACCGGAC
TCAGCAGCCTGCCATGGGATCAGTGGGCACTCATGCTCTGAGGACTCTGAGGAGAAGGCAGCCAGCTCTGATGGCTGTCACAAAGCGAGCGGCT
CTAGGCATGTAAGCTTTTGTTTTGGAGTTTGACCAAGGAAATCCATGTGTAAGCTAATTGCTTTTGTTCTTAATAGGTTATTTTTTGAGAAAGG
GTCGCACCTAGCCCCAGGCTGGTCTCTGACTTCACCATGTAGCAGGATAGCATCTAATACCTGATCCTCTTGCCTGCACTTCCCGAGCGCTGGG
CTGATGGGTGTAGGCGTGCTTATGTGGACATAGTCAGTGTCGGCATTGAACCCAAGCTCCCTGAAGGCCGGACGAGAGCTTACTAACTGAGCTC
TACCCCAAGCTCCAGTTCTGTTTTCTTAATAAACCGTTTATGGATTTTCCTTTGCCCCGTTGAATCATATTGTATTCAAACATTTTTGGTTAAA
GTAAAGGCCACTCTTGTAATGTCCTGGGGCCCACGTGGTCTTTTCCACAACTTCCTCTTCCTCTGCATCTGGCCGAGCCCTGAGTGAGAAACCT
CCTTCTTCCTCTTTCTCTGGGCTTCAGACACCCTGTTGCTAAGGCAGCCCCAAGGAGACAAGCAGAGATTTGCCATGTCGTCTGCCTGCCACTC
AGCCATTTTTCCCCAGTACCCCAGGCAGCTGACCCCTTGGCCTAAACACTGCAGGGGTGTCAAGGCAGGACTCAGCTTGGCTTGCTGCTAGGAC
TTTCTAGAAAACTCGAAAACTCTTCCAATTTTCTCTTCCTTCCAAAAGAAGGTGGTCTGCTGTGGGGCCAGGACTGGTCTGGATTAAGGCGGAT
TCTTGCACTTAGGGGACAGAGAATAGCCAGGCCCTGCCTAACTGCACGTGTGCCTCCTTTGGGATTTGGCAGCTCAAGGCCATGCAGGACTGGT
TTGGGTCTTCAGCATCTGGAGACATGGGCAGGTGCTGGGCTCAACTTTCCCAGTGTGTGCACAGCTGCTGGGATACCCATGTTTCCCATTAGCC
TTAGCCTCAAACTTCCTTTTCTTCTGGGGTTGGGTTCCCTTAAGATGAAAACATAAAAAAAAAAAAAGATGTATTTATTTTATGTGTGAGCATT
TTGCCTACTTGTGTAGATATACACCACATGTGTGCTTTGGTGCCTACCAAAGTCAGAGAAGGACATCTGATCACTCTGAAACTATAGAGTTACA
AATGGCTGTAAACCATCATCATGTGAGTGCTGAGAACTGAACCCGGGTCTCTTGCAAGAGCGAGGAGTGATCCTAACCGCTAAGCCATCTCTC
CAAACTTGAAAGCCCGTTCTTTTCCAGTGTTGTGTTGTTGGCAGTCTTCAGACAGTGCACGGAGCTCTAGAGACATAGGGCAGCATATAACATT
GGCAAAACCTGACTTCCCAGATGGCTTAGCTGCCTGCTCAGGGGTAGGGCCTCTGAGGCCTGGGTGCTGTCTCACATGGCCTGGTTACCACCAC
TCTCCAGATGGGTTCCTGAAGCACCTTTGTTTAGAAGTGGTGCCTCTGGTAGAAGTTCGAATTGCTGTGTGATGTCCCATATCTGCTGGGGACT
GTGCCCTGGGCTCTAGTATGGAACCCTTCTAGGACCACAGTGGTTCTGAGGCCCAGAAGGCTGGAGAGAGCATAGATGATATCATCCTGAGGGG
GCCTTTTAGGTGATGAACAGGTGGGGGTCATGAAGGACACGCCCATCTGGGGGTGGCAGTGAGTGTGTGAATTTCTGAAGACCTTGGGAGATGC
TCAGAAGGGGCCTGGTTGGATGTGAGTGCAGCGAGAACTACTTCCTGACCGAGGCATGCTGCGGAGGGTGTAGTATCTCAGGCAGCACCAAGCC
AGAAATCCAAGTGCAGAGGTGAGGCTGAGCCATGGCACAGGCATTCTTCCCGGACTGTGAGATTCCAGCATCAATGAAATCAATTCCTAAAACT
CCTACTCTATTAGCCTGTAATTTCTTCCTCCTTTTTATCATTAGCAATAATGCAGTGACATTTTGGGGTGCCCACTTTCCACTCCTCACTGCCT
TTGATTGACTAGTTAAGACCTGACTTCTTACCGAAGATGAGCAGATCCCGGCCATATCTTCTGGGCCATGGAACATTGAATGTGCCTTTCCAT
AGAAAGTTTTAGATTGGGAAGTGCTAGGCCAGCTAAGGGAGATCTCTCCATCAGTATCTTTCTCTGTGTTTGTCACCTGTATGGGATTAAAAAA
ACATAGGATGCATAGAAAACCCTCTTTCTCTCCTTTTCTTTTCTCCTCTGTCTCTTCTTCCTCCACCTCCTCCTCTCCCTCTTCCTCCTCTT
CCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTGCCCCACCTCCTTTTGCCAAAATGAATGTGTAGACGGCCTTTAGTGAGAACAGCA
GGGCAGCACAGCTCTGGACATAGCCATCTGTTGTGCTACTCCTGAATAGGGTCCCTGGTAACCTGTTCCAGACTTTTCTGTTGGTAACTTCACA
GAGGAGCCAGACCGTCTGTTGGTCTCACCAACCAGCCTTTGGTCATCAGGCTTTTCCACCTGAACCTGTTTCGTATCTTCACCAACTGGGTTCT
TTAGGATTGGTGTTCTTTTCTCACCATGGACAGTCTGCATCTCCCATCAGTCCTCCCTGGGGCTGCATTTTGGGATACCAGGGGTGGCCTGTGT
CTGCTGGACCTGAAGAGGGGGGGTCACTGGCAGTGGACGGCTCTGCCCCTTGTCCAGTGCTTCTAGAAACAAACACTCTGAGCCTAGGGACTCG
GCAGAAGTGTCTGATAAGTCCCAGATGCCGCCAGCCACAAGTCCTGTCTCTCCAGAAGTATTGCTTTCTCTAGAAAGTGGCTTTAGAGTTATTT
AGGACAGGTGGAGGTCATTTCAGTCTTCGGCTCCGGCCTCTTGAGATCTGGATTGTGGACTGGGGGGTGGTGCTTCCCTATGACAAGGCTAACC
ACAGCCACGGCTGTAGGCTCCACTTGGCAGATGCAGGTTCTTGCTACGGGTTGCTTCCGATGCCTCGAGCTGTACCCCATTCTCCTCTTTGTCT
CAGCTCTGGCCTTTCCAGCGCGTCTCTGTGACCCAGGGATTGAGGACTACCGATGGCCTCTTACTGGACACTGGAGTGGGACTCTGGTCCATCT
CATAAAGAGGCGGCTGTGTAGCCAGAGAGGGTTTGTGAGCCCATTAATGGTAGAAGCCTGGGAGAGAGCAATAGTGGGAACTTCCTAACCTACC
TAAGGACTGGCATGCTCCTTACAAACCATCTTAGGGTTTGACCGCTGCTTCGAGACCCTTTTTCTGGAGTTTCCCCCTGTTGGTTTCTGAGCCA
GCGCTGTCCTTGACCACAGTATCACGCAGCTGGGCGCTGAACCCTAGTGTGGATCTAGGACTTCCTTGGGCTTATTTCCATTATTCAGAGACCT
GGAAATGCTTGTCTCCAGACTCGTGTAAATGGGCTCTGCGATGTGGAGAGCCTTTCTGATCAGAAATCCGGAAGCATGGCTTTGCTGTCGAGTA
CTAATTATAACAATGATTTTTTAAAAAGTGCTTACCAGAGTATAATCAGCACACAATGATCTCGAGGTCTAGGGGTGTCTTAGGAGCCTGTGTT
TTGTTTTAGACGCTCTAGAAGATAGATTCCCAGGCACCAGCTAGCCTCAGGTAGCCATAAGAGCCACACTGGAATCCACATTGTCACCCTTCCT
CTGGGTGTGTTCTTTGAAGCCAAACATTTGGCCTGCTTGATAGAGTCATTTGCTTGTTAACACCTATTTAAACACCTGGCTCCCTGCGTCTGAA
GCACCTCCCTCCACCGATAACACCGCCACTCTTCCTCCCTCCCTTCACAGTCTGTCTGTCCATCTTTCCTTCTGCCACTGCCCATCCATCACCT
GCCATTCAGGTGATGGTCTGCCTAGTCATGAAACAAGATAAACGTGTGATGTAGAATCTGAAATACCCCTGCCTCTCTCAGCCTTTGATATACT
AGAATTGCAGAGGTACTGAGCTGTGTTGTGCCTGGCACCGTCTGAGGCTCTGCAGACAGCCGTGAACCACAGGGCAGGCTGTGAAAGCTGGCTT
CTGTTGGTCAGAGAGATGGATAGATAAAAATTCCTGTTAAATTGTGATATATACCAGGGTGGTGGTGGGGGAGGAGGTAACTCAGCTATTGGGT
AAGGATTTGAAATCACAACTGGCTAGGGAATGTGCATTTTGAATATAGAGAAGACAGTAAGAGCCAGCCATGTGATGTGAGGTGGAGGACATCT
TGCCTGAGGAATGCTGTTGTGCTGGTATAGAGTAAGGTCTATAGTCTAGCAGGAGGCCTTGCAGCAGTCTGACCTCAGGCCATTCCCAGAGGCT
ACACTCTGGGCCTGGAGTCCTCAGGGCTGGCCCCAGGTCTTGGACTCACTGCCTTTGTGATTTATGTGTGTCCTGCTCACTGGCCTCACTCTGT
CTTTCCTCTTTTCTTCCAGAACACTACAGTTATGTGTCCCCTAGTGTCACCTCGACCCTGCCCCTTCCCACAGCACACTCTGCCTTGCCAGCAG

CATGCCACGACCTCCAGACGTCCACCCCGGGTATCTCAGCTGTTCCTTCAGCCAATCATCCCCCCAGTTACGGAGGGGCTGTGGACAGCGGGCC
TTCGGGATACTTCCTGTCCTCTGGCAACACCAGACCCAACGGGGCCCCGACTCTGGAGAGTCCGAGAATCGAGATCACCTCCTACCTGGGCCTA
CACCATGGCAGCGGCCAGTTTTTCCACGACGTGGAGGTGGAAGACGTACTTCCTAGCTGCAAGCGCTCACCGTCTACAGCAACCCTGCACCTGC
CCAGCCTGGAAGCCTACAGAGACCCCTCCTGCCTGAGCCCAGCCAGCAGTCTCTCCTCCAGAAGCTGTAACTCTGAGGCCTCCTCCTACGAGTC
CAACTACTCCTACCCATTACGCGTCCCCCCAGACCTCTCCGTGGCAGTCACCCTGCGTGTCTCCCAAGACCACGGACCCGGAGGAGGGTTTTCC
CCGAAGCCTGGGTGCCTGCCACCTGCTAGGATCGCCCAGGCACTCCCCATCCACCTCTCCTCGGGCAAGCATCACGGAGGAGAGCTGGCTCGGT
GCCCGCGGCTCCCGGCCCACGTCCCCCTGCAACAAGCGCAAGTACAGTCCTCAATGGCCGGCAGCCCTCCTGCTCACCCCACCACTCACCCACAC
CATCCCCCCATGGCTCCCCTCGGGTCAGTGTGACCGAAGATACCTGGCTCGGTAACACCACCCAGTATACCAGCTCTGCCATTGTGGCAGCCAT
CAATGCCCTGACCACCGATAGCACTCTGGACCTGGGTGATGGGGTCCCTATCAAGTCTCGAAAGACAGCACTGGAGCATGCGCCCTCTGTGGCC
CTCAAAGTAGAGCCAGCTGGGGAAGACCTGGGCACCACTCCACCCACTTCTGACTTCCCACCCGAGGAGTACACCTTCCAGCACCTTCGGAAGG
GTGCCTTTTGCGAGCAGTATCTGTCGGTGCCACAGGCCTCGTATCAGTGGGCGAAGCCCAAGTCTCTTTCCCCGACATCATATATGAGGTAAGC
AGCCTCCGACTGGAGTTGGGCATACGGTAGGGGTGTGGCTGGGGTTGAGAAGAGCCTACCCTGGCTTCTCTCTGGAGATAATGGTATGCTAGCA
TTCATAGCATTATGACAGTCCCCTCTGTCCCTTCTTCTGGTGATAGCTGTCTCCGCCTGCTTGTTCCTCTTCTAAGGACACCTTGGACTAGACT
AGGGGACCCTTACTTTTTGGAGGCGTGTTCACAGGTGTCAAGGGTTGCAGCACATGAGTTCCGTGCTGCTCTACAGCTCTGNNNNNNNNNNNNN
NNNNNNNTTACAGGGAGGTCCCCGCACACATGCACAGCTGTGTTGGTAATAAGCCGAGGGAGGCAGCTATCCTCCTGTGGATGTTCTGCCTGCT
GCTCGCCCACTTCCTCTCTCTATGCCTTAATCGCTATCTATCACCATGCTGGGGCAGATGGGCCCCTCAGCTCACAGTCCCTCAGAGCAGCCAG
CTCACCAGCGTGCTACCAGCAGCACGACCACCACCTCCCGTCTTGCTGGCCGTCTGCTATCAGGGAGTGTGTTACAAACCTCTGGTCTTAAGCC
GTTGGTTTTTCTTTTTAACGGGATGCAGGGGCTGCTTGCGATTTACCAGGTCCATCGAACCAGCTCAGTGCTTTTATTTTTAACTAAACAGCTT
TCCTGTCAGCTGTACCGCTTGCGACGCCTGGAAGGCTGCTTTCTGCTCCAGGGTTTTCACTTGAGGCATGACAACATCCACTCAGGCCCGTTGA
ATGTGCGTGTGAAATCAGTAGGGATGTTTCCATGAGCTGAGGCACCTGTGATACCCAGGGACTATCATTTGGCAGGGACAGTCTAAGGCCTGCT
GCTTCGCTTTTGCCTCATTCCTCCCCCCCCCTTCTCCTCAGGGCAGACTCACCCCCCCCACACACACTCTTGGGGCATCACCACACCTGGTATTTG
GCCCCCTGACCTCTAGATGTAGACAGTGACTATGAAGCTGTTAGCTCCATGCAGTGCAGCCACGTGGCCGTGTCTTGAGGGGTCACTCTGGGAT
GTGGGGTGGCCAGCTGGGAGCGGCACTGCTGAACCTGTCTGTGAGTGGCAGCAAGGGGAAGGCCCAAGCAAGTTGCTAGGTGCTAGGAGCCTGT
CTTGGGCAGAGAGACTGAGGGCAGGGGTGTGGAACAGAGCTGTTTCCTGTCTTGCCGCATAGGCCTCTGTCGTTCTATCTTGTGTCCCTCCATC
TGTCCTAGGAGGCCCAAAGGGCTAGCCAAGTCATTAGAGCATGTCAGGATCAAAGTTTATCTCAAAGACGGGAACCCCAAATCCATAAAGAACT
GTTGTGCCTGCCATACTGTCGGTAAGACTTCTAGTTAACGAAAACCGACTTCTACTTATTTCAGCTCGGTCATCAGCATCACGCTTTTGATTTG
CGGTGCATGGACAGTGAAGGTCACTGTTGCTCACAAAGACTTGGTGGAACGCCTGAGGCCTAGGGAAGAGTCATGTACTAAAATATATCTGGAA
CCATAGAAGCAAAGGCTTCTTATAAGTTAAGTGCAGATACGCACATGCGTGGTGAGATACGCACATGCGTGGTGAGATACGCACATGCGTGGTG
TGGGGCTGGAGTGAGGGAACCACTGACTGGTGGCCTTTATGCCAGGCACACGTGGTCTTCCAGGTCAGGGGCTAGAAGCCCAAGCTGAAGGTTG
TGTGGCAGCTGGTTCCTCCTCCACGCTACCTTGGCTTGCGCTAGCCATCACCCCACCATGGGCCACAGCCATTCCTTCCTTTAAGTACTTCAGA
TCTGGATCTGGGCTCCTGCTAGTGACACCAACTTGGTCACCTTTCAAGGTCCTTTCTCCAGATCAGTTACTCTCTGAGGTTCTGGGGCTAGAG
TCCAAATTAGAACTTTGGGGACACAGATTAATATCTGACTGCCTATATTATTTTTTTTTTCGGGGAAATGACAAAATGTCTTCAAACATAAAAT
TTACCCTTTTTCCTTTTTTTCTTTCTTACTTTGGTTTTTTGTTTGTTTGTTTTTGTTTTTCGTTTTGTTTCTTGGTCTTGGGTTTTTATTTTTT
ATTATTATTATTTTTTGTTTTGATCTTCACAGAGACAGAGGCATCCTCACTACGTTGGGCATTCCTGGTGGCCTACAGTTGGCTATCTGCCCAG
CCCAACCTGCCAGTGGCACAGGTCCTGGAAAGCAGTTGCTGTTTTTTCCTCTACTTAGGAGCAGTGACCATGGCCCAGTGGCCTGTGATCCCAT
GGTCTTTATCTCATGGGCTCAGAGCCCCTGGGGTTTCTGTGATGCTATGACATTCCTATGAGCTTACACAAACAAACACCACCCCATCCTGGGG
GTTGAAGTTCACCTTTTCCCACTGTTTTGGTTCACCTCGAAATCTGTTTCCTGGTCCCTTTGAATGGGTTTCTGTAAACTCCCTAATGGCTGCT
CTAGGCAGCTGAGAGCTTTCGTGGGGAGGTGACGTGTATGGCTGTGACCATCACTGTGAAGAAGCCAGACTCCTTCCTCACAGATGCTCTTAGT
GGACAAGTACCAGGTAGCAGGAACTTGAAGGTATCCCTGAAAGGCTGTGTTCCCACATGTCCTCCAGATCTGGGCTGGAGAATTCCCACAGTGT
GAATCTACCTCCACTGCCCAGCCTGGGCACGGTGCCTCCTCCAGGCTTGTCGATCCATCCCGGCTCAAAAGAACACACTGCAGTCGCCTTCCCA
AGGGACTCCTATTGTTCTGTAGCCATTTCACTTTAGGGATCTTGTTTGTTGTTTTCTGGGGTACCCACTCCCTCTCCTGTTCAGAGCACTCCAG
TCGGCTCTATGGGACAGGACAAAGAATGGCACCGAACTCCTGCTACAACCGAAGAAATTGTATTTGTGAAGCTAATAAGGACAGTGGAAGGGCT
TTTACTGTTTTCGGCGCGGGCTTTAACTGCATGCTGCTGCTGGAAACTGGCACCGAAGTTGAGAGAACTTGCTTGAACATCACCGACAGTGATG
ACAATGGCAGACACCTTCTGTGCAGGTCGAGCCATCTTATATGTCCCTGCTGAGCACGGCTAAGGAAATGGCCAGGAGTGACAGTGTGCAACAG
CACGCTGGCACCTGTCAGTGTGTGTGGAGGGTGCACACCAGAACACATGCCTCTGGAGATGACAGTCTCCAGTAGATTGTTCCTGGATGTAGTT
TTCAGATGGTAGCTTTTAGGGAGTTGTGTGTGTATACACATTCATGTGTGCACTTACACACACACACACACACACACACACACACACGGA
GGTTATAAGTCAACTTTGGGTGTCTTCTCTATCCCTCTTCTACCTTCTTTTTTTGAGACAGCATCCCTTATTAAATATGAAGCACACCAGCCCAG
CGAAGCAGGTGGGCAGATGAGCTTCAAGGATTCGCTTGTTTTCCCACCCACATTACCGTGGCTACAGATGTGTTCCACAGCACCCAGCTTTTAT
GTGACATCTGGGGATCCAAGCTCAGGTCCTCACGGGAACATACACAGCAGGCATTTCACCATCATGCTACATCCACGGCCTCTTTAGAGGGCTT
TAGTATTAACCCAAAGGAACTGAAGTTTAAGTGACTGTCCCTTTAGCCATTCCGTTCTGAGCCAAAACTTCACAGAGCACCAGTGTTGTGCGTC
AGAGCTTGGGTCAGCTCTGCACAGTAGCATTTTCTTTCCTTCTAAAACAGGGTCATGGGAAGTGTGTTAATGCCCTCAGCCAGCCTGACCTCTG
GACTTGCCTATAGAAAGGCAACGTTACGTGAGGAATTCGGATAAAGACGAACTGGTCTGGGGCTAGCAGAAGCGTTTTAATGAAGAGTGTTCAT
GACACGGAGACACATTTGCTGAGTTAGGTTGTGATGGCTTGGCCATTGCTTTCTAAAGAATAGAATTCCCAAGGGGTGGGGCCGACTCAGCAAA
CAGCTTTTGCTCAGAGAGACGGCTTGGTTCAGAAGATAAGAAATGGGCACTGCGTTGAAATCAGTTTAGGTCAGAACTTGTTTCTTTCAGGGTT
TGGCTGTGATGTTGGATGCCTTGATGATACCAGTGGCTTTGATGATATATACGCACAAGTGTTAGCTTCAAAAGGTCTAAGAAGTCCTCTTGCA
TTTGAGGTTATCGGAATAGCTCAGAGTTTATCGTGAGTGGGAATAAGATACAATATGCCTGTAGATGGGTCACAATAAATCCAGCTCTCATCTT
CTCCACACTTACTTACCACGCTCATCAGGGGATTTTTGCGTTGGACAGCTGTTCAGTGAATCCAGTGACCTTGTAGCCTGGGGAAGGCACGGTG
TCAGTGAAAGATAGTTTTGGTTCCTGGTTCCTCAGGAGTGATGGCCCACCTCAGGACTCTGTTGGCCAAATTGGCCTGCCCATACTTCAGACAT
CTGCCAAAAACATCCATGTCTCTGGTTTTTGGTGGCTCATTGGGTCCGTGATGGTCGTAGATTGGTTGCAAACTCGAGTCTAGGAAGGCCCTG
ACCTTCTCTACAGCACAGGAGGGCAAGTGAATCGGTGGCCACAGTGTGTCTTGTTCAGAGATAGGTATCAAGTGAAGCTTACTGACCGGCAAAA
GTTAGTATCGTGTGCCGAGAACCCACATAGACTGCTAGCCCCAGCTAGCAGGTGACAGGCATAGACAAGGTGTCCAGGCAGAGGCCCTGGTAGG
AAAGAGGGAGGTTGCCACAGATGAGTCCATGGTTATGCAGTCTGTGTTCTCAAGAGCTATCTGCTGTTTTCTCTTGGCTTTGTAATTGGCCTCT
GATGTCCCTGCCACAGTTTGGGGAACGCACCATTAGCCTCACCAGGTGGGGTGCCATACCCGTCTTTGTGCTGTGCTATAGGCCCCAGATATCC
CTGGAGATTTGGAGGAGGGGAGGGAGGGGTAATTTGGGACTGGAAAGAAGTGGCTGTCACCCAACCAGATCTTAAGGAGGCTTTGCAGATAGAG
AAGCACTGGGCCGGGTCAGGGCTCCACACGGCCAACTCATCACTGACAAAGACAAGGAGGTCCCTTGTGAACCTGCCCAGATGCTAACTGATAA
AGCCAGGACAGACACTCAAGATGAGTTGACTCTAAGGCCTGAACCTCTGTGATGCTCCTGATTCTTAGTTGTTCTGTGGAGTCAGCCCTGGAAT
GTGCTCTGTGCAATATGGGGGCAGCAGGGGCTTCAGATTAAACCCAACTCTCCGTGGAAAGAAGGACACCGTGGGGAGCTTCGGAGCCAGAGCC
TGAGAGCTAACTGGCCCCAGAGGACAGGACTGTCTTCTAAGGCCTTTGGGGTTGTGGGTGCTGCATATAAGACCTGGGAGGTTTGTGTATGGAA
TTCTCAATCCACTCTCCTCGTGCCTTTGCGGTGGTACAGGGTGACTGAGATGCTGGTTCATGTCTGTTCACAGTTTGATACTTGGAGGATGGGC
CTTACCTCATTTGCATCTGCCTGGAAAGTTAGCCTGGTGTATCAGTTAGGACTTTCAAGGAGGCTGTGAGAGCCGAGCTCTGTCAGTATGGGGG
ATGCTGGCCTTTGGATTTCCTCTGAGTACTCTGTAAAGAAAGCGGAACTAGTGCACTTCCCCCTTCTCGGGAGAGCAAGATGACATCAGTCTTT
GAGGCTTTGAGCTCAGGATTTTTAAGTGTAACCATCTAGACTTTAATTGTTGCCAGTCTCAGAATAACCAAAATGTGACTTTGTGTCCCCAGGA
GGGCGAGTAGACAGTGTCTGCTCTCGTAGTTCTCAGTCAGTTCTGGAAGTGTTCTGCCTCTGCAGCCTTCACCAGTCTGAAGTTTAAGACTTGC

SAGRES DISCOVERY 02-38

CATCTTGCTAAGAGCCCTGGCTGGGAGGAAGTGTCCAGGGCCACATGCCCCAGTGACCACAGATGAAGCAGTCATATTTCTGCTCACATGCTTT
CATCTGAAGAAAGTTGTGAAGAGTCGTTGGTAGTTGGGGTTGCCTGTGGAGTGCTGTCTCTGCCTATGGATGAAACCCAGCTGGGAGACAGTGG
TGTGGTGTGGTGGTGCTGGTGGTGTGGATGGGTGTGTGTGCACACATGCACATGTGTTTGTATGTGCATGTACATGGATGCATAGACTTGAGGA
CATCATCAACTATTACTACCCAGGCTTCGTCCACTTTTTTCTGTGTGTGTGTGTGTGTGTGTGTGTGAGAGAGAGAGAGAGAGAGAGAGAGA
GAGAGAGGTGGGGGTTCTCTTACTGGTCTTGCTTGCCAGGGATCCCCAGGGATCGACCTGTTTTCTGCCTTCATGGGTCTGCCTTTATATTTTG
CCCCCTAGAATGTGGGTTCTGGGGACTAAACTCAGCTCCTAGGCTTCCAAAGTACTTTGCTAATGGTGCCATCTCCATGGTCCCCTGTCTTTTT
TTCATCTACTCTGAAATCCCTTCTGGTGACACAGGAGTCTGAGAGGCAGGCATTGCTGTACTTGGAAGAATAGCCAGGGAAGCTGCAGCTAGTGTG
GGATTATGGGAACACTTACCACATCTCCTGAAGGCCATGTACACGGGACTATTACAGACCTCTGCCAGGTGAATCACCTGTAAGGCAGAGAGGA
CTTGCCTGCCGTGATAGCTTAGGCAAGACATGTGTCACCACTGACCGCACCTGGCCATTGGAAGGTTTCCTTTGGGACATGGTGATCATATGCA
CATATTCTTCAGATGCAAACATTGCCAGGAGGTTTGATATAGGAGTGGCCATGCACCGCAGCCCCGGCCCATGGCATTCCTGGATAGATTGGCC
ACCCAGCTCTGCCTCTGATTTATAAGCTGCTGTTTCCAGAACAGGATCCACTCAGGTCACCAAGATGCGCATGGTGCAGACAGAGACCTGTGCA
AATGCCTAGCTTAACCCATGCTAGGTGACTGTGGCTATGTGTCCAAAGCTCCAGGCCATCTCCAGGTAGTAGTTTTCTATGATGACCTTGTTTT
TGCTGGAACCAGACCTCTAGAGCCAAGAAGCCCTGGGCAGCCAGTGACACTGATGGCCTGAAATCCCTAAGCTAGGAACAGAGCTGTGGTGCCT
TATGTAAGTGTCAGACTGCAGTTGTCAATTCTACAGGAGGCAGGGTCTTGGCTGCATGTCTAGGATCTCCAACCCTGGGCCAAGGTGTCCAGAC
TGTTCCGTGTCTCATGATCATTAAGGAATATCTGCCTTGTGACAGCACAGGGAATCATGGCTGACGGGAAGGAGCTTGCTTCAGACAGTCATAA
ATGGCAGTGGCTTCCCTATATGTTGCTÂCCATGTTCAACAGACTGAACCAACTTTCAGAACTTGACCAGCAACTGTTTGGACATCAGGCTGTAG
GTCACGGCAGAAGTGTGTCATGGCAGAAGTGTCCCGTGGCTTGCGTGTGCTCTGTCCTGCGTTCACTTGTGCGACGTTTGGGTTACCGTGTCAG
TTTGTTTCGGTTTTCATTTTTCATAAGTAACGCATGGCAGGTGTGGCCTACAGCATCCTCATCATTAAAACATCAGTGATACGAATCCTGATCA
GCTGCAGCTGCTGGGCGTCACTCGGTGGCTAGAGAAAGGCACAGTGTGGAAGAGGAAGCTGGGTGCACAGGGGAAATGCAGGGTGTGCAGATGT
CAGGCCTGCCCCGGGGACAGAGAGAGCTGGAGAGGCTAGACAGCTCCTTTCCCACAACAAATCCTCCTGAGAAATATTCTCCATCTGTCCTTCC
TTCTTTCTTTCTTCTTTGTTTTCCAGTCTGAAACAGGTAAACAGGGCAGATACCCTTCTAGAGTCTGGCTAGAGACCCAGGAGCCCAGATCTCC
TGGAACCTGGAGATTCAGCCTATCTCCCGAGCTCTGTCCTCCACCCACCCAGGATGCAGGTGGTAAGAGTAACCCTCACAACGATGAGATACCC
AGGCTTGGAACGCAGTTCTGTGGCTTCAGATGCACAAGAGGCTCATGGGATATCCATGGGCCAGGGAGGTCTTAGGGTGAAGGGCAGAGTGCCC
CAAACCTGGAAGAAGCATTTÇCTTGGAGATGTCCTGCACTCTCACTGGTAAGATCTTGGGAAACAGCCAATGTATGAGGTCTGTGAATCTGCTG
TTTTAACACACACATGTAGCATGCACAAACTCACATGCCTGCTGTCTGGATCCTGCAAGTTCCAGATTTGTGACTTTGACTTGGTCTCCCAAGC
CAGTCATGCACTCTGCTTTCTGTTACAGGGACTACATGCCTTTGAGGCTTTGCTATCTTCCTTGGCAAGAGTCCCCAGTGTCCCCTGTCCTGTG
CCCCAGCCATAGGACCAGTACAGGGACTAGGGTGGGTAGAGCTCAGGATAAATGGAACACTCATTATGATTGTTGCTCTTAGGCTGTGTCAGGA
CCAGGATAGCAGGGAACGTCTTGTACTGCACAGCTGTTGTGGTAGAGGCTGGACCACAAAAGGAAGAGGCCAGCAGAGGACAGCTCCTTTGTCC
CGAGCCTAGCTTTAGGTGGGAAAGTTGGGGACTGGGCCATTTTCCTTCCCTATTCCTGCTTATGCCTGTGGGTGGGGCCCACACTGAGCACCCG
TCTTCCTCGTAGATATAGAAAAGTGCCACTTTTAGTAACATGCCCAAGATACTAGTCCAACAGACAAGGATGGCTGGTCACAGTCTCTCGGGCA
GGATGGTGGTGTGCCAGAGCCCTTAAAATATTCCAAGGTGTCCTGGTTGCTGAGGCCTTGCTCCTATCCCCACCCTTTCCATCTGAAGAGGAAA
CATTTTGTTAAGGGTCAGCTTATTGGCGCCTGTGGTCCCTAAGGTCTTCCCAGGTTGCTTTGGGAAAGGTGGGAACTAAGAGACCTGGACTAGG
CAACCAGGAATCCTGTGCAGAGATGGCACTCATGTGCTGACCAAGGAAACTAGCCTGCATGCCCTGCCCCACCAGGCCAGCCCCTGGGCTGTCT
GTCCATCTTGGCTGAGGTGGCTACCAGTCCTCTTCTGTCCAGGCACTGTCTGGACCTCTAGAAAGGCCAGCCCCTCTTGGGCGAGGCAAGCATT
CCCAGGCTAAGAGTCCTGTGGTCAGGGGGCCACAGCCCAGATGTGCACTCTTGACAGTGTTGCTGGGTGGTCCTGGGCTTGGCCCTGGATGGAT
GGACAGATGAAGCCCTTGAGGCCCAAAGTTTGCAGAACCAGCCAAGAAGTGCATTGATGGCCTTCCGCAACCCTTTCTCCTTCCTCATCTCCCT
GCCTCCCTCCGTCCCTCCCTCCTCCTCCTCTTCCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTTTTC
TTCTTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCCTTCCCCTGTTCCTTCCTATTTGACTCTTGAAACC
CTTGGTCTTTCTTAGTTAGAGGAAGACCTTTGGCTGCTGCCCCCGTGTTGATGTAGTCGAAGGTCTTGTTTCCCTTTAACTGGCTTCCATTTTT
TTCCACATAAGCAGACTTTAGGCTTGGGTTAGGTTTGTAGTTCCATGGACCTCAGGGTGACTAAAGCATAGATGGTCTTCACGGTTTTCCTTGT
AAGATCTGCGCAGAGGGCTTTTTTAACTATGGATGGTTCAGAATCGAAAGGATTCTACCCAAACTATGTAAGCAAATCTGTCCCCTCTGAGTTC
CAGTGCACAGGAATTAATCTTGTACCTGTAGCTGGGATGACTTTCCATGAAAGTTGGTGCAGCCTGAGGACCGGTGCTTAGCTCCCCAGAACAC
ACATAAAGCTAGTTGCCATGTGTACCCATAACCCTGAAGGAAGAAGAAAAGGAGAGATAGGCTTCTCTTTAGAAATTCATGGGCTAGCTCAAT
CCCAAATGGGCAGCAGGAACCACCAGAGAGACCCTGTCTTAAGTAGGGTGGGAATGGATGGCCAACACCTGAGATTGTCTTCACACATGAACAC
ATACACACATGCACATGCTGAGTTACAAAGGATAAACACACTCAGGATTCTTTGTTAATACAAACAGGGTTCATTACTGTGAAACCTTTTTCTT
CCTGACCCCCAAATCTCCATCCCGAGACAGGGTTTCTCTGTGTAGCCCTGGCTGTCTTGGAACTCACTCTGTAGACCAGGCTGGCCTCAAATTC
AGAGATCCACCTGCCTCTGCTTCCTGAGTGCTGGGGATTAAAGGAATACATCACCACTGCCAGACTGCCATCTGCCATTACTATTATATATATA
TATATATATATANNNN

CCAGTGCTCTGACTCACCGAACCATCTTTCAAGCCCCTGTAACGTGTCTTAGGATGTTGGTTGTATGTAGTTAACAAGTCCTGACACTCAGCTC
TGACGTGAGATTGCTCTTCATAGATGGCAGTTTCAAAACAGGTTGGGAGAAGGTGCTAGACACATGATATCTGACAGCGCTGGTGGCAATGACT
GTGCTTTGGTGTGGCCAGCCTCTGCTGGGGTGGAGGCTAAGCCAGGAAAAGTGTCCCGAGGCCTTGCAAGGTCTTCAGTAAGACACGGGACCGA
AATCAATCAGATGATTAGGGGCCGGATGCTTTCAGAGGCTTGCTTCTGGGTCAGCAGGAAGTTCACACTCAGATCGGTTCTTTACAGAGCGTCA
CTCCTCTCTGTTGGAGTCAGGTGTCGGGTGGAGGGGCAAACAGCAAGGATGAGAATGTTCTGAGGGGCGGCCTGGGGAGTGAATACAGTATACA
AGGCTGACGTTATGACACGTTGGTGCCGGGGTGGGAGACTTCCTGATACTTTTGGGAAGCACGAGGCTAACACCTCAGGAACCCCAAACTGCTG
ACCCTGTTGTCAGGACAGGGTAAAGATACAGTCCCTGATTTAATTATGTGAACATTAAATCAATGGCGTCTATAATAGCAATGGACTGGCTAAT
AATCAAAGGCCAGCCATAAAGTAATATTCGCCTAATATTTGTAGTGCTGTTATTAAACAAAGTTCTTACCAATGAAAGATGCTCAAATTTTAAC
CTTTCTTTTAAATAATCAGGATACCAAATTATATGTTTTGCCAAGACACTCCCTTTCTGTATAAAATGTGTGCACATCCACAAGTTCTCTAAAT
TGGGTCACACGTGATATAAGATTTTAAAGTGTGTAGGTAACTTCAGATTACTTCATTTATACAAATCAAAGGGTCTCCGAGGCCTGCCAGGCCA
GCCGTTTTCCAGGTTGCATTGAGTGTAACTCTTGACAAGATGGAACTGAATTGAAGATGTGTTTGAAGTCAAAACCCTGGGTCACTCCTGAGTG
CACAACTCTAGCAGGCAACCACAGCCCCTGGGTCTGATGTCAGAGACCCTGTGGCAGCAGAATCATGCTGACACCCTGCAGTCCAGACCCCAGG
GTGTTCAGCCAGGTTTCCCCCTCTAATCTAGTCCCCATCTCTGATCTAAAGTGAAGTCCTATGGGTTTGGAGAGCTGTCCGAGTTACCGTGAAA
TTTTTCAATCCGGGTTGACAATCTTAAATGTGTAAACCACCCTTCTTTTTGCCCCTTTTCATTATTCTGTGCCTGTCTGTCTCCTATCTGCCTG
TCTGTCTGTGCCACTCACTTTTTAAAGATTTTTTCCTCTAGGGGTTGAAACTAGTCCTTCTCATTGTGAAGTTTGCTCCCCCCAGCTCTGTCCA
CAGCCAGTCTTTCTGTGCAGATATAAGAAACTTGTGTGCATATATAAGAAACACTGTGAAGGTGTGGGATGTTTTACAGTGCCTCCTCCCACAA
CACCTGGGTACCCATTCTGCCCCTGGCTTTGAGGAGTCTGGCCCCACAGCCCTGGAAACACACCCCTCTCCTTGAAGTAGGAGTCTGCTCAGCTC
CCATGGCGTGCCTTCCCTGGGGATGCCAGCCTCCCTTCTGGCCAACTCCTCCTCTCTGATGCCCGCCTTCCGCTCAGCAAGCTGCTGGAATCAG
GGTATATGACACACACAGGAAACGGCCCTGACAGGCCTAGCGTGAGTTTCTAAGTGCACGGCAGCCCTTCCAGAAAGCCTTACCCCTTCTGTAA
TGTTACTCTGGAGTCTCTGTGAGCACTGCGGATGGGCCAAGCCTGTGCCGTCAGCCTGCCTCTGTGCTGGGCAGATGCAGGCACTTACTATTGT
GTGTTTGTGAGTCAGATTCCTAGAGGGATGACCCAGCTTGTACCCGAATGGTAACAAACACAGGTGCATCTTGTTAGGACTGGGCTGGAAACAA
GGGACGTGGCAGTCTGGAGGGAGGAGTTCTCTTGAGTCTGCTGTAGCTCGGCACTGCAGAGGGAAGTTATTCCCAGAGCCCCATTTGGCCAAAG
GTGCCTCTCAGGGCTTTCTTTAGAGAAGGGTGATCCTTCCTGTTCCTGGTGAAGAGTATCCAGAGTCCCATTGCTGATTCTCCTGTCTGCAAGC
AGGCTATGTCTGCACCACTTCCATGGCTCTGGGAAGTAGATTAGATTAGCTTTTAAAGACTGGCTGACTTCTTTAATTCATGAAGCACTGGCAA
GCTATGACCACACACGATTGCACAGTAACCATGGCCTTATGAAGACTTTACTCCCCTACCAAGATGCTGCTGGATGGTATCGTCTGACAACTGT
GAGGGCTGATCCCCGGATGGTGCCCCAGGCACAGCATGGGCAACTCTGTCTTGGTGTACCCACACTTAAAGCTCCTCTGTTCCTTTGCAGCCCA
TCCTTGCCTGCCCTTGACTGGCAGCTCCCGTCACATTCTGGTCCATACGAGCTTCGGATCGAGGTGCAGCCCAAGTCTCACCACAGGGCTCACT
ATGAGACGGAAGGCAGCCGGGGGGGCTGTGAAGGCTTCAGCTGGAGGACACCCCATTGTGCAGGTATGGCATCTGCTCTGACCAGCCAATAGCTC
ATACCTAAAACAGTTTTGGATTCACAGCTAAGGACTTTACTCAGACGTAAAACACAGTGACCTCAGAGCCTGCTATGTTCCTTGTCTTCAATAA
TGTCCCAGTGAGTCCTTCATGAACTGGAAATGTCCAAAGTCAAAGTGTGTTCACCGTACCTCACTGAGGATGCATCGTCTCGCAGGCACTGCAG
AGGCAGGGCATCAGCCACTCTTCTCCTCACAGAGGGAATGGCTGAGCAAATGCCCAAGTCAAAGGATATTTTGTGTGAATGGGTATCACTTTCA
TACTACCATCAAGTTAAAAGAGAGACAGTATGCAGGACCACTGTGAATCAAGGGCTGTCTGTGGCTACCATATAATGCTTTTCATTCCATCTAT
AATGGTTTTAAAGGTTTGCCCAGAGCAGACTTACTTGTGGAGCAGGCACCATTACACCAACTGTTCTGCAACTCTCTTTCAAAACATCTCTGCC
CCTGGAGCGGATGTGTGCTCTCCACCCACCCCACACCACACACGTGGGATTGGTGGAAGCACCAGGTCTCAGGTCTCCAGGGCAGCAGCCTCTG
CTTCTCAGTGTGCCTGCAGGTGTTAGGAGGTAGGGTCTGAGGGAGCGGGTTATGAGATGGAGTTCTGAGGGAAAGGTGGCTGTGATGGGCACAG
TCACACTTGTGGCATTTTGGGGAAGGAAAATAGAAATCCAACTAACCCAAGTCCAAGAATCTAGGAGTTGCTCGGTTCCACGAGACTGGTTGTT
TCAGCTGGTCTGCAGTAGAAGTAGGTTCTAACAGATGTGCTGGTATGTAAGTGCAAGCAGGCAAAGATATGTGAATCCTCCTTCTTCCAATGTC
CTTATGTAGGCCTCCAACAGAGGGTTGGCCTACCACGTCTGGATCTGGGACTTGCTTTGTCCCAGGCTGACCTTGAACTCAGAGATCTCCTTGT
CTCAGTCTCCTGGGATTAAAGGCAAGTTTTGCCTTGCCCGGGGCCTAAGCTTTTCATGGCCACTATGCCTCAAGATCTCCGTGTTAAGATCCAG
GTTAGAATCCTGCGTGCCCTCCATTTCTTGATTGTACTTCATTCCAGATGTAGTCAAGTTGACAGCCAGGAATAGCCATGACACTAAGTTTCCC
TGAGCGTTTAAATTCTGGGCTGTGATATAGTTTGTATCTGGTACGCTGCTCACCAATGGTGGCCAGGAGGCACACTGGAAAGTCGGAGGCCCAG
CAACGTCACAGGTCCAGCTTGGTCTTTCTCCACCTGGACATCAGTGTGACATCCCAATGGGCGGGGTGAGTTTGTCTTGGCTTCCCTTTGTCAC
ACCCGTCCCCTTGTGAGCTTTAGATCCCAGACATTACTGTTTTAAGCGCCGCCGTGAAGTGCTCACTCTCCGGCTGACTCTGGTCACATGGTGT
TATGGAGAGCTCTTTACCCCAGTATCCCAACATCATAAACCCGGGTGCCCAACCCTGTTATTTCAGGACTGATGCAAACTGGAAGGGGTACTCA
GCAGGGTACCCTGTACTTTTATTTTATTCCATTTAGGTAAATAAAGAGCTGGCAAGGGCAGGAGGCCATGGAGACAAATGGCTGTTTGCCAACG
CAGCAATCAGCCACATGGAATGAGCCGGGCGAGGTGCAGAAACGAAGCACTTTAGCAGCGCTTGTGGGTGATATTAAGGTGATATTTGTGGCCT
GTGTGCTCGATGCCAATTAATACCTACTCTGTTAGCCGCTTGAGGTGATAAAATGCTGGGGGACATCAGTACGCAGCAGCTGGCTTGACATTTT
AAGTTTCTCCCCTTCGCAGGTGGACGAGGTCAGGTAGCCTGCCTTCAGCTGTGTTGGGTAACTACCGGTATTTACCTCTCCTTTGCCCGCTGTG
GTTTTCACTGAATGAAAGTGCATTATTGCTGAATGGAACAGATTTTAATAGGAGAGGAAATAAGTCTGTTAAAGAAAGGCAGGGGAGTAAATGG
AGAGATAATGCCTGGGCGCCTCCACTTACTTGGATCTTACAGCCAAGTGGCGCTGGGTGAGAGCGGGGGGTGGGGTGGGGGTGTGTGTGTGCAA
ATACCGTGCCCTCATCAGAAAGATGGAGCTTCAGGTGCAGGTCTGTGCCATCTTGGGCTTGGTGGTTGGTGGCTGTAAGAATCCCAGCTGCTTT
GGGGCGATAAAGCCAGAAGGAGTGTGGGGAGCCCTGTGTTTGGGGGAATCTGTGTCTGTCAGCCACAGATCCCCACTGTCTTGTGTGTCAGATG
CTGAGCCGAAGTGCTGCCCCTAGAGAACCAGGTCCAGGTGTCTTGAGCTCAGGGCAACAGTGTATATCTCAGTGCAGCTGATATCCAGGAAATT
GAAGCACTTCTGAGGGATGGCAAAATCTAAAACAGTGTTTAAGAAGCACCCTCTAAATTATTTAAGGTGGCGTTAGGGGAAGGTGGCAAAACCA
GGCCAGGCCGCCGCCACTGCCACAGAACAGCCACCGCTTCTACAACACTGTTGAAGGGCAAAGGAAAACACCCCCTAGCTAAAAAAACACCCAG
TTCGGTGGCGTTTCTCATTGTGGGACATTAGCAACTCAAGGGGTTTCCTGGGATATTCTCCCAAAGTAAACTCACACCTGTGCCCGCGTGAGGA
AAACAGCTAAAACGAGGGAATTTTAGGGGATTTGTTTTCTCTTTTGGCCGGTGGACCACAAATTAGATAAAAATAGGATTTGCACGTAATTATG
AAACACACAAAAAATAGAAAACTCTCTTGGTTGCCATGAAAGTGCTGTAACCACAAAGTTCTACCTCAGGCTTCTGGGTTATTTTGATAGACCC
GCTAGTGCCTTCAGCTCTGATGTCCAACTGTCTTGCTCTTGGAGGGGCGAGGCCATGGGCCAGTTCGCATGCCCGGTGTGCGGACACTCCACAA
GCCAGTTTGTGCCCAGTAGTCTTTGTAGCATTCCTCACTGTTGAGGGCTTCTATCTCACCCGAGAGGTCTGGACTCACCGTTCAAAATGGCCAC
AGGCTCTCACTAGCCATTCTATGGTCACCAAGCTACCCAGGCTTCAAAAAGTCTGGCCTTACAGTCTGCTAGCATTTGAAAAGCCCTATCAGAA
GGCATAGCCATGGGTTATCCTGGAACCAAGGAAGGGTTGGGCAGGGCTTATCTATAGTTTTCCTCGAAGTTCCCAGGAACGAGCTACCTTGCAG
CCCCTAGGTGGACATGGTCTGCACAAAGTCCTTATGGAGATATCCTTGGGGACACGGTGGCTCCATTCAGTTAACCACTGTCTTCTGTCAGTTA
CTGAGACAGGGGCTCCTACATCTGTCTAGAGCATGCTGTGGTCTTGCTTCTGATGTCACATTGTAATGTGAGAAATGGCCTAGATCTTCCTTGA
CTATGACACTTGCCTTGGTAGAGCAGATGTCACAAATACTCTGACTACAACAGGGGCATTTGGTCAGGGCTTCTCCAGCTCTCTCCAGCAAAGT
CTTCATTGAGTTTCATCCTTGTCCAGCAAGGTCCCTCGTGACCTTGATCTGGCCTCTGGCTATCAGGTCTCTGTGTCTGTTGGGTCTTAGCCAC
CACTGACTGAGGATCCAAATTCTCCAGACGCTTGGCAGGGGATGTGATATCTACCTTGTCCTGGGCTATGGTGGCCTTACGGGCTCCTGCCTAT
AGAGGCCCCTACTGTAGCGCATGCAATGCTTTGTGGTTTGAGGATTATCTCCCATCCGGGGGGGTCATGGACTCCAGCTCTGTTTACCAATCAC
CAAAATGACCTGCCTGATAGCATCTGCGCATCACACACAGGCCCGCTCTGCTTGAATAATTAATAGGCCACTGAAATATGAACACTCAGAAGCT
GGTCAGAGCCTAACATTTAGGTTTGCAGCATAGGGCTTGCCATTTAGGACAGTGACCAGCATAGCTACCGCCCGGCCGTGAAGGACTCAGATCA
AAGAGACACAGATAGTGTCCCAGACAGGTGACCCTGGACTCTGGGTAGAAATAAGCGACATGCTCTCAGGGCACAGACAGCAGGTACCTGAGGA
TCTGTTGGAACCAGGGCAGAGTCATAGAGGAACCCATGACAGGCCCTGGCTTGTGCTCCTGCACCGGGGCCAGGCAGTGGCCAGTAGGGACTCA
TGACATTAGGGACCCTTCTGAGGTTACATAGCTTGCCCCCACCCCATATAGATTCATGGCAGGGACTTTTTCTATCGTACAGTCCTTTGACAGC

TGAGGACATCCACTGGAAGATGACTTGAATTTCTCAGGTTGTTCAAATTGTCTTTGAGCTAAGCCCTTGTTATAATTACTTTTCTTTCTTGGTA
GTGTCTTTTCCCCCAGGTCCTATGAGGAGATTTAGCATGTCAAAAATACTGTGAGAAGTCAGTTCCGAGGGGTTTCTGACCTGTGGCCAGAAGG
TCCCTCGTCATTTGGTTTAGTGGCCTGGAATGCTCTGTCCCGTGCGAGCCTGCATCACCCCGGATTCCAGGTCTCATCTCTGGAGGCTAACACA
GAGCCAGGGTCCCTCAAGGTGTTCTGGTCAGAGCACCAGAGCCCAAGGGCGAGCTTGGAAAGGCAGCATTTCACTCCGGCTGGGTCTGCAAGCT
GGTAAGGCATGCATACAGCAGGGGCTAACCTGCAGGCCTGACCCCAAAGCAGGAGCATGCTGCCCAGAGTCAGCCAACCTGCATGAGGTCTGGA
TTAATTTTTTATGGATCAGCCTGGACACTGCATGGAGTCCTCTCTCCTTTCAGGACTCTTCGAGGCAAACCTCCTTTCCCTGCCTGTCATGTAC
AGGGTAACTCTCCTGTCCACTTGGATGCTGCCCCTGCCTTCTTCACCCACACTCAGCACCAAGGTCCAGTGTTCAGAAAACGTAAGGGTCTCAG
GGAATTCCATGAGGGAAGCTGCAGTCTCCCAAACACACCACAGCTTTGCTTACTGTCCATGGCAGAGCTAAGGCTCGACAGACAATCGGTAGTA
AGAGACGAGCCGTCGTTCCAGGAAGACATCTGGGGTCAGCTCTCTTAGCGGTGGGAGAGTGAAGCAGACAGAGATGGCCGTTCGCTTACACAGT
CTGCAGCAGCATCCCTGACGGCCTCTGCTAAGCCGTACTGACGTCCTCAAGGCTGGGGTTTCATGTGGCTGGGCTCTCTGTGAGCTCATTTCAG
AGCCTTCCCACTCAGCAGAGTGGGAAGCAGGGAGGGTATTATGTGGACTGTGGGAACAAAGACAAGGCAGGGCTACAAGCAGAAGCCTCCCCAA
ATGAAGATCCTGCAAGTCTGTCACCAACCCCCCCCCCCCCAGACCTGACTCAGAAGCTATGGCTTCTTTGTTCCAGGCTAGGAAGAGTTTAAG
TGATGCTAGTCTGAGATACAGAACCTACTGGTGGTTTTCTAGTCATAGGCCCACAGAGCTCTGACTTAGTTAGGGTTCAGATGAGCTAGGTCAG
TCCGGCCCCTCCTCTACCCTACCCTCCTTGGGGACAGGTGAGATGAGGGCTGAGTATTGGAGACAAAACAAGAACCGGCATTCGTGCCAATAGC
CACGGCAAGAAGTGAGCCACATGTCTCCAGCTGGCCTGTGACCATGCATGGACCTTCTTCCTGGTAACTCTGTGGCTTTCCTTGGCCCAGAGGA
CCCATACGTATCACAAGTGTCCCTGGCTACCCATGGGCAGCTGTTCAAATGTAGAAAAGATACAAACTGTAGAGTGTTCTCTTGGGAGGCTCGG
AGGGACTGTTGTTTGCTCTCTGGGTCTGTTTTGTGCAACTGGCCCTGCCTCATCATGGGAGGTGGGGTGCAGACAGACTACTGTTGTATACCTTG
CCTGGCCTAAGGGGCTTCCTTTCATCTCCTGGGGTAGCACTGGGCTCCTTGCCTATGTGGATGGCTGCAGTTTGCCCTGTAGCTGCAGGATGGC
TGCAGGCCTTGCCTAGCCAGGCCCAGAACCATGACCTCACTGGTCATGTTGGTAGATGCCCTCAGCAAGGACCTCAGGGCTGAGAGAAGAAGCA
GATGAAGGGCCGATGCCCCTCTGGTATAACACACAGGGTCTGGGGTGCCATCGTGGCATCAGTACAACAGGTAGCCTTTGTGAGCTTCAAGTGT
TTTTAGTCCTTCATCTTAGATTCCCAGCCCTGTATCCTCAGCGTTTTGGGCTCTAGTCAGACAGTAAGGGTCAGGTTCTCTTTCATACACTCCA
TGGATGCTTGATGCATGGCCACTGAGCCCTGTGGTCCACGATGTTAACAGTAAAAACCCACCAGAACGCTGACAGCCGCAGGCCGGACCCTGCA
AGGTAGAAGGAAGGGCTGGAGTTCAGGACAGCAGCACTATTCCCTGGGCGTTCCCCTACATTTCTGGGCTTGGCATCACCATGGTAGCACGTTG
TGACGTACTACATGGCACGGCTGCTCCTGAGTGGCCTCTGCCCTGTAACACTAGCCTAGAGTGTCACCACGGTCACCGCCGCGTCGGGATGATT
CCCAGGAGAGTGTACAGGTGGCGGCTTCCTGAGTGGCCTAGTCTATGAGGTACTGAGGGAGGCGTCTGTGTTTCGAGTGTCTGTACCTTCGTGG
CAGTTTTACAGAAGGAGTCTGCTGGCGTTGGTGCCTTTTTCCTTGGATTTGGGTGGGCAGAGAGTGGATGAACGCTGCCATCTGCAGGGCCAGC
CTCAGGGATGCTAAATGTCAGAGATGATCCGGGTTGACATGCGTGGGGGTAACTAGGCTGATTCCTGGCCATGCCAACAGTTCCTGAGAGCACT
GAGACCCCTGGGGCCTTAAAAGCTCTCTTTGCCATTGCCAGTAGGTGGGTGCTAAGATCTGTCCTACCTGCGTGTTGCTCGCATTTGTGCCTCT
CTTTCTCCCCTGGCCCCTTTCAACCTCTCAGGCTTGGTGGGAATCGGTCCCTTGCAACTGGACCATTGATCTTGTGCAGAACAGATGGACCCTG
GTTCAGCCACGTGCCCCTGGTTTAAAATTCCCACAATACCATGCCCAGGTATTGAAGGAAGGGTCCCATTCATTTTTTCAAGTAAGGGGTCGAG
GAGGTTCCAGCCCTCTCGAGTCAGCATGCAAGGCAGGAAAGTGGCCCTCTGGGAGAAGAGCAGAGGTGATGCTGGGCTGGAGACATATAGAGCC
TCCCTGAGGAGCACAGAGCAGGCCTGTGTTCCACACCCAGGTGCCGTGGCTGTGAGCAGCGATCCTTAGATGTCCACTCTGACCTTGTGGCACC
ACAGGTCATAGAACTCACATCTGATGGAGGTCAGAGGCTCAGGGATAAACTGCCAGGAAACTGGTTTCTCCTTAGCCTGGCATCTCCCCCTTCC
CCACTGCCTATCTGCCTCAGCCTTCCTCAGTCTAGGAGGAGAAGCACAGACTTTGTGAGTGAGCTGTTTTCTGGGATGGGACGGAAGCTCCCTT
TCCGGGACCCTATGAGAAAGTGAGTCTGGACTCTGACCTCCGGAATGGCACAAGATGGCCCTCGGTGCATCTGCACATGCGCAGAGCCTCAAGA
GTACGCGCGCTTCCCAGATAAAGACAGATCTAGGGTTCTCAACTCTAATAGGTCCGTTCAATTGGCAGGAGAGCCACGGAGCTCGCAGTCCTTT
TCAGAAAGCCACAGAGCGTGGCTTCCTCCTGGAAAACCTGCACCAGGACCTTTTATATGAGAAACTGTGCCAGCTGCTGGGGAGGGACAGGCTC
CAGGAGGTGGGGGTGGCTTGCAAGGCCTTTGTAAGGAAGGAAGCGCATGTTTGAGCCCAGTGCCAAGCCTTTTCCTCCGTGCTTCAGGAACATC
AGACTTTCTCCACAGGAGACTGTTCGCTGTGTTGGGGATGAAGCTTGGGTCTTTGGGGATACAGGCAGACATGCTACCACTTAAGCCCCCAAGA
GATAATTTTGAGGTAAATTAAACAGCTGATTACTAGAGGCCTGGAACAGCTTCAGGCCCCCAGCAAGGTGGAGTGACTTTGCCAGTGGAAATCA
AGTCCCCATGAAGGTGCTCTCAGTGAATGTCTGGCAGGCATCGCCAATGTATGTGGTCTCTGGCATTTATGCCCTGGTAATATTTACATGGATA
CAACCTATTTTGTTTTTATTCTATTTTTTATTTGTCTGCCTTCTTACAAAGGTAGAGGAGGTTTGTACATGAAAGACCCAAAGTTCCTACGTGC
AGTCTCTCACAGCTCCCCTGTGCTGCCCTCGGCTTCAGACTTCTGGAAGGCCTCGTGTGTACTCGTGTATCTTAGCTCTTGGGGTCTGAGGGAC
GTCACTAGACCTAGTTTTGCCTGTGCCTATAAACCTGAGTTTGATCATGGGTACAATAGTTGTCTTCATAGGAAGAGTCTTCAGAATTACATGA
TATAAATTAAGTACTGTTGTGGGCTCATGACACATATGTGCACACACAAAGTGCTCACATGCTCATAAACACGTGCTTGCCCATCCAGGCACAC
ATTCATGAAGCAAATGCACAGACTCTAAAATACATGAGTGCTCATACAGTACAAGCACAAATGCAGCACACACACACACCATACACACACAC
ATACACACACACACCATACACACATACACACACTCACACACACTCACACACACCATACACACATACAGACACTCACACACACCATACACACACA
CCATACACACACACACTCACACACACCATACACACACACACACACACACACACACACACATACACGCGAACACACACACACACACACA
CACACACGCCCATGGATGTTCATGAGATAAACCTGTACACTGTTCCCACATAGGTCATATTTATACCAATTCATAAGTGCATACATGTATAAAC
ACATGTATAGTTATACATAAATGGTTGTACACATGTCACATATAGCAGGACATGCACACACACATGCATACCTGTGGCACCCTGAAAGCCAAGG
ATTTTTTTTATTTTCAGACAGAGCTAATCACTAGCATAAATTCTGTGGGTAGCAGATTCCACTGAAGGGCAGTGATAGTAACTCCTTCCTTCTG
TCCTAGGGAGCTATGCCCAGAAGCTCAGCCTCTGCCTGTCTCGTGGGGAAGCCCTGGGGCCTTATGTCCTGCAGCCTGTACTCATTTGCTGCAA
CACAGCCGCTCACACAGTGAGAGCCTAGTAGTCAGCGTGCCCCTCCTGGTTATGCAGAACTGGACAAGCCCTGTCTGTTTGCCATCCTTCCAAG
TGCTCCTGAGTATGGAAAATTGGTTTTGTTATTGGTTTGGTTTGGTTTTGCAGTATATGTTAGGCAAGTTCCCTACCACTGACCCACGCTCCTA
CGGTCAATCTTACCTCTTCATTTTGAAATGTCAGTCTTTTCTTTGAGTTGTCCAAGCTGACCTTGAGCTCACTCTGGAACCCACTGAGCCTTTG
AATGTGTGGCCCTTCTGCCTCAGCCTACCGCGGGCTGCGATTATAGGCCTGCACCACACAGCCTAGTTCTCAGTTTGTGCTTAAACTCTCCTAC
TGAGCATCCATGAGGGGTCCTGCCCTCGATGGTCATTTCTTTCCTACCAGACAGGCACACAGTGCCATTTGGAGTGACAGACAGTTCCACAGCT
GGTAAGGTCTTCATGCTGGTTGTTCTGAGGAGGTCACCCTTACTAACAGCAGCCGCTCCCCAGGGTCTGTGCCTCTGGCTAAGGCTGGTGTGAG
AGCCCCAGTTCACCAGAATGACAGTTGGCTCCTACCCTCTCAGATTGTGGGGCAGGAAGATGGATCAGAATTAGCTCCTGTGGGTACAGTGAGG
CCTCCAGGGCACAGTGGTGAGTTCCCAAGATGCCCCTGTACCCTGCCAGGAGACCAGCACTCTGCAGTCTCTAGGAGAGGGAAATAGAACGTCC
AATAACAGAAGACTTCCCGTGTCTGGGAAGAGATGTCTCCAGGCAGCGGCGTTTGTAATGAAGAATTGGGGCTGAAAACAATCTGAGGTAATGA
GAGTCCAACACAAACTCTTAATTAACCAAGTAGAGGGAATTTAGGTTTAAAAAATAGTGAAACCCACCCTGGGTGCCATCCCCAGCCAGGAGGA
GGGAAAGTGAGACCAATGTGTGAGCCGATTTCTCTTGTCTTCTGGGATATATCACGGGATGCTAATGTTACTCGGGGTCTTAAAAGCAAATTTC
CCTTTAAGTTGATTGTTTCAAGTGTGCATTATGTCTTGGTGGAAGGATGTCACGTGACAATGTCCTTTGCTTAGTAACCAAGTCAGAATGACTC
GCTGAAAGGCAGATGGTTTTCATCAGTTAATTGGCTCTGTTAATTCAGACCTTCCTTCCACTGCGTATGAAGGTGTGCGTGTTGGCCCAACTCC
AGCACTGAATAAATTTGTCCTCCATCAGTCTGCTGGCCTGTCATCTCCCTGTGTAAGTGCTGAGGTGGCACAGGAGCTAAAAACAAACATTTTT
AATGTGCAGGAAACTGGGGGACGCTTACACCTTGCAAGTGGAATAATGTGTTTTGTCTCGTTTAGAGGAAGCAGAGAAGACTTGGGTCTGACAG
GTAACTTTATAAATGTTGTTCTGACAGACACTGTGAGAAGCCAGAGGCAGAAGGTCTGTGCAGGGGGATGTGTGAAGTAGCTTAGATTTCTTTT
CTTAAAGTGAACTTCGTGCCTTAAATAATAGATATTTACCTCCCAGGGTAAGCTTTAAATATTCCTATTTTCACTGAAATGGCATGTTTCTAAT
GGATAAAATTATACCGTATACACCGCCTTCCATGCCTAAGAAGCCTGCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCATAAT
TTGTCTCTGAATTTCTATCTTTATTTTTTTTGTTACATTTCATATTGTAAAACTATTCCAATCTTATATAGACTAGTGGTTTCTGAGTAGATTC
ATCACACTGCAAGAGGCTCCCAGGTGTTGAGGGGTCTGGACCAACCAACCTTAGTTGTTAAACCCTGTTTGCAGTAACTTGTGTGTTCACACAG

CTTTGTAGTCCCTGCAGATTAAGACAGTGTTAGATGTGATCACTGGCCAGAGAGTAGCAGAGGTGGCTTTCTGCGCTGATGGCCTCAGATGGGG
GATTGCAATATTCTTTCAGTCAGCCAGGCCCACAGCAAATGGGGGAGTTTGAGGGGAAATGCCCTGTGCTTTCTGGCTCCACCCACCAGCCTTA
ATCAAGGCTGCTGTTGTCTCAGGATGCCCGGGGACCTGTGGTCAGCAGGCACCCTTTACACTCACACGTGTGCCCTTGGCACAGAGCACACATA
AAAGCTGCACGGGTGAATCTGAAGCGATCTAGCTCATAGATGCTGTGACTATGGTACAAACAGGGAGCAGGTGCCTGGCCCAAGCCCAGAGAGA
AGTCGTTCCATGCTCACTTAGTATACAAAACACACGGGGTGCGTGTCTGTGAGTGCGTGTGTGTAGTCACGTACAACAACACTGCCACCTGCAC
CTGCCCCGCAGACTGTCTCTCTCTCTCACACAGGGATCCTCCTTGATACCCGTACGTGCTCCCAACCCATGATGCTCAGAGTCTCTGCTGGCTG
TGCCCTACTCATCCACGGCTCCTCACAGGACACAAACATTAATTTTAAACATTAATCAGCAGTACCTGTAATGCTGCCCAGAGGCCTGGGGAGG
CAAAGACCTCCTGGAACCACCTACTGATGTCAGGGAGTGGGTTGGCTGCATATTCAGGACACTGTAAGGGCCACCACCCCATCTTTGCAACACA
GATTCTCGTGCGTACAGTTGTGACACCTGCGTGGCGTCAGCCGCGGGGACCACTGGGCTGTTTTGATCAGCCCCTTCATCATACAGTCTGCTGT
GAGCTCTTTATTCCGCACTGCCCTGTCTGGTGTTCTCAGATGTTCTCTGGTGTCTGTCAGCTTTCCTTCTATGTCCAGAAGTGAACGGGGGTAA
GGCTCATCTCCAACCCTTAACTTCCTACCCATCAGGAATGGGCCATCCAACAGGATTATTTCCTGGGAATGCAAATTCAGAGATACAGTCCCTT
TAAGGGAATCAGATGAGAGTCTGCTTCTTTCAATAACAGGGTGTGGAGAGAGAGAGATGTTTCCTGTGGATTGAGCTGTGCTGTGGGTTCTGGA
TAGGCGGGCCCAGGAGTCGCCAGGGCATTCTTACTCTCAAGTCTAAACTTCGTGTCTGTACTGAGGACTCTCTTGGTCTGGGAGGGAGTTTGAG
GGCTCACAGAAAGTTGTCCCAGCTTGCCTCCTGGGCTTTGAATTGGGAAAGGAGAAGGTTTTCGCTGAAGAAAAATGATGGGATCCAGGGTCTG
CCTCAGACAGGCTCTCACTTTTGCCTTCTCAAAGCTGTCAGTGTCTGTCACCTTGTGCCAAGTCGGCAGGAAGAGGACAGAGTTCCTCCCAAGC
CTGTGTGGAGGTCTGCCAACCTCCCCGTGGAAGCGGTCTGCTTTCATCCCAGCCATCAGAGGTGAGCACTGCTCCACCTGGCCCCTTAGCTTAT
TAAGGCAACACAGCCCGGGGCCTCTGCCCCATTAACCTCTGACTAGTGGGGAACACATTTTTCTTGCTGCCGCTCAATGAACTTGAGCATTCGG
GCTGTACCTGTTTGAAGTACAGTCCTGGTCCCCAGCCCTTTCATCTTGAGGTAGGACTGGCACTGACTGTGTGTGTGTGTGCCACATGCT
GGTGGATCACAGGACATAATGAAAGCCGTGAAGTGCCCATGCCTCTCCTAATGAGCAACTGGCATGGATCAGGCCAGAGGCGGTGGCTGAGACC
TTTGCACGAGGGACATGTGAGAGGCCCCGCTGCCTTGTAAAACCCCGATACCCACGGCCCACATCAAAATCCAGCAGTAGCTAATTGCACTGTC
TGATTTTCTGGTCCCCACTTCTAGGTTTCATTGCCTTTTTCCAATGCTTTAAAATGAAAGGCACAATCCCCTACCATCCCGAAAGGCTGGAATT
CCATCGGAGAGACTAGTAGTAATGGCTGGAACCTGGTGTCCTCTGCACTCCTCCCTTTCCGGGTACCTCCCTTCCCCCCCTAAGGATCTGTGGG
GCTATTTCTTGCGGCTGAGGCTCCCTCCCCATTCCCACCACAGACCACCTTCTTTGCTGCAGGACTCTTGAAGAGTGCTTGGTGCTTTCTTATG
GTGCCGTTCACCATCCTCCTTGCTAAAACCAATTACCTAGCAATCCCGCAACTCATCACAGGGCTCTGAGTTCCATGTTCCAGCTCTCCTCCTT
TCTGCCCACCTTCTGGCCAGGCCATTCCTTTGTGGTCGGCATGAGGGGCTGGGGGCTTATCCATTGGCAAAGTGGATGACAGCAATCGGAGAAG
GCTATAATTGTCATCGACTGAGTCCTGGCAGCCACCTGTGTATCCTGGCATCCTACAGTGTATCTCATCCAACCCCGGCTTCCCCCAAGGCATC
AGGGAGCTATGGGGCATTGCAAGCATGGTGCATGAGGTGGGCGGATCTCAGGATTCTAAATAGAATGATGGGGTGGGGGTAGGGCTTCTAGGAG
TGAGGCAGAGGAGGTGGGAAGGGCGGTAGCTACCAGCATGGGGCAGTTTCACTGCGTCTTATCCTGTGGGCTATATACTCTGTCCACAAGATAC
TCTGTGGTAGGGTAAGCGGTGCAACTGGCATTGATAGGACGTCTGTTCACACCTCTTTCTCTTCCTGAAGGAGAGGTACACAGGGCAGTCATGA
AAGGATGGCCTAGACACAGTTGTGTGTGTGTGTGTGTTGCTGTGTTTATGGTAAATGCATCTATGTTACCAATCATGAGTGAGCAACTCTCA
CTCTGCTAACTTGTGCCATAACTGAATGTAAGAAAAATAAGCCTGTCTTTGGGGGACGTGCAGGACTGATGTGGGGAAGCCAGAAAAGCCTTAC
CTCTCCAAATCTGGAGGTGAGGGCGCCATGAGCAGTCCAGCCACCTCCATCTCTCCTTTGCTCACCTGGCTTGGAAGGACATTCCTTTCTCAGA
GGCCAGTCAGAAAGCCCCACAGGTTGGGTGTGGGCTGAGATGCCATGGACCATCAGGCTTGCTAGAGTTTTGTGGTCCTTTCTCAGCAGCTTCT
CCTGGAGAGAAGTGAGCGTATGAGTTCTGCTTTGTCACTGGCACTTGTAGCATGCAAATGGTGTGAAAGCTGCCTTTGTGTGTGTGCACATGTG
TAATATTGTGTGTGTGCACATGTGTAACATTGTATGTGTGACTGTATACTTTTTGTATGTGATGTGTGTACAATATTTTAGGGGAGTGTGTG
CGATGGGGTGCAAGTGTACACATTTGCACATTGCCTCTAGGTGTGCCTGTGAACCCATGTGCACACTACCTGTCTTGTTACACGTGTGCAGAGG
CATGTGTGAGGTGTCTATTTGTACATTGGTGCATATATGCAAACATGTGTCTGTTTGAAAATAGAACTAAGAGTGTTCAGATCCTAATCTATAT
TTTGGGGGCCTTTAGGATAATGAGGCTTTATTTATTTATTCATTCCGATAGTGTCTCATTGAGTAGTCCTGGCTGTCCTGACACTCTGTA
GACCAGGCTGGCCTTGAGCTAAGAGATCTGCCTGCTTCTCCCTCCCAAGAGCTGGTACTAAAGGTGTGCGCTACTATGCCTAGCTGCATTTTAT
ACTTATAATTTCAAGAAGTACTAATATTATATCACATGAAGGTGAAGGTCTGGGCACTGGACACTGGGCACTGGGCACAGTTCTCCTTTTGAGC
CAGTCTGTTGACAAACAGTTGGTTCCCAGGATTTTATGTTCATGGTGCCTACTTACTGCGAGTCTTCTGTTTTCTTGCCAGCTACACGGTTACT
TGGAGAATGAACCTCTCACGCTACAGCTGTTCATTGGGACGGCTGACGACCGCCTGCTGAGGCCCCACGCCTTCTACCAGGTCCACCGGATCAC
GGGGAAGACTGTCTCCACCACCAGCCACGAGATCATCCTGTCCAACACCAAAGTCCTGGAGATCCCGTTGCTTCCAGAAAATAACATGCGAGCC
ATGTAAGCCAAGTGGGGGCTGTGCCCGAGGGGTGGGCTCCTGCTGCTCTGCCCAGCACCCAGTGCTTAGCCCCAGCTCCTAGGCCCCAGGCCCT
GTGGCTCTCTAGAGCCTGAAGAAACTTTACAGATATTTACGATGACAGATTTGCCTCTTTCTGGGTTCTCAGGTGCTGTGTGTTATGGCACCAA
AGGTGTCTCAGTCACACAGCTGTAAACACTGCCCCCAGGGCCCAAATTAAGTTCCTAAACACAATGCCTGTTTACTTCTGAATGCAGCCCCGTT
CATTCAAGGAATAGTTGGAATAAAGTGAAAAGATAGGGCGGGCAACACCTCTGGATTGTTTTCACTCAGAGCTGACTATGCACGCGGCTGACAT
GGCCAGCATGGTGCGCAAAGCCCCTGTGGCACACGATTAACTTAGAAAGGGATTTATTAGATGCTGCCTGCACATCACAGAATATCGAGGTCAT
CCCGTGATTTGAGTGCCCTGTGTTTTGAGTGGAGAAGCTGAGAAAACACGGATTTCCATACTTCCCATGGGAGACACATTGTACTGGACCCATG
GCGAGCACAGACAGTAGCACACATAAGCAGGTCTCCAGGCAGAGGATGAGGCAGCCATGATGAAAGCACACAGACAAACGAGACCCAGATTAGA
CTGGAAGGCCTGATGTCACTCTGCGGTACTCTGTCTCTGAGGTGACTCGAAGCTGAGAGCTGTTTGCAGGAGGGGCTGTAAGGGAGCCTGGGCT
ATGCACGTAAAGACTGCAGTACATGATTGAGTTTGGGGGACAGGTGAAGTGCAGGAGATGAAGTTGGTGCAGGAGATGAGGTTGGTGCAGGGGG
CTGTGCCAAGCTGCACCTTGTGTGTCCTTTGGTAATTTCTTCGTAACTTTAAGCCTTTTAAGTCAATGACCAAAGGGAAAGCATTCTGCGTGTC
TCAGCTTCTCACCAGTCTGAGGGACTCGCCCTCCAGGGCTCCATTGCCTGCCCTTGGGTTTTCTTCCTCAGCTATATAACCCAACTTTCCTAAG
GACAGGATAGAATTAGAGAAAAGCTCTTTTATTATATCAAGATTTTTTTTTTGTAATGTATTGAACCTTTTACCAGACTATAGATTTGAATGAA
ATTATGAAGTAAAATGATTGTGAAACCCTGGAAGAAAAGTTTTACAAATCATAAAAGGTATTAAAGTAAATAAGTGAATAATTTCGGAGCCCTG
AACCACATTGGCTGGAGAGCCGCAGGACACACAGGAGGCACAGCCTTGAAGGCTCTTCCTCTCTGAGCTGCTCTGACACATCTCTGCAGGGTCC
GAGATGTCTGGTCCCAGGAGGAGACTACAGCCTGCAGGGCTACTCAGATGTGTGGGTGCTGTAATCTTTCCCATAGGCATCTCTGCGGGGAGGT
GGGGCTGGGATGCCCAGCAGGAAGGCTGAGTCTTTAGTTCTGGTCCAGCAGACCAGCTGGGCAGAGAGTCAAGCCATGGTCTTTGTTTCCTGCA
GCATCGACTGTGCTGGGATCCTGAAGCTCAGAAACTCTGATATTGAGCTGAGGAAAGGGGAGACAGACATCGGGAGGAAGAACACCAGGGTGAG
GCTGGTCTTCCGAGTTCACATCCCACAGCCCAATGGCCGGACGCTGTCTCTCCAGGTGGCCTCGAACCCTATCGAGTGTTGTAAGTAGCAGACC
ATGCTGTAACTGTTGCACGAACTGTCCCCTCGAAGGTCTGTTTCAGTAGGCTTCCTGGAAGATAGGATCCCTCTCAGGAGACCTGACTTCCACG
TCTGGCTGCGTTACGCATTCCCACACACAGCTGGGTGCTGGTTAGAATCTGACCAACGTACACAGCACTCGTGGCCTTGGCAACTATATTAGTA
AAACGCAAAGCCTGTCATGAAGCAGAGTTATTCTGACTGTATCTTTATTTATTCCCTGCTTATTTTGAGGGAAATTGAGAAGAGGAAGTTTGGA
TTTGCAGCCACCAGACTGGACAAACCCAAACAATTCCTCCTCTTTATCCTTCTCTTCCGATTCTCTTTTCCCCTCCTCTTCTCTCGTTCCTACC
CAGTTCCTCTTCTCCTTTCCCCTCTGCTCTTCTCCGCAGCTTTATCTCCCATATTCTCCTTCTCTTTTATTATCTATCCCCTCCTCCCCAGTTTG
TGTGAATGTGTGTGCATATATGTGCACATGTGGTGTGCATGTATGTGTGTGCATGCGTTCAGGTGTGTATGTGTGCACACATGTGTGCATGCAT
GTGTGTGTGTATGTGTGTTGTATGTCTGTACACGGCTACAGATGGAACTCATCCCTATGCATGTTAAACAAATGCTCTGCCAGAGATCCATATG
GCCTGTATCTGAATTTTGTAACTCACCACGACTGTTCATCTTCCCTGATGGTGCCAAGTTATGCCTTTAATGTGTGAGATGGCAACAGGACATG
GCTAAGGGTTCCTGGTCCTAGAAAGAAGCTGGTATGGATGAAGCTACCACCTTCCTCTGTCCTGCTTAGCTGGTTCCTTGTCACTAGAAACATG
TCAGGGGCCATCCTCTCAGCCCCCTGCACCCTGACGCCCTCCCCAATCTGGGGACTGCATTCATGTGGGGTCATCCAGACCACTGAGGGGACAG
ACAGTCTTGGCTAGCCCTTGCTCCTCATATCCCAGCACTGTCAAACTATGTCCCTTCTCCAGCTATTGTGGCTTCATCTCCTAAGAGACTCTCA
CCATGGGGAGATACACTCACTGGGGCTTTCAGTTCCATGCTGAACTCCTGAGTTCTGCAGGCCACTGTCAATGTCCCCTGGGATGTGCAGCAGG

TCCCCTTGCATCCACTAACTGATCCTTGCTTCCTCTGGAACAAGCTGAGTCTTAGTCACACACACACACACACACACACACACACCACACAC
ACACAAGCTTGTGGCTCTGCCCTCTGTCCCTACCTGTCTCAGTCCCCTGGAGACCTGACTTTCTGAGGCTGAATCCTCTCCCCTGCCCTGGTTT
GTCTGGCTGGAAGGAGTCTGAGGAAACTCATCTGACACAGGTGCCCAGAATGTCACCCCTGCTCCTAGCCTCTGTAGTCCCCCTTGCAGGACCA
CGCTCATGAAGTTGCTGATACCCTACTGGGTCTCTCCCAGCTGCCTGTCAAGCTTTCTGCTTTGCCTCTGCACCCAGGCTCAATCTGTCACTGG
GACTCTTCCTACCCAGCTCTTCCAAGGCCCTTCCTGCCCTTCCAGGCCAGGAGCCAGCATTAGAAGTCAGAGTTGCCTATTGCTGGCAGCTTCT
GAAAAGAGTGTTCCGTTCTTAACGTGGAATCATGTCCTGATGGGTTTGCCTCAATCCTGACACCTACGGTCACTATGGTTTGAGACCCTCTACA
AAGTTCAGGGTTGGCCAGTCCCCAGAGAATCCGAAGAGTTATGTCAAATGGCAGCACCCGGGGCCCAGCACCTGAGCTGCAAGGCATCCTCCAG
GCCGCAAAGACAAGGTTTCACTCACTCTTGCCTCCTCTGACACAGCCCAGCGGTCAGCCCAGGAGCTGCCCCTCGTGGAGAAGCAGAGCACAGA
CAGCTACCCAGTCATCGGCGGGAAGAAGATGGTGCTGTCTGGCCATAACTTTCTGCAAGACTCCAAAGTCATTTTCGTGGAGAAGGCTCCAGGT
ATGTTCTTCAGGCTGGCCCGGATGAGGTCCTGTGCTCAGTGCTGGTGGGAGCTGGCTCCTGGTTGGCAAGATATGGACCCTCCCCCTGCATGAG
TGCGTTTGGTCATAGCATGGGCAATTGTCTGATAGAGGTAGCCGTCAGTCCACAGGGGCTCTGAAGAGCTCATGATCTCATCCCCTTTGAGTTT
TTGTATTGCTGAAAGTCAGGTCAAAGTTCAGCTTTCGGGTGCACAGGGCCAGACTTTTGAAAGTGTGTGTTAGGAAAGCCTATAGGCTGGTGTT
GGAAAACTCCTACTTGCTAGAGTCATCTGCTCACCTGGAGTGGTCATCAGGCCTGGCACCTGTTTTGAGCTCTGCCCAGCCCTTCATTCTGGCT
TTTCCTCTTCCCCCTCCATGAGGGAGAGCACTCCCTTGGCTTCTCCAAGAAGCCAGTCCCTTAAACAAGTGCCAGCTAGTACCACAGTGGATAT
AAGTCTGGACCTGTTGACCTTCTGTATTCACCTCATGCGAGTCACTGGGACCTTCAGTGTCACAGCCGTGTGTGTGTGTGTGTGTGTGTG
TGTGTGTATGTGTGTGTGTGAAAGAGTGTGTGTATCTGAGTGTGTGACTGTGTGTTTGTATTAATGTGTATGAGTGTGTGTGAGTATGTGAGAA
TGTGTGTGTGTATGTATGTATGTATGTATGTGAGTGTGTATGTGTGTGAATGTGCATGAATGTATGAATGTGTGTGTGTGTGTGTATGAATGAC
TGTGTATGAGTGTGTGTGAATGTATGTGTATGAGTGTGTGTATATGTGTGTGTGAGATCTCCATCTCCACAGACACCCCCCCATACCCCACA
AAGATCTCCATGAGAAGACAGAGCATGGCACTGCCATGCTCAACTGTAGCTTCCTGCTCACAGTAGCCCACAATGAAACTGTCTCATGGTTTGC
AGATGCCAGGGGTGAGCTTAGAAGGGCCGGTGTCCTGAAGAGCTGTACATTTTCTTTACACCTACGGCCATTGTGTCTGCATGCCATTGGGGGC
CAGGAGTGTGGCCCCAGGTCACTTCAGTTAGACATTGGTCCTGGCTGCTCTTCCTTTCTGGCTCCAACTTGGTAGAGCTGTACTGACCAGAGAG
GCTTTTGGGCTCCAGAACACAGGGAAGGCTGAGCAACAGCCGCTTCGGTGGCTGTGGGCAGGCGTGCACTGACCCGGAAGATGCCTGCCCTCAG
CTGCAGTAACTCCTCTACAAAGGGTGTATGGAGTTTGGAATTTTGGACTCAGGCCTTCTTCCAGATGGGGATTTTTTTGGGGGGTGCCATACCC
TATCCACAAGGGTATTGGGGTAGCATCTACTCCAAGCTAGTGAGCTGGAGGCTTTGCCTGCTTTTCGTTCTTACCAGCTGGCCTTTTCTCGGAG
GTGGTCAGTCCACACTTAGCCTAATCATTGCGGAGTGCCGAGGCATTCAGTGGCCTCCATAGTGGGGTCTTGATTTTGTACCATTCACAGGAAA
CATAAGCACTTCAATCAACACAGGCTTTGACATTTAACTCGGCCTGCCTCCGTAATCATGCATGTAATTGGAAAATATGTTGTAAATTATAAAG
AAAGCCCAACTAAGTGCAGTGATAAAGAGAGCAGTGCCCACACCCTTCTCCGGGGAGGTAAATTCTGAAGTCATTTGACCTTCTGAGCCTCAGG
CCTGCCTCCCTGTCAGCCAAGGAGCACTAGACATAACTAAGGCTCCGCACTCTGCACTGTAAGATCCCTGTACTCCAATGAGGGAGCCCCAGGC
AGGATCCAGATAGCTTCCCTATCTGTTTATGGTTTGTTCAAGATGGGAAGACCTACAGAAGTGCCTGCCCCACAAGGGAATTGGCCACAGCTGT
AAACTTGGTAGCTCGCACCTGCCGCAGCTGGGTCTGAGCCTGGGAACAGTGGCAAAATGCATCTTCCGGACTACGGAGTGAGCAGCCCACTGCT
GACCACAAGCCCCTGCCTTACTCTGCTGGAAGCCCCATCTTGCCTTCATTGGATTATTCCTACCATAAAGCTAAGCTCCTGAGGCTGCAGAATG
GGTCCCTGACCTACGTTCACAGGTTACAAGTGATGTCTATACGTAAGGCCTGTAATAAATGAATAACAGATAGACAGCACTGAGCGCTTTGAAA
TGTGAGAACTCCACGGTTCTGTGTCTAGACAACAATGTTTCGGGGTGTTTTTTTTATATATACATATAATTAGATTATTTGCATATGTGCTCAG
GTGTGTGCATGCAAATGATATTTTTCTGAAGGAAGGAAACCAATATCTGCATGAGTCTTCCTTTGCCTTTGGTTTTCTAAGCAAATATCGTCCC
TGACCTACCACACTGTGTGAGTCGGGACGAGCTTTTTCTAGTTGTTTCTTTCTGGCAAGCCAGAAAGCTCAATCTGAATTGCAAGCACAACCGG
ACCCTCAGTTTCTGATAGCGTGCCTGGTCCAAGTTCCATTTTTAAGCTGTTGGTTACAGAAGCCAAACATTTGGATGAGAGGAGAAACAGATGT
GTGGAAGCTGTGGTCTGGGCATGTGGGGCTGGCCTTTCTGGAAGGGGCCATCCCTATGGCTCTGACTGTTGTGGACATTGTTGAGTCAGGCACT
CAGGACTAGAGCCAGGGGTTTGGCTCCAATGTATCTTCCCTGTGTAATGCAGAATATCTGAGTCACAGGTACACTGTGGACCATCATCCAGTGC
TCCGGGTCACAATGTGCAATGACTCAAAGGGTCCTCTGCATCTGTTGTCAAAGAGTTTCCCTGCCAGGAGGGCTGTGGGAGTGGTTGCCGCTCT
GCTAGAGTGGCTTGGGTAGGCACGGGTAGCAGAGCCAGAAGTTAGCTCCTACACTCTACACACTGCACCCTGCCATTTCACCGAGCAGCTGAGG
AAAGTCACTGCAATGGCTTGCAGAGCTAGCTCCTCCCTGGGTCATCAACTAATGATCTCCAGGTGGGGGTGAGGGTGGTGCCACAGGGCATCAA
GCAGCATGGCCCTGGCTTATGCATAATGGTGAGGTTAGGACTTTTCTCTGGCCTCTTCCTCCTCCTGTCAGGAGTATCCATTGAGGACTGGCTG
GAATGAGACTGTCTTTCAGGGGATGAAGGTCAAAAAGAAGTGCAGCCCTGAGCATCAGGGAACACTGACTGATAACAGACATCCTTGGAGAATA
TTTTTTCCAGGAAGCAGAGGTAGTCAGTGAGGTCTGAGGGTACTCGCCACACAGGGCCACACGTCCCGTCAGATGCTCTGGCGGCGTTTTGGCC
TATCCACTCCAAGTGCCGCAGGCGTCTGGCATGGAAGATGACAGGTCAGCTCTCCCCAACACCCCCACTCCCCACCTCAAGTATGGCTTCATCT
TCAGCTCTGCAGGCTCGATGGCGTGTTTGTATGTGAGTGAGAGCACGTCGGTGTCTGAGCAGTGGGATCAGTTATCCTCCTGAGCTCAGCTCCG
TCTTCTTTGGAGACTGACCCAAGGTGAATGAAGAATAGAGGACACTGGTTTCTAAGGGAACGCCCAGCTCTACATGTTGGCATTGCAGGTAGCT
CTGTTTGAAAGAGTATTGAGGCCTATTTGGGTGTCTGTTACTGCAGTGAAGCCAAAACCGAGGTGCCCCAAACCCCAGTACGGACAGGTGACAC
CCGACCCTCCTTCCTTCATCTTCTACACTTGCTCTGCAGTCACAATGCTCTCTGGTGTCCTGCGTCAAGTCTGCCCTCAAAACACAGACCTGCT
GTGCTTTGCTACCCACAGATCTGCTTTCCTAGCTGGCCCTTCCTCCCTCCCTTCCTCCCTTCCCTCTCCTTGGGAAGGGACACAGGAGTGGATG
GGTGGGTATTGGGGCATACAAGCAGAAGGTGGCAGAGTTTGTGAAGCAAAGGCGTCACTGGGCATAGGAAGGCAAGAGTGGCCGGTGGATCCCT
CTGACCTCAGGCAGGTGCATAGATGGAGCTCTCACGCCTTTACTCTCTGACTTTCCTTGTACTTGAAGAGTGGGGCAGATTGAACACTCTCGGA
AATGGGCTGCCATGGCAGCGAGAGAGAAGGTCTCAGGGTCAAAGGGCAGCCTCAGTCAGGTCTCAGGGCAGAAGAGCAGCTGAGGAGCCTCCTG
ACTATGACCGTGTGTAGCAGGAAGTGCTCTCTCAACCTAGCTAAGGGGTCAGGGAGACACCTGTCTGATATGGAGGGTGGGGCACAGACACTTC
ATTGTCGGTGTGTCTCTGGGGACACAGCTGGTCCCAGAGCTTGCCAGAGGAGAAGGTGCTAAGCTGTGGAGGAGGGACCTCTGGACAGCAGAAG
ACAGCAGGGCTGAGAGGGTTGGGGACCTAGACTCTACGTGCGGCATGTACTCGGGGTCTCCCTAGGCTTTCAGCCTGTTTGTTAATTGTTAGGA
GTTTCAAGGGACCCCTGCATGGTAGCACTTGCCCCTGACAAGAGCATAGCATAGGATAGCATAGCATAGGATAGCATAGCATAGGATAGCATAG
CATAGCATAGCATAGCATAGCATAGCATAGCATAGGATAGCATAGCATAGGATAGCATAGCATAGCATAGCATAGAATAGCATAGCATAGCATA
GCATAGCATAGCATAGCATAGCATAGCATATCCGGGAACCCTGGGTCTCCAGCCAAGTGCAGTATAGCTGACAGGTCTTTGCTCATTTC
TGCTTTTGTTGTTTGTTTGTTTTATTTTGTTTTTGAAGTGTGAGCCTATTCATGAGCACAGGCTTCAGGGCATACTGTCCCAGGACTAGGAAGC
AGTCTACAGAGAGATCAATAGCTTCAAGCAGCTTGGGTGGGGGCGCAGGTGGAGGTATTGTACAGAGTTGTATCCCTGCATGGGGCATGTGTAT
TGTGTGTGTGTGTGTGTGTGTGTGTGTCTCAGTGTGTTTATGTATAACTGAGCATAGGTGAATGTGTATGTATGTCAATGTGTCATGAGG
TATGCATCTATCAATGTATGGGCGCATGTGCCTGTTTGCATATTAATATGTGCTTATGTGATGTGACCAAGTAATCCACTGGCCCTTTGTAGAA
TGTCCCTGCCCCTTGCAGTGCTGAGCAGGGGCACCTCAAGTTTCCCGAAATTCCACCATGTGGCCGCTACAGTTAGAGACAACCAACTTTACCT
CCCGTGGGGACAGGAGTGAGATCCCCACAGTGTCCTATTGGTGGTCAGTCTCCTGCCTTGGATAATCTATGTGCCTTGGGCCATGTATACACAG
AAGCATCTTCTCAGCTACGTCCTCAAGAACTTGTGAAGTCCCCAGATGCAGCTGCCTCAGGCTCTATAACCCAACGTGTCTCGGGGTCAGCTGT
AGGAGCACACATGCCCTGAAGTCACAACCAGCTGTAGGAAAATGCTTTCTTTCAATTCCCTGGCCATGGTCTGGGGTGGGCCAGAAACGGACAG
TGTCTGCTCCCAGGCTCTGTACGCCATCAGCCCTGCGCACACATGCTAGTTTTCATCACGGGCATAAAAATACCACCGTGCTGACCTGGTCAGG
CGAGGTTCCATGTGGCTACCATGCACCCTCACTCAGCAAGATTTGGGGAGAGCACACCCTTGAAGTTCCACTTACAGACGTGCCCAGCTCTGCA
TGGTTCAGAAATCACTGACCCAGTGAGAGACATAAGCTGGGGACCGGACCCATAATCCCTTTTGCAGAAGGCATTTCTTCAAGTCTTAGAAGGA
AATAAATTTGGAAAGGCAGTGAGAGACCCACCCTGGGCATTCAGAAAGTAGACTTGGCCTGAAGGCCTGCAAGGTAGGAGAGGCCTGCCTCGGA
TCCGGGTGCTGGCAGGCTGAGTCTTGCTGTGAGCTTCACGAGCAGCTAAACTCACCATCTCAAGATGGAAGCCACACAGGGTCCCTACAAAGGA
GCAGCTGGTCCTTGCCAGTCTGGTTCCTCTTCTTCCTAGAGTGTCTCAGGATGACATTCGACAGTCGCAGTCACAATCCCTTGGATGGCACCTT

TCTGCCTATTTCCTGAAGTGTATTCACAGATTTCTCACAGGGTGCAGTTCTAGCGGCTTTGCGACTGTTTGGTCTGTGCCCAGGATACTTTGAT
CTCCATGAAAGAAGTCCCTTTTCCACAAGCACTGGCACAGTGAAGGTGTGGCTGGGTGTGGCCCTGAGGTTCCAGTACTGGAAGTACTCATCAG
AGTGGCCATGTGGGAGATGCTGGGGCTTTCTGGGTGGAGTCTAGGGAGAAGGGTGAGGTAGGTGTGTGTATGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTGTGTGTGTGTGTGAGAGAGAGAGAGAGAGAGAGGGGGGGGGTGAGGAGGGAAGGAAAGGGGGGCAGGTCACTCTGCAAGAGAC
CAGAGTGCTCCTTAGCTGAGCGACCTGTTGTGAAGGGCAAGCCTGGCCCTCCGCCCTCTGGCATCCTGCCTAACGGTGGAGGCTTTTCCACATA
CTCCTACCACACGGTGCCATTGCTACCAAGCCCCCCTCCTCCCCAGGGACAGAGTGGTTGCTGAATCATGCCCTGCTTCGGGCATTCTATTTTA
GCCACAAAGAGCAAGAGAAGCCGTCAGCTCTTCCCTTCCTCACCCAGATGCCCACTGTCGCCTCTCCGAACCTTGTGGATTTCCCTCCTTGGGA
TACTATTTGTCGGTAGAGGCAGACAGTGTCTGTGCTTTGCTCTCTGGTGCCTTTCACAAAATGGCATTTTAATCCCTGTTAGTCGATGCCAGTG
CTGTTCATTTCTGTGACTGACCAGTACCCCCATGTGGCCAGGGCAGATGGGCATGGGTTGTTCTGTTCTCTGTGACTATCATGAATGAAGGTGT
TGTGGATGTTCATAGACAAGGTTCTATGCATGCCCGTGTCTTCCTCCTGGCACGTCCCTGGCTGTGAATCTGTCCTCAGCTATGCAGTGCCACC
AGGCTGTTTCCCAAAATGCTGGGGGTATGGATGGCGGGGGGGGGGTCTTGTTTTACCTTGGGGTTCTTCTGAGGGGTGCAAAGCTGCCCTCCTA
ACCTGGGAGAAGCAGGCCTCCAGGGCACCACATGCACACCAGGCTGGCGACCCTCAGAGCCCCTCTGCAGTCCAGCCCTGCAGAGCCTGTGTTC
ATCTAGCCCCGTAACACAGCCATCCCAGTGCCTCACACTGATGGGGTGTCTGGACCTGCCCCTCCCTTGAGGCTGATGGGATGCAGACTCAGGG
CTAGAAGGAGGAAGCCTCCTGCTCCACCCCTAGGAGGGGGCGAAGCACATCTCAGAGGCTTCTCCACTCCTGAATAAACTCCAGCTGCTTCCAC
GTGTGGAAACAGTGGCTCAGCCCCTACCCTGGCGTGTGACTGGCCTGTGGGCCTGTGGTGGCAGCGGCGTCCTGCAGCCAGTGGAGCGGCTTCA
GACCTGCAGGCTGGCTGTGTGGAAACCTTGGGCGGGTGTGGTGGGGAAGCCTTTCTGATGACTCACACTGCAGGGAATTCCCTAATGATTTGGA
ATATTTTTACTTCTGAACTGGAGCACAGTTTCCTACTGGGAGCGTAGGGAGCTCCTGATAAGATGGGACACAAAGGCCCTTTTAGGATGGCCGG
CTGGCTCCCTGCCTGGGAGAGGCTGAGTTCTGAACAGCACTTGGTTAACTGGCCTCTGAGCAGGGAGGAGGGGGGTCTGAACTGAGGAGTCTGT
GGACGCATCCAATGGTCTAGGGCCCCCCTCATGGCCGATACCTGATGATTCCCTCAGGAGTATGAAGGACTATCTCCACGTAATTTGCCCCCCA
CCACCCCATCCCCCGTCTCCTGCCAGAAGCAACCTGCTAGGTGTACAGTCAGAAGTCCATTCAGCCACCGTCAGAGCGAGAAGAGTGCAGCAGA
GTCACTGTTTCGTCTATTTGACAACTGCAGCTGGAGGACCTGGGTCTGGATGGGACCAGTGCTTTGAATGCCTGGCCTGGGATAAGCACAGACC
TTGGAGACCCCAAGGGACCATATTTTCAATGGGAAACAGAAGCCGATGGGTGATCTGTCTTGGTGCAATTTAGAAGACAGGAATGGAGTTCTGT
CTTGTCTGGTAGTGGTTGGCATGGGAATGCTGGATTGGAGCTGGCCAGTCTTGGCTTGGTAAGGCACAGTGGCCCCTTCTCAGCCACTCTGCTG
GGACAGGGGAACAATCCGTCACAGGCAGCACCTTCTCCCCATGGTTCTGAGCCTTGGCAGGAACTTTTGGGATGACGGGGGCCACACTACAGTT
GGCACACCTATGTACAGGCAAAGAAACTGTAGATTCTCAGGGACGAGAGGCAGAGAGCTGCCTCTCCCTTGTGGAGGGCAAATCTAACACAGCA
TGCAGCCTGACTACAGACCCAGAGCACGGTTAAAGAACCGCATGTGGGTACTTCCAGTTTGACCCTTGTGGCTATAGGTGGCCCATGTGGCTGA
GGTTGAGGGTGCTTCTCGGCTGTCATCCCTGAGCTACCAGAGCCTAGGGGTTCACTGTTTCTGACATTCCGGTGCTCTAGGGGTATCTTGTTGT
TTTCCCTGAGGGGTAAGGATAGGAATGCAGTTAGACCCCCTTCATGGGCTCACCTGATGGCATTTGCTCAAGGCCTGGGGTATCTGGGGAGCTG
GTGTGGCCTGGTGAGGCTAGGTGGCTCTTGGAGCCTCTGGTGACTCACATTTCCACCCCGTGCCTCCACCCTCCGCCCACCACCCTGTCCAGTG
CTGAGGGAAGGAGCTGGTGTTTGATTTATCAGTAATGTAGGGTTAGTGACAGACAAATGGGGTGTAAGCAGAAACTGAGCGTGTGCCTAAAGCG
GCTCATCTCAGGAACTGACTTCATTTTGGAGGAGATAAAGGCCAGGATGGATAGCCGTCAACTCAGTGGCCACCCAGTTGTCCCCAGGTCATGA
GCCTGTCACCAGGACTGGGGACTCAGAGCCTGTGAGTGGCAGACACCCTTCCTCTAATCACTAGGTCCACACCTCATCGCCAGCTGAGAACAAT
ACGTTCTTTCACTGTGCCTATGAGAGCCTTTTAATATTTTTTTTTAACATGCAAACAGCCACTGGGCTAAGGTTAAAAATACCACGTGTTTTGC
ATTTCTAGGTCCTGATGTGGCATGAAATAGCCAAAGAAAGGCTTCTCTTATCTCCTCGGTGCTTCCTCTGGGCAGAGGCTGGGACTTTGCCCTG
GCTTCCCCCAAAACACATAGGAGGCTGGTGCGACTTACCAAGTGGCAGAGCCAGGCTGCGCTCAAAGCACAGTACATGTTGTGCATTGCTGGGT
TATATTTTGGGGGTGCATGTTGTGGATTGTTGTTTTTAGGGGGTGGGGTCGCCCTGCCTCTCTCTGCTTTTCTGTCCCTTGGGAGAGACTAAGG
TGTAGGAAACCTTCCCTGATGTGTGTTGTGGCAGACAAGATGAATATAAACCTGGACACAGGGTGGACCATTAGAAACACTCTTGATTATGTGG
GCCCCTCCTAAGAATATACACTGGGCATCGTCTTTGAACTCACCAAGTACACAGGGCCAGTACTCTAGAGCAGGTCAGCAATGCCATCCAGTG
TAGGCGGAATATCTAGGGGACACAGAGCACTGCCCTATGACCTCACCGTTTCTTCCCACTCTCCCCTCCATGACCCTTGATTTCTGGGTCACCT
GGAACATTTTAAAGATATACTATCCCCCAAACAGAGTGACAGATTTCTTCCTGCCCTTTGTTCCAGATGGCCACCACGTCTGGGAGATGGAAGC
AAAGACTGACCGGGACCTGTGCAAGCCAGTAAGTACTTAGAATCCTGCAGCAGGGACGAGGGAACCAGACGGGGGCTCCTGTTTGTTAAAATAA
AACAGTGCTTAAAAAAAAAAAAAAAGACAGAGGCATTGCCCAAATCCCTTGGCCAAATGAGAGCCACTAGAATAGAATGGAGGCAGTAAGGAGGG
GCAGGAGGAGAGAGGCTGGAGAGAGCTTGAGGCCTCTTTATTCTGGGTGTGCTTTGCTTTTTAAAGGTTCCAGGTTCTGTCTCCTCTCACTAAT
GGTGTAGCCCCAATTGAGTGGCTACCCCCCGGGAGATCTTGGTGTTCTAAGCCTCATTCATGGGCACCCAGCACCTGCCTGGACATGCCACCCA
GCCTGTGTGACTTGCCACCACCCTCTCCAGAGAACGCCTCAGCTACCTCGCGCTCTTGTTTTGAACTTGGCGTGGACGAAAGGGCTGACCGAAC
TGGATAGCTTAGCTCAGCTGGTTGGGTTTGCTGAGGAGCGGTGGTGAATGTGTGACATCGTCTGTGGGTGACATAATTAGTCTGTCTCCCTCCC
GCGTACATACGCACCTGCTCGTGTTCCCTCTTCACCATCATGTGAGGTCATTATTGGTTGTGATTGGCTGATCTTGTCTCATATACTTGTGCTG
GCTATGTCTGCGGCTGTGACATGTTTCTGACTGTTGGTGTGGTCTTGTCATCTAAAGTGGCTGCTATTGGAGACCTCGTGGAGTCAGGGTCCTC
TTTGCTGACTGCAGTCTGTCTTCGCCATCCCTACGGTTTCCTCCCTTGCTTGCTCGGCTTTTGCAGTACTGGAAGTTGAACTAAGGACCACGCA
TACCAGGCAAATGCTCTACCATTGAGCTATAATCCCTACCTCAACAGTGTCTTTTAATTGGACATTAAGCTGTGGATGGCTAAACAAATTAGAG
TACTGTCGCTGAGTCCTGTGCGAATTCAGTCTAGTCTCAGAAGAGCATAACAAAATGCAGTGAGTAGGTTTTTGAAGACACCCAAACCCTCCCT
AACTCTGTAGCTCATTGCACAGACTTCGTCACAATAGTCTGGGCAGCGTGCTTGTGACCACAGGGCATGAGGAGCCTTTGGTGCGCTCCCAGTG
TATGGAAGTGGGATTTAAATGAATGAGAGAGCTTTTTTTGGTTTTGTTTTGTTGTGTTGTGTTTTTGCTTGTTTGTTTGTTTTGGTTTTTCG
AGACAGGGTTTCTCTGTATAGCCATGGCTGTCCTGGAACTCACTCTGTAGACCAGGCTGGCCTCGAACTCAGAAATCTGCCTGCCTCTGCCTTG
GGCATATGAGAAAAGGACTTTTTCTATGAACACTGGGCAGGCAGCAAGAATCACATAAATGGGGCATGCTGGTAATGGGGTCCACAGAGTGGAC
AGGCAGTCATGGCTCCCGTCAGCAGAGCAGTCACCAGGGTGTCTGCTTCAGTTGCAGCAGGCACAGGCTGCCTCCTTGTCTTCTAGCTGAGTCA
ATGAGGATGGGGGAAAAGAAATCCTTTCCTGCTTAGGTTCCTCTCAGGCACTGAGCCACTCTCAAGAAACCTTTCCAAGTACTTCTCAGAGGAA
AGGTCCTCTCTGGCCAGTGATACTGTTCATGTAGATGAAATCTTAAACATTCACTCACAGTACCCGGCTCCCTCCCTCCCACTGAAGAGATCCT
TCTCTGCCTCAGTCTTGTCTCTTGACTTCATCCAAGTTGTCCTTAAGGAAATATTGAAGGCAGTGGCACATACACATGTACATGCGCACGCGCA
CGCACACACACACACACACACACACACACACACACGGAAACATACCTGCACACACATTGCATTTATAGATATTTTAAAGATGGGTTTCTGCTCT
GTATGTGGTTATGCATCGCCCCCACTCAAGACGGTGGGTTTCCTCAGGCCTGTGCTGGCTGCAGCCTTTACAGTCTCTGACAACACTGAGAAAC
TCCCAACACTTGATCTCAGGGCCCACTTCCTCCAGCTTCCTTCCTGGTTTTGAGAGCAGAGCTCCTGGGGAAGGAAGAGGCAAGCTTGTAATAG
GATCTGTCTGTGCATAGTGTTGAAGTGCGTTGACTTGTGTCCGTATCAAGATGTGACCCTCTTTGGTCATTTGGGATAAGCAAACAAGCCAGGG
ATAGCCTATCCCTTTGGTCCTTTCTGCGTTCCTTCCACGGACCTCAGATATAGAGACCACCATGGGGTAGCCTCTTTCCCTTCACCTGACTGAA
CTCCAACGTCACAGCCAGGCCACTTAAAGCTGGGCACAACCCAGGCCTGAGTGGCCACAGTTTGGGGCTGCTTCCTGCAAAGGTGGGCATGTAG
CATAGGCACCCTTTACCCGCCCCTCCCCCACCCATCTCTTCCAAAGGAAGTGAAGGTAGATGACACAGCTTCCTCAGGTTGATGGAGCCCAAGG
GGATGGAGCCCAGAGGGGACCCTAGCCAGTCCTGCCCTGGGGCTGGCATCCAAGGGCTGTCAGTGCCAGGTTCTCTCTCTGATAAAAAGAGGCT
GGGGCTGAAGTTCTTCTGGTTTCTGTTTCTAACGCTGAGGTTTTATTATTAACATAACTCAATAAAGTTTGCTGCCATCGATTTACTACCATTA
TAACAAGCTACGTATGGTTAATTACTTTAACAAAAGAAATGGTACCATGGATTTTTCTGACACATTTCCCCTGGCCTGTTAGACTAAAACCACA
CGAGGAAAGAAACGGAATGAAGAAACTTATGGATCTGAAATCCCCAGCAGAAATCAGGTGTAGCACTCAGAAGTACTGACCTCCCTCCCTCCCT
CCAGGCAGCTGCACCATGGGGCCCGGCACCCCCAGGACTATCTCCCCCCCCAACTTGGGTGTTCCCACTCAGTTCCAAGTATTCATGGCTTGCA
TTCTTGTTTGCCCTTGAAAGAACGTGTAACAAACAAAACAAAAAAAGAAAAAAAAACTTGCATATTTCTGTTTAAAAACAGGAAAGAAAACAGC
AGCCACCTCGGTGTTCTCAACTGTTCCAAGGCCCTGGGCTGAGCTCTGCTCTGCCTTCATTATGAGGAAATTAAGGATTCTGATGGAACTCCGT

GACCATTGTCACAGTGCCACTCTGGACAATGTCCATAAGGAATTCCACCATGTGTAACCACAAAGTGCCTGCTATAAGTAGGCAGAATGCAGCC
TTTTGTCTAAAGGTCACTGGGCCTTAGATACTGGGGCAGGAGTAGGCCTTGAAGTCAGCTGTACCAGTAGCATCGAGGCAGCTCTGCTCTCTGA
GAGATGCCCATAAGGGTGTCTCTTCTTGCATTAGTTCAACCACAAGGGTCTCCCAGCCTCTAGCTATGTGAGAAATGAGGGTGCCGCTTCCCTG
AGGAGCCGGTGCACGCTACCTCCGGCCAATTCACAATCAAAACACGTGAGTAGGTCACACACAAGAGTCACCATCAGAGGCCCTCTCAGTGGCC
ATAGACAGCCGTTTGAGTGGACAGTGATGTCTGGACAAAGCGTTCCTGGTCTGTAAGGTCCTGACTGTTCCCTCTTTGCTGTTTTACCACCAGA
ATTCCCTGGTGGTTGAGATACCACCTTTCCGCAACCAGAGGATAACCAGCCCCGTCCAAGTCAGTTTCTATGTCTGCAACGGGAAACGGAAGAG
AAGCCAGTACCAGCGTTTCACGTACCTTCCTGCCAATGGTAACTCTGTCTTTCTAAACCTTAAGCTCTGAGAGTGAGCTGAGAGGAGGTTTTTAC
TGAGCAGCCCCCCGAGGCTATAAGAGGATGTTGTTGTAAACAAAACAAAACAAAACAAAACATACCTGTAGCCTCTTCACACCACGTGATAGCC
CTATTCACAAGACCAAGTCGCCCACCCCCTCAAAGAAAAGCGAAGCCTGGGTGTGTTTTCCTGTGACTGGTGCATGCTGGGGTCATCACTTGCT
CGCCTTTTGCAAATACAGCAGCGCGGCCAACCAAGCAGCTCTGCTGCGCTCAGGGGCTGATGCGGTCTGGGGGTGTATATCTAACCTCTGTGAG
TCTTTGGGTTAGAAGAAAGTATTTGTCAACGCAGTTTTGTAAGTAGCTTCGAAAATAAGCCTGCCGTGGTCACTGGGGAACATACATGATGTTG
TCCTCATGGTGACGCTTCTACACAGCGTGCGGTGTGTCTCCACTGAATAATGCTGTCCCCTGGTGACGTGAGACTTTCAGATGGAAGCTCTTCT
GCTCGAGTTTACTCATTTAGGGAATGGCTTCTTTCATTCAGAAGTGATCGGCTCGCCTTTTCAACTTTCTAGGGTGTTTTATTTACGAAAATAC
CGTTTTTAACTGCTCCCCACCCCGAAAGCTTCTAGAAAGGTGTGTCCCAGGCGTCCAGGGTTTCCTGTGTGGTGCAGGCCATTCTCCTGCAGCA
GGATGTATAAACAGAGAGCAGAGTCGGTTGTTATCCTGAGTTCTATTGTATTTTGAGTAAGCTAGGCTATGTCAACAACCTTTTTAAATTGCTA
CTTTTTTTTTCCTCTAAAAACTTAAGATAGTCATGTAATTTAAGAGGGAAGTTATACAATAAATACTAGCCATGAAAGCAGCCATATTGCTATC
TTAGTAAAATCAAGGTGGTTTTGTTGTTGTTGTTTTGTTTTGTTTTTTGTTTTTTAAGGTTTCAAGGTTTTTTGTTTTTGAAGTGTAAAGGCAT
TTGGAACAGTTTAGACAGTACGAAAAGTTGGTATTAAAATTCTGAAACCAATTGTCTTATCAGGAAACCCCTAGAAATGCCCTTTAAAAATGAG
GACAATAGCTTTGTTGCATTCTCAAACAAGGACATCAGTGAAAGGGCAGCAACTGTCTGTGCTGTGGGTGACCCCAGAACAGCGGCCCATCCCC
CATCCCGTCTCTGCTCTTCAGATTATTTCACAGGCCTCTTCCTTTCGGGAAATAATGCACACTCTCTCTTACAAAAAAACCAAACATTTGGTCT
TTTATTTTATTTTATTTTATTTTTGAAAGTGCAATGATTGTGTCCTACCTATACTTCAAGCATGGTTGATCTAAGATTTTTGAAAGGTCTAAA
CGTTATAAAGAAAAAAAAACATTTTCTAAAACAATGTGGAAGCATCGTAAAGATTAACTTCCCCTTGTTCAATGCACATTTGAGTCCGTGATGA
AGGTTTCATAGGGTGCTCAGTATTCGTAAAGAGCACCGTGTCAGAGGGGTCTGCGGAGCAGGCGTCCCGTGAGGCCCCAGGCTCTGGTGGCTGA
GTGTACCTCTGCCTCCCATGCTGCCCTCCCTTGGTGATGCAGTATCCAAGCATGCCAGCGGCTCCACAGTCATTTGCTCTGCACCAGTCTGCCT
CCCACAGTCCACATAGCCTCCTGCTGGAAACTCCCAGCTGCAAACCATCCTTATGTGGCTCAGGTCTTCCTTCCTCGGCCCTTCTGGCTTCACC
CATTTGCTCCAGACCCCTCTTCAGCCCTTTCATCCTGCTTCCCTGACTCTCGTCCCCCCAACTCCAAGATGGCTGCCCACCACCATTGTGGTCT
CGGGGACCAACCGTATTTCCACACCATTAGACTGTGAGCTCCTTCAGAGAGACCTTGGCCACAGTAGGGTTGAATGCTAGCATTACTCATTGCC
TGATTCCTGGCTGGCTACCGACATGTGTTGTTGTTGTTGTTTAAATAAATAAACACACAGATGGAGAACCCCAGCTCCTGTGTTCCGTGTT
CTGTCTGGTGCTCCCCTTCCGTGCTCCGTGGCATCTGTTGCTCTGGGGTGTATCTCTGAGAACACCGATGCTAATGAATGGATGCCTGTGTTCA
TAGCTCCCCTGGTCTCAGATTGCTGCATTTGAATCCTAGAAACTCTCCAGGGCACATGAGTGGCTCTTAATTAACCTGACTCCATGATCCTTCA
GTTTTTCTCCTTGGACACTGGCTGTGAAGTTCCGAGCCTCCCCTTGAGCCTTTCTGTATTATTAAGTGAGTTTCATGTATACTAGTATTTCACG
TATCTGTGACCAATACGGACACAGGTTCTTATGGTCATCAAATATGCTGTGTTTGAGAAAGTAGGAATAAATCCTTTTAAACCCTCCCTGTGAA
ATTCATTTTTATCTGTAGATATACAAAATCGAGACTCATTTAGTTTTCCTTCAGACTTAGGTGTGAGGATGTCTCAAGGGCGCTGCATCAGATT
CCTCCTCTCCCTTACCCTTGTGAAAGGGCCCCCACTCTTGCACAAAACCGCCCCTTGTCCCAGGCCCTTTGAGATTCAGGGGGTTGGAAGTCAA
AGTGTCCAAGGTATTTTGCTGAGTATAAGGCAGGGGGATGCCAGCTTTGTGCGTTCCTTTGTCACCTTCGCTGTCTCCTGATACCTCTACAGCA
GATTAGCTCACCTGGTTGACACCCACCCGGGGCCATCCTCCTTTCTTATTCTCAGTTAACTGTGACAGCAATCAGGTGGCAAGAAAATAGAGCA
AGTGACTGGGACCCTTGGGTTCTGGGTGGGGTGGGGGGGGTACTGAAGTCTTTGGTGTGTGGTCTGTGATGACCCTGGAAGGGTAGCTTGGCCT
CCTTCCCTCCTACTCGTGTGTGCCTAACAGGGAAAGTCTCCACTTAAAGGAAACTCCTGGGCTTCCCGAGACTCTTGTCTGCCACTAACTTAGC
TTTACTCCCTGAAAGGAGACTGTACTATCTTCTTCACTGAGCTGTGGGGGCTGGGCAGCACACCTTAAAGCCAGTGCTTCTGTACAGTGAGGGG
ACAAGTCACCGTAACCTATACGATTCTGAGAGCCTGTCACTTTGTCTGAAACTGTTTAGCTAGCTAGTTAGGAGTCCCCCGGCCTTCCCAGCCA
GGACAGGACTGTGAAGGTGGGAGTGACTCTTGTCCAGAGACCAGGAACACGTACTCCCGAGCAGATCTTGCACAACTCATTGGAAACCCTACAG
CGGGCTCTGCAGGTCTCTGGGATAGTCATCAGACACAGATGCTAAAAGCACCTGCCGACTGAGAAGAGACTTCAGAGTGCCCAGTCCCAGCCAG
GGAGGGCCTCCCGGGCTTCCTGAGACTCTCACTTGACACTAACTTTGCTTTACTCCCTAATAAGAGACTGTAATATCTTCTTCACTGAGCTGTG
GGGGCTGGGGTGGACATGGTCATAAGAAGAGGGCTATGCCAGGAATGTCTGGGTCTGAGCCCTTATTCCAACATGTCAATTATAATTCCAGAAC
GATGAATGGATATAGAATGTCTCCGGTTTGGGTTCCAAGATGAGCATCTCTGCCAGTCTGAGACCTCAGACTAGCTCTTTCTTCCAGTCACTCG
TGGCAGGAACTGGTACCTGCTCACAGGTGCAGGGGTGCTTATAAAAAGAAGAGTCAGCTTATTATAACAGCACACCCTAAAGTCAGTGTTTCTG
TACAATGAGGAAACAAGTCTCCACAAACTATAGGATTCTGAGAGCCTGTCACTTCGTCTGAAACTGTTTTAGCTGGTTAGGAGTCCCCTGGACT
TCCCATCCAGGACAGGACTGTGAGTCCAGGAACACCTACTCCCATCCCTGACCCAACCCCTAGCACTGGGCACTCGTGTGAGAACAGAGACTGA
CCTGGTGACAGAGACCAGTACATGACTATAGGACAGGAAAAGCATTGCAGTGGAACCAATGTCAGTCAAGCAACCCCCTGAGCACACAAGACCT
ATAAGGATAGGTTGCCCCAAGGGCCAGAAGTCTATGAACCTCTAACACCCCTCCCCCTCCCACACACAGGCACACTTCTTTGCATGGACTCTGG
GGTGGAGCCATGAGTGATCTGGAGAATAAAATACCATAAGGAACTTTCTTGAGCCCTTCCTGATTATTATTAGTAAGTACGTCTAAGATATATT
TCCATCTCAGAGGAATAAGAGGAACGCACCACTTCTGCCGGATTCTTGGTTGTATCACCAGAGTCCGGAATCTTAGAGACTCGTGTAGACTTCA
GCAGACGACCTGGGTCCTGCCTAGAAGCAGAGCCCCCACCTTATAATGGATCCCTGTGCCTCATGGGCTCTGTAGCTTAGTCACTGCCCTGACT
ACAACTCTACTGAAGATATCAGGCCTCAACTTGTAACTGCCTGGGTACAGAGACCGTGATGGCATGGCAGTACTGTGCACAGCCCATGGCTGTC
TGCCTGGGCACCCACTTCCTGTCCTATGAGAAGCCTGGCCCTGGAGAGAGAGGCTAAGGTCTGCCCTACTCCAAGGGTTTCTTATGGAGAAACC
ATACAACATAGTGGCTTGTTGGGATTAAAGCCAGGACAGTTTCTTCCACTTACCATCATTCAGCTTGAGCCTTTCCTTCCTTAAAGAGCCCATG
AAGGCTTCAAATGGCAGAGAACACAATGTGGTGTGTAACGGGGCAAAGTGATGTTAATTCTAGGGACCCTGCTTCTTGATTTTCTTCTTAAAAG
CTAGTGAAGACCTTGCGGAGTGAGGAGAGGTCAGGGTGGGCCAAGGAGCGCTGTCTCTGGCGCCTAAAGCTACAGGTGGTACCTACCTTCAACT
GCCAATGACCTCAGCAACCAACTGGCCATTGTAGCTGTGTGCCTTCATGTTCAAATGACACCGGTCAGTAGACATTTGGGAGAATGGCCAAGGG
CTGTCTAGACCTCTGGATCAAGGAGTCCTGGCTACTTAAACTCTCAAATCTATCTCCAGGGAGGAGGGAGTCTGTTTCTCATACCGACACTGAT
GTGCCGAAGAGAAGGAGCTAACACTTGCACCCAGGCCAGCCCTGCTGCACCACGAGGAAGGTTAGGCATCAGAAGAGGCCATTTCTGCACTATG
TGATCTCTCAGGTCTTCCCATGTGTTAGAAGGCCTCAAACTGAAGTGAACACTTGTCTGGGTGCTAATGTGACAGCTCCAAGAGATGCAGGCCT
CTCAAGCCTAAGCTGTGTCCATGTGCGTGCACACACCTTGTGCTTCTGTGGACTCTCCATTTTCACACAGGGAAGGAGATGAAGGGTAGAAGGT
TGCCTGGAGATAATTGAGACAGAGAGAGCAAACCATGTGGCACCTGGAGTGCCCGCAGAGGATGGCTGTGACTGGGACATTTGAGGAACCATGG
AATAGAAAACCTGCAATTTACAAGGGCCCGAGAGGGAGGCCAATGTCTTGTGGAGCGATCACAGAACACAATAGGCCATTAGGATGAAGGGCAG
GAAGGTAGTTTTGTTTAGAAATCTAAGGGCCATGTGCCACCAAAAACAAACAAAAGCGTGAGTCAGAGTGAGCTGAACACCCAAGGAGGCTGAG
CACGGAGGAGACATGCATGGGCGGGAGGGAGAGCAGATAGCTCCGCCTGTGATCTGCCCATAGAATTCATGCCATATGTTTGCCACCTGTGAGG
TACTCTCAGGTCCCTGGCTGCCCCACCCAGCTCTGTCCTAGGCAGTATGGCAGCCCCAGAGCCCCAGCTGCTGGAGGGGGAGTTACTGTCAAAG
CATAGAGATTGGCTTCAGCAGCTAGTGGATAGAACGCCACTGATGTGTGTTTTCTGTGTGTATGGCCTTCTGTGCCATCCACCGCCATCAAAAG
TAAATGGTGTTTATCATTCTGCACCTGGATGGGTCTCAGCCGGTTGGTTTGGGCTGTGGACTAGCGTGCACAGGCAGCAAAGCCATTCTCTTCC
TTCTCTGGGTCGGGGCCTGCTCTGTAGCTGGGAGTTAGGACCTTGTGGCACGACTGACCTCTGTGCTCACTTTGATACCTCTGGAAAGGGCATA
TTCCCAGCTCTCACCTGCTCACCACAGATGAAAAGGCCTAGCGAGGTCCTGTAAGAAAGGCCGGAGCCAACAAGTCCTTGGTGTGTGCTGTTTC
CAGTCCCCGGCGGGCTGAGCTTCCGCCTCACCCTTCAGGATTTCGTATTCTGCCTGAATGTACCTCCACGGATCCTCCCGCTGCACTGAACACA

TCCCTCTGTAGATGCTCCAGGTCTAAGCTGTCCAGGAGACAACCCTTACGCTCTCTCATCCCCAGGGAGCTGGGAACCACACATCTGCACCGCC
ATTGTGAATGCTGAATGGCAGATGTGCCCTTCCATTCACAGGCTCACAGGTCCTGTAGGATCTGAGGTCGCTTGGCAGGAAGATGTGTGAAGCC
TTTCTGGCCTGGGCTTGAGTGGCTCTCTGTGCTCTTCACCCCTGGAATCCTCTCTTGCCCCTGACTTACTGCTGGCTGTCTATGTTGATCAGGA
GACTTAGGCTTCAATGTCACTGCCATGAAGACAATCTGACTTTTGTTTCATAGGAGTTTTAGACTTTGAACAAAACCTCTTCTGTCCGGCACTG
GAAACAGCTGGTAAAATAATTCAAGCCACGACACTTGAGTTTACTTGAAAATGCAAGTGTGAAGTAACAGGGCATGGACAGAAGACATCCTCAC
TTGTACTGAGCATACGTCCTGTGAAGGCTGTGGGAAGGGGACAAGTGCCCGCCTCTGCCTGACAGCTCTCACTGTGCACAAGAAAGGGGACTGA
TAAAGGTGCTTCCCACCTGCTCCACTAGAAGGACAAGATAGATGCCATCAGCTGGCTACACATCAGTCACCAGCAACCCTAATGGTGACCTTAA
AGACCCATCTCCAGTTGTCTTGTTGGGGATTGGTACTTCAACATGAGTTCTGCGGCATCCAGGTTCTCCCACATTCTCCATATGCACAGCGTAG
AGGGTATGGTACAGGCTGTCATTGATGGACTCGCAGAGGTCTGATAAAGCAGGCTGTATCCTCACAGCTCTGCCTCAGAATCTTCACACAGGTC
CCACTGACTCATAGCTGGCAAAGCCTAGGCTGTAGGAATGAATTAACCCAGTGGTCACACGTTAGTCATACAGGCTCTGCCATGTGTCATGTGT
GATGATGCCGTGTCTGTTGGTAATGCATCTGAGTGAGGGCTGCCCACTCAGCATACAGGAGCACTCTTCACACTTAGGACTGAGCTGGGCAAGA
ACACTTAGACAGAAACCCAACATAAGTACCATCTACACAACCGTGTGGTCTCTCTTCATGCAGCCACACTGCCTTCGTGTGTCAGATGCTGGGC
AGTCCTCGGAGCAAGGGGATTGGAGGCACAGGTGTCAGATGTCGGTGAAACTTGCCTGGCAAGGTTGCTCAACTGTTTATATATTTTTAGCAAG
TTGTCATAACTCCCCCCAAATAAGATGGTTGGATGTCCGAGGTGCTGATAGCTGCTGGGACCTTGAGCTGATGCCCCAGAATGCTGCATTTACA
ATGGGAACCATGCGGTCCGTCTGCACAAAGGTCCATGGGATGTTTGACTGATCCCAGGCAAAGAAGGACAGGGCCTGTCTGCATGGCTCTGGTC
CACAGTAGACACATTCAGGCTCCCTCAAGCACAGGCACATGGCCCGTGTATCATCAGGCTCATTTTGTGGGCCTCACAAGATAGCCACATTACT
CCAGGAGAGAGTCACCTTCTTCCACTTGCCCCACTTAAAGGAAGGTCATTCTCCACCCATTCCCTGTCCTGGCAGTCAAACCTAGGCTGTCCTG
CACCCTAGGCAAGCACTCTTAAGCACTAAGCCATATTCCAGCCTAGCTAGAAGTTATAGAAGCCAGAGTGAGTCTCTGTGGCTGAGCCTTACTA
GACTTCGCCAGAAGATGTGCACTGTTAGTCTGAATGGGATCTGTCCTTGCCTATCTTTCTTATCTAGGAGATCAGACTTAAGATTCAAAGCCAA
ACTATGAATCAAGAGCTTCCATCTTTTCCTGGGTCCTAGTGAGGACCCTCTGGCTGCTCCTCTCTAATCCACCCAATGAGAGTTGGTGAAACAT
ACACCCAAATTCCTGGATAGGATGGAGGTGGCGCGAGTCAGCTGTCTACCAGCAAGCTTGGATGCAGGGCAGCAGAGGCAGCTGGGGTAGCTAT
ACAGAACAAACTACTTCTAGACTCATACTGTTGATGGCTTCAGAAGGGCCTGTGACAGACAGAGAACAGTGGAATTCCCCCAGGATCCTTCTGT
GTGCATAAACTTATAGCCCAGCCCCAGTACAGCCTCAGCACAGACTTAATCCTTAGCCACACACTGGAGAGGGCCTCAAATCAGAACCACAGAG
ACCCTGGCTCTCACCTGGACCTTGTGCACAGCAGGCAGCCTTTGGAGAGTGCCTATAAGCCATTTTAGAAGTATAGTTTCCCAGAAAGAGCTTC
CCACCTAACCTGGAAGGACAAGCCCCAGAGATGGAACTCTGTGAGGCCCAGGAGAGGAGCGTCAGCCAAGCACAACCTGCCCAGTGGCTCACAG
ATGAATGGCCTCATTGGGAGGCATCCTCACCTGGTGTTGGCATGTAGGAACAGAAGACTATTTGCTAGGCTTAAGTCTCAAGTCTAGAGTCAAG
GAATGCTCTTTAAGGCTCCTTGGCCCATAGACTATCATTGCAGGACCTGCAGGAGATGGGACGGAGAAGGAGCCTTCCCCCATCACACAACCGA
GCATGTGCCATTGACGGTGTCAGCCACACTTGGCTGGAGAAATCCTGGAGGACAGTGAGCCCCAACCTGGGACACAAACTTTGAGGCGACTCCA
GGTCAAATCCCTCAGCCGTCCTTAGACTCTTCGAGGAGTGGGCTCACCACACCAGCACTTGTATGTGATCCCTGCAAGGCGCTGCCGTGTACAA
GGTTGCTGGACTACGGTGACTGCTGTGGCTGTCAGGTGCACACAGTGCCGGGCATGCACGATGACACACATCTCCCATGGCCGCACAGACCCAG
CATTGTGCTGTGCTGGGTGTGAGGATCAGTCACAGCAGGAGCCAGCAGCCCACCTTCTTCATGAGGGCTTGCTTTGTCTCTGACAGCTGGCCCA
AAAGATTGCCGTTAATCCTTCATGTGCTCGCTTTCCATAATAAACTCTGTATAATAAACTCACGACTGGGCTCATGTGCTGTTTTCAATGTGCT
AGCATTGCGGTGAGCTCTGNNNNNNNNNNNNNNNNNNNNNCCCAGTCTAGCACGGAGACATTGCGTCACACCCCCTGCCTCCCTCTGGCGCAGGA
GACAGACCAGCGCCTGGGGCTTCTGTGGAGCCCAGGTCCCATTTCCTGACTAATAGGAAACAAGAGGCCCCATCCTACAAGGCTCTCAGCTCCA
CATGAGAAATGCAGACACAGGCAGTCTTGAGTTGTATAGCCCTAGGGTTTCTGTAGACAGACACTGTGAGGGGTGGCATATAGCTTCAGCTGAG
GAGACACTTACAGGGAACCTCAGAGAAGGGCCATCAGAATCCGATTCTTGGATCACTCCTCCTCTGCCAGATGGACAAGCTGCTCTGTCTCCAA
GCGTTCCTCAGCTGTGCTGAGTGACCATCCAGTGATCAGGGGCCTCTGTCTTTGAGTGGAACTGCCTCCGTCAGGGGTGGAATCCACATCAAGT
GTGAGACTGTGACAGGGTCCCCTGCACAGGAAGCAGAGGCTTGCCACCTTGGAGTCATCAGGTGGCAGGAGACATACCCTGTGTCTTCTTTCCC
TTTGCGCTGACCTGTGTGACACTGCCCCCTCCCAAGCACTGAGCTCTGAAGGTGAGGGACCTGAGCATAAGATAGTGACATTGGGCTGGCAATG
TTTAAGTCTCCGTCCCCATCTATCCAATCAAACAGGCTTCCTCCCCAAGAGTGGCAGCGTGGTATCCTTGAGTGGAGCTGCTGCCTCAGTCTCA
GATAACCAGACAGAAGGAGCCAGAGGATGGAGTGGAAAGGGCTAGCCAGGACACAACAGAGGCTGCGCAGGGTCTGCCCCAAACCCCAATCCTG
GTTCATTTTGTACCTCCTGAGAAAGAAACTTGGAAGTCCAACTTAGACCATCAGGACTCATGCCCTCGTGAATGTGCAGAACTTCAATGCACTC
AGCTGGCCCAGGTGACCATTCAAATGCCAGGAAGAGTCTGAGGTGGTTAGCAAGATGGGCCGGGGTACTTTAAACAGGTCCTAACAACAGAATC
TACAGGGTTCCCCAGAGCAGCCACCACACCCACTCCCTGTCTGGCCTCTGGATTGCTGGCCCAGGTCCAACCAACGCTCCAAGTCCCTGTCCCT
GTGTGGCAGGTAAATTACATTCTCTGTCATTTACTGGGCAGCTGTGTTTGGGACTGTGCCTTTCATGTCATGCTGGGTAGTTAGGGCTGGGTTT
TACAGATCTTATAGGCTGCATCGTGGGAGGGTTGCGTTGGCCTTGGGACCTGGCTGGGGACCCAGAGCAGCTCAGCCTGGAAATAATTCACCTT
CCAGTCATGGACCTTTTTTTTTTTTTTTTTTTTTAATCACAAGCTCTGAAAATGACCACTCTCATTTAGAACTGAACCTTCACACACAGATCCTGG
CTTTGAGCAGAGCGACTCATACCCAGGATTCTTCTCGGTGTAGTTTTGTTCTTAGCAACATTGCTGCCTATGTCTTTCTGGTCAGGCCTGTGAT
CCCAGAAACTGGCTGGACACGGTTCTGCCCCAGGTGCCTCTCAGGGTCTGACTTCTACCGGGTTCTTGCCAATTCTGGATTTACAGTGTGGTTG
AGCCAGCTGGACTGATACTGGATGGGGGTCGTTTCTGAAGCATGGCTTACCCCCACAGAGCCGTCTAGACGGGCTCGTGCCTGGAGCTGAGTTA
GTACCTGTATAACACATTTCATTGTAAGCTGTAGAACCCAGATGGCCAGGGGCTTCCTGTTCCTCGCAGCTCCTGGGAGATACAGCCCTCAGGA
AGGGCGGGACCCAGAGCTGATCTCATATATTCAACTTTCTAATGTCAGAGGGATGGGTTTCCCTTCCTTCCGTTTTTGTTAAATGCCAGGATGT
CCACAGTCCTTCTCATTATTAGCAGAGCATCCCGTCCCACAAAGCGATCTGGGGACCTGCCCAGAGAGGAGCCTGCTACCTGCCTGCACCTATG
ATTCCCACGGCTTAGGCAACAGGACAGATAGGGTGGTTGGTGAACTGAACTAGGTCTTCACTGGGAGGCTTTTCTCAGAGGCGCCGTGTGCATG
GCGTACTTGCCTTGGGGCTCCTATTCCTCCTTGTTTC

MOUSE SEQUENCE - mRNA

GGCCCGACATGACGGGGCTGGAGCAGGACCCGGAGTTCGACTTCGATTTCCTCTTCGAGTTCGATCAGAGCGGCGGGGGCGCCGCGGCCGCAGA
ACACTACAGTTATGTGTCCCCTAGTGTCACCTCGACCCTGCCCCTTCCCACAGCACACTCTGCCTTGCCAGCAGCATGCCACGACCTCCAGACG
TCCACCCCGGGTATCTCAGCTGTTCCTTCAGCCAATCATCCCCCCAGTTACGGAGGGGCTGTGGACAGCGGGCCTTCGGGATACTTCCTGTCCT
CTGGCAACACCAGACCCAACGGGGCCCCGACTCTGGAGAGTCCGAGAATCGAGATCACCTCCTACCTGGGCCTACACCATGGCAGCGGCCAGTT
TTTCCACGACGTGGAGGTGGAAGACGTACTTCCTAGCTGCAAGCGCTCACCGTCTACAGCAACCCTGCACCTGCCCAGCCTGGAAGCCTACAGA
GACCCCTCCTGCCTGAGCCCAGCCAGCAGTCTCTCCTCCAGAAGCTGTAACTCTGAGGCCTCCTCCTACGAGTCCAACTACTCCTACCCATACG
CGTCCCCCCAGACCTCTCCGTGGCAGTCACCCTGCGTGTCTCCCAAGACCACGGACCCGGAGGAGGGTTTTCCCCGAAGCCTGGGTGCCTGCCA
CCTGCTAGGATCGCCCAGGCACTCCCCATCCACCTCTCCTCGGGCAAGCATCACGGAGGAGAGCTGGCTCGGTGCCCGCGGCTCCCGGCCCACG
TCCCCCTGCAACAAGCGCAAGTACAGTCTCAATGGCCGGCAGCCCTCCTGCTCACCCCACCACTCACCCACACCATCCCCCCATGGCTCCCCTC
GGGTCAGTGTGACCGAAGATACCTGGCTCGGTAACACCACCCAGTATACCAGCTCTGCCATTGTGGCAGCCATCAACGCCTGACCACCGATAG
CACTCTGGACCTGGGTGATGGGGTCCCTATCAAGTCTCGAAAGACAGCACTGGAGCATGCGCCCTCTGTGGCCCTCAAAGTAGAGCCAGCTGGG
GAAGACCTGGGCACCACTCCACCCACTTCTGACTTCCCACCCGAGGAGTACACCTTCCAGCACCTTCGGAAGGGTGCCTTTTGCGAGCAGTATC
TGTCGGTGCCACAGGCCTCGTATCAGTGGGCGAAGCCCAAGTCTCTTTCCCCGACATCATATATGAGCCCATCCTTGCCTGCCCTTGACTGGCA
GCTCCCGTCACATTCTGGTCCATACGAGCTTCGGATCGAGGTGCAGCCCAAGTCTCACCACAGGGCTCACTATGAGACGGAAGGCAGCCGGGGG
GCTGTGAAGGCTTCAGCTGGAGGACACCCCATTGTGCAGCTACACGGTTACTTGGAGAATGAACCTCTCACGCTACAGCTGTTCATTGGGACGG
CTGACGACCGCCTGCTGAGGCCCCACGCCTTCTACCAGGTCCACCGGATCACGGGGAAGACTGTCTCCACCACCAGCCACGAGATCATCCTGTC

CAACACCAAAGTCCTGGAGATCCCGTTGCTTCCAGAAAATAACATGCGAGCCATCATCGACTGTGCTGGGATCCTGAAGCTCAGAAACTCTGAT
ATTGAGCTGAGGAAAGGGGAGACAGACATCGGGAGGAAGAACACCAGGGTGAGGCTGGTCTTCCGAGTTCACATCCCACAGCCCAATGGCCGGA
CGCTGTCTCTCCAGGTGGCCTCGAACCCTATCGAGTGTTCCCAGCGGTCAGCCCAGGAGCTGCCCCTCGTGGAGAAGCAGAGCACAGACAGCTA
CCCAGTCATCGGCGGGAAGAAGATGGTGCTGTCTGGCCATAACTTTCTGCAAGACTCCAAAGTCATTTTCGTGGAGAAGGCTCCAGATGGCCAC
CACGTCTGGGAGATGGAAGCAAAGACTGACCGGGACCTGTGCAAGCCAAATTCCCTGGTGGTTGAGATACCACCTTTCCGCAACCAGAGGATAA
CCAGCCCCGCCCAAGTCAGTTTCTATGTCTGCAACGGGAAACGGAAGAGAAGCCAGTACCAGCGTTTCACGTACCTTCCTGCCAATGGTAACTC
TGTCTTTCTAACCTTAAGCTCTGAGAGTGAGCTGAGAGGAGGTTTTTACTGAGCAGCCCCCCGAGGCTATAAGAGGATGTTGTTGTAAACAAAA
CAAAACAAAACAAAACATACCTGTAGCCTCTTCACACCACGTGATAGCCCTATTCACAAGACCAAGTCGCCCACCCCCTCAAAGAAAAGCGAAG
CCTGGGTGTGTTTTCCTGTGACTGGTGCATGCTGGGGTCATCACTTGCTCGCCTTTTGCAAATACAGCAGCGCGGCCAACCAAGCAGCTCTGCT
GCGCTCAGGGGCTGATGCGGTCTGGGGGTGTATATCTAACCTCTGTGAGTCTTTGGGTTAGAAGAAAGTATTTGTCAACGCAGTTTTGTAAGTA
GCTTCGAAAATAAGCCTGCCGTGGTCACTGGGGAACATACATGATGTTGTCCTCATGGTGACGCTTCTACACAGCGTGCGGTGTGTCTCCACTG
AATAATGCTGTCCCCTGGTGACGTGAGACTTTCAGATGGAAGCTCTTCTGCTCGAGTTTACTCATTTAGGGAATGGCTTCTTTCATTCAGAAGT
GATCGGCTCGCCTTTTCAACTTTCTAGGGTGTTTTATTTACGAAAATACCGTTTTTAACTGCTCCCCGCCCCGCAAGCTTCTAGAAAGGTGTGT
CCCAGGCGTCCAGGGTTTCCTGTGTGGTGCAGGCCATTCTCCTGCAGCAGGATGTATAAACAGAGAGCAGAGTCGGTTGTTATCCTGAGTTCTA
TTGTATTTTGAGTAAGCTAGGCTATGTCAACAACCTTTTTAAATTGCTACTTTTTTTTTTCCTCTAAAAACTTAAGATAGTCATGTAATTTAAG
AGGGAAGTTATACAATAAATACTAGCCATGAAAGCAGCCATATTGCTATCTTAGTAAAATCAAGGTGGTTTTGTTGTTGTTATTTTGTTTTGTT
TTTTGTTTTTTAAGGTTTCAAGGTTTTTTGTTTTTGAAGTGTAAAGGCATTTGGAACAGTTTAGACAGTACGAAAAGTTGGTATTAAAATTCTG
AAACCAATTGTCTTATCAGGAAACCCCTAGAAATGCCCTTTAAAAATGAGGACAATAGCTTTGTTGCATTCTCAAACAAGGACATCAGTGAAAG
GGCAGCAACTGTCTGTGCTGTGGGTGACCCCAGAACAGCGGCCCATCCCCCATCCCGTCTCTGCTCTTCAGATTATTTCACAGGCCTCTTCCTT
TCGGGAAATAATGCACACTCTCTCTTACAAAAAAACCAAACATTTGGTCTTTTATTTTATTTTATTTTATTTTTGAAAGTGCAATGATTGTGT
CCTACCTATACTTCAAGCATGGTTGATCTAAGATTTTTGAAAGGTCTAAAC

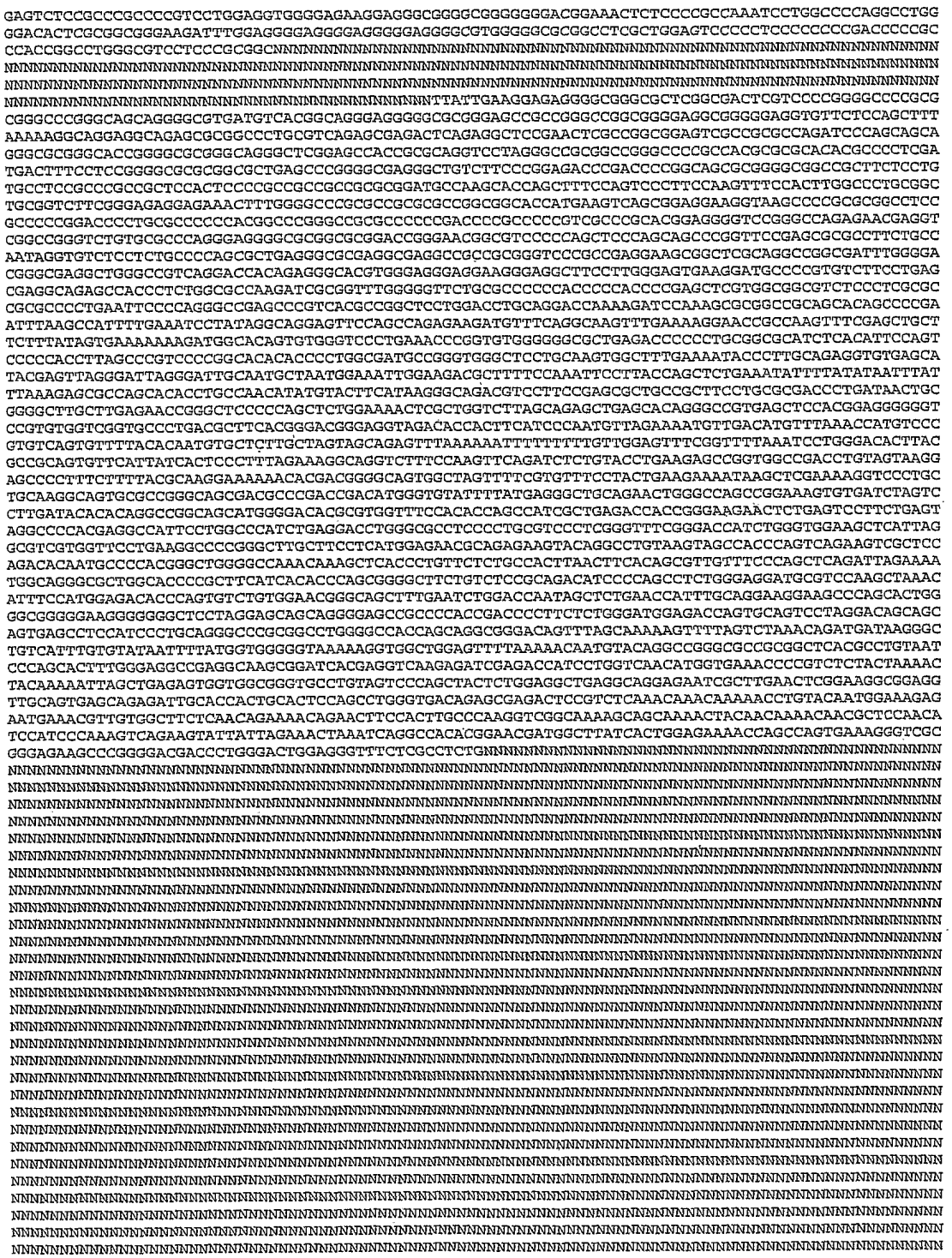
MOUSE SEQUENCE - CODING

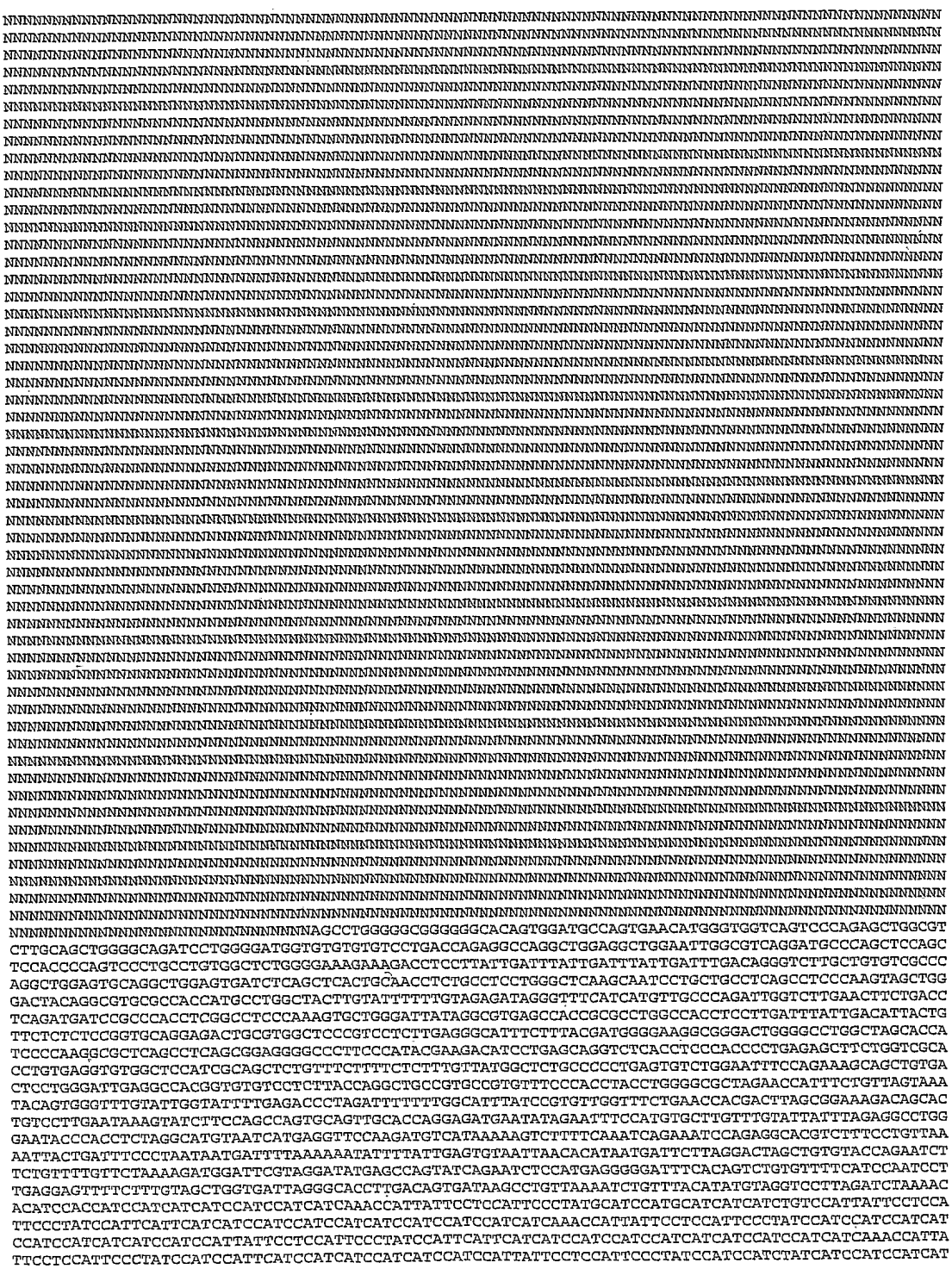
ATGACGGGGCTGGAGCAGGACCCGGAGTTCGACTTCGATTTCCTCTTCGAGTTCGATCAGAGCGGCGGGGGGCGCCGCGGCCGCAGAACACTACA
GTTATGTGTCCCCTAGTGTCACCTCGACCCTGCCCCTTCCCACAGCACACTCTGCCTTGCCAGCAGCATGCCACGACCTCCAGACGTCCACCCC
GGGTATCTCAGCTGTTCCTTCAGCCAATCATCCCCCCAGTTACGGAGGGGCTGTGGACAGCGGGCCTTCGGGATACTTCCTGTCCTCTGGCAAC
ACCAGACCCAACGGGGCCCCGACTCTGGAGAGTCCGAGAATCGAGATCACCTCCTACCTGGGCCTACACCATGGCAGCGGCCAGTTTTTCCACG
ACGTGGAGGTGGAAGACGTACTTCCTAGCTGCAAGCGCTCACCGTCTACAGCAACCCTGCACCTGCCCAGCCTGGAAGCCTACAGAGACCCCTC
CTGCCTGAGCCCAGCCAGCAGTCTCTCCTCCAGAAGCTGTAACTCTGAGGCCTCCTCCTACGAGTCCAACTACTCCTACCCATACGCGTCCCCC
CAGACCTCTCCGTGGCAGTCACCCTGCGTGTCTCCCAAGACCACGGACCCGGAGGAGGGTTTTCCCCGAAGCCTGGGTGCCTGCCACCTGCTAG
GATCGCCCAGGCACTCCCCATCCACCTCTCCTCGGGCAAGCATCACGGAGGAGAGCTGGCTCGGTGCCCGCGGCTCCCGGCCCACGTCCCCCTG
CAACAAGCGCAAGTACAGTCTCAATGGCCGGCAGCCCTCCTGCTCACCCCACCACTCACCCACACCATCCCCCCATGGCTCCCCTCGGGTCAGT
GTGACCGAAGATACCTGGCTCGGTAACACCACCCAGTATACCAGCTCTGCCATTGTGGCAGCCATCAACGCCCTGACCACCGATAGCACTCTGG
ACCTGGGTGATGGGGTCCCTATCAAGTCTCGAAAGACAGCACTGGAGCATGCGCCCTCTGTGGCCCTCAAAGTAGAGCCAGCTGGGGAAGACCT
GGGCACCACTCCACCCACTTCTGACTTCCCACCCGAGGAGTACACCTTCCAGCACCTTCGGAAGGGTGCCTTTTGCGAGCAGTATCTGTCGGTG
CCACAGGCCTCGTATCAGTGGGCGAAGCCCAAGTCTCTTTCCCCGACATCATATATGAGCCCATCCTTGCCTGCCCTTGACTGGCAGCTCCCGT
CACATTCTGGTCCATACGAGCTTCGGATCGAGGTGCAGCCCAAGTCTCACCACAGGGCTCACTATGAGACGGAAGGCAGCCGGGGGGCTGTGAA
GGCTTCAGCTGGAGGACACCCCATTGTGCAGCTACACGGTTACTTGGAGAATGAACCTCTCACGCTACAGCTGTTCATTGGGACGGCTGACGAC
CGCCTGCTGAGGCCCCACGCCTTCTACCAGGTCCACCGGATCACGGGGAAGACTGTCTCCACCACCAGCCACGAGATCATCCTGTCCAACACCA
AAGTCCTGGAGATCCCGTTGCTTCCAGAAAATAACATGCGAGCCATCATCGACTGTGCTGGGATCCTGAAGCTCAGAAACTCTGATATTGAGCT
GAGGAAAGGGGAGACAGACATCGGGAGGAAGAACACCAGGGTGAGGCTGGTCTTCCGAGTTCACATCCCACAGCCCAATGGCCGGACGCTGTCT
CTCCAGGTGGCCTCGAACCCTATCGAGTGTTCCCAGCGGTCAGCCCAGGAGCTGCCCCTCGTGGAGAAGCAGAGCACAGACAGCTACCCAGTCA
TCGGCGGGAAGAAGATGGTGCTGTCTGGCCATAACTTTCTGCAAGACTCCAAAGTCATTTTCGTGGAGAAGGCTCCAGATGGCCACCACGTCTG
GGAGATGGAAGCAAAGACTGACCGGGACCTGTGCAAGCCAAATTCCCTGGTGGTTGAGATACCACCTTTCCGCAACCAGAGGATAACCAGCCCC
GCCCAAGTCAGTTTCTATGTCTGCAACGGGAAACGGAAGAGAAGCCAGTACCAGCGTTTCACGTACCTTCCTGCCAATGGTAACTCTGTCTTTC
TAACCTTAAGCTCTGAGAGTGAGCTGAGAGGAGGTTTTTACTGA

HUMAN SEQUENCE - GENOMIC

AAGGCCCTGACCGGTTTATAAAGAGCACCCATCTTCTCCGGCACCAGACGGCCCCAGCCTGGCATCTCGATGAGTGAAGCGTAATGAGCCAGAA
TTGCAGGATTAAGCTTCACTTGAAACTCACTCCGGTTCAAAACTTAATGGAAAAAATGCCTGGCAAAACTTGTTTGGAGCTTTATTGAACCAAA
ACACTTTAGAAACCGTTGGGGAAGCTCAGTGAACCCAGGCTGTGGTCCAGCCCCACGCTTTGTCTAGGGCAGGTTCCGTTCCCTCAAGCAGGTG
ATGGGAATCCCGGACTGGAGCCTGAGGCTGAGCAGCCAGAGGCCACACCGCCAGGGCCAGGCCACACCACCAGGGCCGGCCACACCGCCAGGGC
AGGCCACACCGCCGGGGCCAGGCCACACCGCCGCGGCAGGCCACACCGCCGGGGCCTGCCTCATCGCCCCACAGTCTGGAATGCTCTGCACACG
CATCAGAAGGAGAGTCGCTGAGCATCACAAAGGAAAATAGAAAGCGCAGCCTCACTGCCCAAGGCCGGGGCAGAGATGACTTGCCTTGTGTTAC
TGCCTAATTAAACAGATTTGGGTAAACAGATTTGGGTAAACCAAGTAGTTTAAAGAAAAATGTTGGAATATTGCCATTTGAAAAGTATTATTAT
TTTGCAAGAGGAAAACAATTGTGAGTTCACAGGGACAAACCCAAACTCTTGCCAGAAACTAAAAATGTGATTTATTTACCTCTCGACCAGCGTT
AGCAAAAAGAGCAGGCCTGCAGGATCAGGACGCGGCTCTGGGCCCTCCTGCCTCAGCCCTCCGGCACTGTGAGAGGGGCACACACCCGGGGTGG
GTGTGCTTGTCCTGCGAAGTGCAGAACAGAGAAGAGGCTCCGAAGCACAGAGCGCCTCTGCCCTGGGCTTTGCACACATTCCTGACTTCTTAAG
ACACAGCTGTGCAGGACCATTGCATCTCCGTGAAGCTGTCCTCATTGGCCTCAGGCTGACCCGGGCCCCTGGCACTCGAGGGCCAGGGAAGGGG
TCATGTCTCCCTGAGACACACATGTGGCATCCTTTCCCCGCCCCCGTGCACACCAGTGGAGTGTCAGCTCAGCCCTGTTTGTGCTTTCTAAGAG
AAATCGAGGTTTAAAGGGGACTTTTTTTTTGCCTAGCGTGGTGTGTGAGGCCCAGATGGCTGCAGCAGCTGTGCCGGGCTTGCCCGGCCTCCTCA
CCGGGAGCTTCCCTCTGGCTAGAGTTGCTGTTTCATCTGCCTGTGTCCCTGCGGCCCCACCCCCATGGAGGAAGCGAGGACCCTGTTCAGCCAT
GGCCTTCCTGTGAATTAGGCCTCCTTCAGGTGCAAGTGACAGAATCCACATTAAACTCGATTGAGCAGAAAAGGGAAGTTGCTTCCTCACCAAG
GTGAAGACCCCAGGGGAGGCTCTCAGGTCCCACTAGACTCAGGGGCTCAAGCAGGGCATGGAATCGGCCTCTGGAGTCCCTGTCTCCATGGCAG
CCCCGGGGTCCACATCTTCCCCAGGAGGGCACTCTTCAGGCCCCGGCTTCAGAGGAAGAGAACGCCATTCCCTGCGGCTGTGGGGCAGCAGCAG
GCACACCTCCCTGGCCTCGGGTGGGCTCTGCCCCTGCGTGGGCTATGGCGGGAGTGGGAACATTCCCGTGACCCCCCTGGAGTTTAGGCCAGGC
AGTGGAGGTCCTCGAGCAAAGGTCATCCCACAGGGAGTGCTCTGTCCAGTAGGAGCATGGCGCCCATGTCAGGGCACTGGCCTGGAAGGGAGCG
TCTTAGTGGAGGCTGTGGGTGCTGCCAGGCCACCTGAGAGGGGACATGCATTGTAGGAAAGGCCACAGCGCACTGTGACAGGTGTGGTATCCTG
GAAGGAATGAAAAACACTGCCCGGCCAGGCGCGGTGGCTCATGCCTATAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCACGAGGTCAG
GAGATCGAGACCAGTCTGACCAACATGGTGAAACCCCGTCTCTACTGAAAATACAACAATTAGCCAGGTGCGATGGTGGGCACCTGTAATCTCA
GCTACTCGGGAGGCTGAGGCAGGAGAACTGCTTGAACCAGGAAGGCAGAGGTTGCAGTAGCCGAGACTGTGCCATTGCACTCCAAACCTGGGCAA
CAGAGCGAGACTCCGTCTCAAAAAAAAAAAAAAAAGAAAAAGAAAACCACTGCCCTTTGGGTTGGTTTCCTGGGGCTGCCATCACAAATGACC
ACAAAGTGGGTGGCTTGAATGGCAGAAACATGTCCTCAGTTCTGGAGGCCAGAAGGCACAGTCGAGGGTCAGCAAGGCCAAGTGCCCTCTGGAA

CCGGCCACGGAGGTCCCTTCCCTTCCTCTTCCAGCTCGTGGTAGCCCCAGGTGCTCCTTGGCTCGTGGAGCCATCATTCCAGTCTCTGCCTCTG
TCGGCTCACCACATTCCCTTTGTCTGTCTTCTCCTCCTGTGAGGGCACCAGTCATCATTGGGGTCCCCTTAACTGACACCATCTTAACTAGTTA
CAACTGTAGAGATGTCACTTACCAAATTAGGTCTCATTCCCAGAGACCAGGGGACTTCAATGAATCGTTTTGGAGGACGCAGTTCAATTCACAA
CAGCATTGTTCTGAAATAATGATTAAGCTGTCTTGAGCCATTAGCAGGTGCCTCTCATTGATCTACCCTGAGAGGTGAAGGCCGTTACTATTGG
CTCCCGTAGGTGTACCGGGGACTGGAATCCAAACTCGGGCTGTGGGCAAGCGCCTTCTCACACGAGAGCTGACGTGCTCTGTGAACCCGTCCCC
GGGAAACTGGTCAAGTTAAAAACCCCCAGCCATTGACAGTCTCTGGAAATGGTCCTAAGGACACGCAGCAAGTGAAGACACATCTATTGAAAAA
GACCTGATTTTTTAAAAAACCATCTTTACTAGGAAAGGTGAATGTATTTGGTATTTGAACCAAAGCCACCCCCTCCTCCCCTCCCCCTGCCACT
CCACCAGCAGGTCTGCTGCAGCTGAGGACACAGGTGGGTGGGGGAGAGTGACTCTGGGAGGGCGGGATGTCGGTGTTTCTCATCCTGCCCCATC
TGCCTGTTGCTGGGGCTGCTAGGTCCTGGGGAGTCTGGTGGAGGGGTGGGGGCTCCCTTCTTCCCGGTCCCCACACTCATGGGTGGGAGGCTGG
GCCTTGGGTGTGGCTCACTGAGAAGACAGGGTGCAACTACCCTTGCCCCCGCTGACAGGGCAGTGATTCCAGGCCAGGGGAGGCCAGTGGGGTC
TCAGGATGCTGCCCCCGTCAGCACTCAACTCCTGGAGGTGGAGGCGTCACTCACACTGAGGCTCGGCACTGTCCCCATCCCCAGCTCCAAAGCA
TTGGCTCAGAGATTTTGCCTGGAGTGAGAAGCAGTAAGTAAAAGAGATAGCTTCTAATCTCCTCCCAAAAGAAACGACTTCATTTTCAGCAGAA
CATGGGAGAAGGTGAAAGCTTAGGGTCCCCTCGAAAACATGGAGGTTGTCATCAATGGCATTTGGGACATTCATGGATTTAATGAAGATTTAGC
CTAGATTTAGGAATGTGATAGCTGTGAGGGGCCTCCAGGGGTCAAAACAAATATCACACATGGACATCAGAAACTCTTGCTTCAAAGAAGGCAC
TATTTAGTTGGAGTAGTTTGTAGAGTAATTTATGCCTCCAGATATTGTTAAAAACAATAGAGCAATCCAATGGCAGCCGTGGAATTTAACAGCT
GGGTATGGTCAGGGAAAGAGAGGAAGAGATCTCTATCAATGTGGTCGGGGAAAGAGAGGAAGAGATCGCTCTCAAAATCCTGCATTCCAGGGTG
ACTCTGGGCACAGGTAAGACTCCTCTCCCTAAGGAGCAAGCCAGAGGCATAACTCTGCTGGTGGAGGGGCAGTGTGTGGAATAGCTTCACTGC
AGTCATCTCAGAAGTCACAAGACAAGTAAATAAGCAAATAACAAGCCCCACACAGGGGGACCAGTATCCAGAGCTGCTATAATACATTGTCTAA
AATGCCCAGTTTCCAACAAAATAGGAGGCATGCAAAGAAACACAAGAGTATGACCCCCACATTTAAATTTTTTAAAAAGCAGACAACAGAAACT
GCCTGGGGAATGACCAGATATTGGATTTAATGGGAAAAGGCCAAAATATCCCTTATATGCTCAGAGAACTAAAGTAAATCTTGATTAAAGAAAG
CAGGACGACAATGTCACATCACGTAGAGACTGTTGATAGAATGTATAAAAAATAACCAGTGGAAATTCAGGAGTTGGAAGGCGCAGTCACTGAA
GTGAACCATTCACTATTGGGGCTCAACAATCGATTTGAACTGGCAGAAGAAAGAAAGTGAATTTGAAGATACATCAGTAGAGAGTATGCAAGCC
CCGAACAGAGAGCAGATAGAATGAAGGAGACCAAGGGGAGCCTCGGAGAGCTGAGGGGCACCAGGGACGCCCTCCAGGGCACCAGCCCACACAG
GGGGTTCACTAGAAGGAAAGGAAAGAGGAAAAAAGGGATGCAAAAATATTAAAAGAAATAATGGTTGAAAATATCGCAGATTAGTTTAAAAAAA
TAACCTACAAAACCAGGAATCTCAATGAACTCCAACTGGGGCAAGCCTAGAGAGGCCCACAGACCAACACATTATGAGTAAAAATGCTGAAAGT
CAATAATAAGGAGAAAATCTCAAAAGCCAAAATAATAAAATAAGGTATCACTTACAAGGGAACCCCAATAAGGCTAACAAGTGACTTCTAAGCG
GCAACGATGTGAGCCTGAGGCAGTGGGATAACAGCCAAAGGAAAGGAGAGAGGAGGAGAGGGGAAAGGAGGGGGAGGCAGAGGGAGGCA
GGGAGGGAGGAAGGAAACCTATCAATCCCAAATCCTATGCGCAGCAGAGCTTTCTTTCAAGAATGAAGGTGAAATAAAGACTTTTTCCGACAAA
CTGAGAGTTTGTTGCCAGCTGACCCACCTTACAAAAAATACTAAAGGAAGTTCTTCAGGCAGTGAGCAAGAAACTTCAGACAGTAATTTGAAAT
CACATGAAAAAAACAGAGTGCCTCTTAAGGTAATTACGTAATTTCATAAGACAGTACGAATACATATTTTTCTCTTTTTATAACTGGTGTGAAA
AGTGATTGTATAAAATAATGTATATAAAATATAATGTTGGGCCTATAACTTATAGCAATGTAATATATGTGTAGTGTATTGCTAATAACAATAC
AAAGAAAGGGAATGAGAACAAAGCTATATTGGACTAAAGAAATAACTACAGATGGTAAAATAATGGTTATCACAATGTATTCTTAGGTTTGTAA
CATTACTGTTTACAATGTAGAATGTATAAAAGCGGGAAGGGAATGGAGCTAGCTACATAGGGATAGTGTTTTTGTGTGTCACTGGAGTCGAAAT
GTATATGGTACATACTAGAGCAATCACTAAAACAGTAACAAAAAAAGTTTAAAAACTCAGTAGAAAATAATTCACTTAATGCAAAGAAGTCAAT
AAAGAAATAAATGAGGGGAAGACATAAGAAAAATAGAAAATGAAAAGTAAAGTGGAATAGAAATGAAAAGTAAAGTTCAATAATAACATTAAAT
GTGAGTGGATTTAACAACCAATCAGAAAGCAAAGGCTGTCAGACTGAATTAAGAAAACATGACCCAACTTTATGCCGTCTAGAGGAGACATACT
TTCTACTCAAAGCTACACACATAGACTACAACGATGGGAAAAGACGACACACCAACAGCGACTTCAGGAAAGCTGGAGTGGCTGCTAATGTTAG
ACAAAATAGGCTTTTTAAAAAAGGTTTTATTAAAGAGGAATGTTTCGTAATGATAAAAGCACTAATCTGTGAGAAAGATACAACAATGATAAAC
ATACGTGCAGCTAATAAGAGAGCTCCAAAATCTATGAAGCAAAAACTCACAGAATGAGGGGAGAAGCAGTTCTACAACAGAGAATGGGGACTTC
GATACTCCACTTTCAATAATGGATACAACAACCAGGCAGATAACAAGGCAACAGAAGGCCTGAACAACAGTATAAACCAATTAGACCTACCAGA
TATCTATAGCTAGCACACTCCACCCAACGACAGCAGAATACACATTCTTCTCAAGCGCACAAGTAACATCCTCCAGGATGGGCCATGTTCTAGG
CCATCAAACAAACTCAGGTGGTTTGAGGCCAGAGGCCTCTCTTTTAACCACCACACTAGGGCCTTCGGAGGAGGCAAGCAGAGAGTTGTCAAAG
AGGCCCTCAGGACTGGGTGCAGTGGCTCATGACTGTAATCCCAGCACTTTAGAAGGCTGAGGCACAAGGATCTTTTGAGCTCAGGAGTTCAAGA
AATGAGCACTTATCCACTGGGCGCGGTGGCTCACGCCAGTAATCCAGCACTTTGGGAGGCTTAGGCGGGCGGATCAAGAGGTCAGAAGCTCAAG
ACCAGCCTGACCAACATGGTGAAACCCCGTCTCTACTAAAAGTACAAAAATTAGCCGGGCGTGGTGGCGCACACCTGTAATCCCAGCTACTTGG
GAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGTGGAGGTTGCAGTGAGTGGAGATCACACCATTGCACCCCAGCCTGGGCAACAGAGCGA
GACTCCGTCTCAAAAAAAAAAAAAAAAAAAAGAAAGAAAGAAAAAGAAAAAAAAAGTGAGCATGTATTTTGCCAGAGTCTGGAGATTAGAATTA
AATTAGCAAACCAGAATTATAGAAAAAGCTATTTACTTTTAAGTAAACAGCTGAGATTTTTTTTTTTAAGTCAGTGTGAATGAAGCTCACAGCC
ATGGTTGGAGCTGAGAAAGAAGGATTTCCCTTTAGTTATGCACCTGTGTCAGCACCTTCTGACTTTCCTTCTAAAGTCTGGGGTGTTCCTGAGG
ATCCGTAAGTTTGGGGTTCAGGGTTTCTACAGCATGCTGTTACTTGTGAAACATCTCTTTAACCATGTCCCAGAGTTGCCCAGGAGTTTAAGAC
CAGCCTGAGCAACATAGCAAGACCTCATCTCAACAACAACAAAAATTAGAAATAAATTAGCCAGGTGTGGTGACATGTGCCTGTAGTCCCAGCT
ACTCAGAAGGCTGAGGCATGAGGATCACTTGGGCCCAGGAAGTTGGGGCTGCAGGGAGCCCTGTTCATGCCGCTGCACTCCAGCCTGCAAGACA
GAGCAGAAAAAAAGAATCAGGATCCTGGGCAGAGGAGGAGAGGGGACCGGGGTCCAGCAAGCACTTGGGGATTGACTGAATGGCGTTGGGGAG
AGATGACTCCAAAGTCCTGGAGTGGGTGAGAATGACTGCGAGTGGCTTTTAGGTGGGGAGGTTCCTGCCTGGCCACTCCGGGAGGGGACGTGGG
GCTGAAGGGTATCAGGTGCCGTGCTGAGCAGTTTGGCCTTGATCCTAATGCCCTGGACACACGTCTAGGGTAGGAAAGTTGACTGATCCATTGG
TGATCTGAGTTTTTAGACATGGTGGTAGTCCATGAGGTGGGTGTTCATGCTAAGAGTTTAGACAGGGAAACCTATGAAGCCCTTAGCAACCCTC
CAGGGAAGGGGCGTGGTTAAAGAGATGTTTCATAAGTAACAGCATGGTATAGAAACTCTGAACCCCAAATGTATGGGTCCTCAGGAACACCCCA
GACTTTAGAAGGAAAGTCAGAAGGTGCTGACACGGGTGTATAACTAAAGGGAAATCCTTCTTTCTCAGCTCCAACCATGGCTGTGAGGTTCATT
CACACTGACTTAAAAAAAAAAATCTCAGTTTACTTAAAAGTAAATAGCTTTTTCTATAATTCTGGTTTGCTAATTTAATCCTAGTCTCCAGACC
CTGGCTAAATAAATGCCCATTTCTCCAGATGGTCTCAAGAGTCTCTGGACATCGTGGGGGCCCTTCCCTGTTGGTTGGAAGGTGCCTCAGGAAG
AAGGGGGTGGATTCTGAGTTGAGTCAAAACCTCAAAGACCCCTGATGGGAAAAGCTCTCAAGTGACCACCGCTGTGGGCCAGAATGCAAAACTG
CAGGAACAGAACATTCGCAGGAACAGAACACAGTCGTATTAAGTGATTTTCCCGAGCAGGAAGTGGCATCTGGCCTGCGGTTCAGTAGGGGGAG
GAAAAGGGTGGGCGCACCTGCCCCTGGCTGGCGCACCTGCCAGGTAGCCCCACGCGGCACCGCGTGTGCCGAGCGCCCCTGAGGATGGAAAGCC
CCACGCGGGGCAGGTGGCACCCACCCCTCCGAAGACGGGACGGGATGGAGCGTTGAGCTTCGGGGCAGCTCCGGCCCGGCCCGCGCTGGAGACG
CCCGCATCTGCCAGGATGGCGTCTCATAGCCCTGGTGCTCACACATGACGCCAGGAAGCCCCAGGAACAGTGACCGCCCAGGCTCTAGAAAATA
TTGGACGGGGTGGATGAACACCCAAGTGCGCTCCAGGAGAAGGGATTTGGCACCCCAAGGGGCTTTTAAAACGGTAAGCTTCTAGGGGTGTCTT
TGCCCCCAATAATCCATAGAAACAACAGTCATCTAAAAATAGTCTTGTTTTCTGTCCTAAGCTCCTTTTAACTTTGTTAGTCATCACCAATCCT
AAAATAAAACCCGTGTAACGTCTCCCCTAGTAGCGGCTATAAACAAACCTACGAGGAGGCAGGAGGAAGAGGAAAGGGGCGCAGGGCGCTCGGG
GAGCAGAGCCGGGGGCCCGCGGTGGCCGCAGAGGCCGGGGCGCAGAGGCCGGGCGAGCTGGCCGCGCTCTGGGCCGCCGCCTCCGGAAC
TCCCTGCGCCTGGCGCGCGGCCACCGTGGTCCCGGCAACGGCATTAAACAGAGGGAAACAGACCCGGGATTCCGTCACCCGGGCGGGGGGATAA
GGACGGCTTTGAGAGCAGACAGGAAAAGGGAGCTTTTCTGCATGGGGTGAAAAAATTATTTATTGAAGGAGGAGGAGGCGGCAGCGGAGGAAGG
GGAGGGGCGGGAGGAGGAGGAAGAGCCGGCCGCCCCCGCCCCGGCTCCTCAGGAGCCAAGGGCAGCCTCGCCAGGTCGGTCCCGGGCT
CGAGGACCGCGGCTGGGGTCGAGGGGCTCAGTCTCCCACGTGACCGGCTGGGCGCGCCCCGCCAGACCCGGCCTCGGGATTCCCTCCTCCCGGC





TATCCATCATCCATCCATTCCTCCATTCCCTATCCATTCATTCATCCATCCATCCATCCATCATCATTCATCCATCCATCCATCATCCATCCAT
TATTCCTCCATTCCTCGTCCATCCATCCATCCATCACCATCCATTTATCTATCCATCCATTCATCCACCATTTACCTATCATGCCTCCATCCCC
AATGCATCATTCATCCATCCATCCGTTTAGCTGTCCATCCATCCATCATCCATCCATTCATCCACCCACCCATAATCCATCTCTTTATCCCTCA
TTCCTCCCTTGTTTGTCCATCACCATCCATCTACCTACTCTCCATCTACCCATCATCCCTTCACCCCCCGTCCATCATGATCCATCCATCAGTT
TCTTTACCTGTCTATCCATCATCCATTGTCCACCCACCCACCAACCATCCATCCATTAAACAAATTGAACACATTTTATGTGCCAGGCACAGTC
TTTGGCTCTGAAAACAGCGGTGAGCAGAATAGACTAAGGCGTCCAGATGTTCTGTCTTCATGGAACTTAGGTTTCTGTTTGTCAAAGAGATGAC
AGTGTGGGATGAATGAGTAAAAACAGGCTGTTAGATTGTGATACGTATTTAGGAGAAAAAATAAACTAGAGAAGGATGGCCCACGTGTTGAGTT
TGGGGTTTAAATGAAGATGGGGTGGTTGAGGAAGGTGGTTTTTGAATGAAGAGTGGAACCCGTGAGGACCCAGTCGCCTCTCTCTGGGAAGGAC
GTTCGGATGAAGATGGGGTGGTTGGGGAAGGTGGTTTTTGAATGAAGAGCGGAACCCGTGAGGACCCGGCCGCCTCTCCCTGGGAAGGACGTTC
GGGGGCTTGTGCTGCTGTTAGGGGAGGAGGGAGGTGGGCAGTGAGGGGCTCACGGGAGCCTTGTTGGCCAGGTGGGACTGGGGCTGTCACTCC
AAGTCGCCCGGAGCTGTCCGGCAGCGTGGTCTCAGGGACGTTTGCTGAGGCCCGCTCCTTGGGGTCCGTTGGTCGAGGCCGGGGGTTGCTGGCC
GGCCCTGAGTTCATGGGTTTCTGCTTTGTGATGCCCAGCCCCTCATGCTCCCATCTGCTTCTTTTTCTCTCTAGAACACTATGGCTATGCATCC
TCCAACGTCAGCCCCGCCCTGCCGCTCCCCACGGCGCACTCCACCCTGCCGGCCCCGTGCCACAACCTTCAGACCTCCACACCGGGCATCATCC
CGCCGGCGGATCACCCCTCGGGGTACGGAGCAGCTTTGGACGGTGGGCCCGCGGGCTACTTCCTCTCCTCCGGCCACACCAGGCCTGATGGGGC
CCCTGCCCTGGAGAGTCCTCGCATCGAGATAACCTCGTGCTTGGGCCTGTACCACAACAATAACCAGTTTTTCCACGATGTGGAGGTGGAAGAC
GTCCTCCCTAGCTCCAAACGGTCCCCCTCCACGGCCACGCTGAGTCTGCCCAGCCTGGAGGCCTACAGAGACCCCTCGTGCCTGAGCCCGGCCA
GCAGCCTGTCCTCCCGGAGCTGCAACTCAGAGGCCTCCTCCTACGAGTCCAACTACTCGTACCCGTACGCGTCCCCCCAGACGTCGCCATGGCA
GTCTCCCTGCGTGTCTCCCAAGACCACGGACCCCGAGGAGGGCTTTCCCCGCGGGCTGGGGGCCTGCACACTGCTGGGTTCCCCGCGGCACTCC
CCCTCCACCTCGCCCCGCGCCAGCGTCACTGAGGAGAGCTGGCTGGGTGCCCGCTCCTCCAGACCCGCGTCCCCGTGCAACAAGAGGAAGTACA
GCCTCAACGGCCGGCAGCCGCCCTACTCACCCCACCACTCGCCCACGCCGTCCCCGCACGGCTCCCCGCGGGTCAGCGTGACCGACGACTCGTG
GTTGGGCAACACCACCCAGTACACCAGCTCGGCCATCGTGGCCGCCATCAACGCGCTGACCACCGACAGCAGCCTGGACCTGGGAGATGGCGTC
CCTGTCAAGTCCCGCAAGACCACCCTGGAGCAGCCGCCCTCAGTGGCGCTCAAGGTGGAGCCCGTCGGGGAGGACCTGGGCAGCCCCCCGCCCC
CGGCCGACTTCGCGCCCGAAGACTACTCCTCTTTCCAGCACATCAGGAAGGGCGGCTTCTGCGACCAGTACCTGGCGGTGCCGCAGCACCCCTA
CCAGTGGGCGAAGCCCAAGCCCCTGTCCCCTACGTCCTACATGAGGTGAGCCGGCAGCGCGGGGCGGGACGGGGAGGCGAGGGGAGGCGCGGGG
CGGGGCGGAACGCGGGGAGCGGGACGGGGGGCGGCGCGGGGCGGCCGTGTCTGGGGACGAGAGTCAGGACCTGGGTGGGCAGGTGGGCTCCTCG
TGGAGCTGGGAGGCAGAGTCTGTCCCCATGTCTGCCTCCTCATGCAGACTTTTCCTTGTGCGCCTCGCCTCTGCCTCCGTCTGCGCGTTTCCCA
TCTGAAGTCTCCAGATCCTCTCGGGCCCTGCTGATGGCCTCGTGTTCGCTCAGTCTCTGCAAACACCCATTTCAAAGAGGGTGGCCCTGCTGGC
GGTCAGGGCTTCCACGTGGGAATTCCGGGAGACGCCATCCGCCCCTAAGGAGGGCTCACACACGCGCAGTTTCTTCCTCGGGGAATTGCACGTG
CCTGGCCCCCCTCGGTGGTTGCCTGCTGCTCCCGCTTCCTCCCCTGCAGTAATTGCCTTCCCTGCCTCGGGTGCAGATGGGACCGCAGCTCAAC
AGTGCCCCAGAGCACCCAGTCCGCCACGCTTTGGAACAGCACGGCCTCCTGCTCCCCAGAGACGCCGGCTGTGGCATCAGGCTGGGGGAGCTCA
CGCGCCTTCCTTCTTTGGGTCCCAGGTTGTTGGTTTTTCTTTTTAACCGTGTGAGGGGCTGCTGGAATTCCGCTGGGTCCACTTAACCAGCTTG
GTGTTTTTATCTCTAACGAAACAGCTTTCCCAGCTGGTGGGCTGTGAGTGGCCCCTGAGAGTGCTTTCTGCTCTGGGATTTTATCTGAGGCAT
GAAAACGTCCGTGCAGGAGGTCGAGGGCAGTGCCCCATGGCCCGTGACGTCAGGGCTGCCGCTGTGTCCTCAGGAAGAGGCGTTTGCCACGCGC
AGCCCGGGGTATTCCAGGCTGGGTGTTTTCCTGTTTTTGTTTTTTTTTTTTTTTCGTCCCTCCCCACCCCCCACTCCTTTTTTATTAGCGAGCA
CTCAGGGGGCGAGACCCCGCAGAGCGGAGGGCAGGTGCAGCCCCCATGCCTGCAGGGTGAGGAAGGCAGGCAGTGAGGGTGCTCTGGGAGGACC
CGTCTCTGCTCTGCAGTCTCAGGCCATGCTTCAGCCATGGCTGGAGCACGCATGGACAGAATTAGAGCTACAAGCAGTAACAAGCCTCCAGGCT
GGGAACGAACCCACCCAAACCTCTCTGAAGGCTTGTGGCAAAGAAACAGTGTTAGAGCTGACAGTTCTTTGAGCAGCCCCATGGCTGATTCTGC
CTTTCTACTGGCGTGATACTTAGAATCGTCGTCAGCTGAGGTTTCGAGAGAAAGCAAGGATTACCCCTGATTTTTCTTGACTTGCAGTGGGCGC
ATTTACCTTTCTATCCCAACTTCTGTTTTTAATACATTAAGGTTTAAAAGGCTGGCGTATTCTAGGTGATCACAACGAGCCTGTGTCAGGACCC
GGATTGTATTTACAATAAAAATCCCATTCAGTTGGAGGCATTGGGAAAATTTAAGAACTGTTTTTGCCTGCTGTACTATCACTGTTATTGTTTA
AGTAAAAGTACAAGCGTAGTGGCACTGACTCTCCAGCCCACAGTCATGTACAACGCGCTTCATGGTCTCCAGGCTTACGGACGGTGACAAAGTC
GTCCATCACCGCGGAACTTCACTGAACTGGCGAGATAAGGGAAGAGTGATGTCATCAAGGTCCCAAGACTGGGACTTGGCATGAGGAGTGTCGT
AATGCAGTTGTGAACCTTTGGGTGAACCCCACGTATTTGTTTCCTGGGGCTGCCCTGACAAGGTCCCGCAGACGGGTGGCCTTCATAGCAGGAA
GGTTTTCTCGCGGGGTCCTGAGACTGGAAGCCGAGATCAGGGGCTGTTCTTTTGGAGGCTGTGAGGGAGCATCTGCCTGACCTGTCTCCCTGGC
TTGGAGGCGCCGTCTTCTCCCCATGACTCCTCATCTCTCCATCCACCGTGCATGTCTGTGTCCAGATGTCCCCTTTTGTGAGGACACTGGTCCT
GCTGGGTTGGGGCCACCCTGGTGGCCTCATTTGAACTTGATCGCTCTGTAAAGACCCTCTCTCCAGACACAGCCCCACGCTGGGCAGGACTCCA
TTATGTGAGTTTGCGGGGAGCACCGTTCGGCTGCCTCAGCCCCGGTCTTACTGTCGCAGTAAAAATGGCAGGCAGCCTTTGAAAGCGCAAGCTC
GTCCTGGTTCCTTCTTCGTCTCCTGGGCGGCAAGGTGTCCGCAGGGATGTCGTGTTCTGGCAGGCACAGCCCCTCCTGTCCACCTTGGACCTGT
GTTTGGTGTGGAGGTTGGAAAGCATGGGTGGCTGTTTATTTTTTCCTCTGCTTGGGGGTTTCAGGAAGAATTCCGTGCCCACGTGACCCTGTTA
GCTTTATCTCCTGGCTGCAGAGCGCCCAGTTAGGTGTGATGCCTGTAACATTTCTGAGTGTTCACACAAACAAAGCTCAGTAAATATGTCCCAA
ACTCGCTCCTGGGGTTTGCAGTTAACCTTTTCCCACTGTTCTGGTTCCACATCAAAATATGTTTCCTGGTTCCTTGTGCCCTGTTTCCAAGTGA
CCTCGTCAGCGGGTGCCCTGGGGCAGCTGGAAGCCACGGCAGAGATGAAATGTTAGTTTTTTACCAGCGAGGTGGAGAGGCCAGACTTCCTTCC
CCAGGAATGCCTCTCCGTCGGTCACATGCAGCAGCTCTGGCAGGCGTGGAAAATGTCACCAGGATCTCAGGCTGCACAACTAGAAAGCTGTATT
TTTAATGATCTCCAAAGTTTGGGATGGAGAATGCACGACATGCCCATCTTCTCCCCACCGTGGTACAGAACTGCTGCTCCATTAATCCTGTCCC
TATGCCAGAAGGAGCTTTCTGGTGGAAAGTGTGCTGTGTGCATCCTTCCCAGGGACCGTCTAGGATTGTTGTCCTTTGAGGCCTTTTGTTGCTT
GTTCAGCACCTGTGGCCCCCAGTGCTATGCAGAGCCTCTGAGAGGCCCACAATGGTCAAAGAACGATACTGAATTCTTGCTGCAATTGAAGCCA
TGATAATGTTTGTGAAGTTAGTAAGAGTAGGTGATAGAACCTTGATAGTTTTAGAGTTTGGAGCCATTTTAGAGCTCAGCGGAATGATGTGTCT
ATTGTCAAAGCTTGGGGGGACTGGCACAGGAATCACAGGCCACCTGCTATACCCCCTAAAAATTAGAATCTTAAGCTGTGAATTCTGGCATCAG
AAAGGAGTGGTTTTCTTCCCGCCTTGCTTCTTTCCAGGGGTAATGACGGTGATCATAGCAAGTGGCCTCCCAGGGCACCTTTCCGTGTGCTGTT
GAGGGTGCAACAGGAGGCGTTGCCGGGCTGCGTCTGGAGGAGGCCAGGGCGAGAGTGCACGTTGAAGGCTGTGCGGGTTATTTATAAATAGTGG
TTCTCAAATGGTAGCTTTTAAAGATTTCATATTGACCGACAGGAACTAAAGTCTACGTGATTGCTTCCTCATTCCTTCATCGTTCGGCCTCCTC
CACCTGGGCACCTGCCACAGGCCATGTGCGTCCATGTCCAGGTCTGTCTGTGCCGACATCTGCTCTTTGGGCATCAGCCTCTGGAAAGTGTCCC
TGTCAGAGTCTCCACGTGTCTCACTCTCCGCACCCAGACAGTCTCTGGAGTTGCCTTTGTAGAGGCAAGGTTGTAGGGGAATTGGAAAGCCGGA
GGTATTTTGACTGAATTTATTGGTAACTTTAACAGCACAATTCTTGAATTCAATTTCTTTTTATTTTATTTATTTATTTTTTTTGAGATGGAGT
CTCGCTCTGTCACCCAGACTGGAGTGCAGTGGCACAATCTCGGCTCACTGCAAGCTTTGCCTCCTGGGTTCACGCCATTCTCCTGACTCAGCCT
CCCAAGTAGCTGGGCCTACAGGCGCCCACCACCGCGCCCGGCTATTTTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTAGCCAGGATG
GTCTCGATCTCCTGACCTCGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCGCCCAGCCCTTGAATTCAA
TTTCTACACATGAAACATTGCCTCTTAGAACTGAATGTTTAAAAAGAATTTCTAAGGAGTGAGGTAAAGAAAAAGAATTCCTAAGGGGCGAGAT
AGGCTAATAAACAATGTTTACTTAGAGTCCGCTTGGTTTCAATGATCAGAAATAGCCGCTAGGTTGGTGCAATAACGTATATTCAAATCTCTTG
GCCAGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCAGCTGAGGTCAGGAGTTCAAGACCAGCCTGGCC
AAATTGGCGAAACCCCATCTCTATTAAAAGTACACAAATTAGCTGGGCATGGTGGCGGGCGCCTGTAATCCCAGCTACTCAGAAGGCTGAGGCA
GGCGAATCATTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCTGAGGTCGTGCCACTGCACTCCAGCCTGGGCGAGAGGAGCGAGACTCCGTCTC
CAAACAAACAAAAAAACCCTGTTTATTTCAGACATTAAGTTTTGGGCTGCAATATTGAAGATTTTAGCATATCGGTCACTTTTCTGCTATGCAT

AGTATTAGTTTCAAAAGGTCTGAGAAAACGTTCACTCTCTTGTGTTTCATAAGTTATCTGAAAGTTTCACAGTTTATCACAATTTGGAATAAGA
TCAGCTAACCCCCAGCACAGTAACAGGTGGACTCTGTCTTCTCTTTCGCAGACACGAGTCCTCTGCCAGGCTCAGTAGCGATTCCTCCTGCGTT
TGAATGCCCTTTGCTCTTGTGGCTCTGGTACCTGAGGGGTTCGGGCCCCGGCAGTGTTGGGGGAACAGTGCAGGCTTTTGACAGCTCCCAGGTC
CTGTAGTGGGGCCATCTCTGGGCTCTGGAGCCAGACTGTCCGCGGGCGCTGGTGGGCCCTTTGGGGTGATGGTGAACATAGTCTCTAAGGCGTT
GTACCGAACCCCAGCATAGCGAGACGTGTAAGGTGGTAGCCGTGGGGTCTTCCCCGAGCTTCCCGCTGCCATCACCTCCTGGGAAGACGGATAG
CAAAGAAGCCGAGGGTGTCGAGTTGCCCCATGGTTTGTAAAACACTGGCATGGGCTGGAACGGCTCAGGACTGACTGCCACTGCGTCTCCCTGT
AAGCCCCTCCCTTTCTGGGGAGGGAAGCCCCCCAACAACCCACAGCCAGCCTCGAAGCCACGTCGCCCTGGCTCTGGTTCCCGCTAACCCTTGC
TGGGGAGTCCCCCGCACAACCTGTCCTGCTGTTTCCTGCTGTTTCTGGAGCTAGACAAGCCTCAGCTGGCCTCCTGGCTCCCGGCATGGGTGTC
AGGCCCTGGGGAGTCTCCAGTCCCTCCTGTGGGTACTGGGCTGGGCTGGCTCTGAAGGGTCTTGAAGAACGTGGCTGTGTGCCTCCCTGGCATT
CGCGGTGGTGGCTCTGGAGCTTGCGTTTGGCTGAGCAGGCCAGCAGGTGACTCGCGCAAGCCAGACGGTCCCCAGGAAGCCCTCAGCTGTGGTG
GGAGATGGGAGATGGGCTATGGTGGGAGATGGGCTGTGGCGGGAGATGGGCTGTGGCGGGAGATGGGCTGTGGCGGGAGATGGGCTGTGGTGGG
AGATGGGAGATGGGCTGTGGTGGGAGATGGGAGATGGGCTGTGGTGGGAGATGGGCTGTGGTGGGAGATGGGAGATGGGCTGTGGTGGGAGATG
GCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NN

GGCCTGCTGCCTGGGGCGCTGGGATCCCACAGCGAGGCCCTGTTCCCACTGCCCAGGGGCACTGAGATCCCACAGGGAGGCCCGGTTCCCACTG
AGCTTGGGTTCCCAACGGGCTCCTTTTGCTTCCCAAGCACCCTCTCCCACCCTTGAGCTGCAAGGAATGTTTCAGAGCCATGGAAGGTGCTTTC
TCCCATCTGTAGTTTTTCTGGGAGGGAGAAAGGCTGACATCGGGGGCTTTGTAGAAAGCGTGCTCTGGCCCACACGTTAACATTTGGGAGGAGG
CCTACAGGGAGCTGTCGGCTCTGGGCGAGGGCTGGGGGCTGCCTCGGGGGCGGGGGTTCAGGGTCTTGAGCTCAGCTTCTCACCCATCCGGGGC
AGGGCAGGGCAGATAGAGGGGTGGGGACAGTGTTGGGGGCTGCTGGGCCTGGGATGGCAGGGCCTGTGTCCAAAGCTGTTGTGAGGCTCACGAG
ATACAGGGGTGGACCTGGGAGGGTTGGGGCGCGTACAGAGGGGATGACTTCGATTTTTCCAAAGAACAGGGAAGGGTCTGTGTCCTGGTCGTAC
TCCAATCCCGTGTGGTGGAGCCACGGGACGCCATCAGTTTTTATGAAATCCCCAAATGTGTCCTTTAAAACAAAACCTCTGCACTCCGGCCTCA
CAGCCCAGATCCCGCGCGCTCCCGGTCTGTGGCTTTGACTTTGGTTTGAGTTCCTGGGCTGGGCTTACCTGGCTGGCAGGGCCGCAGCTGTGGC
ACTCCCTGTCTGGGGACGGAGGCTGCCCATGCACCCGGCTGTCCACCTTCTTCCCAAAGGCGGCGTCCTGGGCTCCCTCCCATGCGGACCCGGG
ATCCACTTGCCCAGCCTTGGGGAGGACAGATGGGGACAGCAGATCCTGCCCCAGGGTCATTGCCCGTGGCCACATCGGTCCTGGGAACTGTGGG
TAGGCCATGGGCCGCTGGTGCCTGCACCACTGTCCTGGTGGAAGGGGCTGGACCTGGGACTGCCTGGGACAAGAGGCCAAGGCACAGATGGCTG
CAGGGGCTGCCCCTGCATCCTGAGCCTCACCCGGCGGGCAGGAGGGCCGGGCTGGGTGTCCCCATCTTTCTGTTCCCACCCTGGCCCCAGTCAC
CTGCTTCTCATCCACCGATTCCATCTTTCCTGCTGGCTTGTGAGGCCCGTGCCCTCCTCTGGGCCGCCTTCCCTCCCATGGGCACAGAGCTTGG
GTCCCACGTGGAGAGGAGGCCCTGCCCGCAGCCTCAGAGTCAGGCGGCCTTGGCTTCAGGGAGGGTTGGACGGGAGCCAGCCCATTGGACAGTA
GCCCGGGGCCTCTGGGTGACCCTCCAGGGTGGGACAGCAGTGGTCCCAGGCCCCCCTCTGACTCCTGAAATCCTAAGGTTGCCCGGGCCGCCGA
GCCCTCCCTCCACTCCCCGGCCTGCTGGGCAGGATTTTGTGAAAGGCCTTGTCTTGGGTCGTGGAAGAAAACCACGTGGTCTGTGGGGTCATCC
CTGGGGCAGGCTGTGGGAGGGTGAAGGCTGCGTCCAGCGGCCAGGCCCAGCCAGAGGTCGGGAATCATGTCGGGGGTGACGCACAGATGCCGCC
GCACTATCACCGAGAAACGCGGCGTGTGCGGGCCCACCTGGCCTCTTTAGGCCGGGCTCCGGGCTGCCCTCCAGGAAGGCCGACCTCTCCTGGG
CGGGCAAAACTTTCTCAGGGCCGAGTTCTGCCGGCACAGGTCAGGGGGCAAAGCTGGCCTCCGAGGAGCCTCTGACCGCTGGCCACTGTGTGGT
CTTGGGGCAGCTCCAGACACACAAGCCCAGAAGACCCAGAGGCTGCCTCACGTCGGAGAAATGCGCTGATCGGTCTCTCTCTCTCTTTGTCTCTC
CATCTCTGTCTCTCTCCGTCTCTGTCTGTCTCTCCATCTCTGTCTCCCTGTCTCTCTCTCTGTCTCTGTCTCTCTGTCTCTGTCTCTCCATC
TCTTTCTCTGTCTCTCTCTGTCTCTCCGTCTGTCTCTCTGTCTCTCCGTCTGTCTCTCTGTCTCTCTTTCCGTCTCTGTCTCTCCATCTCTGTC
TCTGTCCCTGTCTCTGTCTCTCTGTGTTTCTCTGTGTCTGTCTCTGTCTCTCTCCGTCTCTGTCTGTGTCTGTCCCTGTCTCTGTTTCTCTGTC
TCTCTCTGTCTCTCTGTCTCTGACTCTCTGTGTCTGTCTGTCTCTGTCTCTCTCCATCTCTGTCTCTCTGTTTCTCTGTCTCTCTCTG
TCTCTCCATCTCTGTCTCTTTCTCCATCTCTGTTTCTCCATTTCTCTGTCGCTCTGTCTCTCTGTGTCTCTCTCTGTCTCTGCCTCTCTGTGTC
TGTCTCTCCGTCTCTGTCTCTCTGTCTCTCTGTGTCTATCTCTGTGTCTGTCTCTCTCTCTGTCTCCATCTCTCTCCATCTCTCTCTCCGTCTC
TGTTTCTCTCTCTGTTTCTCTCTCTGTCTCTCCATCTCTGTCTCTCCATCTCTCTGTCTCTGTCGCTCTGTCTCTGCCTCTGTGTC
TGTCTCTCCGTCTCTGTCTCTCTGTCTCTCTGTGTCTCTCTCTCTGTCTCCATCTCTCTCCATCTCTCTCTCCGTCTC
TGTTTCTCTCTCTGTTTCTCTCTCTGTCTCTCCATCTCTGTCTCTCCATCTCTCTGTCTCTGTCGCTCTGTCTCTGCCTCTGTG
TGTCTCTCCGTCTCTGTCTCTCTGTCTCTCTGTGTCTCTCTCTCTGTCTCCATCTCTCTCCATCTCTCTCTCCGTCTC
TGTCTCTCTCTGTTTCTCTCCCTGTCTCTGTCTCTCTCTCTGTCTGTCTTTCTTTCTCACTCTCTTTCTCTTTTAACTAAGGGAAAAGCCGTCACA
CAACCAAATGGCCATGAGGCCCGCGGCTGCCGGCTGAGGAGGGCTGCGGGAGGACCCTGAAACCCTCGCCCTCCTGAAGCTGCTCCTGTGGAGT
CCTGTGGGCGGGTGTGGCCCTGCCGAGTTCAGAGTCTGTCGCTTCGTCTGTCTGGAAACTGCAGGAGTCATGAGCAGCCTTCACGGTTTTCACC
TAAGCAATGAGCACGTGCGGGCTTTAACCCTCGGAAAATCAGAATTAAAGGATTTTACCCAAACCACTTAAACAAAGGAACTGCCTCTGCTCTG
GGCTTCTGCTGCCGAGGGCGCGATTCCGGGATTCTCATCGTTCACCGGCGGAGTCGGGGCGACTCATGAGGAGAGTGTTTTCAGATGCTGGGGA
CGTGGCCTTTCTAAGGGAGAGGGACATGGCAGGGCCTCAGGCTCAGCTCTTTGGAAACTGAAGCCCATTCACCAGGTGGGCGGGGGAGGAGCTG
GGCAGAGGTTGAGACACAAGACCTGAGAGCAGAGCAAAGTTTCTCATTTTTTTGGTTGTACAAATAACAAACACCGTTCACTGTAGAAGACTTT
TAAACACAGATAAACCACGATAAATGAGTCCTGCACCAGCGTGGCAGCTCACACCTGGAATCCCAGCGCTTTGGGAGGCCGAGGCACCAGGATC
GCTGGAGCCCAGGAGTTTGAGACCGCCCTGGGCAACATGGAGAGACCCCATCTCTACACAAAATATAACAATTAGCCAGGTGTGGTGGTGCGCC
TGTGGTCCCAGCTGCTCGGGAGGCTGAGGTGGGAGGATCCCGTGAGGCCACTGCACTCTAGCCTGGGTGACAGAGCGAGACCCTGTCTCAGAAA
AAAGAATTCGATAATCCTGCGATTGAGAATCAGACAGTGATCATTTCAGGATATGTCTTTTTTTTTTTTTCCTCCCCCCTCTGTCCCAGCGCAGA
CGGCATCTCTGTCGCGAGCTTTCGGCTGAAAAAAAATCCCTCACGCCCTTCCCAGGCGAGGGAGACACAGGTTCAGGGGCATGAACGGCTCCTC
CCGTGGAAAGGACTGTGTGGCCGGCTCCCCAGGCCACGGGGGCCACTGTCCTCCATGCCACGTCCCATGCCGCTTCCACCGCAGCGTGAGGACA
GCAGGACCTGAGCCACGAGCCACACTGCTGTGGGACCCGTGTCGGGACTCGCAGGGCCTGGCAGGTGTTTCCATTTGACCTGTGGGCTCACACT
CGGCAGTTCTGGGCCCCCTGGTGTCCACCTCCATGGGAGCACCGTCCCCGGACCCCCAGAGGGGCGGCAAACACAGGAGTCCTGGGGAGTGTTG
CCGGGGCGGGAAGCCCGGACCCCCCTGTGACTCAGCTGCAGCCTCTCTGGGTGTTGCTGCGGGTGTGGAGGTTGCATCTGGCTCAGTGAGAAGC
ATTTTTAAACTTGATTCTGCAGCCACTGCAGATTCGCGGGAAGCTGGGGGGGAGGCAATGCCCCACCCGGCCCCCGGGGCTGCCCCATAGCAGCC
ACCATGCCCTGGCCCCAGGCCCCAGGAGGAGGATCCTGCCGGGAGCGCCTTGCATTTTGCCTAGGACCTTCTTAACTCTCCAGACTCATCAGGG
AAGCTCTGCAGGAGCTCAGGATAAACAGGTCCTTGGCTTGAAGCCTGCCGGCATGGGTTGGGAATGGTGGGGGCTCCATGTCTGCAGCAGCCAC
GGCAGAAGCTGTGGCCACATGAGCTGGGCTCTGGGTGCGGCTGTGGCCATTGAGGAGGGAGCATGTCCCGGGTTCTTAGGTTAAGTGCGTCTTG
GCAGGGGGGCCCGGGGCTGCAGCCCTTCGTGTACCCACGTGTCCGATGTCTCTGTGCCATGCCGTGACGTTGTCCTTCACGTAAAGTTTTCAAG
ACCCACGTCCCATTGTCTGTGAAATCACAAGGTTTTACTTTATGGACTGTGTGGAATGGACCCAGGGAAGGGGGACCAGTATATGCCCAATTTG
CCAGCATGTGCAACAGTGAACTTCCCTGGACAGCTGGCCTTGGTGTGGCAGTGGGTGCTGTACGGCTGGCCTCTGTGCAGTGGGTTGGGGGGAG
CTGGATGGCTGGCCTCTGTGCGGTGGGTGGGGGGGAGCTGGACGGCTGGCCTCTGTGCGGTGGGTGGGGGCTGTACCACTGGCCTCTGTGCGGT
GGGTCGGGGGAAGCTGGACGGCTGGCCTCTGTGCAGTGGGTGGGGGGAGCTGGACGGCTGGCCTCTGTGCAGTGGGTCGGGGGGAGCTGGATGG
CTGGCCTCTGTGCAGCGGGTGGGGGAGAGCTGGACAGCTGGCCTCTGTGCGGTGGAGGCTGGACGGCTGGCCTCTGTGTGGTGTGGGGGCTGGA
TGGCTGGCCTCTGTGCAGTGGGTGGGGTTGGGGGGGTGCTGGACGGCTGGCCTCTGTGCAGTGGGTGGGGGGGTGCTGGACGGCTGGTCTTTGT
GCAGTGAGGGGGCTGGACAACTGCCCTCTGTGCAGGGGTCGGGGGGAGCTGGATGGCTGGCCTCTGTGGGGTGGGTGTAGGGGGAGCTGGACGG
CTGGCCTCTGTGCAGTGAGTCGGGGAGGGGGGTGGCTAGACAGCTGGCCTCTGTGTGGTGGCAGGGCTGGACAGCTGGCCTCTGTGCAGTGGGT
GGCGGGGGGGTGCTGGACGGCTGGCCTCTATGTAGTCGGGGAGGCTGGATGACTGGCCTCTGTGCAGTGGGGGCAGGCGCTGGATGACTGGCCT
CTATGCAGTGGGTCGGGGGGCCTGGACAGCTGGCCTCTGTGCGGTGGGTTGGGGGGGCCTGGACGTCTGGCTTCTGTGCGGTGCGGGGGCCGGC
CTCGGGCCGGTGGGCAGGCTGGAAGGTCAGCCAGGCCCTGTGGTGTCTTTAGTGAGAAACAGGAAATAAATCAAGGGGATGTTGTAGAAGTTTT
ACCGCTGCTGGTTTAGAAGTGTTTGTTTTTATTATTTGTATATAATGTGTTGTTTTCAGTCTTGCACTGGTGTTTTTAACTATCGTGTAAAGAT
GCAAACAGCAGGCCAGAAAACTGCCTTGATATATCACATTGGCAAAGACCAAGCGCACCCGGACCCTAGTGGGTGAGCCGGACCCATTGGCAG
TGGCCTTTGTGGTGCCTCCAGGGAGCCTCACGATGCTCACGCCTCTGACCAGTGGTTCTGCGCTCAGGGCATGACCGGAGATGTGGTCTGGGAG
TTGGTTGTGTGGATGTTTGCGTTGCCAGCGTTTACAACAACAGAGGGGAACAGCCCACAGCCCAGCAGTACAATGAGGATGGTCCTTGTGATAA
ATGGGATGCTGTGATTAGATTGTTTCTGAATAAGCTAAAATGCTCAAAATGTGATCTTTCTTTTATAAAAAGGCCAGGTATGGTGATACGTGCC
TGTAACCCCAGCACTTTGGGAGGCTGAGGTGGGAGGATCCCTTGAGCCCAGGAGTTGGAGAATGCAGTGAGCTGTGATCACACCCTCTAGCCTA
GGCAGCAGAGCGAGACCTTGTTCTAAGAAATAAAAAGAGAAAAAGAAAAGACAAAGTACCAAATTATGTGTCTCATTTTCTTAAGATGTATCAT
TTTGTAAAAATGTTTATAGAAATACACCCAGTGGGCTGGGCACAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAAGCGGGCGGAT
CACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACTGTGTCTCTACTAAAAATACAAAAAATTAGCCGGTGTGGTGGGCGC
ACCTGTACTCCCAGCTACTCTGGAGGCTGAGGCAGGAGCATTGCTTGAACCTGGGAGGCGGAGGCTGCAGTGAGCCGAGATGGCTCCACTGCAC
TCCAGCCTGGGCCACAGAGCGGGACTCCGTCTCAAAAAAAAAAAAAAAAAAAAATGGAGAGAGAGAGAAACAGAGAAAAACACCCTTTGGCTCTG
TGGGCGTCGGTCACCGTCCAGACCGGGTGGACGTTCGTCGGTCACCATCCAGACCAGGTGGATGTTGGATGCAAATTTCACCCGAGCTTTTTTT
TTTATTTTTTCAGTTGTGTTGAGTGTCACTTTTTTAAAAAATTGACTTATGTTGAAGATGAGTTTGAAGTTGTTGGAATTATCTCAGTCCTGAG

CTTAGGGCTTCAGCAAGCGAGTTGCCGTTCCGGGGGATGGGCTGGTCAGAGACCCCCGACTGAAGCACGCCTGCCCGAGGCTGCCCCAGGCGTC
GTCCCCCAGAAGGAAGCACGCGGAGTGGAGTGGGGTGGAGAGCAGGCAGCAGCGGTCCCGTCTCCGCAGCAGTGCAGGCTCCTTTCCCGCTCAT
TTGGGCTCTTTTGTCTGAACCAGAGACACAGATTTGTAGAGCTGCCAAATTCATGCTGAAAATTTCTAACCAAAACCAATCATCTTAATTGTCT
GGATTATGATATTTATTTTGTAAACCATTCTTGCTGTAAGCCATGCACACACTGTGTCACTAAATCTGCAAATGATTCCAGAGCCAAATGCAGT
CCTGCACCGCGGCGTCGGGTCAACGGCGGACTTCACCTATGAGGGTTCTCGTGAGATCGTGAGAGCGTAGTTTTACTGCATCTTTTCCATGTTT
AAATGTGTTTAGATTCACAAACTGTGACCGCTGTGGGGCAGTCACCCACGGTGTTCAGTGCAGCCACATGCCGTGCAGACGTGTACTGGGGAGC
CGTGGGCCACGCCACGTGGCTAGGGTGTGCACTGGACACACCGAGTCGGTTCACACGAGTTCCCACGACGACAAAATGGCCTAAGGACGCGTTT
TTCAGAATGTGTCCTTGTCATAAAGTGACACGTGGCTGCGTTTACACAAACTTATTCTTATGTAATAGTCAGCTGCAGAGTGGTTTAGACTGCC
TTATCTTTAGGAAATGTGTCTGCCTTTAACCAGACCAGCGGTGGGGGGAGGCGGCTTTTCTTTTCTTCTTTCCTCCTCTCCTCTCTCTCGCT
GTCTCTTCTCTGTCTCTTAACTTTCCTGGGAATCCAGTGAGCCCAGTTTTTTCACTGTGAATTTTGTTTTTGGTTTGTTTGTTTTGAGATGGAG
TCTCACTCTGTTGCCCAGGCTGGATTGCAGTGGTGCAATTTCGGCTCACTGCAGCCTCCGCCTCCCAGGTTCAAGCAATTCTCCTGCTTCACCC
TCCCAAGTGGCTAGGATTACAGGCACTCGCCACCATGCCCAGCTAATTTTTGTATTTTTAGTGGAGACGGGGTTTCACCCTGTTGGCCAGGATG
GTCTTGGTCTCCTGACCTCAGGTGATCTGTCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGCCCGGCCATGAATTTT
GTTTTTCATTTGTTTCTTTTTCAATTCATAGCAAAAGATAGGTGCAAGGTGCCTGAGACGGGCACCGCCTCGCATCATCTGCGACTTTGTTTGG
TGCCTGCCTGTCCAGGAGCAGGTGTGGCCACTGCAGAGGGGCCCTTCATTGCCCAGCCCTGCAGCTGCCCCCTCTCCCTTCCCCAGAAACTCAC
AGCTGGCCGCGAGCTCTGTGCAGAGAAGTCTTTCTCTGGAGGCTCTTGTCCTTCCTGTGTGGAGGCCTGGGTCCAGCCGCCTTTCCTTCTGCCT
GGCAGCGTTAGCTGATACTGGGTGTCCATGCTGATCACCTCACGTGGGAAACAGCTCTGACAGTACAGCCCATGAAGCTGCGTCTTGGAGATTC
CTCTGTCAGGGAAGCTGTCGTGGCTGAGTTGGGGTCCAGCAGGCACCCGCAGGGCCCAAAACCCACAGAGCGGAGGTGGGTGGTGAGCCTGCC
AGGTGCATCTTTGGATAAATCCATTTCTGAGTTTTCAAATTACTATGAAGCTTCCAATGTCACAAAATATGTAGTCTTGTTCTTGCTAAGGAAC
ATTTTAGGTGTTTGTATTTTTAAAAATTACGTAGTTGATTCCATTCAAGCTGCCTCCTGGGCTTTTTCCTCTTTAAACGAGTCTTCTATTCTGC
CCATCGTTTTTAGTTTGTTTGTTTTGAGACAGAGTCTTGCCCTGTCGCCCAGGCTGAAGCACATGCGATCTTGGCTCACTGCCATCTCAACCTC
CCCTGGCTCAGGCGATCCTCCCCGCTCAGCCTCCTGTGTGGCTGGGATCCTCCCCACTCAGCCTCCTGTGTGGCTGGGATCACAGATGTGCACC
ACCACGTCCTGCTCATGTTTTTATTTTTTGTTTCGTAGAGATGGGGTCTCTCCATGTTGCCCAGGCTGGTCTCGAACTCCTGAGCTCAAGTGAT
CTGTTCCCCTTGGCCTCCCAAAGTTTTGGGATTACAGGCATGAGCCACTGCGACTGGCCTTGTTTTTGTTGTTGTTTGTTGTTTTTTTTTAGAT
GGAGTCTCGCTCTGTCGCCAAGGCTGGAGTGCAGTGGCGCGATCTCGGCTCACTGCAACCTCCTCCTCTTCGGTATAAGCAATTCTCCTCCCTC
AGCCTCTCGAGTAGCTGGGACTACAGGCCTCCGCCACCACGCCCGGCTAATTTTTGTATTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAG
GATGGTCTCAATCTCCTGACCTTGTGATCCACCCGCCTCGGCCTCCCCGAGTGCTGGGGTTACAGGCGTGAGCCACCATGCCCGGCCCTTGTTT
TGTTTTTAAGTCACTTTGGGTTCACAGTGTGTCCTGAGGTGTGGGGGCCTTCGGGGGGCTCGGGAGGCAGTTTCCTTTAACTTGCAGATGCCCC
TGCTCTGCGACTGCATCGCATGGAACCTGCCCTTCTCGAGAAGCTGCCCCGCATGTCCCATGTCTCTGGGGCTTGTACTTAAAACTGACGTAGA
ATGATGGTCAGCAGCTCTAGGCAATAATTGAGTCCTGGCCAGAGGGGCTGGTTCTGAAGATGGGGGAGTCACAGGCCCTGTGTGGAGGGTGACC
TCAGGAGCCCCGGCCCACGGTGCTCGGGGTGAGCCTGTGTGGTGAGGACAGTCGGCGGGCCCTGGGTCTCTGCCCACACGGAGGTGAGGACGGT
CGGCGGGCCCTGGGTCTCTGGCCACATAGCGGTGAGGACAGCCGTTGGGCCCTGGACTGCCTCTGCCCACGCAGGGTCTTGCACCTGATCTGAT
GAGCAGTGCTGGTCCAGGGAGGGTCCCACCGCATCCTCCGCCTGCCTTGGCCCCTGCAGTAGGCAGTGCTGGGGAGACAGACTGAGCGGGAGAG
GAGGCTGGGCCGGGGCTGCAGCGGCCACAGAGCCTTGGCCCTCCCAGAAACGGACTCTGATGGCAGAGGCGCCGGCCTCTTGCACAGGGTGGAA
GGTGGTGCCTGCGTGGATGGTGGTGCACCGGGGCAGGCCACCCCCTAGATGCAAGAACCCCTTGGGTGCACCGTGTGGCCCCCAGGAGTGTTGA
GACAGTCTGCCTGGGCCTCCTACAGAACACAGTTGGGAAGACACGCCGAGGGCACGGGCAGGACCTCACCTTAGCCTTTCACACCAAACATTCA
TCTCCTGAAAAGACAGGGGCCGTGGGGCCCCCAGCTGGGCTGTAGGCTCTGAGGACAGCCCCAGCACCTGTCACCCGCCAGGTCATGCAGCTCG
TGTCCCTCTGTGCAAAGTAACCGAACAGCCTCCCACAGCCCTCACCGTCGTACCCCGCCCTGCTGCGTTTGCTCCCACCGCCCTCCATGGACGC
CGTGTCCCTCCTCCTGGCCCTCAGTCAGGGCCTTCTGTTTGTCTTGCAGCAATCATGGAATTTGGGGGCTGGCGGCGCTGCGCACATCACAACT
TCCAAACCCACTATTTTATAAAGGGCCCAGTCAGTCACCTGTCTCATGGCAGCCACACAGCTGGTTCATAGCGAGGAGAGGTTTGAGCTTCCTG
GTTCTTAGGCCACAGCCCATCCCTCTTAGATTTTAAAACAGATTTTCAATGAGTTCTAAAACCTGTCTTACTGGAGGGTTAAGTAACTGATAGA
AGCCTGTCATGAAGGAAGAGAAGCGTGTTAAGGTTGTGCTTGGAAAATGTTTCCATCTTAGAGAACTGGCCGGGCCGTGGCCACAGGTCACGAT
GAGTAAGCACTGCATTGACACAGGCTTCTCCATCTCCATGTCAGGACGTGCACTCGCCGATGAAGTGTCCACCCAAGATGGCGACGGGTGAGCA
CGGGCACGTGTGGCCCGGGCGAGGTCTGTGTGGTGCTGAACGCCTCCTCTGCTCTGTTCCCTTCCAGCCCGACCCTGCCCGCCCTGGACTGGCA
GCTGCCGTCCCACTCAGGCCCGTATGAGCTTCGGATTGAGGTGCAGCCCAAGTCCCACCACCGAGCCCACTACGAGACGGAGGGCAGCCGGGGG
GCCGTGAAGGCGTCGGCCGGAGGACACCCCATCGTGCAGGTAGGCACTGCGGCCAGACTCGCACGTCACTTGGTGCTTTTGTGGTCAAAAAGTA
ACTTTGGAGCCACAGCTAACTGTGCTTAGACTCTCCCAGCCAGGCCAGCTGAATGCTCTGTCGTGGTTAGTCCCGGGCGGCTGCTCACCGCCTC
TGAGCTGGAATGGGAGCATGCCACAGCTCCTCCTGCTTCCACACGTGCAGGCCCTCTCTCGTTGTTTTCAGATTTGCCCGAAGCAGCTCTCGTA
TCCGTGGATGCTGCCTGTGGTGTGGATGTTTTGGGGGTTGATTCTCCCCTCTCTAAAGCCTCTGAACTTGGAGGCAGGAGTTCTCACCAGCAGC
ACCAGCCTCGCCTGGTGGGGGACCCTCAGAAATGCAGGTTCTGTGGCCCACCCAGGCTTGCAGGATCCCATACTCTGGGCTTGGGTGCTGGGGG
GCACCAGGGCTCAAGGTGCTCCCCGAGGAGAGGAGGAGTGGCTTCCAGAGCGGGCCTGGGCCTGGCAGCCACATCCCTGCCGGGGTAGGCCTGG
GCCTGGCAACCCTGCAGCCGCGTCCCTGCTGGGGTGGGCCTGACTCCCCCGGGCTGTGGTGTGGCTTCCTCACCTTCCTCACACCTTGCGGGAA
AGCCACGTGGAGTTAGGCTGTCGAGGGAGGGGTGTAATGACCGCGCCAGGGACGGGCAGCGTCTGCACAGAGCCATGCTCCCTCTGCACCCCAG
GTGTTGATGTGGATCCCGGGTAGCCGTGGGTGTTGGCATTTTCTTCGTTCCACCTGTTACCTCGTCAGCTATAGGCCCCAGGCCCTAGATCTGC
TGCTTTGGCAGCCACAGAGCAGCAAGTGTGTCCAGCCCCAGGGCTCCAGGCTACGCGGCAGCACAGAGGATGTTTTCCGAGCACACCCCAACAG
CAAAAAACCGGGTGCCCCAGCCCCGTTATTTAGGGAATGATGCAAGCCGGAAGGGGTGTTCAGCAGAGTGCCTCGTATTTTTATTTTCTTCCAT
TTAGATAAATAGTGGAGAGAAGGTGGCCGCAGGGACAAATGGCTGTTTGCCAACGCAGCAGCCGGCGGCAGGGAATTAGCGGGCAGGGCGCTGG
GGTGAGGCGTTTTCGCCAGCACTTGCAGATGATGTTAATGTGATGTTTGTGGCCTGTGTGCTTGATGCCAATTAGTACCTCCCTCGTTGGTGCT
TGAAGCAAGGAAATGCGGGAGACACCTGAGCGCACAGTGGCCCGTTTGACATTTAAAGTCTCCACCCTCCCAGGTGGGAAAGGTCAGACAGCGC
TGCACCACGCTCCGTCACTGCAGGCCTGCACCTCCCCATCCCTGCCTCGGTTTTTACTGACCGAAAGCTTGTTATTGCTCAGTGGGAAGGATAT
TAGATAGGACAAGAAACGAGGCTGTGAAAGGAGGAGTGGAAATAAAGCAATAGAGAAATAATGGCCCAGTCCACCCTATTTGCTGTAAATTATG
TCGGTGAGGGGCACTGACGTCGCCCTTTTCACTGTATCTGGATGAGGGGCGGGTGTAGGAATCGAGGCTGTTACTTGGAGGGTAAAGCAGGACC
ATGAGTGTGGAGAGAGCTCTGAGGTTTCTGTTTGTTTTTGTTTTTTGGTTTGTTTGTTTTTTTTTTTTTTGAGACGGAGTCTCGCTCTCACCC
GGGCTGGAGTGCAGTGGTGTGATCTCAGCTCACTGCAACCTCTGTCTCCTGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGA
CTACAGGCAGCCCTGGGTTTTAATGGATGTATTTTCACCTGCCTGTGAGTAGCGCCGGTGCCTGGTGCCGCCCGTCTCTGCGGACACAGCTCAG
TGCTTGGGTACTCTCCCTGCGTCTTCTGGAATCTTCTGGAATCCCGTCTCTGGTTCTGCCATCTGGGTGTCTTGGGCTGAGGGTGCAGAAATCT
ATCAATACAGATGCCACTGAGAGGATCCAGGTGTTCTGGAGGACTCAGGAAACTTGAAACAGTAATTAAAAATATCTTTAAAATGTACCCTCAA
CAATTATTCCAAATCAAGTGGCCCGTGTGTGCGCAGCAGCGACACGGGAGAGGCTGGCTCTGCGTTTCCACAGAAGGAGCCCTTTCCATTGAAA
CGCGGGAGAAAACGGTCCCCTGCACGGAGAACGTCAGGAGCTGTCAGCATATCTCATTTGTAGAAATTAGTAATTTAAAGAGTTTTGTGATGTA
TCTGTGGCAGAGTGGATTTCTGTCTCTGCAAGTGTGAGGTAAAAGCAGCTAAAAAGAGGGGGTTTTGGGGGTTAGTTTTCTCTTTCAGTTGGTG
GACCACAAATTGGATAAAAATAGAATTTGTGCATAATTTAAAAACAAACGAGAATAGAAAGCTCTCAGTTGCCGTGGAAGCTCCTCGTAACCGC
AGACGTGCCCTCGGTGCCGTCGGGTTATTTTAGTACATCCTTTGACGCGGCCCCTTTCCCGCTTTTCAGAAACGAGGCTCATCGCACTGGCCTG
GGGGCGCGAGGACGAGGCCGTGGGTAGTGGGCGCTGCGGGCGGCTGGTCAGAGCCACTGGGAGCCGTTGGGAACAACTGGCGCGGGAGTTTCCT

GCATTTGAGAAATGCTGTTCTCTTCGTTGTGAATCGTCTGTCCGCTGCATCTCAAAAAGCTTGTCCAGAAAATTAAAGCCCGCTGTCTCCTGCA
GTGCAGCTGAGCCCTGGAGGGTGGCGGGGGGCCGGGGGATGTGGGTGTCAGCTCTCGCGGCCAGGGGCACGCTGTGCCCCCGCGCCCGGTATCC
CCGTCCTCCCGCACCCGGCGTCCGCGTCCTCCCACGCCCGCTGTCTCCGTCCTCCCCATCCCCATGTGTTTCGCAGTTGGGAAGTGAAGCACGT
GAGCAGAACGCAGCACCTTCTCTCCAGGAAGCATTCGGAGCATGGACTCTGGGTTAGGAAAGGGTGTTTGCTCCTCTGGATAGGTGCTCGCTCT
TACTTGTGGGTGCTGAGGGGCGTGAGGGGGTCCGGCATCCGGGTACCTGTGGGCGCTGAGGGGCGTGAGGGGGTCCGGCATCCGGGGCTTCTCC
CATTTAGGGCCTTTCCTTCAGAGGGAAGGAGGCCAGCCCCCTCCAGTGAGCACTGAGCGTGCCCCCTGCCGTCTCTGTGGGGATGTCATTGTTC
CCACGCCGGGGAGAGACCACCCCAGGCCAGCCCCTATTCTTCTGGCCACATTGCCATGATCACACCGTCCGCACCCTGAGGCCACCCCCATTAC
GGCTGCCACGGCGCTAAAAACACCAGCATCAAAGCAACAGGGCCGTGGTTTAGCCTGGAAGAGCGGGGCCCTGGAGCCGTCTGCGAGGGGGTCT
GGGTGGTTCAGGATGGCCGGCAGCCCCTGGTGGACGTGGTCCCTGCGGGGTCTGGCGGGACCTCGGCCATGGTGATGGGTGCGCCCCCTCTGCA
GGGTGGGGCCTGCGGGTAAGGACAGTCCCGCCCCCTGTGCGTGTGAGGGGATAGTGGAGAGAGGGGTCTGGCGTGGGCCTCACTGCTCCTGGGA
AACCAAAGATGAAGACGCCTGCTTAGGACTCACCTTGCCCTGGTAGAACAAGTGACTCAGACAGAGCCTCCCAGAGGCTTCTGGCCAGGCAGGG
AGTGACCAGCAGCGCAGCCAGCCTCAGCTCCTGCCCACACAGCCCCCTTGTCACCGGCTCCTCCTGCCCCTGCTCCAGCACCTTGGCCACCAGT
TCTCGGTGGGCCGGTCTGGATCTGCCGATGCCGGGACCTCGCCAGGCCGCTGGTTGCAGGGGAGGCTGAGGGGGCGTCCGCCTGCTGTCTGCTT
CTCACCAGCATTTCCAGTGAGGCATGAAAGTGATGCGTGGCGGATGTTTCCCTCTGGCCTCAGCTTTCCCCCAAATCCCAGCTCACACTGAGTG
TCCTGATGGTGGCACCTCGGGCAGCCGCCACCCTCTGCCCTCCACCCTCTGCCCTGACGGCAGGCTCTGCCTGAGGGGGAGGGTCTCTCTGTAC
ACACAGTCTCCTCACCCTGGAGGGCCTGCTCTGCTCTCAACGGAGCTGGAACCAGGAGTTCGCGAGTGCTCTGGGTGGCTGCTGGCTTTTCTCC
TTGTCTCACCTCCTCATCCGCACACAGCCTCTGCCCTCAGCGCTGCTCACCTCGGTATGTAGGCAGCCGGCATCAGGATGGTCTGGGGTGAGAC
AGGCAGTGTTCTTCCCCTTCTCTGGCCAGGGAGGGTGGAGAAGCACCCGGGCACAGCCATTGAGGCCTTTTCGTGCAACTCATTGCCTTTCTGG
GCGTGAAGGTGGAGGCTGGTCCTCCACCTGCGTGTTCTCCATCTGGGGGACTGTGGTCCCGGAGGAGACCTGGAGTCCGGCTCCCCGCTCCGTC
CGAGGAGGAGCTGAGCGGCGTGAGCAGTGCCCGCCCTGGTCACTCTGCCTTGCTTTCCTCCTCTCTGTTTCTGGTTGTGCCTCCTTCCTTCCCT
CCTGCTCTCTTTGCCGTGGACTGCAGCCCCCTCGCCAGATGTGTTCCTCACATGAGTCAACCCGTCCTTGGCCTGCGTCCTCCACTGCTCGTGG
CAGCTACACTCTCCCGGAGGTGGCCGGGAAGGGCCCAGGGCCTTGAGAAGATGTCTTTGCAGCACGTCCCCGGCCCTCGGCCTCCACCTCCATG
GCACCCACCATCCCACGGGGGCACGTGGACCTCTGTGGGATATAGCCTGACCTCTGACCCAGGGGTCAAATAACTCAGGTCTGTTTACCAAGTC
ACCAAAATAACCTGCCCGATAGCATCTCACCCATCACACGGGAGGCCGGGCTCGTGTGAATAATTAATAGGTCACTGGAATGTGAAACGAGAAG
CCTCGGCCCGTTCTGAAACAGCATTTTAGGTTTGCAGCTTATAATATTGTCAGTTAGGAGAAGGCCAACTGAGTCTGCAAAGAGGTGAGGGCG
GGTGGTCTGGGATCCTGCCTCAGCCGCGCGGGTGAGAGGGGCGGGCGGGTCAGGCGAAGACTCAGAGTCAGGAGGCCAGACTGGCCCCAGGGAG
GGCTCCTGGCCATACCCCAAGCTCAGGACGCAGGGTGGGGCGGGCCCGCTGGTGCCCACAGTGGCCTTGGTGGGCCTCTCCTTCCATTGCCCAG
CTTGTAGGTCAACTTTGCCTCCACAGATCCGTAACAGACGTTTTTTCTGTCATGTAAGAAACTTGACAGCTGAAGACCAAGGAGTGGAGCCTCC
CGTGAGGCAGCTCTTCTTTTCCGGTTGTTAAAATGCGCGTCGGGCCAGTGGTTCTGACTAATTCTCACTTTGTGTGGTACCTTCAGCTGGCAGG
GGCTCGGGGAGTGTTCAGTACCGTGAGGAGCAGGTTCCTGAGAGCCCGTGAATACCGTGGACAGATTACCACAGCACGCACTGTTCCACGCAGG
GCCTCATCCACGCTTTCTTAAGTGGTTTGCCACACACAGGAGCTCCTGGTTCTCCATGTCCCCTGCCAGGCAGGGCTGTTAAACTGGAAAGCCG
GGGAGGGACGTCGCTGGGACACATTGTTATCTGATCAGAGCTCCGAGGCCCCACCAGGAGCTGTGCTATTGCAGAACCTCAAACAGCAGCCGCT
CCGGCCCCGCCCCAGGAGCCACGCAGAGGCCCACGCACGGGGAGGACGCCGTGGGGTGGAAACTAAAGTGCAGGTCTGACCACAAAACCACACG
CCACGGCACCGCTGCTGCCAAATGCCGGAGGCCTGCAGGAGGCACGGATTAATTTTTTATGAGTCTGCCTTGGAACCTAGACAACAGCCCTCTC
CTCTTTCAGCACAATTTCAGGGCGAATGACCGTCACTTCCCTGGACTGCTAAGCGCATAAACGCACAGGGAATTTCCTAGTTCCACATACGCCG
TTGTTCCCGCAGCCCATGCAGCTGGGAGAGCACACATGGTTGCCGTCGGGCTGTGTCTGTTTTCCCAGGAGCAAGAACTCTCAGAAGTGCAGTG
TTGAAGCCCGAGCCTTCCCCGTGTCAGCTTTTATGATGAACGAGGATTCACCATTTATTTCTCCCCTAAAGCAAAGCCCACGGGCTCTGTTTTG
AGCGATGGGGACAGATGCTCGGTGCTGCTGGGAAGGTGTTCACGGGGCAGATTCGCTGTGTCAGGAGACCAACGTGGAATGAGGTCGGCCCAGC
CAGTCACTGCTTAAAAACAGTAATGACAATATTTGAGAAAATGGGTGGAATTTTGTGGAGATTTACTGGCACGGGGAAGGCGTGTGGCCTCTGG
CAGGTCTGCGACACTGATTTCTAACTACCTGTTCCACAGCTCCACTGCCTGGAAAAACTGGCAAAAATGTGGCCTGGGTCTCCTGACAGGCCTG
GCCATTGGAGTGGGGGTGTGCAGCTGAGACAGGAAATACGAGGCGCATGAGTGTCCCCAAGCCCAGATCCTCAGCCTCCAAAATCTTCTATTAG
TAATTTCAGAGCTTTGGCTTCTTGGTGCTTTGGGAAAATTAAGATGACGCGTGGGCTCTGGCACGGCCGTTGCTAGTGACCTCTCCTAATAGC
GCAGAAGGGCCTCCCAGGAGGCTTTCCTAGGTAGAGAGGGGTCTGCACGCCCACTGGAACATGCTCTATCCCAGCCTCAGAAAACCCACATTTG
GTGCAGGTGGGACAGGAGGAGTGGACACGTCACCTGGAGACCACATGAGAAGCGGCCATCTGCAGCAGCAATCACCCCGTGGGGAGGCGGCGCC
CTGGCAGCTCTCATGTGGGGCCTGGTCCTTCCTCGCTGCCTGAGCAATGGGCCCTGCTTCCCCGCAGACACCGTGGTGCCCCTGGGCCACACCC
AGCAGGTGTCCAGTGACCGAGGGTGGTGTTGGCCATGGCAGGTCCCTGCCCGTTTCTCCGAGGACCTGGGGCTGTGACCCAGCTGGGTTCTCCC
GGGAAGGAGCGGCCACTGTCTGCACTGTCCAGTGCTGAGGGTGGCAGCCATTTCTGAAGCCTCCCAGGTTTGTGCCCTGCTGTGTCTGAACAGC
TCCGGAGTGCAGGGTCTCTGTGTCAGTGCCGGTTCTAAGAGGAACGAGATGTGGTTTCAGAGACACTCCTCTTCTCTGAGGAGCTGCTGGGCGG
GACGGCTGCTTGCTTTCTTTGTCTGTGACGTTGGTGGCTGTTCCTTGCCCAGGCCCTGCCCAGGCCAGACGTGGGAGTGGCGGCTGGGAGCACC
CATGGGCGTGTGCCCGTCTGGGCTGGGCTCGTGTCCGTGGACCTGCCTCAAGCCACACCTCCCTCCTCCAGGCAGGACACCGGGCCTTGTCTGT
GGACAGAGGCGCTTTGCTGGGAACAGCACAGATGGCCCCTGGGCCCTGCGGAGCCGAGACGCACCATCATACACACTTGGAGCACATAGACTGA
CCAGGTCTCACCCTGCGAGGCTCCCTGAGGCCATGTCCTAGGGAAATAGAAGGTTTCACCCGGAGATTGGGGAGTGCAGGGCTGTGGCGCTGCA
GGGTGCGGGCCCTGAAGGAGGGGCAGGGGTGCTGCTGGATGGTGGCTCTTCCACCCCAGGATTCCTCGGGCCCTTCACCCCTGTGTGTCTGGAC
TGGGTATCGCTGTAGCTGTCGGGCTCTGGAGGTGCACATGGCTGCTGGGCGGGCAGCGCTCCTGGGCCTCTCTCCCCCGTGATTTCGGTTTTGA
TGTGTTTGAGCCACTGACCAGCAGGCTTAGGGGCCATTCTGGAGCTGGGAGGGCTTGTGGGGGAGGCAGGATGAACAGGGGCTGCTTGCCGGTC
CTCAGGCCACCCTGCCAGCTCCTTGATGTGTCTCCCTGAGATCAGCCAGGGCATCCCGGCTGTGGGTGGGCTGTGACCTGAGCCCGTCAGGCCC
TGCTGGGGTAGACTGGGGAGAAGTGCTGAGCGGAAACCACCTCACTTCTGACAAATGACAAGCGCTCCTGCCGCTTGGTGTCAGGCGACGCGAC
TCTCAGTGGCACGGATGTCTCTAGAAGGTTGCCGTTTCTCCCTTCGTGGCCGTGGGCTGTGGATTCTGTGTGCTTCTGGCCCTGGGGTCACGGG
GTTGCGGCGTTTCCCACTTGCCTGTTTCAGGAGTTGCATTCTAGATGATTCTCTCTCCATAGAAGGTCGAGGTTTCTCAGCATGGATTAATTGA
TTAGATTTAATTAAATCTAAACGTGGTGTTTCCGGGCAGAATCTTCTTCAGCCAAAGTGAGCGTGGCCGTCTCTTCTCTGGGCGCTTCCAGGTG
CGTTGGGGCCCCTGCACCCTCCACGTCAGTGCCCTGGCTCCGTGGCCCTGTCGGTGCTCTGGTGAGTCTGGGGTTCGTGCCGAGCGCCATTGCC
TCCAGGTCGAGGTGGGAAGCGCGCTGGTGGGGCAAGGTGGTCCCTGCATGGCACAGGTTGGGAGAGCAGCCGGGAGGGCAGCGGGCCGAGGCGG
TGGGGGAGGGCACCAGTTCTCCACGGCAAGCACGGCCTCTGGGGCTGCTCTTCCGGAGAGACGTGGAGACCCGCGTGCACGTGTGGAGACTGGC
ACGTGTGAGGGGCCCACAGGTGTGGCCGGGCGGCCTTTCTCCTCCCCACCTCTGTCCACCCTCGCCGAGGCGTCGGTCCTGCTGAGCAGCCTCT
GCTGCCTTCGTGCAGGTGACAGCGCACGTGCCATTCACGGGCGCCATGTCTCCAAGAAGAGGGGCTCCTGCCGCGTGCCTGTTCTGGGGTTGCC
ACTCAACATCCTTCCAGCACCTTCTCTGGGCTTCCGGTTTGAATGATCTTTCTCCAAAGTCGGCGGAAGGGGCTAGAAAAGTAGGGACCTGGGA
AGAAAGCCCAGACACCTTGGAGCCGGGGTCCGGGAAACAGGCCCTGGCAGCTCAGCGCTGCTTCTCTGGAGTGGGGATACAATGTTGGTTCACA
GACGTGCGGTGGCGGCCGGCGGGTGGTGGCAGCAGTGTGCCGTTGTTGGCGCCACGTGCTCACGCTGGGTCCCTCCTGGGGAGCTTCTGCTCCGG
CGGGCCACGCCTTGCTGTAGCCTGCAGGTCATCTGGTTGGTGTCTGGGGGAGGTCTGGGGCCCCAGCCCGGAGCTCAGCTCTGAGCATCAAGAA
ACCCGAGTTTCTCCCCACTCCCACCCAGACAGCTCCCCACTCCGACACCTCCCACCCGGACAGCAGCTCCCCACCCGGACAGCAGCTGTGTTTGGAA
GGGGACACACCAGAGCTTCCCTTGTAGCAAGTGAGGCACGCTCAGCTGGAGCCTGGCAGTCCTGCAGCTCCGCCTGCCCCCTTTTGAAAACCAA
AAATCCCAAGAGACTTATGTTGAAACAGCCCTTCCCGGTCAGGACTGAGCCTGTGGCTGAGTGCAGTTTTTCAGTCGCGGCTGGAAGGTCCCTG
TGCGGGGCGGCGAGTCCCTCTAGATTTGCTTTACAGCCACAAATTCAGTTTTATCTGTGGATCTGAACACGATCTATGAATCACTAGGAAAGCA

ACTGTGTTCACGGGAAGGATTCTCAGAATTGAGCTGACACTCCGTGGTGTGAACTCAGTATTGTCAGCTTGTGCACCGCGCGTATGGACACACA
CCTGCACGCACTGTCACACACACTTGCCTCGGGCCCCCACACACACCGCCCTGAGAGCTAGGAAGACGAATCGGTCAGTCACACGGATTCTGCA
GACAGCTTCCTTCACCAGGCATGGTAGTGAGGGCAGCGCCCACTACTCACCCAGGGCCTCTCGTGCAGGAAACTGCATGGACACGTCGTCCTGT
TCCTGTCATGGGAAGGGGCCTGGAGCCGTCCCTCGGGGGGTGGGGAGGAGCTAGTTTCCCAGTCGGCGCCCGTGCATTCACCGGTCTGAGAATC
CACTCAGCAGGCTTGCTATGTAACCTCCGCCGTTCAGGCCTCAGCATGCAGCAAGCCCGTGGGGTCCCGTCTGCCCAGCCTCTGCCTCGGTTCC
TGCCGGGCACATGGACGCTTCCCTTGAATCCTTCTGCCGACGGCATCTGTGGGAGGGCAGGTACGATCGATCCTGGTCCTGTCCCCCTAGCCCT
GGGCGGGTGTCCCGGCACCTCCAGGCACAAGGCCCCTTCCCCAGGCTGCCCAGAGACCCCAGCCCCGAGGTGCTGGTCCGCCCACCCTCTCTGG
GAAGGGCTGTGCCACATGGCGAAAGCTGCTGTGGGTCCTGGTACCTGGTGTCCCTGCCTGCCAGGGCTCATGATGCCAACAGTGCCAGGTTTGT
GGGATTTGGGGGTCAGGAGGGCCTGGCCCTGCTCCTGCAAGGCCGAGATCTGTTCCCTTGGAGGGTTGAGGGAGTGTTGGCTGTAGGGTTCCTG
GAGGCCTCTCTCATGCACTCTGGGTCTGTCAGGAGGCTGGCAACTGTGGCCAAACAGGTAGAAATAAAACCTGAAATGAGAAAAAAACTTTTTT
CTAGAACTTCCCAGAGAGCAGTGAGCTGGTGCCAGTGGGTCAGAGGCTTGTCACATGTGGTGTGTGTGTGTGCGTGTGTGTGTGTGCACGCTCTGG
GGGGGTGTGCACATTTCCCAGTGTGGCTGTGCGTGTGTGTGTGCCCACGTGTGTTCACAGAACACCAGGCTTTGCCCCGACTCCTGGCTCAGGC
CTGAGTCTCCAGCCATGGCGTCCCCGTTCCTCCCGTTCCTTCTCTGCACTGCACACTGGGAACCAGGACAAGAGGTGTGCGGCGTCAGGCTGTG
TCCTTCCCCCACCCACCCCGAGCCCACGCTGCTCTGGAGGGAGACCCCAGCTTCCCCCGCCTACCCCGAGCCCTCGCTGCTCTGGAGGGAGACC
CCAGGCCCCTCAGGCCCTTTCCCGCATCTGAAGGGGCCAGGGCAGGGCGTCCGGCAGATGAAGCTGCCCCTTAAAGCCAGGTCTGGGCCGGTTT
ACAGGGAAGCACTGCTCACGTACAACCTGGCAGACCACACCAGCGCCGCACACACAGGCACCCCTGTGGGCACCCACGTGCCCGACCCCGCAGA
CCACACCGGCACTGCACACACAGGCACCCCCGTGGGCACACACGTGCCCGACCCCACAGACCACACCGGCGCTGCACACACAGGCACCCCCGTG
GCCACACACATGCCTGCACACGCACACTTCTGGTGCACACGCCCACACTCACGGAGGCTTCTGCACACCACACAGCCAGCAGGTGAGGAAGTGG
ACGCTGCGTGGCTGTCTCTTGGTGGCTTCACCTGGAATGTCACCGTGGACCCCAGAGCCCGAAGCCCCGGCAAGCACAGAAATCACACCGGCAG
CCTGTCCCACTTCGGGCAGGTGAGGCCTGGCTGAGAAAAGGGGGAAGGAGAGGGAGGATGCGGGGGTGTGTCCTGGTCCTCCACCCGTTTCGGG
TTTGGGGTGCTCCCTTCGACTACTGGCTCCATTTTTGATGTCTTTTACTTTTGTTTCGATTTTTCCTGGTATCTTGAGTAAAGTCTCCCTGGAG
CATCAAATTGGATTTTTCTTACAAGTACCGTGTGCTGTTGACTCATCTGCTTTGGTGTGCCGTGGGTCACGTGGGCCTGGGCTGTGGGTAAGGT
GGGCCTCGTTCCTGCAGGAACACCTGGCTCTGCAGCAGTGGCTGCCGTATCATCCTGGCCAGGCCCCTGTACCGAGGGTGGAGCCACGGGGTCT
CTGATGCCTTCCTTCTCGTGCTTTGGTGGAGAATGTGGCTGGACGTCCTCCCATGACAGATGCACTCTCCTGCCTGGTTCCCTGGCCCCGGGCC
CAGCCCTGAGAGACGCACCACGGCCTTCACCTGGAAGTGTCACCTCTGGCTGCTGTTGTGGGTGATGAGGATTCCAGGGCTGAGAAGAGGACCC
TAGACGCTGTTCACACAGCGTGGCAATCTCTCAAATTAATCCAGCATGGGGGGAATCGGGGTTGAAACCGGTTTGTGAGCCGGATTTTCTGTCC
CTGTGTACTTCCTTGGGGCAATTTGAAAAATGCAGATTTTACTCGTAGGCCCTAAATGGATAATTTCCCTTTAGGCTGACGGCTGCTCCTGTGC
CCTGCCTGGAGAGAAGCCTGACTCCAGGTCGCCTTGGCTCCGTTTCTGTGCAGCAGCTCAGACTATGGGGTGGAGGGTGAGACATTCCCACCCG
TGAGCTGCCTCTGTCCACCCCACACCTCCCTCCCCTGGGTGCACGCAGCTGAGTTCCACGTTGAATAAATTTGGCCTCAATCATCCACTACCCA
CCATGTCACCGTGTAAGTGCTGAGGTCAGCACAGGAGCTAAAAACAAACATTGTAACGTGTAGGAGACTCAGTAGCTCTTATACCTCGGCAGTG
GAATAAGAATAATACATTTTGTTTAGTTAAGGTTGAGGCAGAGGGAGGTCATTGTTGTGACAGGGAATTTTATAAATAGGATTCTGACAGGTTC
TGTACTGTGCCAGAGGCAGAAAGCCCATGCAGTGGGGCCCGTGACGTATTTAAATGACTTTTCTTAAAATGAACTTCATGTTTTAAATAATAGA
TGTTTACCTCCCAGGTGAAACCTTAAATATTCCCATTTTCACTGAAATGGCATGTTTTTTAAAGGATACAGTCATACCCCAAATTCACAGCATT
CCACACACCATCAGAGAACTGCCACAGGGATCCTGGGGGAATTTTAAATTGTAGTTTTAAGACCACGTGACCCTGGAGCTGCCCCGGTGCCCCT
CCCCCACCCCCCGAGGTGGTTTTGGTCAGCGACTCATTTACATTTTTTTCTATGTAAATTAAATTTTTAGGTATTAAATCTCGGAAAATGGAAT
ACTGCGTGGCAGAATCCGCCTCTTAATCTGCTTTTCTTTTTACATTTCCCATCATAAAGATGTTTGAGTCCCACAGAGAGTTAAGGTATCTCGG
GAAGTTCATTAACTTGGCAAACGGCTGGAGTCTCTCTTCCGAGGAGCTGAGGGCTGGACAGGCAGGTCCCAGCGTCCCCCGTCCTGACTGTTTG
TGTGGAGACACTCATGTATTCATATGGGAAGGGGGGCTCTATTGGAAAGGGAAGGGCTTTTTGTTCTGCAGAGTTACGTGGTCTTAGCAGTAAT
CACTTTGGAGTGGGCTGCTGGTGGCCTTGGGTGCAGAGACTCCTGTGGGCATCTGCGCACATGGGGGCTGTGTCCTCATCCCTGTCTGTGGCTT
CCCCACCGTGTTCCCACGTGATGCCTTCGTTCAGCCTCTGGCTTTGTGTTTCAGACCCCAAACGCCCCTTCGATGTCTCAGCTGGGACCTGGGT
CCCGGCTCAGCCTCACGCGGCGTCCCAGTCCCTGCCCATCAGTCTGGGCCTCACGGTCAGGCCCTCAGTGACAGCAGCCGTCGCTTCACTGTGG
CCTCGTCCCTGGAGGGCTCTGAGTTCAGCCGTCGCTTCACTGTGGCCTCCTCCCTGGCGGGGCTCTGAGTTCAGCCACCGGTGAGATTGGTTTG
TTCTTTACTGTGGTGACCACACGGCGGCTGAGGCTAAGCTGGAGCCACGGAGCAAGGGCCGCCTCTTCGCCTGCCCGGGCCCCTCTAGCCCCAT
CTTCCCTCTGCCCACTGACATCTGAGAATCCGCCGTCCCCTGGCCCGGGCTCCCCCGCCTTCTCCCTCGCCTCGCTGGCCCTGAGTGGGCAGCA
GGCATCTGCGTGGTCAGGGGCAGGCGTCGCATTTTCCTGTGGCTGGAACGTGCCTGCAGGAGCCCAGGCCTGGACTCTGCACGTGGTCATCGTG
CTGCAGTTGCCGTCTGTGGTCAAAGATTTAAAGTTAGTTTAGTGAGAAAATCGACTCCAAACGTGATCAGAGGGGTCGACGCGTCCCAGGATG
AGTGGTTCCCGGGGCTGGGCGTTGCCACGGGCCTTGCATGGATTTTGCTGATGAATCTCAGGGCTCTGAGGCTGGCGCTCATCGGGCCCCACTT
GGGGGATGCAGAAGGGAAGGCACTCTGAACGAGGGGCCCTGTGGGAGGCCCCACTGCGCAAAGGGTTTGACTCCTGCGGCCTCCCTCAAGGCCT
TTGTGCTTGCTTTGAGAATCAAACGTTCCTGTTCCAAACCAAACTTGCCTCTTGCATATGGAATCAGACTATAGTGATTGTAAATGGTAGCGTT
AAAGATAAAAACAAACAGTTCTAAAAATGACTCACTGCTGAAGGCGGAACCACGCGTGGTGCAGAGAAGGAGGGTGAGAGGGAACGGCACCACA
CTCTGTGTTTACCTCTCAAGACGCTGATGAGCAACTCATCCCACAGAACAGCTGGTCCTGAACATGTGTGTGCCCTGCCGTGAGGCGCACACCT
TCCCAGAGGCGTGAGTGGGGCCCGGCCACTAGTGTCCTGGCGGAAGCACCGGGGCTGCTCCATTTGTCTGGAGTCCTGTCCCAGTGGTGTGGGT
TTTGAGTCTCACCCACACGGCGCCGGCCGAGAAGCCATGAGCGGCTCTGCAGGGTGGTGCGGACTATAGACACCTCCATGCATGGTTGCCCTAG
GCAGTGTCTGCCGCCAGCGTCTGCCTCTGGACACTAGCTGCTCAGCCACCAGGACGGCGTTGAGCGCTCCCCTGCCTCTGCAGGAGGAGAGGGG
CAGGGAGCCATCAGGAAGGGTGCTGGGGCCTGGGGCCCGTCGTGCTGTGTGTGTGCAAACGCAGTGTGGCGTCCCCTGATCAGGAGTGGGAGCT
GCGCGCTGCCCGGTTCCAGGTTAATGGAACACAGGAAGGTGGGTCATGTCCTGCGGGGCCTCATCTGGATTTATTGGTGAAGCGAGCCTTGCAC
ATGGCTCAGCGAGGGCTCCGCTTTCCTGCACACGCCCCCTGCCAGCTTCACTGTGGCCTCAGAATGGGCACACACAGCAAGTGTGGATGCATAC
GTGCAAGGCCCGTTTCAAAGCCTAAAACTCAGTGCCCAGGTCCATTGGGATAACAAGGCATTTTCTAATCTGATTTACAAAGACACCAGTATGA
CATGGCAGAGAAATAAAAAGGGGGCAGGGCAGGGGGACACAGGCCTCGAACCCGCCGCGAGGTTTTCTCTGCGTTCCGGTGACTCCCGGCGGTCT
GTGCTCTGGGTGCTGAGCAGGTGTTTTCTGTTCTCTCGCCAGCTGCATGGCTACTTGGAGAATGAGCCGCTGATGCTGCAGCTTTTCATTGGGA
CGGCGGACGACCGCCTGCTGCGCCCGCACGCCTTCTACCAGGTGCACCGCATCACAGGGAAGACCGTGTCCACCACCAGCCACGAGGCCATCCT
CTCCAACACCAAAGTCCTGGAGATCCCACTCCTGCCGGAGAACAGCATGCGAGCCGTGTAAGCCGCGGGGGACCTCCGGCCTCTGGCAGGGGGC
GGTAGGAGGGGGCGTGCCTCCCTCCCAGTCCCGGGGGGTCTGGCCAGCCCCCGCACTTCCAGGCTGCGTGGCCAGGACACTTTTGGTTTAACA
GCCAATAAGTAAACTTCACTCTTGCTTTTGACAATGGATTTGCTTCTCTCTAGGGTTTCAGCCCTGTGTATATTGCCACTTAAAATGTCAGATA
TGCAGCTATAAATACCTCCCTCTGCATTTAGCTTCTAAACAGGACCCCTATTTCTTTCCGAATACAGCAGTGTAATGAGAGGATGGTTAAAACG
TGAGCATCAAAAAATTAAAGCAGTCAGCACATCTGGATCACGTTGACCTTTAGGAGGTTCCGACAACACGGATAGGCCTGTGCTGATGTTCTGA
GTCTAATTTGACACTGTAATTTGTTTAAAAGTGAATTTTTTAGTAAGGTGAGGACGAAACATGTAACTTCCAAATAAGGCCTTACTCACTTAAT
CCTAGCTTGTGCTGGGCACGCTGGCCCTAACCTGTGAAGGCAGCCGAGGAGGAGGACTGCTGGTTCCCGAGAGATTGATGTGGTACTGTGGGGG
GAACCGAAAACAGACACATCTGTGGGTGAATGAGTGCAGGTTGAGCTGGGACGGCTGGAACGTGCAGACCAGCAGGATGGAGCCAGGCCGGAGG
GCAGGGACGGCGTCCTGCGAGGGTGACCCGCAGGCTGGGAGCCCGTGTGATGGGGAAGCTGTGTGTGGGGTGCCCCATCCAGGTGGAGCCCCGG
GGGTGGGTGCAGAGGTCCTGGGGCTGCAGGAGTGGGGAGGAGTCCCGCACGGTGAGGGAGAGCGTGTAGGAGATGGCGGCGGGGGGCCACGTTG
GGGATTTTAATAAGTGATTCAAAGCCTGTAAGTCAAAAAGGGAAAGCTTTCTCTCCACGTTGACTTTTCAAGCACTGGGAGGAATGTACGCACC
TGGGAATTCATTCCAAATCCCTGAGTTTGCCTCGAGAGCTGTAATCCAAGTTTCCCGCAGACAGGGCACAGTCAGGTGCGTTCCACAGCCGTAG

TAAACGTCCTGGCTTCGCTGGCGGCTGCGTTCACCCCACCATGATGTGGGGCAGAAAGGGTGGCCGGGAGACGCCCGCAGCCAGGACCGCGCTC
CAGCCCTGTGCTGGCTGCCGCCTCGTGGGTGGTCGGGGAGTCTGTGTTTATTCTCATTCTCTTAACTTACTGAAAAATACTGCTTTTTAGTGCA
TTGAGAATGTATACATGGAATGTTTTACTGGAGTCTAGTTTTGAATGAAATTGTTAAGAGGTTATATGAAACCATAGAAAAAATGGGTTTTACA
CACAAAAAATGAGGGCTTTTAAATATAGTGGAAATAATAGAATAATTTATTCTAATTATGATTTATTATATATTTTATATAATTATAAATATAT
AATATTTAACCTAATAATATATAATATATAATTATTGTAAATGATAATAATAAATTGAGCTTTTTGGGAACTACTCCAAGATAAGTGAGAACAG
CAGGTGCCTCTGGCCCCTCCCCTGGGCCGCTCTCTGCCGCTCTGGTGACATCCCCGTATACGTGGCCAGCGTGGGCCCTGGAGGCAGCCAGGAC
TTGGGACAGCTCCGACTGGACCCGCTTGGTCAGGGGTGGAGGGTGGAGGCTGGAGGCTGGAGGCTGGAGGAAGGGGAAGGTGGAAGTGGCTTT
TCTCGGGGCTGCCTCTGCTTGCCCCCTCGCCTGCGCCAATGTCAGATTCTCTCCTGCACTAGGCAAGGGCCTCACGTCGCTGGCTTCAAGGTCT
TGTTTTCCTTGGGGAAGGGGAGAGTGGCCAGCTGCCTGGCACGAGCTCGTGGGGCTGGGATGAGGGCCAGAGGGTCTGGGGGGCCAGGCCTTTA
TGCTCCCGCGTCAGCCATTGAAAGAAAAGCTGTGGGCTTTTGTTTTGGGCAGCATTGACTGTGCCGGAATCCTGAAACTCAGAAACTCCGACAT
TGAACTTCGGAAAGGAGAGACGGACATCGGGAGGAAGAACACACGGGTACGGCTGGTGTTCCGCGTTCACGTCCCGCAACCCAGCGGCCGCACG
CTGTCCCTGCAGGTGGCCTCCAACCCCATCGAATGCTGTAAGTGGACGTCCACGCGCCCACAGGGGAGGAAACCGTCCCGTCACATGCGCTTCA
CTGTCTCACCCTCTCTCAGCTTTTCGTTCGTGTAGACTTGGGACTGAACGGTTCCCACCAAACCCACCACAGTGTGTGGCCACGAGGGGTCTGA
GTTGATCATGGCTGAGTTATTGCCTGTGGCCTCCCGGGGGCCCCTGGCGCTGGCTCCTCTGATGGCTGAGCATGGCCAGGGAAAGCGGTGTGGG
CCGGGGCTTCCCCTCACGCTGCGCTGACCTTTGCGTATTTGTGCGATGACTGTGATTTGAGTGAAATTGGCTGAGTCTTAGGAAGATATTTTGA
TGACTTCTTCAGAACGAGGTGGAGACCATCAGGATGAAGTGTGCACGGCTTCTCCCCTAGAAGTAGTGGCATCCGCAGGGGTCGGCCCGCAGGT
CGTGGCGGTGCTTGCTCTGGGTGGGTCGGCTCACGTGTGACCTGCTGGGTGCCACACGTGTGCCCCAGGCCGCCCACTCAGGACAGGCCCTCAC
TGCCCCTCTCCTTCTGATGCAGCCCAGCGCTCAGCTCAGGAGCTGCCTCTGGTGGAGAAGCAGAGCACGGACAGCTATCCGGTCGTGGGCGGGA
AGAAGATGGTCCTGTCTGGCCACAACTTCCTGCAGGACTCCAAGGTCATTTTCGTGGAGAAAGCCCCAGGTATGCTCTTCACCAGGGGCCATCT
GCGGCCTGGGCTTCGGCGCTGGTGGGAACCGGTTCCCAGTCGGTGGAGCAGGACCCACCTGTGCACGGTCACCGGGACGGGGCTTATGGGGTGT
GGCACGGAGCAGAGGCTCTGCGTGGCCCGTGTCTGCATCCGGCTGTGGGTTTTTGTGTGAGCCGACAGCTGTGCTGCTGAAGGGAAGAGGTGGA
TGTTTATTTCTGGGGCCGCCGGGGCCACTGCACTCACATCGCTGCTGATACTCAGGGAGCCCACGGGCTGGGGACGCAGAGGAGGGCAAGACGC
ATTTGCTGGCTTTGCTGGGGTCCTCCATCTGCAGAGAGTGGACGCTTCGGGGGTCAGTTAGCAGCAGGGCAGGAGGGAGCTCCCCTCCGGGGCC
TTCCCCTCCCGCCAGCATTCCTGGGGTCGGAGGCAGGGATGGGGTGGGTGCCGCAGACGGCGGGAGCTGGGGTGGTCTTTAATGCCACAGCCGT
GGTGTGTGTGAGGCTCTCGTGCCCCAAGGGCACAGGTCACCCCTGCCTCCAGGTGTTGCGCTGGCCCAGCCTGGAGGCTCCGGGGCTGAACTTG
GAAGGGCAGCAGGGGTGTCCTCGGAGTGATGTTCCTCCTGGGGCCGTCACGCCTGTGGTTCTGTGCTGCCCACGGGAGACTGTCCTGCGGGGAT
TGGGCTCACAGAGTGGCTCCCAGCCCAGGTCAGTTCCATGCAGACGCCGGGCCCCAGCACTCTCATCCCAGAGGGGTGGCCTCGCCGGCTCCGA
GCAGAGTGTGTGAAGACAGTGGGCTGCACTGATGGGAAACTGGCATTGCAGGGAGAGTGGGCACCAGTGTAGCTGGGCACAGGGACCCTAGCCC
AGCCCTCAAGGGGGTTCAGGCAGAGTGGGCCTGGCTCTCCGCAAAGCCTGCCGTGAGCTCCCTGGTTTTGGGGGTTCCTGGTGCCTTGCTGGGC
CTCTGCCCAGGGTGCGCCAGGTGAGGGGCATGCCCCCACAAGGCCTGTTTTGTGATATTTTTTTCCTTTTGTACACTTACCAATTGGAATTCTT
TTGCACTTACTCCAATCCCTGGAAACCGCGGAGGCATTCAGCCTTGATAATGGGGTCTTGATTTGTACAGTTTGCCGGAAACTTAAGTGCTTCA
ATCAAAATCGGCTTTAGAGGTCTTTGACTCTAACTTGGCTTCCTATAGAATCAGGGCTTAATTGGAAAACATGTTTTAAATTACAGAGAAAACC
AACTAAGGGCAGTGACCGGGAAGGCATTTGCATTGCCCGTGCCTTCTCGGGAGGAGGCTAATTTTGAAATAATTTTCCCTTCAGAGCTTTCGGT
GTGTGTCCACGCGTTGGCGGAGAAACACTTCGCCCACAGTGTAGGGCCTCGCTTGGGCCAAGACTGGCCAGAACCGTGGCTCCCAGCTTCTGCT
TTTCAAAGCCCAGACCTGAGCAGCCTCCTTGCTTTTTCTTCTGCCCAGAGAGGCCTGGGCACCTTGGCAGAGCCTCCCCCCGAATGCAGTCCGC
AGAGGTGCCCCAGCTCCTGCCCTAGCCAAGTTACTGTGCTGAGTTGGTGCCACGGCGCCATGGGTAAGGGCAGCCACCAGCCTGCGAGGGCCAG
GAGCCAAGGGGATGCAGGACCAGCCCTGGCCTCATGCGGCCGCCCCTACAGGCAGCCCCTCCTGCCTTCATCATCACTGTGAGCTGTGGGGTCA
GCAGGCCGGAGGGGTACCTGTTCTGCCCTTAAGCTCGGCTGCCACAGCCACACTTCTGGGCAATGCCAGTTTGTCTGCCCATGTCCTCCTCTTG
TCCCATGAGGTCAGGGTGGGTCTCTGACCCTCTGCCAGCACCAGCCGGCGTCTGGTATACAGCAGGTGAGCCATAAATGAATAGGTGCTGTGCT
CGAGAGCACGTGAAGCTGTGAATACTGCAGGGATGAAGCCAGACCACGTTGATAATTTTATTCTTTATAGTTGAATAAGATAATTTGCATATTC
ATACACACACAAGCACATTCCATGTTTTCAAAAGTGGAGAACAAATGTCCACATAATTTTCTTCCTCCACTTCCGGCTTCTCAGGCGGGAGCCG
TTGCTTACAACACGTGCTGATGTGCAGTGACAGGTTGGTGCAGCAGAAAGCCCCACATCCTCATCCTGGCAACGAGAGAAACCACTAAACTGAA
TTTAAATTAAAAACACAGTTGCCCTCTCGTTTTCTGATGGGATCGTCTGGTCTGTTTAAAGTTCTGTTTTAGACTGCTCTTGCAGATGGAACCA
GGGCCGGGTGTGAGCTCAGGAGGGGAGGTTCCTGCTGAGGAAATCCGTCAGTAGGGCAGTTGAAGTGGCTTCTCCAGGAAGGGCCCCTGCGTCT
CTCGACTGTCCTGCTCATTCCGAGGGTGCAGATGGTTGTAGCTGTTGGGAATGTTGGCTCTGGACACAGGCCAGGGTCGGCTCCACCCTGTCCT
TCTCTGGAGTACGTAGGAAGCTCATTGTCCAGGCCAGCTCAGCCTCTGCGTATCAGCCAGGCCACCTTCAGCTGCTATGGGTTCACAGCATCTC
TGAGCTTTGGGAAGTTTTAGATGGAGCGGCTCCACTGCCCTGGAAGGCTGGGAGAAGCTGGTGTTGGCCTCATGAGGAAGGGAGTCCCCGCAGC
AGGGCTGCATTGCGGGGAGCCGGCCGGGCAAGGGCATGGCTCGCCGTAGCCTGGGTGCCGGGTCCCTCTGGGATGCTCCAGCAGGGCAGGAGGA
GGGTGGGTGTTTGAGTCTCAGCCTGCGCTCCACGGAGCTTCCTCCCAGGTGTCTCAGGGCGGCGCAAAAGGCCGGGAGCGGAGTCAGCCTTTCT
CTGAGGACTTAGTTTACAGCTTCCTCGGAAAACGACATTTTCCGATGATGAAAATCTGTGAGGAATGTTCTTCCAGGAGGCAGGTTGGCTGTGG
GGAGCCGAGGGCCGGGTGTTGGTTTAGAAGCCCCTGGTAGCATCACAAGAACCCCCAGTTTCCAAGGCTGCAGGGGTTCAGCTGCAGGAAGTGG
GAACCACACCCCTCTCCCACCCACACCCCTCCCCACCTTCACACCTGCACCCCTCCCGCCTGTTAAAGATCACTGTGTCTGTTCCCGATGTGA
GGCACCTCTCTGTACACGCGTGAACGTTGAAGCTGCTGAGGGACACACTAACGTTCAACATAAACGAAACGCCCGAAGAACGCCCGCGTGAAAC
GTGAGCTCGGGCTGTGTCTAGAGCCTGGCTGAGATGAGACAGAAGGCGCAAGGTTCTGAGATGTGGATGCATCAAACATGAGCCAGTTCTCGAT
GCTGGAGCTGAACAACCTCCTTTTCTTAAGTCACGCGTCTGTTCTGGTGCCGTTTTTTAAAAACATCAGCGAAGCCTGTTTTGGTGTCGCTGCG
CGGAAGCCACACTACGACGCCGGGGGTGAAGACTCCCACTCCGTTTGCCAGCGATCGCGCAGCGGGCAGGGCTCAGCGGGTGGGGCTGCACGGG
TCTCGTCAGTGGTCGTTTCTGTGGCCGCCGTGACTGGCAGGCCAGCTGGGGCCTGGACGGCCGGCGTCTCCTTCTCCAGGTAATCAGGGCCCCT
CTACGTGGCCTCCCGGGGCCCCTCTGGGGAGGCAGCCTGGCATCTCACAGGCGGCCGGGGCTCCCGGGAAGCAGAGACGGGCTGTGCCAGGGCT
CCTAGGCCCAGGCCTGGACCCAGTGCCGTGCCAGCCACCACCCCAGGGGCCCTGCCCTGGTTCGCAGGGAGACACACAGAAATGTGGGAGGCCG
GGTGGCCTGCACGGTGGGAGCGAGTAGACAGAGCCCCTCCCGGAGGCCCCCAGCCCAGCACATCCAGAGCCCTCCCCTGAGAAACCCCAGACAG
CCAGGTTCGCCCCAAACCCAACATGGTGGGACCCCAGCTCGCCCCCCATCTCATGGCCGCCCCATCCCACGGCCGCCCCATCCTCTGGCCCTGG
ATGTTACCACGTGGAGAAGACAGGCCTGTGGGCAGGCACTAGCCACACTGCAGGAGACGCAGGCTAGGTTTCCAGATTTCTCCACACAGCAGCA
GGCGGAGGGCCTGCCTCCCACCTCACTGGGAGGGCCAGGACTCCAAATCTGGGCCAAATGTATGTTGTTATTTTTCAAATAAAGGGACCAAAGG
CCCGGGCCTTTCCAAGGCTGCCCTGCCATGGGACCGTGACCGGTGTGGTTCCCAGGACTTCCACAAGCTCTGACAGGCACCTGGCCGTTGTTTT
GGGAGGCTCCACCCAGCAGCCACAGAGCTTAGCTGGCAGCTGGCAGGACACTTGCAAGGACACGGAACTGTCACGGAACCACCGTGGCTTTGGG
CTGTCACGGAACCACCGTGGCCTTGGCAGCTGCTGGTCCTATGCCGGGACACACATTCACCGCGGCGAGTGTGGGGTGCATGTCCCCAGGCA
GAGGCCATGTCATCCAGGTGCAGGAAGCGCCAGGCAAGGACCCTCCTGTCCGCCCAGAGAGCCGGGTCAGAGGAGTCCCCAGGCCTGAAGCCAC
TCCCTCCGGGCTCACCTTCAGGTTCCTTCAAGGCCAGGGGGAGGTTCACCCACCCCAGGGTGTCGCGGAAGCCCCGAGGCCCCTGCAGGCCCCG
ATTTCCCCAGTGAGGCATCAGTGCCCGCTGGCCACCCTGCCCCTCTCCTCCTCCAGCTGCCCCTGCTCCTTGTTTTCCTAGGGTCTGGTTCTTT
CTCGCGGGCGGGGAGGAGGTGAGGGTCAGGGCCCCTGTAAGGCAGACTAGTGGCACTGCCCCTTTCGGCCCTTGCTGTCCCTCCTCTGTCCCTT
GTGGAAGGTCTCGGCCTGGGGCAGAGGAGCGGGCCGAGGAGGAAGGTGGAGTCCAGGTGGGTGGTGGGGTCTGTGTTCTGTTTTAGTCGTGCGG
GATGTAGGCCGAGGGAGATGGACCCGGGGGATGGCTGCCTCTGTGGCATCTCCGTGGTGTGCCCTCTGACGGGGCTGGGTGAGCAAGGAGGACA
CAGCTGGGAATTCCCAGCTCCAGCGTCCGCGGCACGGGCAGCCTCCCTGTGTGGAGCAGCTCAGCTGTCACCTCCTGAAGATGTTGGATGCTGG

CCCCGAAGGCAGCATCGCAATGACAACACCTTCAGAGGTGTCCATCCCAACAGTTTAAAGGCCAAATGCAGATCTTTCAGATTTGTGTTTTCAG
GGAGAAGGTGACATTGCTGGGCGCCTGTGAGTGTGGACAGACATCACTGTCGCCGTGTGCTCCGAGAGAGGAGAGTTGGGGCTGCTTTGTCACC
ACATGGCGTCTTTGGGAGCAGGACAGGTGGCCGGGCTGAACCCCCAGGCTTCTCTGTTTGCTCCCAGAGACCACACAGGGAAGGCAAGGAGGGC
AGCGCCCGGGGAAGAGACACCTGCCCGTGTCTTCCTCATGCCCTGAGGATGGCTCAGTGGCCCAGATGGTCCAGGACCCCTAGAATTGAGTGAT
GACCCCACAGTTCTCATCAAGCCGCATTCTGGATAGCGCTAGGGGCGACTCTCAGACTCCCCCTGCCTGGGCCCCGCTGGTGTGGGGAGGCCAC
GCGTCACGTCAGTCCCCACTGCAGGAGGAGGGGCCGGGCTTCTGGCTCCCCTCCCTCCTCTCCCTTCTCAGGCCTTTTGGGATCATACACGACA
AAGTCACCCATGGTCATGTTGGCTAGTTTCTTTTTTATATCAGCTTTATCGAAATATGATCTATACACCATTTAATTCACTCAAAGTGTATAAT
TCGGTGGGTTTTGGTGGCTTCACATAATTATGCGGCCACCACCAATTTCAGAACATTTTCTTGTCCCCAGAAAGAAACCCTTGCCCATGAGTGG
CCACCCCTGCTCTCCCTTCCCCCACCCCGGCTCCGACAACCCCAATGCCCCCTCGCCGTGGCCTCGCCTGGTCTGGCTGCTCCCTGCTGGCCTG
CTGGGGAACCCCATCCTGCCGGCTGTGGTGCCTGGCAGCTTCTGTGGAGCGTGGCATCCTCCATGTTCCCTCGTTGGTGTGGGTCAGGGCGTAG
GGTCCTCAGGTCCCCTCGTTGGCACAGGTCGGGACGTGGGGTCTTTCTGTGGCTGAGGGAAGCCCACCGTGTGGCTGCCCACACCTGTCTGTCG
ATGGCACTAGGCCACGTCCACCCTGTGGAGATGATCGTGGAAAAGCCGCCATGAACCTCAGTGCGTGAGTCCTGTGTGGACGCCTGCCTGTCTC
CTGAGCACATGCCTCGGTGTGAAAGGGCTGTGGGTCACAGGGTGGCTCCGTGTGAGGCCCTGCAGGCAGATGTGCAGCAGGGCTGGGTGGCTGT
TTCCCCTCCAGAATCTCCTCTGGGAGCCAGGCTGGGACAGACTCCTGGGGGAGAGCCGGGGATGGATGAGACGCCCCAGGGACGCTCGCTTCTG
GGCATGAGGATGCTGTGGGGTGCACGGCACGAGGACGCCGCGGGGAGCAGGGCACGAGGATGCTTTGGGGAGCAGGGCAGGAGACGCCGTGGGG
AGCAGGGCTCGAGGGCACCGTGGGACCCAGGGACGCTGCTGCTTCCACCAGCGGCCCTCGTGGCTTTCTTTGTGGAAACAGTGGCTCAGCATCA
GCACCGGCGTGGGGGTGGCCCGGCTCCGGGCGGCGGGTCCTGGCCGGTCTGGGAGGCTCCTGGGCCCGCAGGCCTGCCTGTGTGGAAACCTCGC
GGGTGTGGCAGGGAAGCCTCCCGATGACTCAGACTGCAGGGAATTCCCTAATGATCTGGAATATTTTTACTCCTGCACTCGGGCAGTTTCCTAC
TAAGGACTCGGAGCTCTGATAAGGCTGAACACAAAGGCCCTTTCAGGACCGGCTGCCTTCCTTCCTGCCAGGGGCTGAGTTTTGAACAGCACGG
GGGCCGGCGCTGCCCGTCCGGGCCTCCACGGAGCTGGGAGCCGCCATGGCGATGCTCTTGCCGGCGGGACGCGGCCCTGCGTCTCCTTTCCTGA
GATGCGAGGTTATTTCCATCTTTCAGCAGTCTCGGCGCTTTGTCTTGTTCTGGAAGCAATTGCTAGATAGACATTTCTGGCCGTGAATACTATT
GCTTTTGAAAGACAATTACTTTATGATCCTTAAGCAGAAACAGAAAGCCTGCCCTCACCCTCACCCTGGTCGACCTGAAACGGCCACAGACGTC
GGACACCACGGGGAGAGGCCCCACCTCCAAGAGGGAAGGCCACAGGCGCTGGCTCAGCCGGGGTCTTTGAGGAAGGCAGGGATGTTTGTCGGTT
CCCCGCACTTTTAGGGGAAGTCTAAGCGTATCTGCTCCCACCTGCGCAGGAATTGCAGGGTGCGGGTGCTCCCAGGTGTGCGGTGGAGGCTGCT
CCATGGCAGCTGCTGAGCTGGGCCTGGCTGGCCACGCAGACGTGGCTCCCCTTGGGGCCGCTCCGGCAAGGATGGTTCCCCACAGGCCCACGAG
GCACGGGTGGGAAAAGACGCCTCCATGCCGTCGTTCCATTTGCTTTTCATGGACTCACCGCTGCGGGGCAGCCACCTGGAGGAGGCCGCGGGGG
AGACGGCTGGAGTCCCTCTTGCTTCTCGGGACATAAAGAGAGGAGCAGGCTGTGTTGGCCTCGGCTGCAAAAATGGCGTCCCCTCGGGGTGTCA
TTAAACGCGACATCCTGGCCCCGTGTGCGCCTCAGTGTCCCTCCTGCTCAGCACAGTCACTGAACCTCCCTCCCCTTGCCAGTGCCAAAGGCCT
CCACAGCGTCAGGGAAGTTCCTAGGGAAGCTGAAGTTGTGACTCTGAGCTTCCTGGGCTGGGCGGGAAGCAAACTATAGCCTGTTGCGCCCGGG
AGCTTCAGAGGACCACAGCCTTTTGTGGGGTGTGGACGGGGCCTCACCCCAAAGATGGACTTTGTCATAAGAAAAGTTCAAAAGTCATTTTCAA
AAGGTGCCAAACAACCAGAAGACTTAGTTACACACAGAGTGATTTGGATTTTTATGAAGTGGGGGTGGAGGGGCTTCTGAGTGGTGCATCTGGG
CTGGGGGCTTCTGGGAATCCTGTGGCATCAGCACCTGTGCTGGAGTGAAAACGCCTCTTTCTTCCCAGCTCCTGAGCTTTCCAGGGCCTGGAGG
ACTTGCTGCTTCATGAAACTCAGATGGCTTCAAGCGCAACTGAGTGTACTTTTTAGTTTCCTGTAATTTTTTTCCTAGAGGAGAGAGGGATGCC
AGGCTCTATCGAGTGGGTTCATCTGGTGGGTAATTTGCGTGGGGACCTCGGGCCTCCCGGGCTGGCATGGCCAGGGCTTGGCTGGGCGGCTCTG
GGGTCCTGTGTGACTCACATTTCCTCTCCACCCTCCACCCAGGCAGCAGCCCGGCACTGTAACAGAGAAAAAGGAGATTTTGTCTGATTTATCA
GTAATTGAGGGTTTGTAACAGACACACATTTTCTTCTTTGGAGACAGAGCATAAGGATAAACTTAAGTGTGTATACCTGTAACTGTTCATTTTG
GGAACAGACTTTATTTTGGAGAAGATAAAAGCAGGAAGAGACTCTGTAGGAGATTGACATCTGTTAATTTGAGGAATAATTGCCCCAAACTCAGC
CCATCTGAGGGGCCAGGCCGTGCACACACCCAGGCTGTGGTGGGGCCGCCTTGTCCGTGTGCGCCTGGAGCCCCCACTCTGCCAGGCCTGGAGC
AGAGAGCACAACGCGTCCTTTCACTACACCTCTGGGAGCCTTTTTATTTTTTAAAAACATGCAAATGGCCACTGGGGAAATGCCAAAAATACCT
CGTGTTTTGCATTTCTGTCTCCTGATGGGCAAGAAGTTGTCAGAGGAAGGCTCTTCTCATTTACCCAGTGGTTCCTTTGCACACAGGCAGGGCC
AGCGGCCAGGCCCTCATCCACCAGAGTAGACCCCAGCACGAGCAGGCGTCGCACCCTGGCGTGGAGCCCCCGGCCCCCCGTCACTACTCTCACA
CCTCCTGCATCCCTGGGAGGCTGGGCTGGGAACTGCAGAGCCGGGTCCCAGGTCCACGCACAGACGCCCTGCACACGCTCTGCTGATGGGGTAC
CTGCTCCCCCTCACACCTGCTCTCCCTGGAGAGGACGAGGGCATAGAGACCCTCCCGTGACCTGTCCTGAGGCTGTGAGAGGCCAGCAGATGCA
GGGCCAGGACGGATTCCTGAGGATGCCCCTGCCCTGTAGTCCCTCCTACGCCGGGCTGGGGTCAGAACAAGCCCTGAGCCGCGTGTCCTCAGCT
TCTCCAGGCTCCCAGGGCAACTTTGGTGTCGAGCTCGGGGCCCTGCCAGGGCACGTGGCTCCTGAGGTGCTGCCCTCGACAAAGCCCTGGGATG
GGCCTACGTGGGTCTCCTGGGACAAGGCGCCCTCCTGGCTCAGGGCCCTGGGTCTGGATCACGTGGGGGTGTCTGGGGAGGGGGCTCCCCACCA
CACAGAGTCACAGACGTTTCCTGCTCCTTTCTTCCAGATGGCCACCATGTCTGGGAGATGGAAGCGAAAACTGACCGGGACCTGTGCAAGCCGG
TGAGTGCCTTTGGCGCAGCTGGAGCTACTGTGGGTCCCCAGGGCTTGGGAGGCTGGGGTCTGCTGGAGCCACTGCGGGTCCCCAGGCCTTGGGA
GGCTGGGGTTCCTGTTTCTTAGAATGAAACAAATAAAAATAGTGCATAGAGTAACAGAACCAGTAACAAACAGGATCACCAAGTACTCGCCAAA
GCACCATGTGCTGTCACCCAACGTGTCAGGTCACGTCAGAGCCCTGGCGGCCGGGGACGGTGCTGGACAGGCTGAGGGCCACCTCACACACCCT
GGCGCTGAGACAGCCCAGGGAAGGTCGTCTCACACGGACCCTCCCGCCCTTTGCTGTCCCCTTGCTGTCACCATCACCTGGCACAGAGCAGGCT
CCTGGGAGTCAGTGCTGTGCTGAGTTCCCGGGGGGTGGTCAGCACCTGCCCAGACCCGCTCACAGCACCGAGGGCAGGGCTCTGCGGCATCCCC
AGTGGGGACTCCTCACCCCGTCCTCCGAGGCCACTGATTGCGCCGACCTCCCCTGTGATGGTGTCCCAAGCACAAGAGCCTGGGCGTGGCTCCT
GGACTCGCGATTGGCCACAGCCTGTTAGCGGGCGGTGCATGTGTGCGGGGTCGTGGCAGACGCGTGGCTGGGTCACACTTCTGCTGTCACCGGG
CCGTTTCCAACTCCCCCAGTCACCTGCCACAGCTTCCCTGGCACCGCGTGCATACAGCCGGTGCCTGAGGATAATGACCGTCCTCGGATTGGAG
ATGACCTTTTGTGTGGATGGCTGTAGCTGCTCCCACATCTCCTGCACGGCACCGGTTGCTGCGTGCATCTCTCCCATCCCTGCGCTTCTGATCC
ATGTGCTCATGTTTAAAGTGGTTTCTTGGAGGCAACGTCTTCTTGGGTGGTGTCTTGGATCCTCTCTGACGCTGTCTTGTAATTGGCACATGGA
GACCATTGATGTTTAGGTCTTTAGTTTGTTTGTTTTTTGTTTTTTGAAACAGAGTTTCGTTCTTGTTGCCCAGGCTGGAGTGCAGTGGCGTGA
TCTCGGCTCACTGCAACCTCCACCTCCCGAGTAGCTGGGATTACAGGCATGCACCACCACGCCCGGCTAATTTTGTAATTTTAGTAGAGATGGG
GTTTTGCCATGTTGGCCAAGCAGGTCTGGAACTCCCAACCTCAGGTGATCCGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGC
CACCGTGCCCGGCCTGATGTTCACTTATTATTGATACAGTTGGATTGATCCCTACGTTGGATTTTTTGAGTGTTCTGTTTAGTCCTATAAAAGC
AGTAGAAATCTCTAGGCCAACATAAGATGCCACATGGCTCACAAGGGAGTTTTGAAGACATGAACATGCTTCTGAGCTCAGCAGTGTGTGTCCC
TGCGGGTCAGGGAAGTCTTGTGCACCCACTCAGTGTGTGTCCCTGCGGGTCGGGGAGTCTTGTGCACCCACTCAGTGTGTGCAGTTGGAAGCTG
GTCCCTTCAGAAACCTCAGGGAAGAGCCCATCTCGGGCGGCTGGAGGCAGGTGGACAGGACACCGGGGAGGAGTCTTGAGGTCGTCTCCTGTTG
GTGGGACGATCGGTGGCCTCCATGGAGAGCGGTGCTGGCACCTTCACTCCCTGTCCAAGAGGTGGCTCTGTCAGAAAGCAGCGTCTTCCACCC
TGCGACTTCAGCGCCCTTCCCCCAAGGACCCATCCCCTTCCCAGAACCTTTTCCAAGTGGTTATCAGATGGAAAAGGTTCCTCCCTGGCCCTGG
GTGAAGTGAGCTCACCTGCACCTTCAGTGGTGCTCAGGCCTCCCCTGAAGCTCCTGGCACTCACAGGGTTCCAGTTCAATGCTGTCGCTTTTCT
TGCCTTCACCTGAGAAGCCCCTTGAGGAAAGCTGGAGGCCCCAGGGCAGGCCAGTGTTCAGAGGAAGGAGTCCCGGCCTACACGGCCCGTTGTC
CGCAGAGCCAGTGAGTCAGGGTGCTCAGAAGGGTCCTGGGAACGGCCAGCCACAGGCAAAGGCAGCTGGAGCTGCTGTACCGGCCTCTCCTCCC
CGCAGCCTGTTCCCGTGTCCATACCGGCCTCTCCTCCCCACAGCCCGTTCCCGTGTCCATACCGGCCTCTCTTCCCCACGGCCATTTCCTGTGC
CCATAAGGTCTGTGGCTCCCCGCTGGCCGGGCGTTTGCAACTGCCCAGGGGGCTGGCAGCCTTCGTCCATGGGGTCATTGCCAGGCCTCCCCAC
CTACTGGGTGTCTGATTCGTTCCTCCCCACTGGGCTGCCCTTGCTCTGCTGTGCGTCTGTGCTGGGTACACTGACATCTGGCTCTCCGTCCCTC
TGCCTGCAGGCAGTGTACCCTGGTGCCTGGCCTCGTGCTGCCTACCCTCCCTAGCCCTGGCTCCGTCGGGGTCTCCACAGGCTTCGCCAGCCCC

GCACATGCACGCGGGTTGCGGGATGCAGGATGCCGGAGCTGGGCTGCCCAGCCGCTGGCCTGCCCTGTCCCCCTAGGCAGGGAGAGCAGCCAGG
AGGAGCCGTGAGCCTTTCTGCACTGAAAACAATCCCAGCCAAGCTGACATCCACATTCTCTGTGATTTTCTGTTTTACTTTTGACACTGGCATA
TTTCGAGGGAAGCTTAACAGCTGTATGTTTTAAAAGAAACTTAAGAGCACATGTGAAAAATTGTGTACTTCAAGTTTACTGGTTGTTTTTTGTT
TGTTTTTTGTTTTTTTGAGACAGTCTCGCTCTGTCACCCAGATTGGAGTGCAGTGGCTCGATCTCAGCTCATTGCAGCCTCCGCCTCCCAGGTT
CAAGCGATTCTCATGCCTCAGTCTCCCGAGTATCTAGGACTACAGGCGCCGGCCACTATGCCTGGCTAATGTTTTTGTATTTTTTTTAGTAGAG
ACGGGATTTCACCATGTTGTCCAGGCTGGTCTTGAACTCCTGACCTCAGGTGATCCGCCCACCGTGGCCTCCCAAAGTGCTGGGATTACAGGCG
TGAGCCACCGCGCCCGGCCTGCTGTTTCATTTTTAATCTCTTAAATGGAGTTTGCTTTAATATATATTTTCTCATCATAAAGGAACTTCATA
CTCATCGTGGACATTTGGACAATATAAAAAAGGAAATAAAACCTAGTGTAGTCTCACCAACTGAGACATAACCACTGCTGGCATTGGGCATGCG
TCCTGCTCCATTTGCTGCTGTGTGTGGATGTTCACGCAGACACACACACACACACAGAGTACATTATATTGTGGATATATGTGTTTGTGTGTGT
GTGTGTGTGTGTGTATATGTATGTGTATATATATATTTATTTATTTATTTATTTTTTTTTTTTTTGAGACAGGGTCTTGCTGTGTCATCCAGG
CTGGAGTCCAGTGGCTTGATCATGGCTCACTGCAGCCTTGACCTCCCAGGCTGAAGCAGTTCTCATGCCTCAGCCTCGCCAGTAGCTGGGGACA
CAAGTGTGCCCTATTCTGCCCAGCTAATTTTTAAATTTTTGTAGAGATGGGGCCTCGCGGTGTTGCCCAGGCTGGTCCTGAACTCCTGGGCTCA
AGCAATCCTCCCACCTGGGCCTCCCAAAGTGCTGGGATGACAGGTGTGAGCCACCGTGCCCGCCTGTGCATATTTTGTGAACAAAATGGGATGT
GCTGTGTCTACGGTTTTTGTACTTTCTATAAGTAAGTGTATGAGCTTCATCTCAACAGTGGAGTTTAAAGCAGGTTGCGTAGGTGCTGGTGCCA
TTTGGAACCCGTATTTTTTCCGGTACAGACGAGTTTCCCTCTCCCTTCCTGTTCTTCCGTGTTTCTTCTTTATCGCTTCCTTCTGTGTGTATTT
AAGTGGCAGTGCTCCCACGGAGATAGTATTTTTGTCATATAATTTGTCTATTTAGAGAGTTGAAGTGGGTTGGCCTGTGCCCACATCAACATAG
GCCCTTCCAGTCAGGTAGGACTTAGGAAAACTGGCATGCACCGTCCAGCATGCCCCACAGGGTCCCACCTCCACCCATCCAGCCTGCCTCACGG
GGTCCCCGCCTCCACCCAGTCTGGCCCACAAGGTCCCGCCTCCGCCCAGCCAGCCTGGCCCACGGAATCTCCGCCTCTGCCCAGCCAGCCTGGC
CCATGTGGTCCCCGCCTCCACCCATCCAGCCTGTCCCACAGGGTCCCCGCCTCCACCCCAGCCTGTCCCGTGGGGTCCCCGCCTCCCCACTCCT
CGCTGCTGCCTGTGAGTGCCTCCCGGCCCGTTACTATTTCAGTCTCGGCTTCCATGAGACGTTTCCTTCTTGTCTCTTCCCTCAGCTGCTTCTG
CTCTAAAGACCCACCTGGTGTAGCTGCTGACTCCATCGCAGCTGCCCTGAGCACTGCTGAATTCAGAAAACAGCCTTGGAGGAAGCGTCTCTTT
ATCCCCCGTACAAATGCCGAGACAGGCTCCGGGTGGCCAGAGCTTCCCGGGTCAGCCCAGGAGATGGCCCAGACCCACAGTGCTCTGGGGGCAG
CCCAGGCCCCGCCCACTGACAGCACTCATGGCCCCTCCGGCGGCAGCTTCAGCTCCCCTGGGGCAGCTCTGATGCGGGGCAAAGGCAGGAAGAC
GCCCATGTGCCATGGCTTCTGCTTCTTCCCAATGAACTGCAGTTAATTAAACAACACAGACCTGCTGCCAGGAGAAAGTGTGGCCCCTGGGCAC
AGGGCCCAGTGGGGTGGGGAGCAGGGGTGCGGGGAGGGCATGGCCCCCTCTGCATGGGTGTCTGGGCCTCAGCTGTTTCATTATTTGTAAATGAA
AGAGCCTGGACCTCAAGTTGTCTTCAGTTTTCTGTCTTTAACACTCTTAAGATTTCATTGTTAATGTGATTCAATCAATTTGGCTAAGTTAGGT
GCTGAGCTATAATTAATTATTTTAACAAAAGAAGTAATACAATGGATTTTTCTCCTGCTTGTTAAACTAAGTCATATGATTATAAAAATGAAAC
TTTATAGATGCGACTCCCGCCAACCCTCTCCCCAGATACCAAGTGCCGCCCTCGGCAGGGATGCCTGCATCACCCCAGTCATTTAGGGTCATCA
GGGGCCCGAGTAACGCTGGGGCCTGAGCACGCGGTTGGGGTCTCCGTGTCCCAGCCCCCCACCCAGCCCCGACCTCTGCGAACAGCGCCACACG
TCCCATGGCTTGTGTTTCATGTGTATACTTGAAGGAGCATGAGTTTCGTAAACATGCTGCTGGCTGTTACATTAAAAACATGAGAAGGTAACGG
CAGCCTCCACACGCCGCCCTCTGCTGTCTGTGCCTCCGGTGCCCTTGGCTGTTCCCACCCCGGGGTCTGCGGGGGTCAGGGCCTGCCTCCTCTTC
CTCAGTTGGAGTGAATTTGGGGTCTGACTGAGGGCCTCGGCCATCGTCAAATGTGACAAACACAGGCCCTCCCCAGAGACCGCGTCTCCAGGAA
GCACCTGCTCCTCTGGGTTTCGCTGCAGTCACCTGAGCAGGTGCTGGGCCACCGAGCACTTCCATCACACAGTGGCTGGCGGCGGAGCCTTGGG
TCGTTTTCTGAAGGTCACCAACCCTTTGGCATCAGAGCAGGCAGAGCCTTTGCATCCCCGCCAGTCCCCTTGCCCAGGTGGCCCCGGGCAACC
TCCACCCTCAGGCACCCGGTCCCAGTTCTGTTTACAGCTTCTCTTTTCCTGGCTTCTTTCCCCATATTGACAAGATTTCAGTCTTAGGTTGGTC
TTGTCTGCTGTGCTGCTCTGAGGAAGCCTCTCGGCTCCTGGGTGTGCAAGAAGCCAAGGGCAGCCCCTTCCCTGTGAGCGTGCGTGTCCACACG
CGTGTGCAGGTGGCACAGAGCATCCAGGGCTGTCATCAGCTGCTTCTGGACCGCCCAGGTGGCTGCTTGGGAGTTTACCGTCACGGCAGTCCTG
TGCTGCCGTGGAAACGCGGGGTTGCCGTGTGGCCGCCGTGGAAACGCGGGGTTGCCGTGTGGCCGCCGTGGAAACGCGGGGTTGCCGTGTGGCC
GCCGTGGCGCGGCAGCCATCGCCTGCCCGGTGCTGATTGTGCCTCCTGTGTGCCCTTCTCCTGTAGAATTCTCTGGTGGTTGAGATCCCGCCAT
TTCGGAATCAGAGGATAACCAGCCCCGTTCACGTCAGTTTCTACGTCTGCAACGGGAAGAGAAAGCGAAGCCAGTACCAGCGTTTCACCTACCT
TCCCGCCAACGGTAACGCCATCTTTCTAACCGTAAGCCGTGAACATGAGCGCGTGGGGTGCTTTTTCTAAAGACGCAGAAACGACGTCGCCGTA
AAGCAGCGTGGCGTGTTGCACATTTAACTGTGTGATGTCCCGTTAGTGAGACCGAGCCATCGATGCCCTGAAAAGGAAAGGAAAAGGGAAGCTT
CGGATGCATTTTCCTTGATCCCTGTTGGGGGTGGGGGGCGGGGGTTGCATACTCAGATAGTCACGGTTATTTTGCTTCTTGCGAATGTATAACA
GCCAAGGGGAAAACATGGCTCTTCTGCTCCAAAAAACTGAGGGGGTCCTGGTGTGCATTTGCACCCTAAAGCTGCTTACGGTGAAAAGGCAAAT
AGGTATAGCTATTTTGCAGGCACCTTTAGGAATAAACTTTGCTTTTAAGCCTGTAGTCCTGATGTGGTCTTTAAGGATGGTGAATGAGCTTTGT
GCTGGGCGGACGTCCCCGAGACACTTCTCCAGGGGTAACTTCATCTCCTGGGACCACGGGCATCCAGGCTGGGGCACCTTCTCCTCAACCTGCC
TGCCCCTCACCCGCCGTGGGAATGGCTCCTTTTCACTCATACAAAAAAAAAAAAAAAATCATCTTACCTTTTTAACCTTTAGGGTGTTTTCTTAA
AGAAAATACCATCCAGTTTGTTTCTTCAGTCCCTGAACCAGTAGAAGAGAAAGGCGTCCCCCACGCCATCCCCGGCTTCCTTTGTGGGTACAGG
CCACTCCCCCCAGCTCGGAGAGGACAGAATTAGCAGTCATCCTGAATTTTACTGTATTTTGTGGGTACAGGCCACTCCCCACAGCTCGGAGGGG
ACAGTTAGCGGTCATCCTGAATTTTACTGTATTTTGGGTAAGCTTAGCTAACATCAATAATCTTTTTATATTGCTTTTTTTCTAAAAACTGCAG
AGATTCCTGTCATCTGAGAGGGAAATTACACACTGGGCGCTAATTGCAAAAGCAGCTGCGTTCTCTTAGTAAAATCAGGGTGTTTTGGAAGGTT
TCCATTTTCTCTGAATGTAAACAGCATTTGTAATAGACCAGATCCTAAGGAAGCCCTTGAATCCCCACGTTCACACCAAACTGTTGGGACTCCT
TGTTTTTATCAGGCAAGCTCTGGAAAGGCCTCTCAAGATGTGGAAAATGGGGTTTTGCTGTAAAGTCGCTGTACCCTAAGAGTGTCTGTGAGAC
AGAGCTGCAGGGGTGATGTGCAGCCCCCAGCCCAGCCCTCGCGGGGAAGAGCCTCACGCTCTGTGACCCCCAGGATTGTGGGGAGGGCCTCATG
CTCTGGGACCCCCGGGATTGTGGGGAAGAGCCTCATGCTCTGGGACCCCCGGGATTGTGGGGAAGGGCCTCACGCTCTGGGACCCCAGGATTG
TGGGGAAGAGCCTCACGCTCTGGGACCCCCGGGATTGTGGGGAAGAGCCTCACGCTCTGGGACCCCCGGGATTGTGGGGAAGGGCCTCACGCTC
TGGACCCCCCTGGGGTTTACGTGGTCTGTGCCGCCCACACTTAGTGAGTCCAGCCCATTCTTGGAACAAAGTACAATATATCTTACAGAAGAAA
ATATTTTATCTTTTTCTGAAAATATAATGATTGAGTCCTAATTAAACTTCAAGCATGGTTGACCAGAAATTGAATGTTTTAAAGAAAACCTAGG
CCTTATAGAGAAGGATTGCTTTCCAGAGCAGTGCATTAATTTTTTTCTTATTTGCTCAGCATGCGGCAGTCCCCACCGTGGGTTTGAGCAGCAC
TGACTTTAGCACAGATCACGTATCTCAGAGGCAGAAGGGGCGTGCGGGGAGCGTGCCTGCCCTTCACAGGTGGGAGGTGGCGGCCCCCAGGACC
GTGGCCACAGCATGAAGCCGGTGGGGCTGAGCCGCTCCTGCTACCTCCAGTCCACACCCCACCTGGCAGCCGGCCGTCCTGTCCTACCAGCCAC
ACTCCTGCCTCGATTGGCCCCGGCTCCCCTCTCAGCATTGTGCCCAGCGTGGACATCTCTCCTGCACCCCCTGCCCAGTGTCTCGGCTGCACCC
TCCACCCCCCATCTGCTCCAGCATGGCTCAACGCAGGCCAGGTTCCCCAGGCTCACCCTGGGCACCAGCCTTCGCCCGTTCTCCCTCTCTTTGC
CTCCGTCGTCTCTTCTCTCCTGGACGTAGCACCATAGTCCCTGGGTGACCATCCCAGGTCCCCACAAGCACACTGACCAGCCCCACCAGCCCCC
AGGGGCTCCCCGGCTCCCTGTCACCCCACCTGGTCCTGGGGGCTGCGACCGCAACCTGCACCAGACTGTGAGCCCCTCAGGCAGAGCCCCCAGG
CTGCCGCAGGGCGAGATCCCCAGTGTTGACGCTGGGCCTACCTCGAGGCCACTGTCAGTGTGGTTGTTAAATAAATAATGAATAGAAACCAGCA
CCCAGGTATCCGTGTTCCGTCCCGCGTGCCCGCTGCACTTCCTGCCTCTGCAACCCCGGCTGGGTCTGAGGACGCCGAGGCCGCTCCAGGACCT
GCGTCCTCCGTGCTGTGCATCTGTGTCTTGGGGTCCAGCTCAGATGGCTTCTGCCACGTGGTCCGAGAGATAGTTGCCAGCTCTGCTTCTGCCG
ACCCTGGAGGTGGAGGCAGGACGGGTGGGTGTGGGTGGAAGACAGCTGCTTAGCAAGCACCGCCCTGACTCAAAGCTGCTCTTGGCTTTTCCC
TTTTCTACACCGTCATCATGGGGTCGTTAGCAGTCTAGGTTTCCGCTGTGCCGATGAGCTTCGGGTCTGCATGCCCGGGGGTCACGGCAGTGAG
GGGCGGACTCCTAGGGTTGTGAAATGTGCCGTTGAAATGCACAAGGTGACAACAGTGAACCCACTTACACTCCAGCTGTGGAATTCATTTCACG
TACATGTTTGTAAAGTCAAGTCTCATTGTAGGTTTTCCTTCAAAATTGCCATCCCCACAGGCAGCACAGGGAGGCCCCTCCGAGAGCTCCAAGC
ATTTGGAATCCAGGTGCCCGAGGTGTCCGGTGCTTGTGGGGGGCGGGCTGGGGACACGCCTTGGCCACCAGCCGCCCGCACTCCTCGTCTCAGT

GCCAAAGGCATCCTCCGATGACTCGGCCGAAGATGAGCTCAGTCCGCAGCCCCTGTCCCGGCCCCGCCTCCCGTCTTCAGGGGGCCTCACGTCT
CCTTTTGAGTCAGAAGGTCGCAGTGGTCGGCCTCCGGGAATCAGGCATCTGAGTGCAGGGGGCCCCCGGGCTCAGGTGGGGCTGACACCTCTGG
CTGATGGTCTGTGATGGGGCCCAGAGGGAGAGTTCCCTTCACCCTCCCTGGGGCGGGGGGCAGGCATTAAATGGGGAGAAGTTCCCAGCAGAAT
GTATGAGCCCCATGAACGGAGTGGGCATAGCCCTCGGGGAGTCCTGCCGGCCGCCCCTCCTGACATCCCGGGGTGCTGCCCGGTGAGGAAAGTG
AAAATGTTGTCTGCAGTTAGAGGCTGGAACACACATGCCCACAGAGAGGCTTCCTGAGCGGCTTGTCTGTCACTGTTTTTGTGTAACTGCGCCT
GAATTTAATCTCCCGGAAGGCGCGTTAGGAGGGCTGAGGGATGATCTGGTGCCAGGAAGGTTGGCAGTTCCGAGAGGTTATTCCAGCACGTCAG
CATTAAAGGAGAGAGGCGAACCTGGAACGTGGGAACCCTGCCCAGGTCTGGTTAGAAAGGCGGCGTCCGCGTGGCCTGGGGCTTGTGTGAGGGG
TGCACTTGTGCCCCCAGATACAAGCAGGCAGGGCCGGGAATCTGTCTCGTGGGGGGCTGCGGGCACTTTGGAGAAAGAAAACCAAGTTACAAAC
TCAAAATTACCTACCAAAGTCAGTATTTTTTTAAACGAGAAAATAAAACATGACAAATGCCAGGTCTTTTTGTCTGAAGTCGTTTTAGTCGGTT
ACCTGGAAACGCTCCCAGGGCCCCTGAGCTGGGGACACGGAGCTCTTCCCCCATCAGTGCCCAGGAGAAGCTGCTCCCGGCCCTAGGTCCCTGT
GGGAACACACAGCCAGCCCTGCCTCTGTGGGGGTCCCTTTCGTGGCCAGAGCCCCCTTCCTCAGGGGACACGCGGTCCAGCTGAGGGTCATCCC
GTGACAAGGAGTGGCTGCTGTGATGACCCAGGCACAGAAACAGCTTTGACCACAGAACGTGACATCCAGGGTGTGAAGGTGTCGGAACAGATCT
GCCTCGGGATCTGGGGGTCCTTCACCAGGGGTGGGCGTGGGCCCCGAGCCCAGACAGGAGCCAGCTGGAGACTCAAACGTCACGAAGAAGGGAA
GACGCGCTTCCCTCCCCCGGTACTAACCAGCCCTTCTGCTGGCCCTGCAACGATGACCTAGGCTTGAGAATCTGTTTCTGCCTCAAGGGGTAGA
AAGGGGAATAGATTCCATTACTTCCCTGTTTGCAATGGATTATTAAATCCAGCAATAACTGTGGCATCGGAGAGGTGTTGGTACAGAGGGAGCC
GGGGTCCTGTGGCCTTGGGTCCACCCCAGCGATCATCACGGGAGAGAGCTGCTTAGGGTGTGAGCCGTGGGGGGGCGGGGGGCGGCTGTGAAAC
TGAGGTCCCCGTGCACAGATCCCACCACCCAGGGTCGACAGCTGGGGGCTTTCTCTGCTGGCACTTCCCAGGCAGCAGAACCGGCCCCCTCTAGG
AAGCCCCCTCCAGGTGGCGTGGCCCAGGCCCTCAGTAAGCTCAGCTGGGGCTGTGTGAGCTGAGGGGCTCAGAGCACCCCACAAGGGATCCGCC
TGATTGCAGACAAGCAGTTCTGGGCCGCCGCCCGACCTCCATGCCCTTCTGCTCAGCCCGGCAGCCTCTCCTTCCCAGGGGTTTCCCATTCTGC
CTTTTCCCTGGACTTTCCAACTCACTTTGTCCAAGTCCACTGCATGTAAAGCTTGATCCTGAAACAGTGAAGTTCTTGAGGTCTCTGCAGATGC
TCAGCGGCCCCAAATCACCCTTTCGCTGCCATTGGCCAAAAGCACAGCCTGGGTGGGCCTTGAACACCTGTGGCCTCTTCCCCTCCCCCTCCCC
TCACCCCACACACTTGGAGACACCCTGGGGCTGGGCCTGAGCTCGGCTCTCACTGCAGAGTAAACCTGCCCACCTCAGACACCCAGGCATGGCT
CCCGCCTTCCCTCATCTGATCCTGCCACCGTGGCGGCTGCCTCCAAGCTCCTGACAACGTCAGGTCAGCCCTGGCCTCGCGGCGCTCTGGGTTT
CAGCCTTAAGAGACTTTCCATGTGTCGGCTGTGGGCGCCTTGACGCACCAGGGCCTGGTCACAGGTCTCAAAGCAGAGATTCTCCTGGCACCC
CTCGTGCGCCCTCCAAGGGCCTAAAACGCAGACGACCCACACTCCATGCCATGTCCTGCACAGGAACCAGGGTGGCCTCCCCTTTCTGCAGCTT
GTGGGGGTCAAGCCGGGACCCCTACACTGATGTTTCAGCCCAGCTCTGCCGCAGCTTAGAAGTCCTACCTGATTTCAGACAGAGCGGATGATGC
TGACATTTCCAGCCCACAGCGTGGCCTGCGCCACGCTCCAGGTCGCCACAGGGGTGAGAATTCTGGGAGCCCAGCTGCCGAGTGCTTCTGGGGT
TGGAGCTGGGCTGGCCCCACCTGTGAACAGCGGCCTGTGGGCCCCTCATCCCTGTTCTACTGAAGGCCCCACAACCACCTGAGGGAGACAGCTT
TTATTAAATTTCAGTTTTTGTCGGTTGCCTCGCTCTTCAGACGGCAAGTGAGAGAAGCGTGTTCTCACGCTTACTGTCAACGTTGCGAGGGAAG
CGTGTTCTCATGCTCACTGTCAACATTGTAAACCTGAGGGAAGCGTGTTCTCAGCTCATTGTCGACGTAAACCCCAGGGAAGCGTGTTCTCACG
CTCACTATCGACGTAAACCTGAGGGAAGCGTGTTCTCGCGCTCACTGTCGACGTAAACCTGAGGGAAGCGTGTTCTCGCGCTCACTGTCGACGT
TGTAAACCTGAGGGAAGCGTGTTCTCACACTCACTGTTGACGTTGCAAGGGAAGCGTGTTCTCGCGCTCACTGTCGACGTTGTAAACCTGAGGG
AAGCGTGTTCTCACACTCACTGTCGACGTTGCAAGGGAAGCGTGTTCTCACACTCACTGTCGACGTTGTGAGGGAAGTGTATTCTCACGCTGTC
GACATAAACCTGAGGGAAGCGTGTTCTCACGCTCACTGTTGACGTAAACCTGAGGGAAGTGTGTTCTCACACTCACTGTCAACGTTGTAAACCT
GAGGGAAGCGTGTTCTCACACTCACTGTCGACGTTGTGAGGGAAGCGTGTTCTCACGCTCACTGTCGACATTGTAAACCTGAGGGAAGCGTGTT
CTCGCGCTCACTGTCGACGTTGCGAGGGAAGCGTTTTCACACTCACTGTCGACGTAAACCTGAGGGAAGCGTGTTCTCACGCTCGCTGTCAACG
TAAACCTGAGGGAAGCGTGTTCTCACGCTCACTGTCGACGTTGTAAACCTGAGGGAAGCGTGTTCTCACGCTCGCTGTCGACGTTGTAAACCTG
AGGGAAGCGTGTTCTCACGCTCGCTGTCGACGTTGTAAACCTGAGGGAAGCGTGTTCTCATGCTCACTGTCGACGTTGTAAACCTGAGGGAAGCGTG
TTCTCGCGCTCACTGTCGACGTAAACCTGAGGGAAGCGTGTTCTCACGCTCACTGTCGACATTGTAAACCTGAGGGAAGCGTGTTCTCGCGCTC
ACTGTCGACGTTGTAAACCTGAGGGAAGCGTGTTCTCACGCTCACCGTCGACGTAAACCTGAGGGAAGCGTGTTCTCTCACTGTCAACTTTGCA
AGGGAAGCGTGTTCTCGCGCTCACTGTCGACGTTGTAAACCTGAGGGAAGCGTGTTCTCACACTCACTGTCGACGTTGCAAGGGAAGCGTGTTC
TCACACTCACTGTCGACATTGTGAGGGAAGTGTATTCTCACGCTGTCGACATAAACCTGAGGGAAGCGTGTTCTCACGCTCACTGTTGACGTAA
ACCTGAGGGAAGTGTGTTCTCACACTCACTGTCAACGTTGTAAACCTGAGGGAAGCGTGTTCTCACACTCACTGTCGACGTTGTGAGGGAAGCG
TGTTCTCACGCTCACTGTCGACATTGTAAACCTGAGGGAAGCGTGTTCTCACGCTCACTGTCGACGTTGCGAGGGAAGCGTTTTCACACTGTCG
ACGTAAACCTGAGGGAAGCGTGTTCTCACGCTCGCTGTCAACGTAAACCTGAGGGAAGCGTGTTCTCACGCTCACTGTCGACGTTGTAAACCTG
AGGGAAGCGTGTTCTCACGCTCGCTGTCAACGTAAACCTGAGGGAAGCGTGTTCTCACGCTCACTGTCGACGTAAACCTGAGGGAAGCGTGTTC
TCACGCTCGCTGTCGACGTAAACCTGAGGGAAGCGTGTTCTCACGCTCACTGTCGACGTTGTAAACCTGAGGGAAGTGTGTTCTCACACTCACT
CGACGTGAGGGAAGCGTGTTCTCACGCTCACTGTCGACATTGTAAACCTGAGGGAAGCATGTTCTCACACTCACTGTCGACGTTGTAAACCTGA
GGGAAGCGTGTTCTCACGCTCACCGTCGACGTTGTAAACCTGAGGGAAGTGTGTTCTCACGCTCACCGTCGACGTTGTAAACCTGAGGGAAGCG
TGTTCTCACGCTCACTGTCAACGTTGTAAACCTGAGGGAAGCGTGTTCTCACGTTCACTGTCAACGTTGTGAGGGAAGGGTGTTTTCACGCTCA
CTGTCGACGTTGCGAGGGAAGCGTGTTCTCACGCTCACCGTCGACGTTGTAAACCCGAGGGAAGCGTGTTCTCACGCTCACTGTCAACGTTGTG
AGGGAAGGGTGTTTTCACGCTCACTGTCGACGTTGCGATGGAAGCGTGTTCTCATGCTCACCGTCGACACTGTAAACCTGAGTGAAGTGTGTTC
TCACGCTCACTGTCGACGTTGCGAGGGAAGCGTGTTCTCATGCTCACTGTCGACGTTGTGAGGGAAGCGTGTTCTCACGCTCACTGTCAACGTT
GTAAACCTGAGGGAAAGGAATTCTCTCTCACATGCTGTGGGGTGCTGGCCCCACCAGGCCTCCCAGGAGACCTCCCCAAAAGTCAGAAGAAGGG
CTCCAATTGAAAGGGAGGTCCGAGATGTGCTCGCCAAAACCACCCCCAGCAAGACGCCAGGCATCCTAGCCACCCGACGCTCAGGCCGTGCGTG
TCCTCAGAGCGTGTTTTAAAGCAGGAGGGATTTGGGGTGGAAGATTGCTCCTGCAGAAATCAGAGATGAGGGGAGTAAATTAGGGAACCAGCGT
CAGGATCCAGACTTCTGTGAAAGAGCCACAGGGCTCAGCATCCGACGGGCGCACCTGGGGCTGGGCGAGTCTGGCTCCAGAAGGGGGGTGGGGC
CGGGAGCCTGAGATGGGATGAGAGGGCGGGAAGGGGCTTGTTGAGAAATCTAAGGGCCACGGGCCACCAAAAACAAACCAGGAGGTGTGAGTCA
GTGGGGAGGCTGGGTGCCAGGAAGCCTGCGCTCTGGGACATGCGTGGGGCAAGAGGGGCGCCCTGAGCTTGGCGACGCCGCGCGCCTGGG
AGGGATCCGCCTGTCCACGTGCAGCCGCCTCCGGGCGGCGTCGGCCATGCTGCTGCCCCACCGTGGCTCTGTGGCTCCAGCCGGAATGGCAAAG
CCTGGCTCCACAGCTGCCTGGGAGCGTGAGTCACGCGCCCCACAGAACACGGCGGGCAGCGCGGGCGAGGATTGGCGAAAGCCGACCGATGTGT
TTTGGCTTGTGTGGTCTGTGGGAGCGTCCTTTGTCATCAGCCTAATTGGGCAACAGATCCCACCTCACTGTGCCCTGGAGCAGCACGGGGCCAC
CACACAGCCTGAAGCCCCACTTGCGCTTCCCCTCGCTGCCGTGCTGTCCTGGCCCCGTCGCTGCCACCTGAGGCCCCCATCAAGTACCTGAGCT
CTGCGTCTGTTTTCACGCTTCTGTATGTGTAGGAAGCCCCCCACCGATGTTGCTCGGGGTCGACGTGATAAACCTGAGGGAAAGGGAATTCTCT
CACCCCGACCGACACACAGGATGGGTGTGGGGGCAAAGTGAGATCATGAACAAAAGCATCTGGGCCCGTCCTGGACACATGGCCAGGGTTAGCC
ACGGTTGTCAGCCTCCACGGAGCTGCAGTTTCAGCCTGGAGGTCTGTGGCGTGCATGGTTGGAATACTCACCAGACTCACGTGGTCGTGACTCC
GGAAGATCATGCCTTCCTGGAAACCTTGGAACGCGCTTCAGCAGAAACTCCAGTGAAGAGTCGGTGAGAGAGCACAAATTCCCAAAGGCGGATG
GAGTTCGGAAGGACCCTTCTCTGTCTCCCACATCAGGCGGTGCCTGGTTGGTGCAGATTTACCCCATGGTGGGCCGTGGATCCCTCACCTGCTC
TGGAAACTGATCTTGGCTCTGAACAAGGAGAAATGATGCCTCTCAGCCTCGAGGGATGGGTGATAAGGCAGCTTCATCCGCTGTTTCTTTCAT
TGTTTGAGAAAAGTCATGCCCCCGGAGGTGTCATTCCTGGTTGTTTATGTTGATGGCAAAACTTGGACTTTCTTGTCATACAGCAAACAGAAGAC
AATCTGATCTTTGTTTTCCAGGGGTTTAGACTTTGAACAAAACCTCTTTTGTCCAGTACTGTAGTGCATCCCTGGTAGAGTAATTCAAGCTGAA
CACAAGGTTGCATAAAAATGTGGGCATGGGGGAGCAGGGAACTGTCTTGGGATCATTCTTTGCTGTGCACAGCAGCTGCAGCCTGCAGGCAGCT
CAGCGTTAGATCTCCCCACCCCCAATGCCACCTGGGGACCAGATGTTACTGTTGGCGGAAGAAGGGGGTCCGGGGCACTGTCTCAGTCTTTGGG

GCTTCCATGGTGGAGCACTACCGGCCGTACTGTTGGTGGAAGAAGGGAGTCCGGGGCACTGTCTCAGTCTTCGGGGCTTCCATAGTGGAGCACC
ACCGGCCGTACTGTTGGCAGAAGAAGGGGGTCCGGGGCACTGTCTCAGTCTTTGGGGCTTCCATAGTGGAGCACCACCGGCTGGGCACCTTGTA
AACAACAGACATTGATTTCTCACAGCTCTGGGGGCTGGAAGTCCGAGGTTGGGACTGGTACGGTCGGGTTCTGGTGAGGACCATTCCAAGTTGC
AGACAGCCAAAATCCTGCCATATCCTCACATGGCAGGACAGGCGATTTGTCTCTCCCTCCCTGTGGGACGGCAGTCCCGTTGGATCAGGGCCCC
ACCCTGATGACATTGTTTAACCCCCAGTTACCTCCTGCAAACACCACTCTCAAGTAGAGTCACGCGGACGGGGGTTAGGGCTTCAACATGAGGT
TGAGGGGACACGAGTCCGTCCATAGCAGTGACCCCACTTGTCTAAAGCCACAGGGCTGAGCCTGCCCCCTGCCCCCCTGCCTGCCCATCCCCAG
GCCCCCGTTCTTGCCCCCAGGCCCCCCCCCGCCCACACCCCAGGTGCTCCCTGTGCTGCAGACAGAGCCCCCGAGGAGCCAGGAGCTGCCGGGCA
CCAACCACACAGGAAGCCAACAGGTGGGGCAGGCTTGTGCCTGCCACCGTGTTGCTCATGCCGATTTTTATTCTCAGATCTTGTCACCTCTGTC
TTGTAGCAGAAGGGGGCCCTGATCTGGGAGCCGTGAAGACCCCAGCTGTCCCCCGGGAGCCAGGCCACACCAAGGCAGCCAAGGGGACTACGTT
GGGAGGAGGATGTGGTCCGGGCCATTAAGAGCTGTGATGAGCCCCCAGGTCTGCCCTGGGTGAGGGGCTCTGCCTGCCCTGGGGCTGCATAGAC
CCGGCTGGGGCTTTAGAACAGGAACCGTTCGAGGGGCTGCGGTGGGTGAAGCCCACTCATGTCCTGGCTCCTGTTACCGGGTAGGGATGGCAGC
CCATTTTCCAGGCTTGGGGGTTCTTTAAGAGGCCAGGATTGTGCCGAATGCTCTTTGGCTGACGATGGCCGTGGCGGGGGCTTTGGGAGGGGAG
GTCCTGGAGGAGAGGCTTGCCCAGCTCACTGCCTGCGTCTGTGGCCAGAATTGGCACCTGCATGGGGCCTGGAAACGTCGTGCTCACCTGGGGC
GGAAGCCCCCCTCCAGGACTCAGCTCCCAACGTCACTGCTACCGAGGCAGAGACTCTGCAGCGGCATCAGAGAGAAGCTGGGCCCCAGAACAGC
ACCAGGCATGGGACGGGCCCTCCGTGCCTTCCACGGAGGATGCAAGCGTGAGGCCTGGGTCTGCGGGGACGGTTTACCTGTCAGCTCTGCACGC
CGCTGACCACTGCGCGCCGCCTCCACAGACAGTCCCCATGGACGCTGGGGCTGCCGTGGACGATGGGGCAGCCATCATGGACAACGGGACTGCC
ATGGACACCGCAGCCAGCCTGCTCTGTGGGAATATGCTTTGTAAAGCCAGCCGGCCCTGAGGCCAGCACTCGCCTTCCACACTCTGCTCTTTGT
AACGAGTTTCATAAACTCACCCTCAGGTGATTGGTGTTTCTGTTGCACCGTTGCTTAGCCTGAAAATGAGCTGCCCTTTTTCTGAGCCCATCCT
TTCGCCACCTCTACCCCAGCCCCTCATGGCTGATATCAGGAGGTAGCCAGAGGCCGCCTGGTGCAGGGTGAGCCCGGAACACGGGCAACAGCTT
GAACTGGGCCTGTGCGGCCCCCTCCACGGGCGACAGCGTGAACTGGGCCTGTGCGGCCCCCCTCCACGGGTGAGACTCCCAGGCGCTCTTGCAG
ACGCTCACTCACTTTCTCACTGATAGGATGCGTCTTACGAGGCTCTGATTTACAGAGCAGGCATCCATCTTCTCTGAAACCCACACAAAAAGCA
CAGTTTAGGCCAAGCCCAGGTGCAGTATGTTCGTGTGTTTAAGCTTCTTAGATGCTGGGGTGTGGAAGCAGCCGTGTGGCTTTCCTTTGCTTGT
GAAGGTGAGTTTGCACTTTCCAGCTTCTCTCTGTATTGGGAAGGCTGCAGCTCTCCAGGACATGACTTAGCAGAGAACATCCCGCTGCATCCTC
ATAGGCCAGCGGGTCAGGCGGGGCCATTCTGAAACGTCCCCTGTGGGTGCCGGGTGCCTCGCGCATCCCTGCCGTCCACCGCCCTTTGTCCCTG
GCTGTGCTTCGCGGCAGTGCCCCTTAGGGCAAGGACAGGGAGATGGGGCAGTCGCCTGGGGAAGGCCCGGTCCCAGTGGGAGGCAGCCTCAGAG
CAGCTGGGATGGCACAAGACGCCGCTGCCAGGGCTGAGAAACCATCCGGCCAACCCCAGACTTGAGCCAGACTTCATGGGCAAGGCTGGGAGAA
GCCGCGTGGAGACCCCAGCCCAGGGAGGGGCACTGTGGCAGGAACAGGGCCCGCACCTGCAGGGTCAGCCCAGGCCACCTTCCAAGCACGGTGA
CCACGTCGCAGCTCATGCTGCCAGCTCCGGGCCAAGGGACCTGGACTGGCTCTCCAGACTCACAAGATGCCGTCGTGGGTGGGGCACGTGCGGT
GATCCCAGGTTTCAAGTAGCTGCCCCCAGCTCCCTGCAAATAGCTCTGGGCGGAAGAGAAGCAGTGGGCAGGCACACGAGTTTATTCCTGAGAG
GAGCGTGTTGCCACAGCCTCTGTGGACTGGAGCCCCAGGCTTCAGAAAGAGAGGGAGCGCCTGCCTGTGGGTGGGGGGACAGGAGCTGCCAACC
TGGCGGGGTCCCAGCGAAGCGTCCACTGGGCCTTCTGCTTGCCCCTGGGGGTGGTGGATGCATCAGTGCTGGGCCTGCTCCGAACCCGCAGGGC
AAGCAGCCCGTGCGTCCCGATGCCACTGCCGGCCGCCAGCATCCTGGGGAGGTGGGTCGCGTGTCCCAGAGCCCTGTGCCCCTCGCCACCACCA
TCCTAGGTCAGGACTTCCCCAGGAAGAATCCAAGTGGCTGGAGAGATGCGGGGGTTAATGCCGGTACCACCGCGGTTTTAAACGGGGCCGTGTC
TGAGCCGTGTTCTTGACGTTCTCCAGCCAGCAGCAGCAGACGCCACCCGGTTGCCCCAGCCCCAGCGGCTCTCGGGCATAGCCGGCCTTGGCCC
GTGGGGCGGCTGATTTACAGGACAGCTGTGCACGGGGCCTCTAGTGTCCGCCAGAGCTGGTGGGTGAGAGTTTTTAAAGCGCTCGGGACACTTC
ACAGAAGAGGCGCACTGGCCCCCATGCCTGGCCATGTTTCTGGGCCCTGGCTGAAAATCCCGAGCAGCGGAGAGAGGATCCCAACAGGGTATTA
ATTTAACCTTCCAGCCATGTGCTTTTGCTTAAGATCTAAACTCTGAAAATTACCAGCCTAATTTAGAATGGAGGCTTGGCCATTCGGGACACCA
GCATCTTCTGAGCGGGAGAGATGTGGGTGCCCACCGGCGTCTCACTCCCACATCTGGGCCTGTTTCCAGTGACCCCTGCACCTCTCAAAGGCGC
AGGCCTGAGTTCACAGAGAGCACTTGGCCAAGCCCTGCCTCTGGGGCTCCCCATCGTCTGGCTTTGTCGTGGACTCATCATTTCTGGATTTACC
ACATGCTTCAAGCTGGAACAGCAGGAAGGGGCAGTTCCTGAGGCCCAGCTGCGTCCGCAGAGCTGGGGGCGCCATGGCCTAAGGCAAGACGCGT
GCCCTGGATGAAAATGACTCCAGCTCTGTAGTCTCCAGACAGCGGTTAGAGCCCCACCCTCCACGGACACCGCCTCCTGCCACCCCTTCAAAAA
AGTGTTGCAGCCCAGGGCCCAGATATTCAATTTTCTAATGTAAAACGAGGCGGGTAGGGTTTCCCAATCAACATGAGGGCGCCGTGTCCTCTGC
AGCCCCCTGACTTGCACAGGCAGTCCTGGGGCTCTGCCCCATCTGTGAACCCTCAGCTGAAGAGGGCAGCCCCAGAGGCAGCCACATTCAGGTG
GCTGAAGGCAGAGTCCTCCTCCCAGGAACCGCCTCGGCGCTGCCAAGGCCTGTGCACCTTCTTCAGCCCGAACTAAGGAGAATGTGCGGGACTG
AGAGCCATAGACCCTCGTGAGCCAGGCTTGAGCGTTGTCTTCAGATGGGGCCCAGTGGGCCTCACTGTTGTGACGACTGAATGTGACGTCTGGG
GTGTAATTCCAGCGTGACCTGGTCCTGGGGTGTCACTCCAGCGTGACCTGGTTCCTGAGGTGTAATTCCAGCGTGACCTGGTTCCTGGGGTATA
ATTCCAGCGCGACCTTGTTCCTGGGGTGTCATTCCAGCGTGACCTGGTCCTGGGGTGTCATTCCAGTGTGACGTGGTCCTGGGGTGTCACTCCA
GCATGACCTGGTTCCTGGGGTGTCATTCCAGCGTGACCTGGTCCTGGGGTGTCATTCCAGTGTGACCTGGTTCCTGGGGTGTCATTCCAGCGTG
AGCTGTTTCCTGGGGTGTCATTCCAGCATGACCTGGTTCCTGAGGTGTAATTCCAGCGTGACCTGGTCCTGGGGTGTCACTCCAGCATGACCTC
GTTCCTGGGGTGTAATTCCAGCGTGACCTGGTCCTGGGGTGTAATTCCAGCATGACCTGGTTCCTGGGGTGTAATTCCAGCGTGACCTGCTCCT
GAGGTGTCACTCCAGCGTGACCTCGTTCCTGGGGTGTAATTCCAGTGTGACCTGGTTCCTGGGGTGTAATTCCAGCGTGACCTGGTTCCTGGGG
TGTCATTCCAGCGTGACCTGGTCCTGGGGTGTCATTCCAGTGTGACGTGGTCCTGGGGTGTCACTCCAGCATGACCTGGTTCCTGGGGTGTCAT
TCCAGCGTGACCTGGTCCTGGGGTGTCATTCCAGCGTGACCTGGTTCCTGGGGTGTCATTCCAGCATGAGCTGTTTCCTGGGGTGTCATTCCAG
CGTGACCTGGTCCTGGGGTGTCACTCCAGCGTGACCTGGTTCCTGAGGTGTAATTCCAG

HUMAN SEQUENCE - mRNA
GAATTCCGGGCCGGGAGAACCGAACCCCTGGCGGCCGCGACCCCGGCTCCCGCCCCGGCCCCGGCCCGACCCGCCATGACGGGGCTGGAGGACC
AGGAGTTCGACTTCGAGTTCCTCTTCGAGTTTAACCAGCGCGACGAGGGCGCCGCCGCGGCCGCCCCAGAACACTATGGCTATGCATCCTCCAA
CGTCAGCCCCGCCCTGCCGCTCCCCACGGCGCACTCCACCCTGCCGGCCCCGTGCCACAACCTTCAGACCTCCACACCGGGCATCATCCCGCCG
GCGGATCACCCCTCGGGGTACGGAGCAGCTTTGGACGGTGGGCCTGCGGGCTACTTCCTCTCCTCCGGCCACACCAGGCCTGATGGGGCCCCTG
CCCTGGAGAGTCCTCGCATCGAGATAACCTCGTGCTTGGGCCTGTACCACAACAATAACCAGTTTTTCCACGATGTGGAGGTGGAAGACGTCCT
CCCTAGCTCCAAACGGTCCCCCTCCACGGCCACGCTGAGTCTGCCCAGCCTGGAGGCCTACAGAGACCCCTCGTGCCTGAGCCCGGCCAGCAGC
CTGTCCTCCCGGAGCTGCAACTCAGAGGCCTCCTCCTACGAGTCCAACTACTCGTACCCGTACGCGTCCCCCAGACGTCGCCATGGCAGTCTC
CCTGCGTGTCTCCCAAGACCACGGACCCCGAGGAGGGCTTTCCCCGCGGGCTGGGGGCCTGCACACTGCTGAGTTCCCCGCGGCACTCCCCCTC
CACCTCGCCCCGCGCCAGCGTCACTGAGGAGAGCTGGCTGGGTGCCCGCTCCTCCAGACCCGCGTCCCCTTGCAACAAGAGGAAGTACAGCCTC
AACGGCCGGCAGCCGCCCTACTCACCCCACCACTCGCCCACGCCATCCCCGCACGGCTCCCCGCGGGTCAGCGTGACCGACGACTCGTGGTTGG
GCAACACCACCCAGTACACCAGCTCGGCCATCGTGGCCGCCATCAACGCGCTGACCACCGACAGCAGCCTGGACCTGGGAGATGGCGTCCCTGT
CAAGTCCCGCAAGACCACCCTGGAGCAGCCGCCCTCAGTGGCGCTCAAGGTGGAGCCCGTCGGGGAGGACCTGGGCAGCCCCCCGCCCCCGGCC
GACTTCGCGCCCGAAGACTACTCCTCTTTCCAGCACATCAGGAAGGGCGGCTTCTGCGACCAGTACCTGGCGGTGCCGCAGCACCCCTACCAGT
GGGCGAAGCCCAAGCCCCTGTCCCCTACGTCCTACATGAGCCCGACCCTGCCCGCCCTGGACTGGCAGCTGCCGTCCCACTCAGGCCCGTATGA
GCTTCGGATTGAGGTGCAGCCCAAGTCCCACCACCGAGCCCACTACGAGACGGAGGGCAGCCGGGGGGCCGTGAAGGCGTCGGCCGGAGGACAC
CCCATCGTGCAGCTGCATGGCTACTTGGAGAATGAGCCGCTGATGCTGCAGCTTTTCATTGGGACGGCGGACGACCGCCTGCTGCGCCCGCACG
CCTTCTACCAGGTGCACCGCATCACAGGGAAGACCGTGTCCACCACCAGCCACGAGGCCATCCTCTCCAACACCAAAGTCCTGGAGATCCCACT

SAGRES DISCOVERY 02-38

CCTGCCGGAGAACAGCATGCGAGCCGTCATTGACTGTGCCGGAATCCTGAAACTCAGAAACTCCGACATTGAACTTCGGAAAGGAGAGACGGAC
ATCGGGAGGAAGAACACACGGGTACGGCTGGTGTTCCGCGTTCACGTCCCGCAACCCAGCGGCCGCACGCTGTCCCTGCAGGTGGCCTCCAACC
CCATCGAATGCTCCCAGCGCTCAGCTCAGGAGCTGCCTCTGGTGGAGAAGCAGAGCACGGACAGCTATCCGGTCGTGGGCGGGAAGAAGATGGT
CCTGTCTGGCCACAACTTCCTGCAGGACTCCAAGGTCATTTTCGTGGAGAAAGCCCCAGATGGCCACCATGTCTGGGAGATGGAAGCGAAAACT
GACCGGGACCTGTGCAAGCCGAATTCTCTGGTGGTTGAGATCCCGCCGTTTCGGAATCAGAGGATAACCAGCCCCGTTCACGTCAGTTTCTACG
TCTGCAACGGGAAGAGAAAGCGAAGCCAGTACCAGCGTTTCACCTACCTTCCCGCCAACGTTCCAATTATAAAAACAGAACCCACTGATGATTA
TGAGCCTGCTCCAACCTGTGGACCGGTGAGCCAGGGGTTAAGTCCTCTCCCAAGACCATACTACAGCCAGCAGCTCGCGATGCCACCCGACCCC
AGCTCCTGCCTCGTGGCCGGCTTCCCGCCCTGTCCGCAGAGAAGCACCCTGATGCCAGCGGCCCCTGGCGTGAGCCCCAAGCTCCACGACCTTT
CTCCCGCTGCCTACACCAAGGGCGTTGCCAGCCCGGGCCACTGTCACCTCGGACTCCCGCAGCCGGCCGGAGAGGCCCCCGCCGTCCAGGACGT
GCCCAGGCCAGTGGCCACGCACCCCGGCTCGCCCGGGCAGCCACCCCCGGCCCTGCTGCCACAGCAGTAAATGAAATAATACGAAATGACCTCT
CCAGCACGAGCACCCACTCCTAGTTGCCACATTGGAGCACTCAGTTCAGCAGGGGTATGCTGACTTCAGCAGACAAAGACTTTTGAATAAATAA
ACTGAACTCACACCTGGTACCACTCAGAACCTCCAACTGACTGAATGCCAGGAGCTGAACATTAATATGTGCAAAGATTGGCTCTCCAACAAGA
AGGAAAGCAGGGAGGAAGGGAGACCACTGTGTCGCCTGGAGGAGAAGTCATCTCATGACAACAGAAGGGAGGTGGCCGGGCTGAGCACGGAGAC
CCACCGTGCAGGGGCCTTTCATGGGAACGGCCCACACGCAGTTTGACCCCACGCCCAGCCCTTCTGGCACCCCTGGGGTTCAATACTGGAAGTG
CCTTATTTAACCAGACCATCA

HUMAN SEQUENCE - CODING
ATGACGGGGCTGGAGGACCAGGAGTTCGACTTCGAGTTCCTCTTCGAGTTTAACCAGCGCGACGAGGGCGCCGCCGCGGCCGCCCCAGAACACT
ATGGCTATGCATCCTCCAACGTCAGCCCCGCCCTGCCGCTCCCCACGGCGCACTCCACCCTGCCGGCCCCGTGCCACAACCTTCAGACCTCCAC
ACCGGGCATCATCCCGCCGGCGGATCACCCCTCGGGGTACGGAGCAGCTTTGGACGGTGGGCCTGCGGGCTACTTCCTCTCCTCCGGCCACACC
AGGCCTGATGGGGCCCCTGCCCTGGAGAGTCCTCGCATCGAGATAACCTCGTGCTTGGGCCTGTACCACAACAATAACCAGTTTTTCCACGATG
TGGAGGTGGAAGACGTCCTCCCTAGCTCCAAACGGTCCCCCTCCACGGCCACGCTGAGTCTGCCCAGCCTGGAGGCCTACAGAGACCCCTCGTG
CCTGAGCCCGGCCAGCAGCCTGTCCTCCCGGAGCTGCAACTCAGAGGCCTCCTCCTACGAGTCCAACTACTCGTACCCGTACGCGTCCCCCCAG
ACGTCGCCATGGCAGTCTCCCTGCGTGTCTCCCAAGACCACGGACCCCGAGGAGGGCTTTCCCCGCGGGCTGGGGGCCTGCACACTGCTGAGTT
CCCCGCGGCACTCCCCCTCCACCTCGCCCCGCGCCAGCGTCACTGAGGAGAGCTGGCTGGGTGCCCGCTCCTCCAGACCCGCGTCCCCTTGCAA
CAAGAGGAAGTACAGCCTCAACGGCCGGCAGCCGCCCTACTCACCCCACCACTCGCCCACGCCATCCCCGCACGGCTCCCCGCGGGTCAGCGTG
ACCGACGACTCGTGGTTGGGCAACACCACCCAGTACACCAGCTCGGCCATCGTGGCCGCCATCAACGCGCTGACCACCGACAGCAGCCTGGACC
TGGGAGATGGCGTCCCTGTCAAGTCCCGCAAGACCACCCTGGAGCAGCCGCCCTCAGTGGCGCTCAAGGTGGAGCCCGTCGGGGAGGACCTGGG
CAGCCCCCCGCCCCCGGCCGACTTCGCGCCCGAAGACTACTCCTCTTTCCAGCACATCAGGAAGGGCGGCTTCTGCGACCAGTACCTGGCGGTG
CCGCAGCACCCCTACCAGTGGGCGAAGCCCAAGCCCCTGTCCCCTACGTCCTACATGAGCCCGACCCTGCCCGCCCTGGACTGGCAGCTGCCGT
CCCACTCAGGCCCGTATGAGCTTCGGATTGAGGTGCAGCCCAAGTCCCACCACCGAGCCCACTACGAGACGGAGGGCAGCCGGGGGGCCGTGAA
GGCGTCGGCCGGAGGACACCCCATCGTGCAGCTGCATGGCTACTTGGAGAATGAGCCGCTGATGCTGCAGCTTTTCATTGGGACGGCGGACGAC
CGCCTGCTGCGCCCGCACGCCTTCTACCAGGTGCACCGCATCACAGGGAAGACCGTGTCCACCACCAGCCACGAGGCCATCCTCTCCAACACCA
AAGTCCTGGAGATCCCACTCCTGCCGGAGAACAGCATGCGAGCCGTCATTGACTGTGCCGGAATCCTGAAACTCAGAAACTCCGACATTGAACT
TCGGAAAGGAGAGACGGACATCGGGAGGAAGAACACACGGGTACGGCTGGTGTTCCGCGTTCACGTCCCGCAACCCAGCGGCCGCACGCTGTCC
CTGCAGGTGGCCTCCAACCCCATCGAATGCTCCCAGCGCTCAGCTCAGGAGCTGCCTCTGGTGGAGAAGCAGAGCACGGACAGCTATCCGGTCG
TGGGCGGGAAGAAGATGGTCCTGTCTGGCCACAACTTCCTGCAGGACTCCAAGGTCATTTTCGTGGAGAAAGCCCCAGATGGCCACCATGTCTG
GGAGATGGAAGCGAAAACTGACCGGGACCTGTGCAAGCCGAATTCTCTGGTGGTTGAGATCCCGCCGTTTCGGAATCAGAGGATAACCAGCCCC
GTTCACGTCAGTTTCTACGTCTGCAACGGGAAGAGAAAGCGAAGCCAGTACCAGCGTTTCACCTACCTTCCCGCCAACGTTCCAATTATAAAAA
CAGAACCCACTGATGATTATGAGCCTGCTCCAACCTGTGGACCGGTGAGCCAGGGGTTAAGTCCTCTCCCAAGACCATACTACAGCCAGCAGCT
CGCGATGCCACCCGACCCCAGCTCCTGCCTCGTGGCCGGCTTCCCGCCCTGTCCGCAGAGAAGCACCCTGATGCCAGCGGCCCCTGGCGTGAGC
CCCAAGCTCCACGACCTTTCTCCCGCTGCCTACACCAAGGGCGTTGCCAGCCCGGGCCACTGTCACCTCGGACTCCCGCAGCCGGCCGGAGAGG
CCCCCGCCGTCCAGGACGTGCCCAGGCCAGTGGCCACGCACCCCGGCTCGCCCGGGCAGCCACCCCCGGCCCTGCTGCCACAGCAGTAA

TABLE 39

MOUSE NOMENCLATURE
ICSGNM Syk
Celera mCG3409

HUMAN NOMENCLATURE
HGNC SYK
Celera hCG37721

MOUSE SEQUENCE - GENOMIC

AACTTTTAATAAAATATAGTTGCATACAGGTGAATATAGTCTTAGCATACAAATAACTGGTTTTCTCTAAACTGTAGCATTCCTGGATGCTTTG
TGAAAGAGATTGGGTCTTTTCATGGAAGTGTGGGGAGAGGGAAGAAATTACTTAGAGCCACTGAACTCTTGATCATGGATTCCTTATTTAAGGA
TTCACTGTTTCTTGATCTTGGGGTGAATAACCCAGTCAATGTGTTGCCTTGCAAGCATGAGGACCTGGGGTCAACCCCATGCAGGCCTACAGAA
CAACACCAGTAGCAGCAGGCATGGTGGTTCATACTTCTCAGTCCTGGAGAGGTTTGAACACAGGGATTCCTGGGGCTTCCTGGCCAGCCTAGCC
TGTTCGGAAAGCGCCATGCCAGTAAGATAGCCTGTCTCAGGAAGCAAGACAGATGGAGGGGGTCTGAAAAACAAAAGCTAAGGTTGATCTCTGT
TGGATGTGCATGCACACACACATACACACACACACACAAACATATAATCCACACTCGCATGCACACACACACACACACACACACACACTT
CACTAAAATGTATTTGCAAGTCTAGTCAGTTATAGCACTCTGTCATTTTTTGTGGACATGCACGGAATGATTTCATTCTGTTTCTGTGAGAAAA
CCTGACCAAAAAGCAACTTCTGGCAAGAAAAAGGTTTATTTGGACCCTTTCAGGTCCCAGTCTGTCATTGAGAGGAGTCAGGGTGGGAACTTAA
GCAGGAGCTTGAAATGAAACCATGTAAGGATCCTGCTTGCTGCTCACGTTCTGACCTGTGCTTCTGTAGTTCTCTTATACAGCCTAAGATTGCT
TGCCTAGGGATTGTGCCGCCCATGGTGGGCAGGACCTTCCCACATAAACCATCAATCAAGACAATCTCTCACAGACATGGATGCAGGCCAGTCT
GACCCAGACAATCACTCAATCGAGGTTTTGGATGACTCCTTGCTTGTCAACTTAACAGATGAGGTTAGCTAACCAGGACAGTGGCCCTCTTCTT
GTCTCACAACATAAACAGTGCCCATTTTCTTGATCTATTTAGGGCCACGTTTTAATAACAGATTTTTTTCCGTGCTTTTTGTTGGTGCCATCCC
TACTGAAAATAGTCCTAAGCGTGGGGCTAAAGTGCTGCCTACTGTCCCTAAACACAAAAAGGCTGCTATGTGCTTCATTAAGTAAATTCCCATG
TTGGGTGAGATTCTTACAAGTATTGGAGTCCTGCCCAGAACTCAATGTCAGTGTATTGACAATGGATGGGAGTTGTTTCTTTAAACAGATGCAT
ATCTGCTACAAGGTTGTTCCTTGTCTGGCTGGCAGAAGTATAATCAGGGGATCTCCAGGATTAACTTTAAAAGTTCCCTGAGAAAGAGTGGTTG
AAATTTTGTAAATTCTAGCACTTCTGTGGGAAGTATCTACGGCTCATCATAGGAAGTAACTATATTTAGTGTCATGCATTGGAAAGTAGGACCA
AGGTCAGGGGAATGGATGAAATGGAGAGAGGATGTGTGAGCCCTGATGCTTGTGGTGGTAAAATAACCTGAACACTGGGGTTCATCCCTGACCC
TAACCACAGTAGATGGTAAGTCCTAGGTTCAGATGGTGCTGCTCTGAGGGGATCTAGGCAGAGTACTCTGGCCCCTGGACTTTCTGTAAACATG
GAGAAGTGAGGGGAGATAGGGGTAGGCTGGCAGCATCCTGGAACACACCCTCAGCCATGTGCAACTTCTTTCCTCACCTCAGTTCTCCTTCTCT
CTTGGAATCTGGGTACCAGAAAGTCTTCTCCAGGCTACCAGAGCCCAGACCACTGGTTTGTTGACAGTATGTCGAGATAGTTGTTAGTCGCTGG
TTGTGCCTCTGGTTTGCCTTTGGGTATCTGCTTTGGGTACCAGGATCTAAGGAGCTGCCTGTGTCTGCCCTGAGAAATTCAATTCTTTAATTAG
CTCAATAGCCGGGCAGACACGGCTGTTGCTCAGTGTCTCTGGAGGTCATTGACTGACAAGATAGTACTACATTGGTGCCTGTGATAAGACAAAG
GTCACACAGTCCTCCTTAGTCCTGGGACTGGGGAACAGGCATGTGATTGTCTAATGGGAAAGGAAGGTCAGAAGTCAGTTGGTGAGTAATGTGC
TTGCTCTGCAGCATGGAGACATGGGCTGACAATCACCCATGACAAGGGCAGGGCTGGAAAACGTAATCCCTGGTCTAGGGAAGTAAAGCTAGGC
AGAGCCCTGGAGCTCCGTAGCCAGTCTACCCAAGCCAGGGAGCTCTAGGTTTAATGATAGATTCTGTTACAGAAAACAATGTTAAAAAACGAGA
GGAAGATACCAGATGTTATGTGTGCATAGATTATGTGTTCTCACTCTCTCTCTCTGTCTTCTGGCTGCCTCTCTCTCCTCTCTCTGTGTCTC
TCTGTCTCTGTCTGTGTCTCTCTCACACACATACATGCACACACACATGCTCACATACACATGCACACTCGCACGCATACAC
ACGCAATCACATGCACACATTAGTGCGAAATGATTCCCCGTAACTGGTTATGACTGCTGACCAATGCTCAGGGCTAGCAGAGGGAGAGGAAAAC
CACCCAGCATGTAGGCAGCTTCCTGAAAGCGTTCGGCTTCCTCCATTAGCTAAACTACAGCTTTGGAGGAACGGCACCTTTAGGTAGGAAGAGT
GCCTTAGCCCTTTGATGTCTGCAGTCTCTAAGCGCAAGCCCCTCTCATGCTCCACTCTGCACACCCATGGAGTTTGCTTGACAAATTCAGGCAG
CCATTGACCTCTCCCTATAGCAGAGGGAGGTGAGAATCAACTCTGAGGGCTTCAGTCTGAGCTAGAGGCACACTGACAGCTGCCATGCCTCTGG
ATTCAGCATTTCTTTCCTGGAGTCCTAGGGCTCCCAGGAAGCCAGTCATAGACTCGTGGGCATCTCTGAGGTGGGTGTCTGTTAGTGTCTGTAA
GACTGCAGGAAGTGTGCTCTGGTTAGCCCCTGGCATAAACCTAGCAAGGATCTAGCCTGTGAAGAAGCATGGCCACGCTCTGGACTTGACCGGT
ACAGTGTTCTGAGGGTGGGATGACACCATTTGGTACCCAACTGTGTTCTGAGGGTGGGATGATATCATTTCTGAGCATCCTGATGTGTCTGTCC
CTGTTTGGTGAGCACCTCCCTTCCTGAAAATCATGTGTTTCTATTCCTCCTCTTTATATCTGTGAAACCCACTCTTCCTATCTGCGCAGAGCTT
GCCATCCCAAGGTGCCAGTTGCCATGGTTCCCATCTTCCATGCATAATCAAAGCACTACAGTCGCTCTGACACTGCCCTCCATAGTCATAGGAG
AGCTGGGGAGGTGCACAGGTGTCAAGGTACTGCAGAGCCAGACAGGACACCTGCAGAGCTTGCGTTTAGCTTCTGCTCTGCATCCCTGCTGCCT
TCTAGGCTTAGAGAGCATCATAGCCAAGAGTCCCTCTAGGCCTCCTGACCTCTGCTGTTGTACAGCACCATGCTTAGAGAAACAGAGCTGGCAT
CCTCCTCAGATTGGCTGCTCCTGCTTGCAGGAGTCCATCAGGAGCCAGTCAGTGGACTGCAACCTCAGAGAAGGAAGGTGTGGTTGGGGTCACT
GGACCCTCAAGCAATACTATAGACACCCAGCCTAGTCATCTGTAATTGTGCCCCTACCTATGTGTACATATGGCTTGGCATCTCAGGGAAGGGG
TGGAGTGTGTAGGATGGGAAAGACTAGCTAGAGAATGGGAGTTCTAGCTATGTAGCCATGGGGAAGCCATCATCCATGCTGGGTACTGATCTTC
TAGTGTAGTTGTTTTAGGGTCCCCTACCCATAAACCCCTTGGCCATGTTCTATAACTAAGCCTAAAAAACCCGTTGGTCGCTTAGAGTGAATTT
TTGTGGACTCAAAATTCTTTGGACCCTTATGAGGAAGGGGGAGATGTTTATGTCATCTCTGGGGAGGAGTTTCCACAACGTCTGCTCATTGTTG
AAAATGGTCTTCAAATAAATGAGGGTACATTGAGTTATTTTAATAGATTAGTGAAACCAAAGGTTCTAAGACAGGCTGCATCAAATTTGTGCTC
ACGTCACTGCAACTAATCTAGTGGTAGTAGAAGAGAAGTCCCCCCCCACCCTAAACACACATACCAAGGACTGGTCCAGTCTCTCTGTCAAGAC
TACCCAGGCTGAGCAGCTCCGAGATGCTACTGTGAACAGTTCTAGAGAACCTAATGGGTGGGATGGGGTGGCAATGCAGATGTCCTCGTATGTA
AATAGAGGGTGAGGAGGGTGTCAAGACCACATGTGGAAGAGAAACTTCTCATCATTCTCCGGGAGCTTAGGGCAGATGCTGGACAGCTGGGACC
ATCCCCAGCTGTGTTTGTTGATCCCTGGCCTACACCAAGGAGATCAGAGCAGCAGCTTCAGGGTTGGTGATATATATATATATTTATTTATT
TAAAGAAGCTTATACAACATGAAATTATGTGGGGAAATTAAGAAAAATATGCACATGCTGGAGATACTGACGAATAGGAAGAATGTATTGACTG
CCTGTAGGCAGGCCTTTGAGGTACTTAAGAACAATATATGCCAATGATGTCCTAGGGCTTCAGAGAAAAGGCAGGGAATCCAATGAGACAGCCT
TTCATTACTGAAGCATGGAGCAGGTGACAGAGGTCCCTTCCTTGAAAAAACCATGAGTTTGTGTAAGACATGACTGAGCTCCATCAACACAGAC
ACTGGGCTAGACATCTGGACAGCTGGTGCGCTGCTCTCCAGGATCCTCTGGACTTATACAAATTGGGCTTTTAGCATTTTCATTAGGAAAATAG
CCTATAGCCACAGTAAACTCTCTAAAGAAGAGCATGTGTCCGTTAGGCACATAGTTTGTGGACATCTGGTAGGCCCTGAAACATGAGCCACCGA
GTTAAAGTGTCCAGACCTTTGAAACTTACATTTTCATATAAGGCAAAGATGGAAGCAATCTATAAGGGAAATGGATACTTAAGTGAATTTAAAT
GAGGATGTGTTGGGGATCAATTTGAGGGCTAAAGGCACACACTGAAAAATCAGATCATGAGGCTATCAAGGGGGATGGGAGGATCTTAGACCAC
AGGCCTGGGAAGGAGGAAAGTCATTAGCGAAAATGCTGTAACCAAGAGAGGATAAGCCTGACATCCGAGGCCTGGAAGGACAATGTGGGACACA
GCTGGAGTGGCTGGAGTCAGGCCAAGGAGGGCCTTGTAGGCCGGGGCTGTACTTGCTAAAGAGAAAATGGACAAAGAATGAGGCCCAGAAGAGA
GGACCAGGTAAAACTGGGAGGTGGGCATTACACAGGCCGTGTTGGGAATGGGTGAAGAGCACCAGTGGCTTGGGGAGCCATTTACAGACTCTGT
GTTGCTAGGAAACTCCCTCAAGACCCTTCAGCCATTGGCCACATTGGTGAAGATTGGGACTAGTCTACTCCATGTGTGTCCATGCTTAGAGAGA
GAACAATCTTTTATGACTCTAGGGATGATCTATGGAAGACAGGAGAGAGGGAAGGCTCAAAACACTCTTCAGTATCATCTTCACTGGCTATTGC
AGTTGCTATCACCTCTTTTAGGGAAGAAAGCAATGTAGTGGTCCCCCCAGATGAGGGTTCAGGGTAAGGAGTGGAGTTGGGAAGGTCGAGCTAC

CTCTTGGGCATCCAAGAGTAATTTAGATGAACCAACACATAGGGTTGACCTCACTAGAAAGACTGGATGTCCATTTAATCAGCAAATTACGGTC
AGAAAAAAAAATGAATGACCCTCCACCAAACATCAAGAGCTGCTCCAGGCATGGAGGAATTATGGTTCCATTCATATCTTCCACAGCCAGCTCT
ACTGATATGTTAAAGGGAGGTCACCTTGTTACACTGGACCATGGAGAAGACTGAAGCAGGGAGGGGAGACAAACACCAAGGGGATTTCAAAATA
TGAAAGAAAAAAAATCCCCTCAGTCTGGGTGGTAGCTTAGTGGGTAGGGTGCTTGCTTTGCGGGGACAAGGGCTTGAGTTCACTAACCAGAACC
CATGCAAAAGAGCTAAGCTTGGTGGCTCACAAGTGTTTGTAATCCTGCAGGGAGTCTTCAGCACTAGTTCTCACTGGGAAGGCAGCAAGGAGGC
CAGAGTTTATTTATCTTTGGTAATTCCTCTGCGCATAACTCTTTGCTTTTCCAAGGCCAAAAGCCATTGGCTTCCAGCTACAAACTCTTGCTAG
CAGCAGCAGAGAACTGAGAAGAAAAATGGCTTAATAGCAAGTGCTTCTCTCTCACCAGCTCAGGAGCTCCTGGCTGGTCAGGGGAGAGGCTGGG
AGCTTATCAACTCTTTGTGAACCAGAAAGAAAAGAAAAGGAAGAAAGGGAGACATCAGTCACACACACATGCAGACTTTGGATGAAAAAAGAAA
AGAGGCTTGATTCACTTCACACACACACACACACACACACACACACACACACACACACACACACACCTTCTGATTGGGCCCGACTAACTGTCTCAA
CTCCACAACTGTTCATGCATACTTACATACAGACATCTATACTTATATATTCATGCACACACACACATACACACATTTAGTAGAGCAAAAGCTC
CCATGAGCAAGTTCCATTGAGAAAGTGCCAACACAGAAAAAAAATCACGCATTCTGGATGAAAAATAAACTCCAATCTTTATTGCTCAGAAAAA
GAAGAGGCTTCTGCCTTTTTATTGCTGAAAGTAAGGAAAGGCTCATAAGTAAGAAAATCTCATCCTCTTTATTGCTGAGAAAAATGCCTCACCC
ACCCCCCTCTCTTGCTGAATGAAAGAAGGCTTGTGTCCTACTGACATCGTTCTTAGTTCTTACACTTTCTCAGGAGAATAGATGGCATGGTTTT
CCAAGCACCTTTACATTCTGAAAAGGGTTCATAGCGAGTTCAAGACACTAATTCACGTCAATAAATCGAACAAGAAGTTACAGCAAACGTGTTT
CCATGTGTTTCCATTAAGACTAGTATCTAAATAAACATTCACTATCTAGCTTCTAGATCCATAAGCTCATTAAAAGTTTAAAGCAATAATTCTT
ATGGTGTAAGTTAGCATGGTTTTGTCAAGAGGCAAATTATTTGCCTTGTGTCTCATTAGTTTTGAAGTTTGTATAGGTAAATCCAGTCAATATT
TTATCCTCTGTCCTTTTACCTGCAGTAAATTTCCCTTCCCAGTTTATGACCTTCAGTTATCAGATAATGGTTTCTCAGCTTGCCTAGAGGGAAT
ATTTTTTTCCTCATCATAAATTTGTTGTAACCCTGCTTCCTTATCTTAGTGCAATTAGCCTGTGACACATGAACAGTTACAGAACTCTAATTGC
AGCTTCCATACAATAGAGGATTCAAAATTACTTGTATAAATTTAGGAATTCTATATAACCATTATAATCATTATTAGGAATTACAAAATCATCG
GTTTGTCTACATAGCATTACTACAAGAGAGTACATCCTGACGGATCTGCAGAAAATCTGCCCAACAGACTCCAGGGTGCCCAGGAGTCATTAGA
ATACGCAATAATGACAGGAAATCTCTTGTAGTCTTGCCTTTCTGAGCTCACCCATCACAGGCCATGCAAAAAATGGTGGCCCACTCCAGGAAAG
AGACAGGAGGATCTTGGGATTTGCCAACCCGCCAGACTAGAGTATCTGGCAAGCTCCAGGTCCAATAAGAGGACTGTTTCATAAAAAAGGAGAG
TGATTGAAAACAGCCTCTGAAGTTGACCTCTGGCCTCTAAATGTAAACATGCAGAAGCATCCACATGAACTAGCATGTGTGCACACATACATTT
CCATACTCCTAAGGTCTTGCATGCATAATTTACATCCTACAAGGCCTCAAAAGAGTGAGAGATTTACTGTGTTCTGATGGCTCCCCATATACCT
CACGGCAGCAGAGCTACCTGTAAGGTGTGTGCAGAGGTAAGTACTGGCCAACTCTGGGCACAGGTACAGTGAGGTGGAGTAGGGGGTTGCTTTG
TCAGGACTGGGGTCTTACTACTTTCCTCAAGTTAATGCTTTTACAAAGTGGCTTCACACACTTGTCAATGTCAAACTGCGCAAAGATAGTGTTG
CACTGAGAAGGAAGAGCAAGTGTCTCAGGACTGTTGAGGGTGATAACAGCATTGTGAGCTATGAACTCTCTCTGCCGTCAGAAGAGGGGAGCTC
AGATGTGACATGCAAGCCACAGTGGTTGGTACAATGAGTTCAGTGGTGCCTGGAGGAGCACACGTGTCAGGACACCATGTTACCTGTGCCCACA
TGACATCTTTGAGTTGTGCAGCCACATGGGGGAGGATGACTTTCAGAGAGAAGGCTGTTCATCTAACTCCATGTGGCATGAGTTACACAGCATA
TACACATACCTCACATACACACACCACCGTGTGCCTATGTGTTCACACGGTGGTGTGTGTATGTGAGGTATGTGTGTATGCTGTGTTAAGTGTG
TTCAGTGTGAGGTGTGCTTGTGTGTTCTGGGTACATGCACTGGCTGTATATACTGTATGTGGTATATGTGGGCTATATGTTATGATGTCTGTGT
GCTGTGTGTACCTGTGATGCGTGATGTGTTGATGGTGTGTGTACCATGTGGTATGTGTGCATGTGATACGATATGTGTGATATGTGGAATAT
ATTACGATGTGGTGTGTGTGTGTGGTACATGCATGTGGTATGTGTGGGATATGTGTTTACAGTATGCTGTGTGCATGAGAGGTAGTTTGAAAAC
ACCGAGAGGTAAATGCTCTCTCCCCAGGTGAAAGGATTTCCTTGTCCAGCATATTCCAGACGACCAGCATTTTTTACTTAAACATGCTTTGAAC
ACTTTCTGGGTGGCGCTGTGTGTCTTTTCCATTCACAATTGTGTCCATGCATTCATTTCTCTTCTGCAGAGTGCGTTCCTCAGAGGTAGCATCT
CCCCATGGCAAGCTCCTCACACACCTCCACCTACTGACTGATCATCTGCTATGCAGGGGAGGTGGGCCGAACTGTCCAGGGCTCTGGATGTTTC
TCCTAGTGGCACCCAAGGCTGGAGAGGGCACTCTGGGTAGATGGCACTGGTTATAACTCAGGGAGCCACTTGCTGCTCTTTCCACCCCAGGCAG
GAGATGAGAAAGCCTGTGGTAACGAGGCCACACCTATGGCTCTCTGAGATGTGACTGCAATGCTTGTTTATGTGAAGTAGGCTCCACAGCCTTG
GGATGAAGCTCATCTGTAGGATACATTTCTAGCATTCGTGAAGTTCTTGGTTATACCCCAGTACCATATAAACCACATGTGGTAGTTCGTGCCT
CTGATCTCAAACTGGGGAGAGGGAGGCGGGGGAATTAGAAGTTGAAGGTCATCCTTGACTACATACTGACTGAGTTCAAGGTCATCTTGGGTAA
CTTAAAACCCAAGAGACTGAGGAGGGATGCATAGCTTTTCTTAGCCCGTTCTGTGCCTACTGGGGCCCACCGGGGGCTTTGAGTTCTCACTGGT
TCTGTTCCGTGGACCACTGTCTACCCTCAGGGTACTACGCCCTTGAGGACTGTGTCCAAAGACTACTGTGCACTTCTCTTTTTCTCAGTTTCTT
CTTAGAATTCCTTGTATTAACTAGAAAAAAAAAAAAGAATGATAGTGAATTGGGTCACCTTCGTCAAAAGCCGTGGGTTTGGTTAGCTAACCAC
AGGATGTGTGTTGGGAGACCGTGGGAATTAGGTAATAATAGAAAGTACCACACACCAAACACACACACCAGTGTAAGCACTCTAAGCTTGTATC
CCTGTGGAAACGGTTCTGGTAGTCATAGCCAGTGTCTCTTGTGGTTTGGGTTCTGCATTGTGACTCTCCCGTCTTTGTGGGCCCCAGGTACTTC
TCCATACACTTCCCAGAACTCTGAAGGGGTGCAGACATGGCGGGAAGTGCTGTGGACAGCGCCAACCACCTGACCTACTTTTTTGGCAACATCA
CCCGGGAAGAGGCTGAAGACTACCTGGTCCAGGGAGGCATGACCGATGGGCTCTACCTGCTACGCCAGAGCCGCAATTACCTGGGTGGTTTTGC
TTTGTCGGTGGCTCACAACAGGAAGGCACACCACTACACCATCGAGAGGGAACTTAATGGCACCTACGCCATCTCCGGGGGCAGGGCCCATGCC
AGCCCAGCAGACCTCTGCCATTACCACTCCCAGGAACCTGATGGCCTTATCTGCCTCCTTAAGAAGCCCTTCAACCGGCCCCCGGGAGTACAGC
CCAAGACCGGACCCTTTGAGGACCTGAAGGAGAACCTCATCAGGGAATATGTGAAACAGACCTGGAACCTTCAGGTGAGTCTGCTGGGCTTGAG
CCCACAGAGTTCTCTAAACATATTCAGAGCCTGTGCCTCCTTTACCCAAAGACTAGGATAGCAGATGCCTGTGTGCTGCTGCCCCTCGCTGCCT
CTCTTCCCACCCCATCTGCTCATGGGACCAAAGCGGAGTCCTCACATCCTCTCTGCCCTCCTCCTTTCACCACGAAGGAGAAGGTTGTGTTTTA
ACTTTATTCCTTTGAGTTTTTCTTCTTTGAAAGTCCAACTCTGGCTATTCATTACCAAGATCTGTTGTTCTCTCACTAGGAAGGAAAAGGGAAC
CAGCCTTCTCCACACTTAATCCATCTCCATGTTGTTATTTCCACCTTGTTTCTTCCTGGTCCAGGCTGCTGGCCAGGGCCTCCTCTGATGGACT
TCCTGCAGGAGTGTTGGGGTAGGAAAGATGGGACCGACGACATGGCTGAACCCTGATAGACATGAAGCCCCAGGTGCCCTCCTTACACATGTCA
TCCTTTTAAACTTTCTTTAGTTGCATGTACTGATTTCGTGTGTTGGAGGCGGGTGCCTACAGGTCTACAGCATGCATGCGGAGGTCAGACGACT
TGCAGGGGTCAGTCTCTCTTCCACCTCATGGAGTTCCGGGAGTCAAGCTGAGACGGCCAGGCTCAGCAGCCAGCATCTTTACTGCGGAGCTGTC
TCAGGACCCCCAACCTCACACACATCTTATAGCTCCTTGGCTGTTATGAAATTACCAGGTTTCACACTGAAACTAGTTTGAGTATAGAGCTTTG
GAGTATCTATTCTCTTAGCCCATTGGTTTATGATCTATATATTCAAATATTTGTATGGCTTTTCAAGGGCCCATCTCTTCATTCCGAAGCATAT
TCCTTTATTTATACACTTGATGACATGCAAGTAATATACAAAAGTCTTATTGGTTTTCTTATGAATGAGAGAAAGATGATCTAGAGGGAAGCAG
AGTTTGGTGTTGATAGGACCTGGGACAGATGGGTCTAATGTCTTTCTACCTGGCCAGCTCAGTCTCTCTCCATTCACTGCAGGGCCAGGCTCTG
GAGCAAGCCATCATCAGCCAGAAGCCCCAGCTGGAGAAGCTGATCGCCACCACGGCCCATGAGAAGATGCCCTGGTTCCATGGCAACATCTCCA
GAGATGAATCAGAGCAGACGGTCCTCATAGGGTCAAAGACCAATGGAAAATTCCTGTGAGTGACAAGCCATCTCCCTACCTCCTCACCCAGAGC
TAACAGCTTCCCCAGTTAGAACCCAGGTGGCCTGGGAAGGTGTCACACACCATCATCTACCAACACGGGAGTTGCTGTCACTTGTGACCCAGCA
TGTGTTTTATCTAGCCTGCCCGTAAAGATTGATACCGTGCCTAAAGAAAATGGTGTTCAGTCCCACGAGGGTTGGGTATGTTATCCGTGGTGAG
AGCAGAAGTTCTTTGGATTGGAGGTATTTTCTGATGGAGGAATATTTGCACACATGTAACGAGAAATCTTAGTATCTTATCTAAGCCTGCCCTA
GAAATTCATTTATGTTTTAGAAGCACTTGATGCTTATAATCTCTAGGCAATCAATTTCCTGTGTGTGTAGGTTTTCCTGCTAATGCATGTAAAT
GTATGTGCACCTGTGAATGGAGGTCAGAGGTGTACGTTAGGTATCTCTACAGTTGCTTTCTACCTTATATATCTTAGTATCTCCTTCTTATTTC
TTATTGTGCGTGTGCATGCTGGTGGGTGGGGAGTACTTGTGCCACAGTTGAGGTCAGAGGACAACGTTCATGGAGTCAGTTCTCCCCTTCCACC
TTTACATGGGTTCCAAGGATTGAATCCAGGTCACCAGGCTTGTGCGGCAACCACCTTTGTTCGCTGGCCCTCCCTTCCACCATGTATTTTGAGA
AACAGTCTCTCAAAGAAGCTGGGGTTTGCTGATTTGTCTATACTGACTGGTCAGCAGCCCTCCCCCCCCCCCCCCAGGAATCTTCTGTCTGAACA
GAAATAGTTCTGTGGTCTTCAGTCTGGACAGCTCAATAATGTGAAGGCTTGGATCTTGGATTCTTGACCTGGGTATCTGCAGTGGGTCAGTGTG
AGCCTAAATTCAGAAGGTTCTGGAGCAAATTGGGCAGTGTAACTGAGCAGAGTAGTAGTCTGGGGTGCAGAGAGGCTGGGAGCTGTCCTTGTGT

GGTTAAGCCTTCTCATGTAACGATGCACCTGCCGAGGGAGTGCTGTAGGAATGCCTGCATTTGTCACCCCATGTCCCTACACAGAGGCCTTCTG
GGAACCACCACCCCATTCCTTCCAGTGAAACGTTCTTAGATTCAGGGGTGTGGCCTTACAGTCAGGCAACATGATCAGTATCAGGTTGTCTTCC
TAGAAATATAGGTGTTTCCTCTGCATTTGCATCTAGCTAAAGAATTTTCTCTTACTTCTGATATTAAAAAAAAAAATTTAAGGTGCTGAAAAGA
TGGCCCAGTAGCTAAGAGCACTGGCTGTTTTTCCAAAAGAGCCGAGTTCAATTCTCAGCACCCACGTGGCGGCTCACAACTGTCTCTAACTCCA
ATCCCAGGGGATCCAGTGCCCTCTTCTGGACTCTGCATGAGCTAGGAATTCATATGGTGCACAGACACATGTGCAGGCAAAGCACACAGAGACG
TAAAAAAAGAAAAGAGTAAAATGAAGATTATTTTTAGATTATCTTAATCATTTCTCTTTTTAAAAACCTTTTGTTGGTTCTTTCGTGACTTTTAA
ATCATGCTCCCCAATCTCTCTTATCTCCCCCTTCCCTTGTACCCTCCCCCACCCTTTCAAACTCCCTGCCAACAGAGGAAAAAAAGATCTCATG
GAAGCTGTAGTATGTCACAGTGTGTCCCAGAGCATACCCTTTTGTTCACACTTCTGTGCTTGCAAATATTCATTGCAATGACTTGTTGGTCTTG
TACAAAGCCTCTGGCTTCTGCTACTCTCTTAACACTGGAACCTCACTGGGATTCCTCTCAGATATCCTGGTGTTGCCCTATGTCATGGAGATCC
TGTAGCTTTGGATCTATAGGACCAGCCCGGCAGTTCATAGATGGGGTACATGTTGGGATGGGCCATTCAAAGTCCCGAATCTGGGCAGGTATCT
TGTGTGTGGCTGTTCTGTGAGTATAATACAAGATGCACAGGTCACTCTGTGTGCCATCTTCCATGCCACGCATGCTAAGACAGACCCGTGTCCT
CTCAGTCCTGTCATGAGGTACTCGGCAAGGTCTCTGTGTCACTTCTGTACACACCCCTGCTGGGTGTGAACTCGTGCACAGAGCACACCTCATC
CATCTCCACTATCCGTCTTGTTCTTAGTGCTCACTACAGCAAGGAGAAAGCTGAGATGGCCACACAGGAGATCTTGGTAGAAACAGAAGACTGG
ATCTGTTTATGGTCCAGTGTACAGCAAGTCCTCCATTTTGGGATGGGATGCACTCTTGAATCCCGTGTTAGTAGTAATGCCCTGCTGCCTTCTC
TCAGGTGTGAGCCCAGAAGGTTCTGGAAGCCTTCCCCTCTTCTCTTTCCTTCCTCACCCTCTGTTCATTTCCCACCGTAATTTCCCAGCTGCCT
GTGGAGGAATGACAGGGAAGACCAAGTCAACGGGAGTAGGCACCAAAGCTCCCTCCTCACTGAAAAGCAAGCACAGCCTACCTGCACTCACACG
GTTTGAAGTGCCACTTTGACAGGCCAGACTCTTTACCACATCCTTCATCCTCCGAGGCCCCTTCACACTGAGGAATTCAAGAGTGAATAAAACT
TTAGGCCTTCAGCCTGAGCCTACAGGGGCTGCTGACAGAAATGCACAAAGTATAGGAGTCTCTAGGGCAGCTGTGGAGGCAGCAGGCTACCATT
GTATTCCTCAGAGCTGTAAATTTCCTATTTGTGCTGTCATCAAGCCAGGAAGTCACTCAACTGCTGTGTGAGCCACAGTTCCTATTTTCTGACT
TGTGACATACATTGTGCAAAGAAGAAGAACAAAAAGGAACACAGAAGCAGTTATTCATTCAACAAGAGAGCCGTGTGTCTGAGTAGATAAGCAT
ACATCATCATGCTTTCTACGTCAGGGAAGATGCCAGCCATCCAGGTTCACATGCTACAGAGCCTGTGACACGATAACATGCCACTTCCTGCCAT
GGTGTCTCATAAAATATGTGTTTATGTATATACATATTCATGAGCATCTATGTTCATGTATGCACGCATGTGTGTGTGTGTGTGTGTGTTAG
GGAGGGGTCAGAAGTCAACACTCAATGTCTCTCTATAACTTTCCATCCATTCTGGGTGTCTTGGGAGCAAGGACTGGCCTCTTGTCTTCAACAG
CTGTAATCTTAACTTGTATAGTGTTGCAACGGGAGGACCTCTCTGAGGACGTCCAAGGGGCTCTGAGAGAGAAAGAGGAGGTTAGCTGAGGAAG
GGCATGCCCTAGCCGAAGAAGTATCTGTGAGAGCCTTAGTGACCCAGTATTGCCAGAACATGTTGCATGTGACCAGCTATGGGAAGGGAGGTCC
CTATGATGTCGTGGCAACTGTGTTAAAACCCTTACTTTACTTAGTAATGGCTCCAGACGAAGACTAATGATGCCCAAGAGAAGCTGCGCTTATG
TGGTACTTAGTTCAGTACCCTCTAGTTTCAAGAATCTGCTGGGAGTCAAGTTAAGTGCTCCCTGTAGATCAATGTCTGCTTTCCTGTTCCACCA
TCCACAATGTTCCATTGTGAAGATTAACTGGGTCAAGTTCGGAGACAAGCTGGGGACTGTGGTAGACCTGTGCTCCCTACATCCACCGATGTTT
CCAATCAACTCTAAAGAACGCCTACCTTCCCCTTGTCCTTCAGAGGAAGTGTGGGCTCCTTACTGCAGCCTCTCCAGCCTGCTTAATGTCTGTT
GCCTCCTCCTCCCCCATGTCACGTGGGCCTGTCACCATGTTTCTTCTCATATTAACTTTTGTTTGATCTCTGTCTAATCTGTCCTTTTTTTGCTC
ATTAACTTTTAAAAAATAGTTACATCTTTCAATGTCCAGAAATTAAATTTGGAGTAGGGTTTGTTTACTTTTCACAATTGTTCCTCGGCATTTT
TAGGAGCATCTCGTTGGTTGGTTGCTGATTCCTGTTTTGTTTCTTTAAGCGTTCCATGCATCATCGCTAGTTTGTATCCCATCTCATAGTTTTA
ATACTGAGCATATCCAGGTATACATATAATTTTCCTCCATGTCTCTCTCTTATCCGATGCCTCTTTTATCATAACTCATGTTTACTTACATCTG
GGGTGACCTTTTTGAGTTCATATTTGGTTGATACTCATCTGTGGGGATGCAGAATGCCCTGTGCTCAAGTGCTTTCCTTCAGGATTCAAGTGGC
GGCTGCTACCCTAAAGGCTGGCTCCTGCCCACTGTAGTGCTGGTAACTGTGTTTGTCCTCAACTCCACTAACACTGGTGTGTGTGTGTGTGTGT
GTGTGTGTGTGTGTGTGTACATGCACATGCAAATGTATGCAGGTGTACATGATAGTGCATACATACAGAGGGTAGAGGTCAACCTTATATGTTA
CTTCTCAAGAGCCAACCACATTGCTCCTTCAAAAAGTGTCTCTCACTAGGACCTGGGGCTCATCAATTGGGCTAGGTTTCCTGGCCAGTGAGTC
TCAGGGATCTGTCTCTCTCCACCTCCCTAGTGCTGGGATTTAAAGGATATGCCCCCTGCCCCACCCTCGCTTCCATCTCCTCCCACTTGCTCAG
CAAGCATTTTACTGACTGGACTATCTCCTCCTCAGCCCCAAGCTCGTGCTGTTGCTTTCATTTGCCAAACAAGTTTGCCTCCTCAAGTTCCAGC
TTACGGGGTGATCTATGCCTACTTTTCAAAATTATATTGTGGGCATCAAAGAAACCCTTCTCTTTGTTCGTTAAGGAATGAGACAGTAACTGTT
GTGAGCCTCCTGGGCCACGGCGAAAGCCGAGTTCAGTCAGTCAGTCTGTCTTCCCACACTGGTATGGGTGATCAAAGCAGGTCATTCATT
TGATCTGTGTGGGTTTGCCACCAGGGCGATCAAAAGAAGCATCCTAGCCCGTCTGAAGGGAAAGTTCAAAGACAGCCGTGGACTGATGTCAGTG
TCAGTTTACTGATGCTGCTCAGAGGCCCTGGGAAGCTGGAAGAGAAGCCACAAAAAAGAATCTCTACCTAGGGACTGGAGCAGAAAGACAAAGA
GAAAGCAGCGAGGGGCTGGGTGTATGCCTGCCTATCTTGTACAGACCAGCTGTCAGCCTCAGGAGATAGTCCCCCTGGGAGCTGTCCACCCATG
AGATAGTCCCCGGGAGCTGTCCACCGAGTTCACCCTGGAACCTGGGGCTTGTTGATTATGCTAGGACATCTACTACCTGCAAGTCCCAGAGATC
CACCTGCCTCTGCCTCTGCCTCTGCCTTCCCAGCACAGGGACTGTAAGCAAAATCATGACACTTGGCTGTGTTTGTTTGCTGTTTGTTGTTTGG
GGAGCTTGCTAACTGGCTTGCTTGTTTGTTTTTGTTTTTCTTTGGTGGTGGTGGTGGGGGAGGGTTTCAAGACAGGGTTTCTCTGTGAAGCCCT
GGCTGTCCTGGAACTCACTCTGTAGACCAGGCTGGCCTTGAACTCAGAGATCCGCCTGCCTCTGCCTCCCGAGTGCTGGGATCAAAGGCGTGCG
CCACCACTGCTTGGCTTGTTTGTTTGCTTTAATAGGGATTCTAAAGGTTGAACTCAGATCATCCTGGTTGCAAGACAAGCACTTTTCCTACTGC
ACCCTCTCCACAGTGCAGGGAGAGATGATTGTGGAAGATGTTTCAGAAGACGCATGGGTAGAGAACACAAGTTTGGCATGCCTCAGATCTGGTT
TGCTTTAGGGACCGATCTTGCTTTCAGGATCTGCACAGACAACACCCAGTGTTGCTACTTCAAGGTGTTGGCAGGCACAGCGTTTCTGTACCAA
ATGTCACTTATTCCAGGATCCCTGTCTCCTGTTTTCCTAGCCTTCTTGGAAAGGCTACTGTGCATTCTTAGCTCTGAGCAATGATCATTTTCCC
ACCTATTATTCCCCTCTCTCTTCACCTCTCTTTCCTTCCCCTCCTCTTCCCCCGCCCATCTTCCATCCTCTCTCCTCCTGCCCATTCAGACATT
TTCCCTCCCCTTTCAACTCTGACCCCATCACAGATGCCCCTGGACGATAGCCACAGAGACTGAGTGGTACTCAGGCTGGAGTGAACCTGCTGTC
CTGCTCTCTCTGTATCAGATGCAGACCGCATCCCTAGAGTTTTACACACCGAAGCCTTCAGTATCTCATTATCTCCCAGGCCCTCCACTCACTG
CCTGGTCTCACCACCACCCACACATTCTTTTACCCTGGAGGGCACACAAAGGTAGAGAAGAGGGTTAAGCCCTTCCAGCAAAAGTCACACCCTC
CTCTCTCACATCTATGAGGGGCAAGTTCAAGGTCTGTCTGCCGAGCATGCACGTACATACACATACACATTTCCTCCTACTACTTACCGAACTT
CCCTCTCCTTACCGCTCCTCTTACCCTCCCCCTTACCCTCCCCTCTCCTCCCCTTACCTTCCCACTTCCCCTTCCCCCC
TCCTTTCTTTCTCTCTC

AGGTGGGGGATGCTACCTGCTAATGTCAAACAATGTCTTAAACCCGGCCTTGGCACTGAAGAGAAAGGGAAGAAGACCATAGGAGTAGAAGAGT
TCATAACCTCCTTTGTGTGCTCCAGAAAGTTCTGTTAACAAGCTCATTAGACTCCTCACCTGTCCTTCACCTGAGTCTAGGGGCTTCACAGACA
CCCCAAAGCCTGTGCCTGTGGCCCTGAGCCACACCCCCCCAAGCTCTTTCACTGATCTCCAAAGCGCCATGGCCCTGCTGGATCTTTGCCATAG
TCCATCTCCAACCCTTGGCGTTTCCCTCTGGCTAACTCGCTGGCTCTGGTACAGAGCCCTCCTGTCATCTCGAGGTCTGGGTGCTGCGTGCCCA
CCACCTGCCCATTTGCTGGTGCTGGAGAGCACCTGCTGCCCACCAGGGCCACCAACTGTAGTGACGGTACTGCTTCCTAGGTCAAAAGGTCGCA
GTAGGGGTAATATGGTGTGTGCTCTCTCTCGCAGGATCAGGGCCAGAGACAACAGCGGCTCCTATGCTCTGTGCCTGCTGCACGAAGGGAAAGT
ATTGCACTACCGCATTGACAGGGACAAGACCGGGAAGCTCTCCATTCCTGAGGGGAAGAAAGTTTGACACCCTCTGGCAGGTATGTCTCTGTCTC
TCTGTCTCTCTCTCTCTGGACTCACTTCTGTGTGTCTCTGTATCTCTCTCTCTTTGTCTGTCTGCCTCTCTCTCTGTCTCTCTAGACTCTTTCT
TTCTCTGGACTCTCTTCTCTGTCTCTCCCTGTCTGTCTCTGTCTCTCTCTGTCTCTCCCTCCCTCCTGGAGGGCACAATGCAGACCCACTGGGA
TGCTAGTTCCAAAACTCTTAGGAACAAGAGGAGGAACGAGGCTATCTGTCCCATACCCTCCATCAACCCACTTTCTGATTTCTAGAAGACTTGT
GTGAGAAATGTTCACACAGACCGTCATCAAGTCAATGAAGCCACAAACAGGCTCCGTCACCTGGTTAGAGCCATAAGTTCCTGGTGCCTCAAGA
TCATGTATTTTAGGGCAGCATTAAGAATTTGACAGAAGGCCATGCCATCAGGGACTGGAATAACATGTGCATGCATGCACACACACACACACAC
ACACACACACACACACACACACACACACACACACATACTGTAACTGATCAAACAAAAACCCTAGGGACTGTGACCTAGCTGGTCCTGGAGCTCTGA
AATGCCAGGGTAGACACTGAATTTCAGGTGACATCCCAGTGGATAACCAATATGGGAAGCACCCTCCTAGGCAAGCATCCTCATAGCCGAGCCA
CCACAGGAAGTTAAAACAGCTTAGAAAGCAAGTCTACTCTTCCTGGGCTGCAGACAGCTGCCTGTCCAAAGAGCACCCCATACCTGCTCTGCAA
TGTGTTCTCAACCTAGCTGTCAGTAAGCCTCAAGGCAACTCAAGCACCCCAACATTATTCACCCAGCTCCCCACATTTGCTACTGAGCACATTC
CGCTTCCTTAATTTGATATCATAACTACATTAACTGTGGATGCAGAAGGATCAAAAGTAGTAAATTCAAGGCTAGCCTGGGCTACATAGAAAAA
ATCCTATCTCAGCAAATAAACAAAAAATTAAGTCAATAAAGGACTAAGTGATGGAGATGCTATGGAGACCCCGAACCCCTAATGTATCCCTATC
TGGCTACGTGATGGTTATTTTTTTTAAACTATTTTAAAATTTTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATACATAAG
TACACTCTAGCTAACTTCAGACACACCGGAAGAAGGCGTCAGATCTCATTATGGGTGGTTGTGAGCCACCATGTGGTTGCTGGGATTTGAACTC
AGTACCTTCAGAAGAGCAGTCAGTGCTCTTACCCACTGAGCCATCTCACCTGCCCGTGATGGTTAGTTTTAGTTGTTAATTTGATACCATCTAA
ATCACCTGAGAAGAGAGCCTCAGTGAAGGATTGTGTAGATTAGAGAGTGAGCATATCCATGGGGATTCTTTTGATTACATTAATTGATGTGGGA
AGACCCAGGTCATTGTTGGGTGGCACCATTCCCTAAGCTTGAGTTCTGGTCTGTGTAAGAGCAGAGAGTGCTCACTAAGCAGTAAGCATGCATG
CATTCATTCACTCTCCACTCTTGACTATGCATGTGACCAGCTGCTTCAAGGCTAAAAAGTTTGTTGACTCTATCCAAGGACATCTTTGGCCCAT
CCCCCGAGTACCCTGTGGAAAAGAGACTATCTGGGGTTTAGATGGTTTTAAAACCTGTGAGGGCTGTGACTTATCCGCTGTCTCCCCCCTCTCTC
TCTCTTAACCATTTTCTTCCCTGTTTCTTTTCCAGCTAGTGGAACATTACTCTTACAAGCCAGATGGGCTACTAAGAGTCCTCACGGTACCATG
CCAAAAGATTGGTGCACAGATGGGTGAGTGATCGGCACAGAAGAGGCTCTGTTTTGGGGGAGCTAGCCATTGTCAACCTGGTGTCAGATTTGCC
AAACTCACACAGGGTGAGGCTTCGGCTTTACCGTGTGATTAAACTAGATGTCACTCAAATTCTTGGAATCATTAGCTGAAAGATAACCATAACA
AAAACAAACAAACAAACAAACAAAAACTAGAAGATTTTGATTGCATGTGTGGCCAGGATGTTGGCACATATCTTCAGTCCCAGCATTAAAAAAG
CAGGGTAGGGAATCTGTGAGTTCAAGGCCACTGTCAGACCCTGTCTCAAAGAGAAAAGCTTACTTGGTGGAATGTGTGAAAAATCCAGTAAAAG
AGAAAAGTACAGATGCAGAAAGTTGAGTCTCCCCAGTATGTTCCCATCATACTGATAGATCTGAGAAGTAGATGGTTTGAACAAACACAGAAGT
ACACAGAACTGTAACCATGACATATTCTCCTTCCAGGCCACCCAGGAAGCCCAAATGCCCATCCCGTGGTAAGTATTCTCTGAGGCGTCTCTGC
TGGGGAAGCAGCTGTGTCTGGACACATGGGAAGGTCAGGCTTTAGTCAGCACGGGATGGATACTCTGAGCACATCCCGGAAGATCTGGGAATCC
AGTGAGTCTGAGAAAGCCTCAGCCTGTGACCACCGCCCAGCTAGACGTGTTTTCATGGTTTCTCGGCCGTTTTATTTTCTCTTCATTCTTTGGA
AGTATACAGAGTGAGACAGAAACCCCCTAGGAGATCAGAAAATCCACCGGTCAGATGTAGAAAAGGGGAATATATCGTCCACGTTCAGTCTTGT
ACTGTCTGTGTGAACTCGTGTGTGCCATGCACAGGTCTGCCAACATGCATATCAGTATAACATGGCCAGCGGATAGGTATCTCCTTGAGGTTGG
CTACCCAACTTCTTTGGCCCAACCAATTGACACCTTATTACTAGGGACTTGACTTAAATTGATTTGACTAATGATTAGGGGAGGCAGGGAGGGG
CCACTTGGCAAGATTTCAAGAGAAAGGTCCAGAGAAGGAAGGAGTCTTGGCCAGAATGCACATTCCACTCCATGCCACTCACTAGATAAGAACG
GAGCCCAGATGGCCCTGTGTTGGGTTAACCCTTTCATTGCCATGCCTTCAAAGAGAGAAGAACCTCAAGTCCCCTCTCCATCTGGGATGTCGGA
GCTGGTACTTAGGTTACTTCACAAGAGCATCTCTTCTCATATCTAGGGTCTTCAGCGAGCACATCCCAGCTCATTAGCACCACCAGGGAATAAT
TCTTGACTTCTATCTTGCTAGATGCTAAAAAACCCAATATCTACCAGGCACATGTTCTGTCTCCAACAGGGGCGGTTGGCCACTTGCTACTGAA
CCTGTTCATTCCAGGGTTAGTACTTCTTACCAGACTGAGAGCCCTTGAGTTGGCTAACACACCCTGGAGCTTTAGGGTCCTCTGAACCACAGTG
CCCCCTGGTGGCCTCACCTGGTGTTTATCATTCTGTGCCCTTGAGACAGATCTGTCTAACTTGTGACCCGAGGGTTGCGTATGTCCCAGGATTG
TGTAAATGAAAATGTTATATTGCAACCACTGACACCACTGAACAGCCAGTGACTAGAGTCTCTTGTGGAGTCTGAGACACAAGATTTCCACAGA
CAACGTGGCTGCTTCTTGTCTCAGCTTTAATTTTGTAGCCTTCAGTGGGAAATTATTTATTGAAAATTCTTGACCTCTCTGCCAGAATGATAGG
CTCTTCTGGAAGCTTCTCAAATGATCCGGACTTGCATGCAGGAAATCTCCCTGGGGCAGGTGAAGGGAGCGGGCAGGGCATTTGCAGAATCGGG
GCCAGGTAGCATGTCATGACGAAGAATATCCTTGCATGTGTTTTTCTGAAACTAAACGCTCTATTCCTCTCTGCCGTTGTGGTTTCTAGACTTG
GTCACCGGGTGGAATAATCTCAAGGATCAAATCCTACTCCTTCCCAAAGCCTGGCCACAAAAAGGTGCTAAAGCGTCCCGTGCTTGCTGTCCCT
GACTGAGTGGTAGGATAGACCCTCCTGCAGCCCGTGCTTGGCTGGCTATCCTGTACCCAATGCGGCTTTGCCTCTGTGCCTCCCGCCTGCCCAG
CTCCGAGCATACCCGCTGAGCCTCGCAGCCCCATGCTTTGTCTCCTTACCTCTCTTTACACCCTGCCTCCTGTGCTCCTACTGAGCCTTGCAGT
CCCTGCACAGTGCACACATGCCCTCCCTGCCTGTGGCTTCTCCGTCACCGCCGCTGCGCAGCCTGTCCACGTTGCCTTGCCCTTTACAACACGT
ACCTCCAGTCACTTCAGTGAGCCCCACCTGCTGGCTCTCATTCCAGAGAGTCTTTGCACGCTCAACTCACCTTCAGTGTCCAGAGTCACAAGGG
GCAGCATCAGGGCTTCTGCCACATAGAGTTCTTCCCAGTGGAGGCAACCAAGGTCCCCAGGGGAGCTCTACCCCCTGAGACAGCAGGTTGATTT
CTGCATTTTGTTACATGGCTGAATTTTGAGGGACAGTAAAAAAAGGCCTTCATGGGAAGATGGCCCAGAGGCCAAAGGCAGTTGTCACCAAGCC
TGACAGCCTGAGTGTGATTTCCTGCAACTCACACAGGGTGGAAGGGGAAAGCCAGAACTGACTCCTGCGAGTTGCCTCTGATCCCCATGTATGG
GCCTTGACTCCTACACAGATTTATTTTCAGGGTTTAGGAATCAAACTCAAGCGCTTCACCACTGAGCTGTGCCCAAGCTCCTGGTTTCTGTTTG
TTTATTTGTTTGTTTGGTTGGTTAGTCTGTGAGACGGGATTTTACTCTGTAGCCAAGGTTGTCTTTGAACTTAACTCCACCTCCCAAGCTCCAG
ACTTATAAGAAGTCCTACCCTGACCTTTGTGTTGACTTGTTTATAGTGAATTACATACACAAGCATGCACACACAGACACACACACAGACACAC
ACACACACACACACACACTCACACGCACGCATGCACCCCCATATGTGTATATGCACAGATATATGTGCATATATATACACAT
ATGTAATGTGTATTATATACATCTGTGTATATAATATGTATAGGTTGTTCTATCATATTTATTTTTATCTTCTTTAGGTAAAGATTAACTTTAT
TAATAGTTGTTTCAATTTTATATCAATGTTTTTTCCAAGCGTGTGGGCATATGATTAAGCCAGTGTACACAGAGTTGTATATTAAGGTATTTAT
TAGCAACAGACAGCATAAATGCCCACGAGTTCTACTCAGCAACTATTTGCTCTGTTGGCCACTTCCTAGAGGGTCCTAACCCTGATGGCCAGAG
CACAGCGGAGAAAGGAGCATGATGCTTGAACAGGAAGGCAGCCATGTTGTGCTAAGCTCAGTCAGTGAGGAGAATGTTAGAGGATAGTCTGCGG
CTGCCTGGACCTTTCTCAGAGCCCGACACACCCCCATGTGATTGGGGTAGCTCATGGCCAGCAAGCCCAGTGAGAGCCAGGCAACACGGTACCT
CACAGGCTAAGGGACTTAAACGTGCCTGATGAAGGAAGCTCTTCAGAGGTGTCCACTCAGGCCAGCAGCCACTCACAGACTCTGTAATCCTGAA
TGTGACACCACACTTAACAAGCCTCACAGACACTGCAAGCCTTGTGTCTCCCCCTCCTCAACCGACTCTTCAAGAGCTTCTGATGACACCCTGT
CATTCCACTTGCCGTAGCCCAAGGCTTGTTGCTAACTCACAGCCCCCAGCTCTGCACAGTCCTGGCAAGGAGTGCTTTCATCCCAGCATCTCAA
GTTTATCTTTTGGGTTCCCCCGGAGACATATCAACCAGAGATGCTGTATGTACATGAGCACACATACACATGTATGACACACTCATATATACAC
TCATACATGGAAATATCTGTGCCCGTGTGTACATAGTCGTATACCATATTTGAAATGCATATGCCCTGAATATGCACCATATACACACATATGC
ATCTGCATAGTATGTGTATTTGTGTATGCATCTATTGCTGCTTACACATGGCAAATGGATTGCCTGCGGATAGCTACACAAAGATGTATTTCAA
GGACTTACAGAGTTAAACAGACCAGTTAAGTGATTGCAATGTCCATGGGAGAGATTGTCAAGCAGAGGGGATCCAGAGCCAGGTGGAACCTCAG
TGGTGTTGCTAAAGAAAGCTGCTGCATGGTAGGGGTCAGCTTCCCTTCCCCGCCCCCTTTTCCCTTTCCTTAGAAAGTCTAAACTTACATCTAA
GAATGCTCACCTGAGTCAGGCCCATGTGAGATCATCCTCATGATGGAAGTCACCTACTAAGGACTGTAAGCCCATCAGTGAGCCCCTTCTCAGC

AGCAGGACTGCCTCAGGCTGGGTCTTCTGCGTGACTCAGTACTGACCACTCAGGAGAGCCAGTTGTCATAGCGAAAGCCAACGCTGCAGCTGGA
AGAGATAGCGCAGTAGGCAAAGTGCTCGTCACCCAAGCACGAGCCCCTCAGTTCAGATGCCCAGCACCCAAGTAAGAAGCCAGGCACAGTGGCA
CACGGTGCCATCACAGTGCTGAGGAGCTGAGGCAGGAGGGCCCCTCAGCCAGCCAGTCTCGTCAAAGAGGCAAGCTCCAGGTTCAGTGAGAGAC
CTTGCCTCAAACAATAAGGTGGTGAAGGCATTGAAAAAGATATCGGATGTCAGCCTCTGGCCCCCGAATGTCCACATAAGCAATCGCACGTACA
TGCACATACATGTGCAGGCACATAGAAATCCACCTACGCCATGTGCACATTTTTAGAGAAGCCGACACCAACAAAGCCCAGTCAACAAGCACTT
GAAATAACTCTAGTGTCTAGAGAGTTAATGAAAACTGTGCTTTGATCTTAGGATTATCAATTTAAAATGAAACCAGGGCGGGGACTTAGCTTAG
TGACAGAGTATTTGTCTAACAACCATGAGGCTCTAGATTTGGTCCTTAGCACCAGGAGGAGAAAAATACTTGGAAAGTCAAATACAGATTTTTG
AAATAATGTATTTCTTTTTATCTTATGTGCATTGGTGTTTTGCATGCATGTGTGCCTGTATGAGGGTATCCGATCTTGGAGTTACAGACAGTTG
TAAGCTGCTATGTGGTGAGATGGCTCAACAGTTAAGAGCCCCGATTGCTCTTCCAGAGGTCCTGAGTTCAATTCCCAGCAACCACATGGTGGCT
CACAGCCATCTGTAATGGGATCTGATGCCTTCTTCTGGTGTGTCTGAAGAGAGAATGACAGTGTAAATAAATAAATTAACTTTTTTAAAAAAAT
AAAAAGAGGAGGAAGAGAAAGAGGAGGAAGAGGCCAGGTTTTAGGTCTTTGTTGTGAGATCAAAGAATAATTATACAGGGCATGTGCTCATCTT
TAGGTGAACCTAACCGCATCCCACCTTCTGACAGAGTCTGCCCACATCACACTGCCTGTGCTCCTTCTGAGACTGGAGACTGTAGCCAGCTGAT
TGCAGCCAGTGTCCTGGAGCCCTATGGCTTCTGGCCTCTGGGGAGGGTTACCACCCACACTGCCACCACCGTTGCCTAGTTTGAAAATACTGGC
AGGAAGCTGGGAGTGAAAGTCAAGGTCCAGGAAGCAAAAGGCAAGATTGTGGAAGCAGGACACAGGGCAGAGGCTACCTGCTCCACAGGACAGA
GGGTGTGCTGCAGAGCTCTGGTGATCACGGGCCTAGAGAGAGAGACAGGCAAGTCCCTGGTGCCTACTGACCAGCCATTCAGCCAGTGGAGACC
CCGTGTCAAACGCTAGGGTGGATAGTTCCTGAAAGTTGACCTCTGTCCTTCACAGGCACATGCACACACACAACTGCTCACACACACACGCACA
CACAATATCATGCACGCACGCACACAAGCCTGTCTAATGCATCCCCACTTTTAACACACTGTGACAGAGTAGTTCGAACTTGAAAATTATCTAC
CCAAGGCTGGATTCCTGGCGCCATCTAGGGGCCACTAGAAGTTGTGCATAAGTGGAAAGGGTAAGGGTGAAGCTGTCAGCGCTTCCTTTACAGC
TCTGTTCTCAGTGCAGAACAGAGATGCCAGGGAGGGCCAGACCACCAAGTACAAAGTGGAGAGATGGATAACGCATGCTAGCGCTGTCTACCAG
CAATGCTTCTCACGACAGCTCACATTTCCCTCCCTTCATCTTTCAACTGAAGCTTTGCTTCCAGAGCTTTCAGTGGTGACAGTGGAGCTGGTAG
TGGAGGGGAGGAGGGTTGTATCTTCATCTGCACCACAAAGCAGCCAATGACTGCTCTGGCCCTGCCCATTCCTTCTGCAGGACACTCAAGCCAG
GTGCCATGATTGTCCCAGTTCCCTAGGCTGCCACCTAGGTGCAGGAGGCAGGAGGTGGTGGGTCCTAAGGGTGAGGCATCCAGATGAGAAGGGT
TATGAATCTCTTGGGTCTCAGGGGCTCTGTCTGGATCTTGAATGCTTGGACTCATAGGGTGCTTTCTGTTGGGCAGCATGGAAATGAAGCACTG
AGCTACATCCACTTAAAGAAGAATCCCAGTTTCCAAGGGAGGTGCCTGTTTTGTCCTTTTGTCTGTCATCGAGACATAGGGGTAGCTCCTGTCT
ATCTGGGTGTGAACTCCTTCCAGGAGCTGGGATGCTCAGGGGTCCCTCCCCCCCACTGATCCCTACGTCCTTTTGATATACTGCCATTTTTTAAA
ACTGATTTCCTAAGACCCTCAGCTCTGCTTTAAAAATATTCCAAGAGATTTTGTTAGGAAATTGTGAGTGCTGGTTTATTATAACAAGTCTTTT
GAAGCCCCCTTGCTCCGGAGATAATTCCAGAGAGACTGCATGAAGCCCCAGTTGAGACACTGAGCGGCAGAGGGTAGACGCTCTTCTATCCAC
GGGAAGGATTACGCCTGTCCTCCCTACCCTGGGGTGTCCTTTAACTTCATGATGGTCAGATTGTCTTGGGGATCTCAGACATTTCTTGTGTACA
GAGGAAAAAAATCAAAAGACTTAACATGGTAGTCACGCTAACCGGAAAAGACATCTGGAGACTGCAGCTGGATGATGGTAGCTATTATCAAGTA
TAAACTAGGGTAGTTCTTCCTAGGCAGGGCTTCTAAGCAACAGCCAACTCTGCTGAAGTGATGTGTAAATGTTTAAGAGGGTCGCTCGCAAGAG
ATTGCCTATGCTTAGTTCCCTTCCTGAGAGCAAAGACTGAAGAGAGAATTCATCTCAAACCATGTGAGTTTACATTCCACATCTCCATCTTCTG
AAAGGTCTCTCTGTTCAACCATCCACCATCTATCCACCCACGCATCCTTCTGTCCATCTACCAACTCACTGATTCAACCGTCCATCCATTTACC
TATCTATCCACTCAGCCATCCATTTATCCATCCATCCACATATCTGTCCACATACCCATACATCCATCTATGGATCTGTCCGTACATACACACA
CCCATTCACCCACCTATGTGTCCATCATCCATCCTTTCACACGTCTGTGTTGTGTGTTTCTCCTTAGCATCCGTTACCAGCGTGGCCCAGCTAC
TGAGCTTTGATTTAATGCCTAAGTCTGCATAACTTCTGCTCTGTTGCCATGGTTAGTTCTATCACACAGTCCTTCGGGAGTGTTGAGAGAGGCC
AGGAGAATATGGATCCTGTGACATCTGAGACTGGATGTCCTTTGGCTTTGCTGAAAGAGGTCTTTCCCACAGGTGCTGGCAGACTCTAACTCAT
GGTTAACACCACGAAGCCAGCAAGTCGTAGTGACCGAGTGTGACCCAGCTGCTAAACATTGATGGGTGGGGTTGTCACGTCAGTGAGGCGGGTG
GGATTTTGATATGTGCTTCAAGATGGTGGCTGTGTAATGTTAGCTGAATGTCTCTGTTTCTCTACACTTCCCCTCAAATCTGGCATTATCTCA
CTACTTCATGGCAATGTGTGGATGCTGATAAGGTAAGTAGATATTCAAGACAAGACAGAAATGGGAGGAGAGAGCCGTCAGAGCTGGACGGCGG
TTTGCCTGTGAGATGGGTTTAATAGCCACCACTTTGCTTTAATTTGTGAGTAAAGATGGGCCAGAGAAAAGTTTTTAAAAATGTATCAAATAGA
ACTATAAGGAGATTCACCCCCTCTGCCTACTTCATGAAACAAATTGATATTGATGGATCGAATGAGAAATCTCCGTGTATAAGGGCCAGTGTGC
CTTAGTGAACAGCCACAGGAAAACCAGAAGAGTTCTCTTCCTTCAGGAAGACAGAGAGACTGTCTCTTTGACAGGGCATGTGCCCGATGACATT
ATCATGGTCCTTATCACGATAATGACCGAAGTGCATGGGGTGGGGGTGAGGCAGGATACAGCCTTCCTCTCTGAGACTTGCAGCTGGTTGGCCT
GGGCTACCCTGTGGTAGCAATGCCTTGGTGTCTCAATCTGTATGGAAGGCAAAACAGGTGGACACGGTTTGACTTTTTAAATAACTTCTGCCTG
ACGTTAGATGAAAGCAGAAATGAACCCATGGGGAGGGAGCCTGCGAGGTCCTGCTATTTTCTGGGAGGTGTGAAAGGAAGTTCTCTTGGGATAG
TCAGAACAGATGCTCTTCCCTCCNNNNNNNNNNNNNNNNNNNNCCCTCCCTCCCTCCTTAAGGCCACTTCAGGGGTGGGAGCTATAAGCCATGA
GCCTGTCTAGCCTTCTCAGGTCCAAACAGTTGCCTGAAGAATGAGATGAGCCTTTCTGACCTCTTCCTAATCCTCTGCCTCCCCTGCTTATGTT
ATCTGTGAACACTTGGAAATGGTGGCATCGGGGCAGAAAAATAACATCTTCTCATCTGTGTGCTTCAGCCTGCCCCACCCCAAGGGAGCCGTCC
AGAGAGCACTGTGTCCTTCAACCCCTATGAGCCAACGGGAGGGCCCTGGGGCCCAGACAGAGGTGAGAGATGAAAGATGCACTTTTACTCAATT
AAACATTCGAGCAGGGTACACACAGGCTTGCCAGCATGTAGAGGCAGCTTACAAATTCCTGGCACCATTCCAACTTTGCCTTACAGTGATGGTC
CACACTAAACAGTGGTGATATCCACCAGCCACAGGTAGAAAATATCACCTATCCATAAAACAAGCAGTCCTGTCTAGTGAAAATGGTCTTTTAT
AATTAAAAGAAGCAAGCAAGCAAACAAACAAAAACCCTGAGTTGTTAGCATCGGCAGCATCATGCTGTGTGTCTGGCACATTCCGGGGACCCTG
GTTGCCATTCTTGGAAGAAAATGTTGCCAAAGCATAACTGTAACCTCTGGGTGGCTTTGACGGTAGGCACAACTCACAGATTCTTCTAGATTTG
TTCAGGGAGCTGTGATGACTGGGAGGCCACAGGGGACACAGTGCAGGAGGGCGCAGGAGACTTGTTCCCAGAAATGGGTTTTTTCGGTACCTTT
CGTAGGTTCATGAGTGTCTGCATCTGATTTTCTACTAACAAGATTGGGGTTTGTTTGTTGCTATAGTTCGCCTCCGAATAGAGGCTTAAAGCAA
CAAGAGTCAGTTATCTCTCATTTCATTTATGCCTTGTGGCTGGAGGTGTGACTCATATAGGGTGCTTGTCTAGCATGCACGGAGCCCCGGGTTT
CATCCCCAGACCCGCAGAAGCCATGCATCGTGTTGTATACACCGTCGGCATCATTGCTGGCTTTGTGTTGAGTTCACGGCCTGTCTCACATGAG
CCTCAGAGCAGTAGAACTCCTTAGCATCTTAGAAATGAAGCATGTTGGCTTTTTCAAGCCTTGAGAAGCACACATATCATTTCTCTTGAGCTCT
GTTGGTTCAGTTATGAAAAGCCAACAAGGACTGTGTCGTTGGTGCTACTTCTCAATAGGAGACTGTCACAGCTGGCTTAAAGTCTAAGGAAGGT
TTTATCTGCCATTAGTACTGGTGTAGAAGAACCATCTTGTCTCTTCCCTTGCTTCGCTTCTCCGCTGCATGCAACTGTCCCTTAGACGGAAGGA
GTTTAGGGCAGGGTGGCAAGGGTTGTAATGTCACAGGAGTCCAGACTGGAGTCATCTGTTCCCTGACTACGTTGCAGGCCTTCAGAGAGAAGCC
CTGCCCATGGACACAGAGGTGTACGAGAGCCCTTATGCTGACCCTGAAGAGATCCGGCCCAAAGAGGTCTACCTGGACAGGAGCCTGCTGACCC
TGGAGGACAATGAACTGGGCTCCGGTAACTTCGGGACTGTGAAAAAGGGATACTACCAAATGAAAAAGTAAGCACCGTTGACTCATTGCACTGC
TGTCATCTTCAGTGTGAGAGTGCATTCTGAAAACTTCTCAGAACGTACCTACACTGCTCAATTAATCCCAGACATTGGCGTCCAAGTACGTGTG
TTTATTGCACGCACACACATACACATTGCAGCGCTTATGTGGTCAGAGGACTCATCAATTGGTTTTCTCCTCCTCACACAGGTTCTGGGGATTA
AGCTAATGTCATCAGGTTTGGCAACAAGTTTTTTTTTTTTTTTTTTGTTTTTTTACCAACTGAGCCATCTTGTAGTCTTCATTTCTGACCAT
TTAGAGTAAAAGCATCCTTTGTGTATGCTAACTGTGGTGACAGTAGTGACATGTTTGTATTAGAATGTAGTATAGTATAGAAAACAGCTAAATA
GAAATAAGCAAATTCATAAGAAAATAAAAATATATTCTATCTCCAGAACACAAATATCTGTGACTAACCTTGGTGTAGGCATTTATTGGATCTT
TATATGTTTTGTATGTAAATGGTAAGTGCTTTTGGTACTCTTAATAGTTTGCTGGTAATGTGTGTATCGTGTAGCATTTTCCATGTCTAGACCT
TATATATGAACTAATATTGATTTTACACAGAGATGTGACAACCGGCAACACAACTGAGTTCACTTGTGACCTGTAGCAGTTTATCTAGCTATCC
TTTAATACAGAAATGTGTCACTTAGGAATGCCAGATCTCTGTCTTTCTCTCTCTCTGTCTTTGACTCTGTCTCTGTCTCTCTCTCTCTGTATGC
ATACATGTGGTGGGTATGACTATATATGTTCAGATATGTTCACAAGTATGTGTGGGTTGTGAGTACACATTTGTGCAGGTACAAATGCCCTTAG
AAGTAATAATAATAAAATAATAATAATAGTAATAATAGTAATAATAATAATAGTTCCTCAGGCCCCGTCCACCTTGCTTTTTGAGGCAGGGTCT

SAGRES DISCOVERY 02-39

ATCACTGGAATCTGGAGCTTACCAATTAGGCTATGGAAACTGGCCAGAGAAGCGCAGGAATTCACCTGTCTCTGCCTCCCCAGTGCTGCGATTA
TAGCTGTGTACCACAAACATCTTTTTATATGCTGGGGTCTTGGGGGTCGAAGCCCAGTCCTCATGATTTCACGGCGAGCCCTTTACAGACTGAG
CTGCCTCCCCAGCCCAATAGTGATACTTTTTAAAAGAAAACCATGTCTACTCCTGATCCGTTGGGTGTTTTGTCCTCACCTTGGTGCATTAACTA
AGAATTGTAGAGTAGTGTTTTAGAACTGGCAGGAGTCTTGTGCCTGGTTACAGAGAGATCCCAGCATTCCTTTGGGTGTGGCTTATGTCTGTAT
GATGACTGCTGTCTGACAGACTGAAGACATGCTATTTTGTTCCGATAATTCTGCAAGTTCTTTAGTCCTGCATCTATGCTGNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNTTGTGCTTCTCTTTCTTTCCTGTGATGAGTTACAGCCATAGATTTCAGACCTTAAACATGTCCCTCCATCTT
GGGGTAAACTCCCTCACCTTTGTTCATTACATCTCCTTCCATAAGCAACTGAATATAACCCATGAGTATTTCTCCTAGAATTTTTCCTATCTGT
GCTCATGAAGTGTCCTAATTACTGTTCTATTGCTGTGATGAGACACCGTGACCAAGGTAACTTATAAAAGGAAGCAATTAATTGGGGGCTTGTT
TAGTTTTAGAGGGTGAGTCTCTGAACATCGTCACAGCAGGAAGATATGGCACTGGAGCAGTAGCTGAGTGTATATCTTATTTGCAAGTTGGAGG
CAGAGAGCAAGAAACCTCAAAGCTCACCCCCAGTTACAGATCTCTTCCAACAAGGACACACCTGCTAAACATTCTCAAAACAGTTCTACCAAAC
TAGGGGCCCAGCCTTCGGATATATGAGCCTACCGAGGTTTTTCTCATTAAACCACCACGTGAAGTTATCAGTCAATTGCTTTCTTACAATTCTC
ATAATGGAGTCTTACTCTCTTACCTGTAAAAGAGCTCAGTGCTTGGAAGACCAGGAGTTTCATAGTCTCTTCCTGGGCCACCGTAAACAGTCAG
GAATTGGAACAATAGTAGCCTCTTAGAATTAGTGGGATATTATCTTTCCCCTCTGCTTTTCTAGAAGACGTGGTATTTTCTTTTTTAAATGTCT
AGAGGAATCAAGAAACCTTTTCTAACTTCTTAATTTAGATCCCTGCCTCACACCACAGATGTAATGATAGACCCAACTATGAAAGCCAAAATAG
GTGGCTAGAGATGACAGAATGGAGCCTCCCATGTTCCCGGGAGGGCCCAGAGAGGCTTCTAGGGTGATGATAATATCTAAATCCTCCTGTCAGG
CCACAGGCTGTGTTCTAGATCACCACACTAGCTGTGTGTACTTTCCTGTGTGTGTGTGTCCCACTAATTCTGTTATTTGACCTAGTGTATTTGT
TAGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTACGTACATGCATGTGGTTTGGGGATCAAGCTCCAGCCACCAAGCTTGGCAGAGAG
TATCTTTACCACCTGAGCCCCCACACGGCCCATTTCCTGAATAGTTCTGTTTTGATTCATCGGTTTGAAGGTTCAACAAAAGAAACAACTTCTC
ATGCTTGTGGAAATTTTACCACAGGTAATTTTTCAAAGCATACCTAGTTAATGTTTGTTCTTTCTTTTAAGCCACATTTTGCTAGAATACTTTC
AAGAGTTCAGCATGATCCATGTGATGTTTTTGTGAGGGAATAAAAAAAAATCCATATTTTCGAAACACATTGAGGCTTGCTTAAAAGTAACCAA
GCCCAGTGGGAGAGAAGTGTTTCTTTCTCTTTAACTCTGAGCTTGAACAGAATGTGTGCTTCTGATTGGGCATGTTGTGTACACACCTGTGGCC
CCCCAGAGCCCCAGAGGTAGAGACAGGGGGATCAGAAGTTTAAGGTCATCTCCTACTATACAGCTAGTTTCAAGCCACAGTGGATTATGTAAGA
CCCGGACTCAAAGAAAAAAAAAAAGCAAAGCAATGTATTTTTATTTTTTAAATTCTGGGCCCAGAGGCTCATTTGCAATATCATAAAGAAACTT
TGTATTCCTTTATGCATGTAGGCAGAACCTAGCTGGGAAACCACATGACACTGCAGCAGGCTGTATGTGTGTCACAACAGGGGAACTTTGTTGA
AGCTGGTTGAATATTTCACAATTCGGGGCTTTCCTCAGCCTGGACCATTCTCCATTGCTGTCCACTACACCGGGGTTCACAGGCAGTGGGGCAT
GGTTCCTCTGTCTGTAAAAGAATCAGCTGTAGAAAGAATCTCTTGTGTACTGTATGGAATCATTACCATCATACAGAGCACCAACCACAAACCAG
AGAACAATCCCCGAAGTCCAATTTGGGGAACCAGTGACTGGGCACGCATGTGGGGGTTACTCACAGGAGCTGCGTGTGCCGCTGAGAAGTCTGG
GCCTCAGTGTGGATGGTGGCCTCTACAGGATGTAGGGTCCCCTAGATGCCCCCTCTCGGGCTCCTGTTAGCTTTCACAGTCGTATGCTCTAGCA
CCTCCCAAGACCGTGCGTCTATGTTCAGTTAGGACAGGATCTCACACAGATGACTGGGAAGCGCCGGGGGGGAGTTCCAGGAATCAGGGTAACAG
TCCAGTGAGCATCTCCACCCCTTCCTTATATGGAGGAGCACCAGCATTTGAAGCTGGTCTTTCTTCTCTCTTGCAAAAGGCATAGCTGATCAGA
TGGAAAGAGCAGGTGTTATATTCAGAGGACGTTAAAGATGATCTTAAACCAACGATCCTCCTGTATCCACCTCTGGGGCTCTGGGGCTCACAGG
TGAGCACCCCCATGGCCGGTCTGAAGCACACGAGTTGTTCAAGCTCAGAGTTAAAGGGAAAGAAACACTTCTCTCCCACTGGGCTTTGTTACTT
TTAAGCAAGCCTCAACATGTTTCGAAAATACAGATCTTTTTCAATTTCTCACAAAAATATCACATAGATCGTGTTGAACTCTTGAAAGTATTCT
AACAAACTGTGGTTTAAATGAAAGAATAAACATCAGCTATGTGTGATTTGAAAATTTACACCTGCCGGGCAGTTGTGGCACACGCCTTTAATCT
CAGCACTTGGGAGGCAGAGGCAGGCGGATTTCTGAGTTGGAAGCCAGCCTGGTCTGCAGAGTGAGTTCCAGGACAGCCAGGGCTACACAGAGAA
ACCCTGTCTCGAAAAAACAAAAACAAACAAACAAACAAATAAACCCCAAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAA
AGAAGGAAAATTTGCACCTGTGATAAAATTTTCACAAGAAGGAGAAAAATGGTACTAGCTATTTATCTTGATGTGTGTGTGTGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGCAGGTACTCCTGACACAGCACATATATAGAGGCCAAGGGACAACCCTTGGATGTCACCTCTTACCTTTCACCTTG
TTTCAAACCGCCTCTGGGGATTCACTGCTGGCCCCACGAATCTCCATAGATTCTCCCCTAGAAGCCCTGGGGTTGCAGACATCTGCTATCCAAC
TTTCTGTGGGTTCTGGGGATCTGAACTCTTAACCTCACTCTTGCATGCGCTTTTTACACTGGGTTATCTCCCCAGCCCATGGCCGTTTCTTGTT
TGTTTTTTTTTTTTCGTTTGTTTGTTTGTTTGTTTTTGGGTTGCTTTGTTTTGTTTTTCTGAATGGCTTTAAGAGATTCTCATTGGGCAGCGGG
TGTCAGCACCATTCCCCTCCACCCCCCTCCCCCCAACACACACACAATGTGACTACAGAGAAGAGGACCTCTAGGCAGTTTGGAAAGTTTCTCA
CAAGTTACAATCTGTGTCACAGAGTTGTGAAAACCGTGGCTGTGAAAATCCTGAAGAACGAGGCCAACGACCCGGCTTTGAAGGACGAGCTGCT
GGCAGAGGCGAACGTCATGCAGCAGCTGGACAACCCCTACATTGTGCGCATGATCGGAATCTGCGAGGCGGAGTCCTGGATGCTGGTGATGGAG
ATGGCGGAGCTGGGGCCGCTCAACAAGTACCTGCAGCAGAACAGGTGACCTGGGGCATGCGAGTTGTGTGCGGTGCCACCCCGCACATGCCCTG
TCCCCCGAGTTTGGGCTGTGCCGGGGCCCCGCCCCCACACACGCCCTGTCCCCCGAGTTTGGGCTGTGCCGGGCCTGATTTCTAGGGGAAGCTC
TCTCTCCCTCTCCTCTCTGTGTCTCTGAGTCTCTGTCTCTCTGTCTCTCTTCGTGTCTCTCTCTCTCTCTCTCTCTGTGTGTGTGTGT
GTGTGTGTGTGTGTGTACATCTTTGAGGGTGTGCACCTGTGTGGATGTGTTTATGTGGAAGCCAGAGGTCAATATTGGAGATCACCCTCTCTCC
TCTCTCAGTCTCCAACTTAATTTTTTTTTTTTATTTATGTGAATGTTGGTGTGAGTGTGTGCCACACAACGCAGATACTTATGGAGGCTAGAGG
AGCTGGTCAGATCCCTCGGAGCTGGGCTTACAGCACTTGTGAGCCTCCCAACATAAGTGCTGGGAACCAAACTCCGGTCCTCTGCAAGAACAGT
ACGTGTAGCCAGGCAGTGGTGACACAGGCCTTTAATCCTAGCACTTAGGAGGCAGAGGCAGGTGGATTTCTGAGTTTGAGGCCAGCCTGGTCTA
CAAAGTGAGTTCCAGGACAGCCAGGACTACACAGAGAAACCCTGTCTCGAAAAAAAACCAAAAAGGAGAAAAAAAAAAGAAAGAAAAAAGAAGA
AAAGAAAAGAAAAAAGAACAGAAGGCGTTCTTAACCACTGAACTATCTCGTTAGCTCTCCGCCTTATTTCATGAGACAAGGAACTATCTCATTA
GCTCTCCGCCTTATTTCGTGAGACAAGGAACTATCTTGTTAGCTCTCTGCCTTATTTCGTGAGACAAGGTCTCTCACTAACACCGGAGCTCACC
AATTCAGCCAAACAGAGCCCCAGGGATTACAGGTTCTCACTGGCATACCTGGCTTTTATATGAGCACTGTGGGTCCCAACTCAGGCTTCATCCC
TATAAGTCAAACAGTTTACCAACTAAGGCACCTTCCTAGCCCTGTCCAGTGATAAAATCCTCAATGTGTGTGGACAGGGCATTGCCCACCAGCA
GGCAGAACATTCTTCTTTGGTAAACACCTGGAACAAACATGTTCCTGGGGCACCATCTGTGTCTCGTCTGGCCGACCTCTTGAGTGCCTGCATC
TGAAGAGGCAGCAGCAGTTCGTTGATTCTGGTCCAGACATAGGTGCTCTAATGCTGCGGTCAACATAGAGTAACTCCCCGATTCCTCTGAGCCG
GGGTTCCTTCTGTACAGCTTTTCGTCATCATTTCCAACATGGATGTGTGAGTTTGAGCATGTGCAGCAGGTGGAGGCCAAAGGTCAAGCCAAAC
CCATGCCCATCCCTTAGAATACCATCTGCTTCCTCTGAGACAGAGGTCCCTCATGGGCCAGAGCTCATCAGTTTAGCTAGACTTTCTGGGCAGG
GAACACCAAGAATCCACCCGTTTCACTTACCCGGCTTTGGGATTACAAGTGCAGGCCGCCCGCCATGTTTGGCTTTTATTTCACGAGGGCGCCA
GGCATCAAACTCAAGTCCTCTTGCTTGCAGGATGAGCGCTTTCCTAAAAAGCTTTCTCCATAGCGCTATGAATTTTTGTCCATCTCAAAGCATG
CCTGAAAATGAAGCACACTCATCATATAGTGTGTGTATGTGTATATGTGTATGCACATGTGTGTATGTGTATATGTGTATGCACATGTACATGG
GTATGCATGCCCATGCATACGTGCAGAGGCCAGGAGAGGCCACTGTGTGTGTCCTTCTCAATCACTCTCTGCTTTATTCCCTCGAAACACAGCC
AGGTGTGGTAGCACAGACCCTTAATCTCAACACCAAAGAGGCCGAGGTTGGTGGCTCTCTGTGAGTTTGAGGCCAGTCTGATCGACACAGTTTA
TTCCAGGCTAGTTGGGGCTACAGAGGGAGACCTTGTCAAAAACAAACAAACAAACAAACAAAAAAGGTTCTCCCACAAACAGAAAGTCCTGCCT
GTTTGGTTTGGCGTGGTTTGATTTGGTGTGGTTTTGGTTATTCTGATAGCCAGCAAGCCTCCGCCTCTTCCTGTCCCCATCCCCTCCCAGTGCT
GAGATTACAGCACAGGTGACCACACTCAACTTTCTCCCATCACTTCTGGGGATCGAAACTTAGGTCCTCAGGTTGTGCACGCAGCAACTGTCCT
CGCCCTGAGTCATCTTCCCAGCCTGTCCTGTTGTCGACAAAGAAGGAACGAGTGGACCGACCCTTCTTCCATGTACTCGGGGGACACGGCTGTG
TGTTTGGAATGGCCGCCGTCCACTCTTGGTAATGATGTCGTGTGATTCTAGGCACATTAAGGATAAGAACATCATAGAGCTGGTTCACCAGGTT
TCCATGGGGATGAAGTATTTGGAAGAGAGCAACTTTGTGCACAGAGATCTGGCTGCGCGGAACGTGCTTCTGGTCACACAGCACTATGCCAAGA

TCAGCGATTTCGGTCTTTCCAAAGCCCTGCGTGCTGATGAAAACTACTACAAGGTAGGAGCGCTCGGTGCAAGCTCACAGAACAGGGAGAGGAA
ACAGCTCTGTGCAGGCTCACGGAGCAGGCTGAGAGCTCAGTACAGGCTCACAGAGCAGCTGAGGGGACAGCTTCCATGCATAGTTAAGGTTGCA
GGTTATAAAGATATAGAAAGATAAATGTGTGCTCTCTGTATTTTACTATGGTAGAAATCTCACTAGTAACCTTGGAGAAAAGTATTCTTAAGAT
CGATTCTGTCCATCAAGAAACACAAACCAAAAATACTGTAATGTTTCTCAACTGGAATCTTTTTCAGACTAGGATCTTATGTTGAGTTTTTGG
TGGTGGTGGTGGTTTTTTTTTTTTTTTTTTTTTCGTTTTACATTTACTTATCTTGCTCTGTGTATGGAGTCATGTGTGCCGTAGTGTTCTAATAG
AGAGCAGAGGACAACTTACAGAAGTTGATTCTCTCCATCTACCATGCATATCGGAGGAATCGAACTCTGATCTTCGGATTCGGCAGCAGGCACC
TTACCCATTGAGCCATCTTGCTGGCCTCTAAATGCTTGCGTCAACTTGCTTTGAAACATACAAATCAAACAAATTGATTTTTCTTTTCTTAGGC
AGGGTTTCATGGAGCCCAGGTTGGCATCTGTCTCCTGAGTGCTGGGGTTATAAGTATTCACCACCACGATTGGGTTACTCAGTCTACCTAATAC
TATGACCCTTTAACACAGTTCCTCGTGTTGTGGTGACCCCCAACCTAAAATCTTTCATCGCTACTTCATAACTGTAATTTCGCGACTGATATGC
AGGGTGTCTGATATGTGACCCCCAAAAGGGTCACTACATAGGCTGAGAACTACTGGGGGCTTTATGCGTGTTAAAGGAAACCACTGCTAACTGA
GCCACTTCCTTGGCCCCAAAACTGGTGGATCCTTGAGAGATTTTTCCGAGTCCTTTTCACTGAATTGACACTGTGACTTTCAGCAGAGGCTTTT
TCCTACCCCACTCCTTAAACCCAGCTCCTTTGTGCATCGGGGTGTGCACACCTGACTTAACGCATCACAGAGTGTCCACTCTGCTTCCAGGCCC
AGACCCACGGGAAGTGGCCCGTGAAGTGGTACGCCCCCGAATGCATCAACTACTACAAGTTCTCCAGTAAGAGTGACGTCTGGAGCTTCGGAGT
CCTGATGTGGGAAGCGTTCTCCTATGGGCAGAAGCCCTACAGAGTGAGCCATGCTTAGCTGTGTGTTTTGTGTCTCAGCCTCTTGGACTTAAGA
AACCATCCCTCAGTATGGGGTTATTGCCACAAGAACCTGAACCCCTGGAATCTGAGGACACCCTGGGGTCTCCCATCACCTTCTAACAGTGGGC
GGCTAGTGCAACCTAACTTACGCTTGTACTCACTTGAGAATGACATGTGATACTGAGTGAATGCATTCTCACTGTGCTACACACATACGTGCAC
CAGGCACAGGCCATCCTTCCTGAGAGTTAAGTGGAAATGGTGATACGGATGGATGACATCAAGTATTTTAGTTGTAAGCGTGTGTGTTCTCATG
TGTGTGCACACCTGTGTATGTGCAAACACATTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTAGCCCAGAGACCATCCTCCAG
GTGTCATTCCTCAGGGACTCTCCACTTTGCTTTTTGAGACAGTGTTTTCATTAGCCTAAGCTCACCCAATAGGCCAGGCTGGCTAGCCTGTGAG
CCCCAGGGATCTGCCTGTCTCTCTACCCAGCACTGGGCACACAAACATTCAATACCACGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

TGCAGGATATCGGATATGTAAATATCTGGTATGCAGGATATGTGAAATGAGGGCACATCCCACAGGTTGGGAACCACTGCCTTTGATAGGGAGG
CACTATGCTTAGAGCATGGTTAGGAAGTATTTAGAAGCTATTGGTGTGTCTTGGAATTGTGTTAGTAGGTCAACCGTCCTGTGGAGGGAAGGAA
GGGGGTGGAGGAAATCCCTGTATGTTGAATTCATTGAGCAGACCTGCAGAACACAGCCTTGGTGAGGAAGTCCCATGGGTCAGACCACCTGTAG
ATTTAGTCAGGAGAGGAAGGGCCACTGTATAGTTATGGAGACAGGACTGTCTGCTCTGAGCAAGAAGTTCTCTGCTGAGCTCCTAGCCTACCTT
CCCTTGTCCCCAGGGCTATAGAAAGGCCACCTCGAAGACCAGGGAGCATGTGTGAGAAGTCTGTGGAGGCCTCTGCCTTCTTCCTGGCCTCTCT
AGCAGTGCCTCTCCTTCCCAGGGATTTGGGACTGACCGTTATCTGGCTATGACTGAGCAGAGTGGAGGGATGGGCTTTGCGCCCCCTTCAGAAAG
CCGAAACCGGTTCCCATGTGCAGAGTCACATGTGGCCATCGACCAGGGCTCTCATCTGGTGAAAACTGTGTCTTACTGTCAAGATTAATTCTCT
CCCCTGGGCCACTGAGGAGGGCAGATGGCAAGAGGATCCTCCCTAGAGGATTTAGACTATGAATGCCCACTAAATTTGCAAGGTCAGAAACTAG
CCAAGGTCCTTCTCAGGCATCTATCCTTAACTTGGTCTCTCCACAAGCTGCCTCTGATGCTCCGAGCCCCTTCTGCCTGGCAGCTGGGCTCCCT
GTGTGCTTTTACCTATGACCCTTGGTCAGCAGAGTACAAGGAGCACCTAAGCTGCCTCGCCACCTCCCACTGACTGCAAACACCACATACCTCA
TGCGGAACCGAATGTCTCTCCAGTAAACACCCCAGCCAGCCATTCATAAAAACCTGTCTCTGTGTGCGCTGGGACATGTCCTCCCCTGTACCCCG
GGCCTGCTTTGTGTGCCAGACAGTGACTCCACAGGGATGCCAGGTCTGTGATTGCATTGCTCCTTGCAGAGGGAAGCCCTCGGTTGTCCTTCTC
TGGGAATGCTGCCACCCAGAGCAGCACACAGTGATTCCCTGTTATTTCAGAAATTATTTTAAATAAAGATCTACTATTAGTCTTGTGATGACCT
TTACGGATGCAGACAGGAGATGATGGGATATACACCCTTGACTAGAGCTGGCCAGCATCTTCGTAAGTGCAACCTGCTTGTGAAATACTGAGCC
CTCAGTCATACCACTCGCTACATTTGGGTGGGAACGCAGACTCCAGAGCTCACCTATTCTGCCGCTTCAGAAGCCTGCAAGGAGAGCCCGGTCC
TGTGAGGGGAAACAACTGTGTCTGAGATTCGTAGGCTGAGAACTGACAGCCGAACTCAAACCCAGTAGAAAGTGGTACAAGGAGACCCCAAGGT
GGCCAGAGAGGGCGGGGTGAGCTTTGCCACTGTCAATGAAGACAACACGAAAGCATCAGAGCAGAGAAGGTGAGGATGTAAAGGTCCCGAGCCC
TGGGCTCCTCTCATTCTATAGGGAGTTATGAGCAGGCACACATACATACACTACATATAATTGCATGTGTGCATAGACAAGCATCTTATGTATG
TATACACAGGAACACATACACATGCATGCACAAACGTGCATTAAAAACATGCCTGCAAATGCACACTGCACACACAGACATGAACCTGTGTACA
CAAATCCACAATCACATGTACATGTTGACACATCCCCACTCGCAATGCCACTTTGCCCACAGGCTAATCTGATCTTGGAAATCCCTCCATGGAG
AGTCCCTTCCCAAGTGACTCTAGGCTGTGTCAAGTTCATAGTTTAATCTAAGCATGGTACAGAGAGTGTATGGTAAAGAGAACCTGAGTTTAGC
CCCCAGTGCCTATGTAGAGAGGCAGTGCATTGGCACATGCCCGCAGCGCCAGCTCTGGGGAGGGAGAAGCAGATCGCTACAGCTCACTGGCCAT
CCAGCCTCACCCAGCACGGTTGTCACATTCCAGGTCTTATGATCCTGTCTTAGAAAAATAAAGGAGAAAGCAGCTGAAGAGAACACTCAGTGTC
AACCTTCTGCATGCACACATACAAACATGCACCCCTGAACACATGCACCCCTGAACACATGCATGCACACACATGCATACATACACATGCACTG
GCACACATACAAACATGCACCCCTGAACACATGCACACATGAACACATGCATGCACACACATGCATACATACACATGCAC
TGGCACACATACAAACATGTACCCCTGAACACATGCACACATGAACACATGCATGCACACACATGCATACATACACATGCATTGGCACACATAC
AAACATGTAGCCCCGAACACATGCACACACACAAACATGCACACATACAAACATGCACACATGAACACATGCATGCACACATGTGCACACAAAC
ATGCACATGTGAACACATGCACATGCATGCACACACTCATGCACACACACACATACACATGAGCACACACATGCACGCACGCATGGCAAAGAAC
GCAATGCCTCTGAACAACCTCAATTTAAGAGCATTGCCTGCACACGCATCAACACTTGTCTATCCATACATGTGGACTTGTGTAAGAGCCACAG
ACTTTTAAAGCTGGCAGGCTCCCACACTGTACCAATTGGTTTCCCGGTGCTGTGACAAATACCTGAGTAAAGCAACTTAAAAGGAGGAAAGGCC
TGTCTTGGCAGCAGTCTCTGAGGCCTTGTTCCTGGAGTGAGGGTTCAAGCCCAGGCTCTTGGGCAGCCTACCAAGCCACATCCAGCCAATGCAG
GATACAGAGGTGCAAAGCAGAGACTGGAGGTTTAGCCAATGTAACCACATCAGAGATAGGGACAAAGATGGTTGCTGACCCTCCTAAGCCCATC
TTCTGGGGTCCTGGCACGAAGCTTAGGTTTAAAGAGAGGACCAGCAACATGTCCCCATGGAGGCATGCTCCCATCTGGCAACACGTTTCAGCTC
CAGTCTCCCATGAGCAGCACCCTGACACAACCTCTCCCCAGGAGACCAGCTCCCCTCCTGGCTGGCACCGGGCTTCAGCCTTATCCTTCTCCAC
CAGCTCCTTGGTTTGCAGCTTTGCTGCTCTGATGGTCAAAGGGAGATGCGTGGGGCTCTCGCTACAGCAACGTTATTCCTGCCAGGATGGTAAA
GCTGTGGGTACCTGACGCTGCTGATTTGTGTCTGTGGTGGCATAGCTTCTCACCAGAGGAGCACACCGTGGAGGAAGCTCCTCTCTTACTGTGG
TCAGGAAGCAGAGAGAGAGGGAGAGCGGTTCCCAACATCTACAACAGCATTCCTGACGAACGGCTTCCCTTTCACAAGGCCCCAGATCTTTGAG
TTTATTATTTTATTTGTTTGTGTGTATGTGCATGTTCACACACATGTGCACCCGCGCATGTGTGTGTGTGCTTGTGTATGTGTGTGCTATGTGT
GCAAGGGTTCCTTCTGAGGACAGAAGAGANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNN

GGATGCTGGTGATGGAGATGGCGGACGTGGGGCCGCTCAACAAGTACCTGCAGCAGAACAGGCACATTAAGGATAAGAACATCATAGAGCTGGT
TCACCAGGTTTCCATGGGGATGAAGTATTTGGAAGAGAGCAACTTTGTGCACAGAGATCTGGCTGCGCGGAACGTGCTTCTGGTCACACAGCAC
TATGCCAAGATCAGCGATTTCGGTCTTTCCAAAGCCCTGCGTGCTGATGAAAACTACTACAAGGCCCAGACCCACGGGAAGTGGCCCGTGAAGT
GGTACGCCCCCGAATGCATCAACTACTACAAGTTCTCCAGTAAGAGTGACGTCTGGAGCTTCGGAGTCCTGATGTGGGAAGCGTTCTCCTATGG
GCAGAAGCCCTACAGAGGGATGAAAGGGAGCGAAGTGACCGCCATGCTGGAGAAAGGAGAGCGGATGGGGTGCCCTGCAGGATGCCCGAGAGAG
ATGTACGACCTGATGAACCTGTGCTGGACTTACGATGTGGAGAACAGGCCAGGATTCACAGCTGTGGAACTGAGGCTTCGCAATTACTACTACG
ACGTGGTTAACTAACAGCTCCGGCGCCTGTCCGTGCACACCACGGATTCCCAAGCGATCACAGGAAATTCATTCAGATGAACTGGCTCTCAGAG
TTTCATCTCCCTCTGCCCGGAGTGAGAGCTAAGCTAACATAGGACTCACCCTCACAACAGGTCTGGTGCCCAGAGACAGACAAGCAGCAAGACC
TTGGGGCCTGTGGAGTCGTCTCTCTGGTCTTTGTTTCCATCTGTGTGGTCTTCGCTATCGGTCACGTTTGGGAGCCATTTCCAAATTCTCTTGA
CATCATTCCGTTCCTCTGGGTCCAGGATTTCAGTGTCCCCTGAAGATCAGAAAAGAAAAGTGCTTTGCCACTCCAGAAAGACATAAAGAGAAAC
CTCGCTGGTGCAGTCAGCAAGCTGGAAGGTGGTTAAGGACAATGACAAGCCTGGACACTGGTTTTACTCTCAGCGCTGAGACAGAGATACTGTG
TGGATGACATGCTGAGATGTGCTGGCTTGGCTGACACGCCCCTGGAGTCCACCTCCCTGCAGTCGTGTGTGTTTGCTGGAGGAGGTGTGAATAA
CGTTCTGTGTGGAGGCTGCCGGGGGAGGTGAGCTCCCATGATCCTCTGCGACTGAGCAGAAGTGTGTCAGGCAAGGGTCAGACTCCCCTCTCTG
CAGAGGGAATGCATCCAGGACTCCTTGTTGCTGCCACTAAAAAATTGCCAACCAGCAACTTAAGGGAGGAATGGCTCATTTGAGCTCACAGTTG
GAGGGGATAGGCCATCATGGTGGAAAAGACAACAGGCAGGAAAGGCTTGGTGGCATGAAAAGGAAGCTGGAAGGTCACATGGCATCCACATTCA
GGAAACAAAGAATGAACAGGAAGTGGGGCCAGGCTATAAGGCCCTAAAGGCCACCTCCGGTGACCCAGTTCCTTCAGATCCATCTATCAAAGAT
TCCACAGGCCTCTCAGACACTGAATGCCAACAGCTGGGGACCAAATGTTCAAGCACACAAGGTGCAGTGCCAGGCAGGGGCCTTCCTGAATGAT
TACACAGTGTGGTATCCTGACAGAGCGGGTGAGCCATCTCAGGTCTGTCCCCTTATGAGCCCCGTTTACCATCCCAGATTCCCCCTTGGGACCC
CCCTCATCTGGATCATTCCCCTCCCCCCAGGCCCTATCTCCAAACACCTAGGTACTAAGTGAACCTAGGTACTAAGTCTTCAACACATGAATTC
TGAGGGGACACATTCATACTGGAGCCGATGGCAGCCTGGTGACCAAGACCATCTCAGGATGAGTTTCTGAATGGAATCTTCATTCGCCATAAAA
CCAGAGATGTGACCTTCCCCACAAGGAAGCCTTGCTAAGTGCGACATTGAGCTGAGGACACACAAGCTGAGAATTCCCCCTCTGTCCTCCTAGC
CTTGGCTAACTACTGACCATACACCGAATGTCACCCATTCACGGCACTTTTGCTGAGGACCTAAAAGCTACAAAGGCTGCATAGCCTTCCATCT
AGGTCTAGGGACATGTACAGATGGGAGCATCTCACCTTCACCTCTGAGACACTGGGACATTCACAGCCAGGGATGGTACAGGAGTCCCTGCTGG
TGGTGGGCTCAATGAACAGAGACGATGGTGAAATGGGTGCCTCTCTTTAGACCAGTGGTTCTCAACCTTCCTAATGCTGAGATCTTTCAATACA
GGTCCTTGCGTTGTGGCGACTCCCAACCATGAAGTTATTTTGTTGCAGATTGTCACTGAATTTTGCTACTATGATGAATCGTAGTGTAGATATA
TGATATGCAGGATATCGGATATGTAAATATCTGGTATGCAGGATATGTGAAATGAGGGCACATCCCACAGGTTGGGAACCACTGCCTTTGATAG
GGAGGCACTATGCTTAGAGCATGGTTAGGAAGTATTTAGAAGCTATTGGTGTGTCTTGGAATTGTGTTAGTAGGTCAACCGTCCTGTGGAGGGA
AGGAAGGGGGTGGAGGAAATCCCTGTATGTTGAATTCATTGAGCAGACCTGCAGAACACAGCCTTGGTGAGGAAGTCCCATGGGTCAGACCACC
TGTAGATTTAGTCAGGAGAGGAAGGGCCACTGTATAGTTATGGAGACAGGACTGTCTGCTCTGAGCAAGAAGTTCTCTGCTGAGCTCCTAGCCT
ACCTTCCCTTGTCCCCAGGGCTATAGAAAGGCCACCTCGAAGACCAGGGAGCATGTGTGAGAAGTCTGTGGAGGCCTCTGCCTTCTTCCTGGCC
TCTCTAGCAGTGCCTCTCCTTCCCAGGGATTTGGGACTGACCGTTATCTGGCTATGACTGAGCAGAGTGGAGGGATGGGCTTTGCCCCTTCAGA
AAGCCGAAACCGGTTCCCATGTGCAGAGTCACATGTGGCCATCGACCAGGGCTCTCATCTGGTGAAAACTGTGTCTTACTGTCAAGATTAATTC
TCTCCCCTGGGCCACTGAGGAGGGCACATGGCAAGAGGATCCTCCCTAGAGGATTTAGACTATGAATGCCCACTAAATTTGCAAGGTCAGAAAC
TAGCCAAGGTCCTTCTCAGGCATCTATCCTTAACTTGGTCTCTCCACAAGCTGCCTCTGATGCTCCGAGCCCCTTCTGCCTGGCGACTGGGCTC
CCTGTGTGCTTTTACCTATGACCCTTGGTCAGCAGAGTACAAGGAGCACCTAAGCTGCCTCGCCACCTCCCACTGACTGCAAACACCACATACC
TCATGCGGAACCGAATGTCTCTCCAGTAAACACCCCAGCCAGCCATTCATAAAAACCTGTCTCTGTGTGCGCTGGGACATGTCCTCCCTGTACC
CCGGGCCTGCTTTGTGTGCCAGACAGTGACTCCACAGGGATGCCAGGTCTGTGATTGCATTGCTCCTTGCAGAGGGAAGCCCTCGGTTGTCCTT
CTCTGGGAATGCTGCCACCCAGAGCAGCACACAGTGATTGCCCTGTTATTTCAGAAATTATTTTAAATAAAGATCTACCTCGTGCC

MOUSE SEQUENCE - CODING

ATGGCGGGAAGTGCTGTGGACAGCGCCAACCACCTGACCTACTTTTTTGGCAACATCACCCGGGAAGAGGCTGAAGACTACCTGGTCCAGGGAG
GCATGACCGATGGGCTCTACCTGCTACGCCAGAGCCGCAATTACCTGGGTGGTTTTGCTTTGTCGGTGGCTCACAACAGGAAGGCACACCACTA
CACCATCGAGAGGGAACTTAATGGCACCTACGCCATCTCCGGGGGCAGGGCCCATGCCAGCCCAGCAGACCTCTGCCATTACCACTCCCAGGAA
CCTGATGGCCTTATCTGCCTCCTTAAGAAGCCCTTCAACCGGCCCCCGGGAGTACAGCCCAAGACCGGACCCTTTGAGGACCTGAAGGAGAACC
TCATCAGGGAATATGTGAAACAGACCTGGAACCTTCAGGGCCAGGCTCTGGAGCAAGCCATCATCAGCCAGAAGCCCCAGCTGGAGAAGCTGAT
CGCCACCACGGCCCATGAGAAGATGCCCTGGTTCCATGGCAACATCTCCAGAGATGAATCAGAGCAGACGGTCCTCATAGGGTCAAAGACCAAT
GGAAAATTCCTGATCAGGGCCAGAGACAACAGCGGCTCCTATGCTCTGTGCCTGCTGCACGAAGGGAAAGTATTGCACTACCGCATTGACAGGG
ACAAGACCGGGAAGCTCTCCATTCCTGAGGGGAAGAAGTTTGACACCCTCTGGCAGCTAGTGGAACATTACTCTTACAAGCCAGATGGGCTACT
AAGAGTCCTCACGGTACCATGCCAAAAGATTGGTGCACAGATGGGCCACCCAGGAAGCCCAAATGCCCATCCCGTGACTTGGTCACCGGGTGGA
ATAATCTCAAGGATCAAATCCTACTCCTTCCCAAAGCCTGGCCACAAAAAGCCTGCCCCACCCCAAGGGAGCCGTCCAGAGAGCACTGTGTCCT
TCAACCCCTATGAGCCAACGGGAGGGCCCTGGGGAGACAGAGGCCTTCAGAGAGAAGCCCTGCCCATGGACACAGAGGTGTACGAGAGCCCTTA
TGCTGACCCTGAAGAGATCCGGCCCAAAGAGGTCTACCTGGACAGGAGCCTGCTGACCCTGGAGGACAATGAACTGGGCTCCGGTAACTTCGGG
ACTGTGAAAAAGGGATACTACCAAATGAAAAAAGTTGTGAAAACCGTGGCTGTGAAAATCCTGAAGAACGAGGCCAACGACCCGGCTTTGAAGG
ACGAGCTGCTGGCAGAGGCGAACGTCATGCAGCAGCTGGACAACCCCTACATTGTGCGCATGATCGGAATCTGCGAGGCGGAGTCCTGGATGCT
GGTGATGGAGATGGCGGACGTGGGGCCGCTCAACAAGTACCTGCAGCAGAACAGGCACATTAAGGATAAGAACATCATAGAGCTGGTTCACCAG
GTTTCCATGGGGATGAAGTATTTGGAAGAGAGCAACTTTGTGCACAGAGATCTGGCTGCGCGGAACGTGCTTCTGGTCACACAGCACTATGCCA
AGATCAGCGATTTCGGTCTTTCCAAAGCCCTGCGTGCTGATGAAAACTACTACAAGGCCCAGACCCACGGGAAGTGGCCCGTGAAGTGGTACGC
CCCCGAATGCATCAACTACTACAAGTTCTCCAGTAAGAGTGACGTCTGGAGCTTCGGAGTCCTGATGTGGGAAGCGTTCTCCTATGGGCAGAAG
CCCTACAGAGGGATGAAAGGGAGCGAAGTGACCGCCATGCTGGAGAAAGGAGAGCGGATGGGGTGCCCTGCAGGATGCCCGAGAGAGATGTACG
ACCTGATGAACCTGTGCTGGACTTACGATGTGGAGAACAGGCCAGGATTCACAGCTGTGGAACTGAGGCTTCGCAATTACTACTACGACGTGGT
TAACTAA

HUMAN SEQUENCE - GENOMIC

CTCTTTAGTACTTGTAAATGCCTGATGGGTTCTTCCTGCTTACTGCACAGGCAAAACCAATTTATTGAGACCACACCATCACAATAAAAGAGTT
TAATTGACACAAGGCCGGCCACACCACATGAGAGATGAAGTTACTACTCAAATCAATCTCGGAAAATTTGGAGGCTAGGATTTTTCAAAGATAG
TATGGCAGGCTAAGGAGTCTGTTTCTGGGTGGGAGCACATGACTGGTCCGTAGGGTTGGTGGGGTCAGGGAGGTCAGTGGGGTCAGCAGGGCCA
GCAGGGTCAGCAGGGTTGGTGGATCCAGGTGAAGCCATTGGTTGTCAGAAATTCAAAAACCTAAAAGGTATCTCAAAAAGCGAATCTTAGTTTC
TGCAATGGTGATGTTATCTGCAGGAGTAATTGGGAAACTTGCAAAACTTGTGACCTCTAAATAATAGCTGGTAATCATTTATGTCTACACCTTA
GCAGAATTCAGGCTCCTCACACCCTCCTAACCTGGTGGCCTTTCACAAGCTTTACAAAGGTGGTTTAATTTGGGGAAAGGACTATTGTCATTTA
AACTATAAACTAAATGTCTCCCCAGGATAACTTAGCTCAGACCCAAGAATGGTTAAGGGCAGTTTGGAGGCTAATGGCAAGATGAAATTTGGTT
AGATCAGATACTTTCCACTGTCATAATTTTCCCACTGTTATAATTTTTGAAAAGGTGGTTTTAAGTTAGAATGGCAATCATTAAAAAGTCAGGA
AACAACAGGTGTGGAGAGGATGTGGAGAAATAGGAACACTTTTACACTGTTGGTGGAACTGTAAACTAGTTCAACCATTGTGGAAGTCAGTGTG
GCGATTCCTCAGGGATCTAGAACTAGAAATACCATTTGACCCAGCCATCCCATTACTGGGTATATACCCAAAGGACTATAAATCATGCTGCTAT

AAAGACACATGTACACGTATGTTTATTGCGGCACTATTCACAATAGCAAATACTTGGAACCAACCCAAATGTCCAACAATGATAGACTGGATTA
AGAAAATGTGGCACATATACACCATGGAATACTATGCAACCATAAAAAATGATGAGTTCATGTCCTTTGTAGGGACATGGATGAAATTGGAAAT
CATCATTCTCAGTAAACTATCGCAAGAACAAAAAACCAAACACCGCATATTCTCACTCATAGGTGGGAATTGAGCAATGAGAACACATGGACAC
AGGAAGGGGAACATCACACTCTGGGGACTGTTGTGGGGTGCGGGGAGCGGGGAGGGATAGCTTTAGGAGATATTACCTAATGCTAAATGACGAGT
TAATGGGTGCAGCACACCAGCATGGCACATGTATACATATGTAACTAACCTGCACATTGTGCACATGTACCCTAAAACTTAAAGTATAATAAAA
TAAAATAAAATAAAATAAAATAAAATAAAATAAAATAAAATAAAATAAAGAAAAGGTAGTTTTATAAAGATAAATATACAGATCAATGAAATAG
AATTGGAAGTCTGGAAATAAACCTTTACATTGATTTTCAAAAAGTGTGTCAACTCAATTAGGACAGAATAATTGTTTTAACAACTACTGTTGAA
CTGGTACAACTGGAAATCTGCATGCAAAAAAAATGAAATTGGATCTTTGCCTCATATTGTACATGAAAATTAACTCAAAATGGATGTTGGGCAT
AAATGTAAGAGTTAAAACTATAAAATTCCTAGAGGAAATCATAGGAGTAAATCTTCATGACCTTAGATAGTAGTTTCTTAGCTACATCACCAAA
AGCATAAACAACAAAAGAAAAAAGTCGATAAATTGAACTTCATCAAAATTAAAAACTTTTATTCTGCAAATGATACCATCACAAAAGTGAAAAG
ACAACTCTCAGAACAGGAGAAAATATTGGGAAATTCTATATCTAATAAGAGACTTGTATTCAAAATATGTAAAGAACTCTTACAACTTAATGAT
ACAAAGATAAGTGACTCAATTGAAAACTGGGCAAATGATCTGAATAGACACTTCTCCAAAAATATGCAAATGACAAAGAAGCACATGAAAAGAT
TCTCAGCATTGTTAGTCATAAATGAAATGAAAATGAAGTCATCAGATACCACTTCACGCCCACTAGGATGGCTATAATCAAAACGACAGACAAT
AACAAGAGTTGACAAAGATGTGGAAAAATTGGAACCCTCCTGTTTTTGCTGGTGGAAACCTGAAAATGGTGAAGCCACTTTTGAAAACAGTTATC
AGTTCCTCAAAATGACAAACATAGATTTACTATATCACTCAGCAATTCCACTCCTAGTTATATATTCAAGAAAAAAGGAAAATATACACCCACA
CAAAAACTTGTATAGGAATGGTTGATGCAAAATTATTTATAGTAGCCAAAGAGCAGAAACCGATGAGTGGATAAATAAAATGTGGCCTATCCAT
ACAATGGAATATTATTTGGTACTAAAAATGTAAAACACTGATGTATGCTATAACATGAATGAAAACATTATGCTAAGTAAATAAGCCAGTCACA
AAGAGCACATATTACATCATGCAATTTATATGAAATGTCCAGAATAGGCATGTCTACAGAGACAAAAAGTAGATGGGAGGTTTTCCTAGGGCCT
TGGATGGGGAGGAGGGAAAGGATTGTGTGGGATGGGAAGCATGAGAAGTGATATGGGTATGGGGTTTTGTTTTGTGGTTTAAAAAAGTTCTTCC
AGGTGCAGTGGCTCACATCTGTAATCCTAGCACTTAAGGATGCAGTGGCAGGAGTATAGTGTGAGCCCAGGAGTTTGAGACCTGCCTGGGCAAT
ATAAAGAGACCCCATTCTTCACAAAAAAGAAAAAAAAGTGCTTAAAAAAGTTCTAATATTGATAGTGATGATGGTTGTACAACTTTGTGAATACA
CTTAAAACAATTTAATTGTATACTTTCAACAAGTAAACTGGATGTTATGTGAATTATATCTTTTGAAAACTTAAAAATGGAACCGCACTTTGAA
AAATATAAAAAAGAAAAAGAATGAAAAGATCTTGGTATGAGAAAAACCATCTAATTTTCACTACAGTGAAAAATAACAGCTGAACTACCTTCTA
ATTATATAATTATATTTTAAAAGAGTACTCTGTTAAGCAAATGATTAGCTACCCATTGAAATAGATGAAAGGGAGGAGTTATTTTTGAGCATAA
GTTTTTTCCATCCTTTTGAATCTCCAGTGGCTTGGGTCATGTCTGGCAAGTAAAGGACCCTAATTCAATTATTGAATTGTTTGCTCCCTGGAAT
TTCACAAAAAAATAAGGAATCAGGTACACAGAGGAAACTTGACTTGCTCAGAGCTGCACACCTACAAAAAGTAGCAGAGCTGAGACTACTATGG
CCCGTGCTTCCTGACCCGTGGCCAGTGCACCTACCGCTGGGTTTAAACACATGTGATCACACTTCAGACACTATCTTTGGTCTTTAAGTAACTT
TTCTGTTTTGTTTGTTCAAAAGATTACTAACAAAAGAAAAATGAGGAAGTTTACCATTTGTAGGTGAAAAGTCACTTTTATATCTGGTTGAATT
GGTTAGGGAATACCAGCAGAAGGAAGTTGTTCCTCTGGCTACATCCTGTGTCATTTCAGCAACTGGATGAATGTGATCAGAAGGTGAAAATCAC
TGAGAGAAGCCACTCACCTCCATCATGCTGGTCTATCAAAATTAACTTCCCTTCATAGGACACAATAGGGTTGTTACTTTTTTTTTAAAGGTAT
ACCTACATATGAAAATAATTAATTTTATCTAAATTTAATGTAATATGCATAAAAATACACCTGATGCTGTCCTAACTATGCAATATTCTCCTTT
GTGTGTCAATAAAAGTGTATTATTTCAATACATGGAGTTGGTTATTATTTTACTTGCAACCTAAAGCACCTTAACAGATATATCATGTGTAACT
TGTGTATTTTTTTTAATTTAGAAGAGACAAAAATGAGGACCTTACATTCTAAATATTAAAATGTGCAATCACATGAGTCCAGGAGTTTGAGACCA
GCCTGGCAACGTAGTAAAACCCCATCTCTACTAAAAATACAAAAAGTCCCAGCTACTCAGGAGGCTGAGGTGGGGGAATCACTTGAGCTGGGGA
AGCCAAGGCTGCAGTGAGCTGTGATTGCGCCACTGCACTCCAGTCTGAGTGACAGAGTAAGACCCTGTCACAAAAAAAAAAAAAGTACAGCGTAT
ATTCTATAGTAAAAAACATGTGGGCCATTACATTCTGAAAGAACATAGTGAAACATTTACAGAATATCAAGGCCTCACCATCTAGAAGAAAAGA
ATCCTTACTTTCCTCATCTTTCTACCTCAAGAAAAAAGGGAAGCGGGAAGAAACAAAAGTGCTAAAGTTACAAGTGGTAACCAAACAAGAAAAG
GAGAACCGCTTAACAAAATGCACTTTGAAAAGCGCTGGCTCATATAAAAACCAGAAGTTTGAGAGTATCACAATGAGGCCACACTCCAACCTCC
CAGAAACCATATATTGTGCGTCTACAAAATCCTGAACAATTCTCACTCAGATCTTGAGAGAAGAAGGGGCCATTGTTTATCCTTAGTTTTTCTC
ATTTTTGACTGTGGAGTAGTGAAAATGGCTGCAGTGGAGATTAGTGCAAAAGGAAATAGCAGCAATGTGGCATGATTTTGTCAGAGTGTGAGGA
CTCCAACGACCCACATTAATTGGGGGAATGAGCTGAAACTCACAGATGCCCCCAACCTCGCTGGACAGAGTAAGCTCAGCCTTCTCCCTCCCTC
AATGAAGTGCGAAGCCTGCATGTTCCTCACAGTCTCACATTGGAAGGAGGGGCCCAGTTTGTGCAACACAACTCCAGCTAAGCCCACCCCCACC
ATTCCCACGCTCAAAGGTTATAGAAAATCAAGCTCAAAAGGAATATTAAGCCGTCATATGTAATCCAGAAAAGGGGTAAGAAAAGGCTCTGACA
TGAGGATTTAGGAGCTGCCACACACAAAGGGGCAGAGCAAAGTGAAAGTCTGAAGAAAGCTGCCAAGTATGGACAAGATGAAATCAATGAACTA
GCAGCTATGCAAACCTTAAAAGAAAATAACATGCACAAATTAAAAATAAAATCCAGTCTGAAAGAATTTTTAAGTGCACAGGCTACAAAATTTG
ATAAGAGCCTGCATTCAATTTTTTAAAAAACTCAAGAACCGATTGAATAACCAAGAGAAAATAACTAAAAAGAGTGAGATAGAGAGAACCAGAG
ACAAAGAAATAATTTGAGGACCAATAAACCTACCTACAGGTAAATTAGAAATAACAAGAAATAAAGCAGACCCAGCTAAACATTTAGTTCCCGA
AAAAAAAGAAAGGGAGAGAGAGAAAATCACTGTGAACCAGGAAGAAAAAACAAAGTAGATTACTACAATCAGAGAAAAGATAATAGACTTAGAT
GATAAAAAGTTAATTAATATCCTTGAAGAAAAGCACTTAACAAATAAAAAGGTATTTAAAATCACACAAGAAAAAATTCTTTGAAATGAAGATCT
AAATCTGCGCATTACAATGGTGGATACACAGCATTATATATTTGTTAAACACCATACAATATACAACACCAAGAGGGAACCTCAATGCAAACTT
TGGGCTTTGGGTGATTATGATGTGCATTAAAGAGTGCATTGTGTTTAAGAAATAAAAGATGGCCGGGTGTGGTGACTCCTGCCATCACTTTGGG
AGGCCAAGGCAGGATGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACTCTGTCTCTACTAAAAATACAAAAAATTA
GCTGGGCTTGGTGGCGGGCGCCTGTAATCCCAGCTGCTCAGGAGGCTGAGGCAGGAGAATTGCTTGAACCTGGGAGGCAGAGGTTGCAGTGAGC
CAAGATCACGCCATTGCACACCAGCCTGGGCAACAAGAGTGAAACTCCATCTCAAAAAAAGAAAAAGAAATAAAAGATGCTGGTTGATCTGTAT
CAGTATATATCCTTGTCAAGTTTCTTAATATCTCAGTTAAAGAAAGTTTCCTCCAGCAGCCTGGAAAGAAGAGCAAGTCACCTAAAAGAGGACA
AAGGACTGGCTGTTCTCACATTTCTCCAAAACAACATTCAATGCCAAAGGGGCAAGGGAGGAAAATCAACCGAGTCTAGGCCAAAGGGAAGTAG
GATGGAGACACAATGTGCCCACCTTGATGTCACTGCAATACAACAGCAACAGAATAACATCCTGAAAGTGGAGAGCATTGATAGATGCAGTATG
TGGGATCACATCTTCACAGAGTCCATCCAGCTCATCAACAAAGAAAGTAGGAATGAGATATGGTGGTAGAAAGGTCTGGAGGTGCATAAGGTAT
CCTTTTAAATGGAGAACTAAGAAGAGACCACTGAGGGTTTATGGTTACAGAAATCAAAAATTTTAAACTTAACTATGTAAAACTCATATAACTA
GGGAAACGTGAGAGGTGAGCTGAAGTGAAGTGGAGTGAGAGAGGTAATTGGTTCATGTATCATAGCAGAGTTACTGATACTGTCTGAAATTAAA
GCTCATGGTTTAGAAGAAATGACGAAAACTGCTTATTATTGTCACTTTTCTTTTCCTTTAATCAAAGTGGGGTCATTTCAGAAATGATACATTT
GTGGCAAAGAATCATTTCTATAAAATCAGCAATTCTTTAGATCCCATTTCAGAATTTTTTATTCTGTTAAATTTAAGTAGAATTAAATATCATA
TTTAACATGGATAAAATGTATAATAAATGTATTATATTTAAAATGATGCCCATTTTTATATTCTATTGCCATGTGTACATATAGAAAGAGATAAT
TTTGTAAGGGTCACCTAACGGTAATGATGATTATGTCTGAAATTTGGGATGTTTCTATTTCCTTTGTGCTTTTATTCTTTTAAGGGATTGCCTA
TTAGGAATACTTGCCACTGTTACCAAAAAAACTATTTTTTTAAATTAAACACTATTTTTTAGAGCAGTTTTAGGTTCACAGTAAAAATGAGAGG
CAGGTACCGAGGTTTCCCATATACCCACTGACCTCACACATGCACAGCCTTTCCCATTATCAACAGCCCCATCAGACTGGTACATTTGTTACAA
TTGATGAACCTACTTTGACACATCATAATCACCCAAAGCCTGAAGTTTACACTGATGTTCCCTCTTGGTGTTGTATATTGTATGGTGTTTAACA
AATGTATAGTGCTGTGTATCCACCATTGTAATATCATACAGCATACTTTCACAGCCCTAAAAAATCTCTGTTCTCCTTCTATTCATCCTGCCCT
CCCCACCAGCCCATGGCAGCCACTGATCTTTTTACTATCCAGATAGTTTGGCTCTTTCCAGAATATCACCTGTTGAAATTATACAGTATGTAGC
CTTTTCAGAGGGCTTCTTTCACTTGGTAATATGCATTTAGATTTCATCCATTTCTTTTCATAACTTGCTAGTGCATTTCATTTTAGTGTGGAAC
AATATTCCATTACACTGATGTACAAGAGTTTATATATCCATTCACTTACTGAATGACATCTTGTTTGTGTCCAAGTTTTGGCAATAAACTTAGT
AAATAAAGCCAGCGTAAACATTTGTGTGCAGATTTTTGTGTGAACATAAGGTTTGAACTCCTTTGGGTAAATACCAAGAAGCACAATTACTGGG
TACTACTTTAGGTAAATACCAACTACTTTGGGTAAATACCAAGAAGGACAATCCTCTTATAATTACTCATGTTGTAAGAGGATGTTTAGTTTCA

TAAGAAACTGCCAAACTGTCTTCCACAGTGGCTGTACCATCTTGCATTCACAACAGCAATGAATGAGTATTTCTATTGCTTCACATCCTCACTA
GTGTTCACTGCGGTCAGTGTTCCGAATTTGGGCCATACTGATATCTTACTGTCTTCATTTGCATTTCCCTGATGATACATAATGTGAACCATCT
TTTAGGCTAGGCATGGTGGCTCACGCCTGTAATCCCAGCATTTTGGGAGGCCAAGGCAGGCAGATCACGAGGTCAGGAGATCGAGACCATCCTG
GCGAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCGGGCATGGTGGCGGGCGCCTATAGTCCCAGCTACTCGGGAGGCTGA
GGCAGGAGAATGGCGTGAGCCCAGGAGGCAGAGCTTGCGGTGAGCTGAGATGATCGGGCCACTGTACTCCAGCCTGGGCAACAGAGTGAGGCTC
CGTCTCAAAAAAAAAAAAAATTACTACATGATACTAAGTAATGCGGAAGGTGACTCAAAGGGGGAAAGGAACACAGCAGTGTAAAGGAAGGAGG
TTGTAGATGGATCTAGAATTTCCCCCTCATTTCCATCAGGTGAAAGCCTGAGAAAACTGCAATCTTTGTGCAGGCTGGGTTTGCTTTGTACACA
CTGGTCCCCTAGTGTTCATCTCCAATAATGCTGACAACTCTGAAAACCATCTGTAGACATTCTGCAGGCTCCATCTCAGGAACAATGGCTATTT
TTTCGGGTAGTTGAAGCAAAATTAAGTCCAATGATAAGCAAATATAACCATTATCAAAATCTTCCATTTATGTTTGTTAAAGCAACCTAAGTAT
GATCTGAGAAGGACTCTGTATTCTATATTTGAGTCCTTGTGGATGAACTGTAACCTAGCTTAATAGGCAGACAAGATTGAAAACCTAATTTAGG
AGTATGTGCCTTTAACAATAGCTGAGTCTTGGCCAATCCCAGTGGCCATACTTCAACCATTCATACACTGCTGAGTGTTCAAACTGTGTTCAAA
GAAGGCAAAAGCCAACCTGTAACCAATCCAGTTGTTTCTCTGCCTTACCTCCAATTTCTGTATGTCACTTCCCTTTTTTTGTCTATAAATATGT
TCTGACCATGAGGCATCCCTGGAGTCTCTGAATCCGCTGTGATTCTGGAAGCTGCCCCATTCGCAAATCATTCATTACTCAATTAAACTGCTTT
AAATTTAATTCTGCTGAAGTTTTCTTTTAACAGGTTTAGAAAAAATAATGGCAAAAATGAATGAAAATCCAATAACCCTGGAAGCAGAAAAGGC
TGGGGGCTCCAATAAGTGTAAATAGTCCCATCCCTATATTTTCTCCATGGCAATTACAATCCAGCACATTATATATATATTTTTTTGCTTCTCG
CATTTTGGCTTAGGGTAAAGCTTTTTAAAACAGGCACTGCCAACCAGTGTTATCAAGAAGGTCTGGATGCCGTTTTGTGGGAACATTTTAAAGA
GGAATGTCCAAAAGGAAAAGGGGGATGGGTTGGGAGAAGGGTATCAGGCGGGTATCTCAAAACCATTCTTAGGGCTATAGGTTTAATTTATTTG
GTTGTGGACGTCAGAGCCGTCATGGTAAGAAGGAAGCAAAGCCTTTTGTAATAATTAAAGCCTTCAGAAGCAGCGTGCCCCATTGCCCACTAGT
GCGCCGTGAAGTCTGGTGTTCACCTACAGGGTCCCTCTCAGCACTGCCCAGGCCTCCCGAGTGCTCCAGCACAGTAGCTTGGAGCTTGTTGGTT
TGGTGACCAAGATACACTCCAGGGAATATGCCATGCAGTGGAGTCTCTTCCCCGGCACTGCATAGCAAAAGGAAAGGGCCGCTGGGTGTCTGTG
GGTCCTGGGCAGTCACAGAAGCCACCGCGCTGGCGGGGAGGAGGGGGACCGATGCGGTCCATGTCCCGGGCAGCCCCACCTTCTCTGCCTGCGA
AGGGCCCTTGTCCGGCGGGAGGAGAGAGGCGCGCCCCACCCGGGCTCCTCTACACCTGCCGCCGCCTGGGCCGATTCCGCGGGCCTCGCCCGGC
GCTTCAGCCGATTCCCGCCCAGCTCCGGGCTCATGGGCGCGGTCAGCAGGGCGGGCCAGGGCGGCGGGGCGCGACACTGGGAGGAAGTGCGGGC
CGCCTGCCCGGGCGCGTTAAGGAAGTTGCCCAAAATGAGGAAGAGCCGCGGGCCCGGCGGCTGAGGCCACCCCGGCGGCGGCTGGAGAGCGAGG
AGGAGCGGGTGGCCCCGCGCTGCGCCCGCCCTCGCCTCACCTGGCGCAGGTAGGTGTGGCCGCGTCCCCTACCCGGCCGGGACTTTCTGGTAAG
GAGAGGAGGTTACGGGGAACGACGCGCTGCTTTCATGCCCTTTCTTGTTCTACCTTCATCGGCCGAGGTAAAAGTGCTGAAACCATGTGAATAA
AATACAGGTGGGTTCCGCCAGCTTCGCTCCTGAACCTACCCGCGCTCGGGATCCAGAAGCTGCGCCGGGAGAGAGGGGCTCAGGCCTGGGCGGA
GGGGACGGAGGTCAGACCGTGCGGAAAGTGACCCGGGCACCCCAGGGCGCCCAGGCCCCCAGGGAGCGCGGAAAGTCGGTCGCGGCCCGGCCC
TCGGGAGACGCGGGATTGGGATCAGGCACAGCGCGAGGAAGTCGATCTTGGAGCTAGAACATTTTCCTTTGGCCATTTACACGAATCCACTGGA
AAATGCCGCAGTGTTTATCAAAGTTACTCAAAGTAGAAATGTCCAGACGTCTTATGAGCTTAGACAAATCTTTTACTACAAAAAGAAACAGCAG
TTGCATTCAAACAACAACCCTTCTGAACCACTACTAAAATTTAGCATAATTACTCTTGTGGATACATTTTCATTGTCAAGTAATTTACTTAGCC
AATGAACTTGGAGAGCAAGAAAGTTTATGTAGTAAAATGTAAATTTGAGTTAAGAGTTAAGGGTGTTTCTTTTTGTCTGTTTGTCTGTTTTTG
GCAATGTGGCTCCAAAACCTTAAGCCCACCTAAAAACTATATAAATGCAATCCATTCTTTTGTTGGAATGTTCAAGGACTAGAAAGACAATTGG
AGAAGTGAGAGTTTGAATCTTTTTTTACGTTGGAAACAGTGTTGCAAAATATTTTTTGAGTTTTGCCTGACTTAGCAAAGATTCAGTCGAACTC
AAGTAGAGTTCAAAGCATTGCAGCGTGTAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAGTTGAAGATGTTGTGCCATATCTGATTCTTGGTAT
TAAAAATAAAAAAAGGAACCATTTAATCCCTAAGAGTTCCTGGAAGAAATGGAATTGATTCTACCATCTGACTTCTTTGTCTTAGTAGGGACAA
ATTCATTGCCTTCACACAGGCAGCATTTTAATTAAATGCAACTAAATACATTGATGTCCTCCTTCTCCCCAGTGAAAGTCCGAGCAGTGCATAG
ATAGAATTATATTTTCTCAAAAAGGCTTAAATACATGTAAATTATTAAGTGTTTTAAGTGAGAAATCTTTGTCAGTTGAAATTATTTTATCAAA
TCATTTTTGTTCTGAACGGCACTTTTGTTTTAACGTATTTAGAAAACTCTTGCATTAAAACAGAAATTGATTTGTATTATCCCCTGTATTTGAA
GTGCACTTTAAAGTGTATTTGAATGAGAGATTATAATCAAATTACTTGATTTGTGTCTTATCCTCTTACTCTTCTACCTTGGATTTGAAAAGGT
TGGATTTGAACACTAGGAAAAAAGAGATTTTTCTACTGAGGGATTGTGGGAAGATTTTTTTTTTAAGCCTCTGTATTTGAAGTGAAATATAAAAT
AGGATTTTATAATAGTCTTAATAACTAGAAAGTTTTAAGCTAGGATAAAAATGGGGTGTATACTTTAGGTCTTTATCTTTCCTGAGAGATGAAA
TTGGTAGAAACGTTATTTTATTGCTAGATTTCACTTTAGAAATGAATCACCCTGATCTTTGTTAGGCCCCTATTTAATATTCTAAATGCAGGTC
TAATCTCTCTGCTTTTTTTTAATGGAAGACTTCTTAGTAGAACTTCACTTATTTAGCACATTGTTTGCCCATGGTTATAATCCAATATGCTTGT
GCCAAGACGTATTTTGGAATTCAAGCTTTTTCAGAATTTGGAATTAAAATTTAGAATCTAAATTTCAGAACTGAGAAAGACATTGCTCAGAATT
TAGAAAGGTAAACATACATGTTGACCCTGCTGGTTACATGCCATTCCAATATAGTCTGGAGAGAATCCTGTAATTCCATGCATTAATATTTCTG
TACTTTTACATTTAAGAACATGAATATTCTCACTAAGTGGAATAAATAAAGACTATAAAGAGCTGTGTGTCTGTTTAGAGCAGGTGTTATCACT
ACGAGAGCTTCTCTAAGACTTACCAAAAAAAAAAAAAGTGTTGTTTTTCAGAGCTTTTTAGAGCTGCAGCTGAGGGACTGAGTCTGTATTAGAC
TCCACTGAACTACGGTTTGCTTTTAAAAGGAAAGTGCATTTATGTTGTTCAATACTTCACACTTTCCAGTAATTAGAAGGGCAGTTCCTCTCTC
TTTAGGGAGTCTTAAATAGCAAGATTTTACTGAATTTTCAATCATACCGATCAAAATAGAGGTACTTCAAGTAAGAGTGGATGTCTCATCTTTG
TAATATAATTTCAAACAGCATAGTTTCTGACAGTCTACCATTTTAGAGAAACAGAGCAGAAGTTACTTACAGGAGGGGTTACTGTCACCCTTTA
CAGCTGCAGTCTGTCCATGGAAGAAATATTATTTCCTGTTAACTTTGCAACCAGCTGGGTTTGTGTCAGTTATCTAAGCCTAAGTGATGGCTAA
TTTTTACTTTCTCAACTTTCCCTGTATAGATTTTTTTCCAGCTACCCCCTGACTTTTCTACTCTTGCTTTGCTGGTTTTAACATTTTCCACTAC
TTCTGGATTGGTTTAGCTATAACTGGGTGGAGAAAACAACAACAACAACAGGAATTTAGGCCTTTGGGGAAGAATTTGTTTTGTTTTAGAAGTC
TACACATTGAGCATTACTTTTTCTTCTAAAGCAACTAAAATCAGAAGGCAGAGTCCTAATGAGAGATTATGATCAAATTGCCTCATTTGTGTCT
TATCACCTTCCTCTTCTACTTAGATTTGAACAGGTTGGATTTGAATACTAGGAAAAAAGGGTTTTCTACTGAGGGATTGTGGGAAGATGTTTTA
AGAACTAGTCTGATTGGATTTTAGGAAAGTTCATTCATTTTGATATGATGTTATCAGGGACATTTTCTATTTGCTTATAATTTTATCTGACCAA
TATTAGCTTGTATCAATTTGAGGTTTTTTTTTTCCTTTATGAATCAATTGTGCAAGGTTTGCCCTACATCTCTTAAAAGGTGGTTAAACTGGAAT
CTTAAAGACAGTTGAATTTAGCCAAGACCAAAGATATGCAAAGAAAGAATATTTTGTTTATGTTACAGTACATTTAATAAATCCAAATGGCTCC
CTTGATTCTTTTCTTTCTGGGACACCACGTATTGATTTCTGGCAGCTGGCCAAAGGCAGATGGTGGTGGAGCAAGCGAGGACAGTTAAGAATGT
TGATGATTACTGGATTACTGAGGAGTACTGTGAGCTTTCTGGTCCTCTGCTCAGAGGTGTCTAGCTCTGAAACTGGGATCCTGGCTCTGAGCTG
GAGAGGCGCTTCCAGTTACTGCTGTCCTGGAGCGCTGGAAGGGAGCATAAGTGTGAGGAGACAGTGGGCTTTTAGCCTGGGATGCAGATGAGAG
ATGTCTTGACCTGAGTGAAAACCTTGCAGGCAAGCTGCAGGTCTACCGAGCAGGGTGAGGGAGGCTCTCGACCTGGATACTGTGAACTAGGGAG
AGAAAGTAAATTCAACAGAAGGAGGGCCCAGGGCAGAGATTTAGGAATATCCACAGTTTAAATATTGCTTTACTTAAGTATACTCTGCCTGACT
ATAAGTAGCATTTGAATGTTCAACATATGACCTTTCATTTCTCCCCTCCATTGGTTTGTCTTAACTGATAAATCTTTATTTTCCCATGGTCAAC
CTGGTAGTTTATTAATATTACATCTATCAGTTCCTGTTGAGTTGACATGAAAATGTTTTGGTGTGACCTAAGTTAATTTCTCTTTTTGTTTAAT
TTTAATTTGTAATGAGTTCCTCTTTTCATTCTGCCCATCCTTTGGTACTGCTTTGAGTTATGTCCTCTAGAATTCTCACTATTTCCTTATGATT
GGCATATTTTCAAAGTTTTTTGGTGTACTAATTTTAAACAGTGTTTGTTGACACTGAGAATTCAGGACTTTGGAGTTTTAGACCACCATCACCT
TCTACTCCTTCTCACACCATCCCAGGATAATTATTCTCTCATTTGAGATTAAGAAGTTATTTGGTTTATTTTATTATGGTTATATAAATATAGT
TTACTGCTAAAGCAAGGTATATCATTCCATTTTCTATCTCGTACCCCTTTTTGCTCTTCCTGGGGTAAACCCTTGCTTTGTTTTTTGTGTTTCT
TAGTTTGCACTGTGCCTATTATCATTTCCTTCCCAACTTTCTGACATAAAGATGAAAGCCCTATTGACACAATTTTCTACAGTGTCAGATATAC
CAAGTAATCTCACGGTTCCATTTTTCTTTCTTTTTTTCTAGAACCCTCCATCTTCTTCTTGTCTAACAGTTGCTCTTCAGTCTTGCTATACATA
CAGTAATACCTGAAGAATGTTTGGAGGATATTTGGTGTGGGATTTTTCTTTTTTTTTTTTTCTTTTTCTTTTTTGTAGAGATGGGCTCTCGCTAT

ATTGCCCAGGCTAGTCTCAAACTCCTGGGCCCAAGCAATCCTCTTGCCTCAGCCTCCCAAAGTGCTGGGATTATAGGCATGATCCACTGTGCCC
AGCCCTATGGGGAATATTTGTTGACTAAATATGTTTTATGTAAATTGCTTATCATACTCTTTGTTGTAACATCTGTGGCATTAATATGCCTCTT
GTTAACACTCACCTACATTTTACCTGTTGTAAATCCACTGTCATAATTATTGAAAATATTTCTCCAGAGCTTTTTAATTCTATGGTTATTTATT
TATTGTAGTATAGAACTTTTATGATTTCTTCCATCAGGGTGCATTCTGAATCATGCTTAGTGAGAGATGGTTTTTAACTCCACTTTAACAGTTA
GCATCTATGTTTTACATCAGTGTCAATGTCACTTTTGTATTATATACGACACCAACATTTTATTATCTGAGTGATGAGAATGTTTATTTTTGTG
GAAATGGAGATCTCATGAGACTTTAAGCAGATTGCTGGCCTTCTCCTCGATTTCCTTGATTGATTCCTGAAGTGGAACTGCAGTGCTAAGTGGA
ATTCCCTGGGAAGCTTGCTCAAGTAAGTAAGCATGAGAAATGCTGAATGAAATAAAGTGCAGCAAGCAGGGATAAATATCATGGGCATCTTCAG
AGCCTTTGTGCAGGTAACATGCACAGAGATTCTCTGAGAGAGTCAGTCTCAGCCAGTGGTCCTACACTTCCATGACCCTGCAGTGCGTTTGTTC
TTAGAGTGGCTTTCAGGGCTGGCTCTGCCACAGCCTCTTTGGGAAACCATGCATGACCTCTTGCTGCTCCTTACCAAGCTCCTTAGGCTTTGCT
TGGTAGAGGCAGAATGTTGTGGTTGTTTTCATCTTAAATGCTAACAATATATGAATTATGTGGTGGATACACTGCCTCAAAGTGACATTTATCG
AATATTTTTGTAGCTACGGGTTGAGAGTAAGGGTCTGAGGCCCCACTGGGTTCAAGTCCCCCTTCTTTATTTGTAAGCTCTTCTTTTTGTAAATG
GAGCAGTCACAGGGGGCTTCACTCTGATACCTAATGGAGACCGTGCCTGCAGTGCTCGGTACCTGGTATGTGGTTAAAACTGACATAACTGTCA
GAGCCTCTCCCAGGCGGGCTGACTCTGGGAATCTGCCCTGCAGTCTTGGAGGGAAGGCACGTCCAGATAGGTTTGATGAGCAACTACAATTGCC
AAAGTTAGTTTCTCTGACCTCCAAGATGGGAGAACTTTCTAATATTTTCTTTTAGGAAAGTTGTCCATTGCATAACTGATACACGAGTACATAT
CCTTTAGTACAGGATTCAGATACAGCGAGCAACAGAAAAGCCCTTCTTAACCTCCACCCTCAGTCCCAGCCCTGCCCCCAGTCCCACTGTTGGG
GAGCAGTTGGAGCTCTAACCTCTCTTCTTTCGTCCTGTGCATTCATGTGTGCATGTGTGCACGTCTTCAGAAGATATAATGGTGGGCTGTGTAT
GTCTTCTTAATACCTTTATCACTCTGGAACTTTCTTTTTATTAATATGTTGGGGTGCGGGGAGGTCTCCATATTCAGTGATTATTGTAATTTTT
ATGACAGTCCAGAATAGGCATGTCGATTTTTTTTAATTTTGATATTATAAACAGTGCTGCAATGAATGCACTTTTTCTTTTCATTCTTTCCCT
CTCCTTTGCCATTTGCACTGTGTTTTCATGAAACCATCAGGTTAATCTTTATCTCAAGGAAGCCCTTCATCCCTGTCCATCCTGTTCTTCAGTC
CATCCACTTAGTTTTCCTATGATTATTTTAGCAAGCAGGTGGTTAATTTCCAAGGAATGTAGTTACTTCTTTGGGATTTTTTTAAGTGATGTAT
TAGTTTTCTGTGTATTTTATTACTTGTTTGAGTGCACCATTACCCCCGTCTCCCGGGGTATCAGTTCATCTGCTTGCATGCTTGGTGCCTCTCT
CTCCTGCTGTCAGCTTTCCTGATGTGCTGGGTATTTCCACGTGTGTGTTGGTTTTTTTTTTTTTTTAGGTACCCTAGGCATTAGTCTTTTAAGG
CTGCATTCTTGCAGCCTGTCCCACATGAGATAGGAGGAGGGCAAGACCTGGATGTGCACAGGGCAGGATGGGCCCATAACTGGTCTGTGTGGTG
TGTGGGTGGCAGGAACTCCCTGTTCTTTGTGGGTATGGCCATGCCTTCCCTATTCAAACGAAGCCACACACCTGTCTTTTCCTGCGAGGCGTCT
TCTGCTGCTTTCTTGGAGCTGGGGAGCATCTACTCTTCCCTTGTCCTCCGCTCCTCCCTGTTCCTCCCTCAGGTCTCTGTCGCTTCTAAGGCA
CTCCACCCTTGGTCTTCTCCCACCTTGCACCCCCCACACTGCTGCCTGCCTGCACAGGGGGACTGTGATTGCCCCCTTCAGTGTGAGCCTGACC
TGCTTCATGCCTTTCAAGGAGAGCATTCATTGCCAAGCTACTCATGGAACATCTCCTCAGCATCCTCAGCGTGCTATGACTTCATTTTCTGTAAT
ACTGTTTTTCATGTTTCTTCCCCTTCTCTGCATTTATAGCTGTGCATATGCTTGAGGTGGAAGGCCACCACTTCCTTTTGGTTAACAACACCAA
TCAGCTGATGGTCATGGCTACGTGAAGGAACTCACAGTGAGGGCTCAGGAAGAGCCTGGCTAGAGCAGGCTGCATCGCAGGCCTTGGCGTTAGG
TTCCCCAAATCACTGCTGGTGATCTTGTAGCTCTGTCATGAAGTCTGTCCTGCTTATTAGGATACCGAGGGTCCAAATTCATAGATTCTTAGAA
GCCTGTTTAAATATGCAGAGTATCTAATTCAACCCGATTAGAAACGGGCTCAGAAAGGTGAAGGGATTTGTCCAACCACTGAGTGATGCTGCTG
GGATTAGAACTCTCAAAACTAGGTGTTTCTAATCCAGAACCAGAATCCCTATCCACTACTCTAATAAGGCGTAAAAGAGGATCTGCTGTCCTGC
CTAATTGGTGGGCAGGTTTGGAGTCCTGTCAGCAGCTCAGGAAAGCCTGGAGAGGCAGAGGGAGGACACAGGCTCAGTGTCAGACATGCCAATT
TTACTCATCACCAATGGTTACACAAAACTTGTTTTGATCTTTGTGGCTTTTGCATTGAGAAGTTAAGCATATACAATAGGAATTAGACACAATC
CCAAACCAATGAGAGACTCAAGTGAGAAGAGCTGAAGCTTTTATGCATGCCTTCCTTCCATAGAGATAAATTTACTATCCAGAGTGAACTAGAG
CCTCGTGGAAAGTGAGTGCCGAGCCCCTAGCTGTGAGTGTCTCTGTCCTTCCCACATCAGACCTCCATGTCTGTGGCTGTCCCCCTACGGGGCA
GAACTGCTGCTCTCTGCTTGTGTTGCTGTCGTGAGGGTTGGGAGTGGACAGGTGTGGACAGATCTCAGACCCGTTTCCCTCCTGTTATGGAAAT
GTTTGTGAGGCAGGTGGGACTTCAATGATTTGGTCAAGGAAAGGCAGCTTGGCAGCTGGGGAGAAGGGCTCAGGCTAGAAAGGCAAGCGTTTGT
GAGGGATGATTTCCCCAAAGAAGCCAGCAGTGTGTAAGGTATTCCCCGGAGCTTGTTTCTTCTCAGAAGACTCTGGAAGCTGTGTCAGTGTCTG
TTATGGAGGAATGGAGTATCAGTCCGATCAGGCTTTCATAACAAAGCACCACATACTGAACGGCTTGAACAGCCCAATGTGTCGCCTCCCAACT
CTGAGCCAAAGAGACTGAGGTCAGGATGTCCCAGGGTGGCTCCTTCCAAGGGTTGGGTGGGACAATGTGCCCCCAGCATCTCCTTGGCTTGTGG
GTGACCATCTCCAGCTCCACATGGCATGCTCCCTGTGTGCCTGTCTCTGGGTCCAGATCTCCTTTTCATGTAAGGACACCAGTCATGTTGGAGT
AGGGCTCACCCTAAGGACTTCAATGGGGCGTAATCACTGCTGTAAAGACCCTGTCTTTAAATAAGGTCACACTCAGAGGGGTTAGGGAGTTAGG
ACATCAACATTTGAACTTGGGGGACACAATTCAACCTGTAACAAATGTGTGAGTGAAGACTGGCACCTCCCCACGATGGCCTTTCTGTGATGCC
ATCAAGAGCACCAGGGAGCTCTCCAGATATGGAGATGGACAGATGTCTAAGGCCCCTGAAATGAGCCTGCTGTACAGATGATTCCAGAACTCTG
TCAGTGTGAAGACCAAACACAATTAAGCACATTAAAATACTTACGGTAAAGTGTTTCTTTCACTTTAGATGTGCAAAAACTTAAAGAGAGAGAG
ACTTATGAGAAGACTCAGGGAAGAAATGTAAGATAAAGGTGTTAAGGGAGACAAACTCCACAAAATTGTAAAGTGAAGCTGCTGTGGGGAGTAG
AGCCCAGACCCAGATAATATGCAGGCATGGGTCCAAGGGAGGCTTTGCACACCAGGCGGGGGAGGTGCAGGGCCATGGATGAATGGTCTTGGGA
AAACGGCAAATCGTTTGGAAAAAAAACAAAACTTTGCTCTTTATATCAAAATAAATTCCAAGCTGAACAAAGAATAAAAATATAGCATTGAAA
TAATGAAGCTATTAAAAGAAAACTTAGGTGAGTTTTAAAATAATTGTGAAGAGGCCTGTCTAAATGTGATAAAACATATGAATTTATATTCACA
CTCATCACAAGATTGATAAGCATGATTTCCTAAAATTTTAAGCAAATCCCCATAAAATGAAAAAATATACAAATAAGTGAAAAAAATGGTAAGA
TATATTTAATTTCAATACTTGTGGTAAAACATCAATAGCTTTAATATGCAGCGAGTTTTTTCAAATCAATAAGAAAAAAGACACAGATGGGTGC
TGACAGGGCCGTTTGGTAATATCTTTTAAAATTTAAAACACAAGTGCTTTCACTCAACAACTTCACTTTTAGGAACCTATCACACATATAAATT
GACAAAAGTGGAGAAATATTCATTGCAACATTTTATTTTATAATAGCAAAAAAAAATCACTAAGGGAAGTACAGTTGATTCATATGTTGGAATC
CTATGCAGTCTTCTAAAAAAATGTGGAATTTATTTCATACACCAAATATAACAATGTCCAAGTTCTACTAGTGAAAAAGCAAGATGTAACATATC
ATTGTATTTGTTTAAAAAACTCATGCTGGGTTGGGTGCAATGACTCATGCCTGTAATTCCAGCACTTTGGGAAGCCAAGGTGGGTGGATTGCTT
GAGCTCAGGAGTTTGAAGCCAGCCTGGGCAATATGGCAAAACCCCACCTCTATGACAAATACCAAAAAAAAAAAAAAACTAGCCTGGACTGGTGG
TGTGCACCTGTAGTCCCAGCTACATGGGGGCGCTGAGGTGGGGGGATCACTTGAGTCCAAGAGGTCAAGGCTGCAGTGAGCTGAGATCATGCCA
CTGCACACCAGCCTGGGTGACAGAGCAAGACCCTGTCTCAAAAATAAGTGAAAAAAAAAAAAAAGCCTAAAAATCTCCCACATGCACATAATAA
TTTAAGTGATATTGGATTGTCGTTTACTACTTATATGTGCATTTCTGCCTATACATATTCTATCCAGTGTGTACACATGTGTATGTAAATATGT
AGCATGATCTGGAAGTGTAAGCACCAAATTAAGAACAGCAGTTTTTAGGGGGAGGGGAATAGAATTGGTTTAGAGAAAAAGGTGAAATTAACAT
TTTTATTCTGCCTACTTCAGTGTGCCTGCAGTATTTACAATGATCAGGAGTGTGTACTTTTTTCAATTTAGAAAAATGATAATAATAAGGTTTG
CTTGGGGGGGAAAGGGTAAGTAGGATGAGACCAGGAAGAGAAGTAACTTAGAAACACATCATGCATCATGACTGCTGGCACCATTCTGTCCTCCA
ATGAAGAGCGAGGCTTTGAGAGGTTCAGCAGCTCACCCAAAGGTGTACAGCCATGGTCTCAAACATGCTTGCACCCTGCTGTCACTCAGGTCCT
GAAGCCCAGGCCACCTCCAAGGACACTGGGGTGCTCTGGGGTGCAGCCTGCCTTCAGATGTTTCTTAAAGCCACTCCTACTCCACCCCACCCAG
TGCAGGAGCCAAGATTGAGGACCACCATTTGACAGCTAGTTCATAGGATTTCATAGCACACAAACACATCTTTAAAGGCTGATGAGGTTTCCAC
CAAATTGGGATTTATTGGTATGCTGGGTATAATGGCAGCTGTGTGTGCCTTTGACTGCAAAGACACTGGGCAGGCCAGAGTGGCTCCTCCCCAT
TTGATATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGAGATTGAGAGAGAGAGGGCTCGTGTTTTTCTGTTGCGAACAGTCCTTT
CCACGGGAACTTATATTCTCCTAAGGTTTGCCACTCTGCAGAACTTTTGGAGGAAGGCTTTAGAGTGAGAATGTCAGTGCATTCTCAGCGTGCA
ACTGTAAGACTTGCAGGAGGTGAATGCACATGAAATAATTCTCAGAGGAAGAATATGTGCACTGGTCAGATAGGAAAACTGACCTGTAACATTT
TCTACACAAGAGGATTTGAATGGTTTTCGTCTTTAAGATTTTTTTTTTAACATTATGCTTAGTCCACCATGCTTTATTCTGTCAGACCATTTGTC
ATCTGCATGCTTCATGAGAAATGTTTTTTTCTCGTGAGAAGGACGTAAGCAATTTCGCTCCTGGTTGAGAGTTTGGTCCATAGTTTCTTGGTGT
CTGTGGGTTGGCTTCTGGGCCTCGCTGGCTGCAGCTGATGGTGACCAGAAGGGCTGTTCTTGTGAGTCATTAGGGGATGGGCCGCTGCTGCTAC

CTCCCCACCCCAGCCACCTCCATCAGCACTGTGCCATACTCGCCCAGAAGAGCCCCTGGACTCATCGCCTGCCCCCATGTTTACACTTGTTAAT
AAAATCTCTAGAATTGTGGCTTAGACCTGTAAACATCCAGTTCCAAGAAGTGGCTCTAAAGCCCTCTCTGGGGGCAGAGTGGTTGTCAGAAGCA
GACCAGGCCTCGGGGTCTAGATTCCATCCTTCACTGGAACTGCTGGGGGCTGGTAGTACCCCATCTGCAAAATGAGGTTAAAAATACCTAACCC
TTGGGTTGCTATCAAGCTCAGAGATGCTGTATGCAAAGCACCAATCAGACTGGCTCACAAAGAATAGGCCCTCTGTCAAATGTTCATGGTTGAG
TGCGGGATGTCAAGGATAAATAGCTACTGGTTACCAGGGAATTGAAGACAGGGTTCTTTTACAAGCAAAAAGATTTTATAAGAGGGTCACAGAA
ACAGAGTGACTCTTGCCCAACAGTATCATAAGCAAATAAGCTGTGTCTAGATCCTAATCATGTGTTTAGGGCTCTGCTGGGTTTAATAAGCAAC
ACATAGGGGGTGCGTTGTCCTCCACTCTCACATCCCCAGTCACTAGACAAGGTCACTCCCCCGGGGGGCATCTTACTCAGAAGCTCTAAAAGAC
TTTGTTGCATGACTTTGGCCCTTGCTCTTTTAAAATGTCCAGTTAGAGACCATGGCATGGAGAGTTTTGTATACTCTGCTCCCAGCATGGCACC
CTCTTTGCATATTGTGGGCACTCTTAAAGTTATTTCTCATATTGTAATATATCAGATATGACTTGGATATAGTCAACTAGATATTTAGTGAAAA
ATGTATCACCCCCATTATCAAAAGAAAACCCAAAGCCTTCAAGTTTGGCCCAACTAGAAGGAATTTCTGGAAGGGGGAAGTACCAGGACCACAC
AGACTCTGGTCCTGGCGGTGTGTTTATAAGATGCAGCTCATCATGTTGGTCTCTGTCATCCCTGCTAAGGCTGTTCATTATGGAACCACTGGCC
ACATGTGGCCACTGACCGCTCAATTACTTAAAACCATTTAAAATAAATGTTGAATTTCATTTAAAATTTAAAATTCAGTTCTCAGTCACACAGG
CCAGGTGTCAGGGACCAGTTGCCACACGTGGGTGGAAGGTGTGTGTCAGGCAGAGTAGAACAGGTATTTCCATTGCTGTAGCAAGGTCTGCCAG
ACACCAAGCTGCTCTCAGCCCATCCCCTGAGGAGCCCAGAAGGGATATGAACTTCCACCCACCTCTCCCCTTTCCCAGTTCTCAGTGCCACTCC
TTGCCTAAGTGCACGGTAACACTCGCCACTATTTCATGTGTTGATACCTGCAGCTCCCAATTTTCTTAAGAGGATCTGACCCTGGGAACTGATG
AGGGCACCAGGAGTGCCCTCTCCTTTGACATGAGACCTTGAGTCTTGTCCATGGGGCCCTGGCCTGGCCCTTTTCATCCCCAAGGCTGTAACAT
TCTCCTGCACAACACAACACACGTGCACACACACACACACACACACACACACACACAAAATAATGTTACTTCTCAGTCACCCGGGAACTGACATGG
TTCCCAGTTATTTCCTTGCAGCAGCCCTCCAAGCGGTAACACAGCCTTGGAGAAAGCTACTAAGTCATGTATCCTTGGGGTAAGCACACTTGGT
TCAGAATAGTTTCTGAAAGAACAAACCAGGTTTTTGCTCAAGAGGGTTTTGAGGGACTGGAGAAAACCTTAGTGCTTGTTCCTTTCTCTTCGGT
TAAAAAAAAAAAATCCAACATAGTTTCCTTGAAACATTTGGAACCTGAGGTTTTGTCCATTTTGAAAAGAAGATGTAGAGAGGTAACGTGTTTC
TCACGAAGGCAAAACAAAAAAATAAGATGCCAAGCAAGTGGCCCTTGTACCTTCAAGACCAAGAAATAAGGCGTTTGTTTCTGGGAATGCCTTC
CATTTGCTCATTTTGTAAGTAATCAAGGCAGGCTGAGAGGGGAGCCTTCTGAGGCACCCCAGTGAGCAGAGGTGGGGTCCTGCCACTGGCCCCT
CGGCTCCAACCTTGCCTCACTCCAGGCGCTGGGGCAGAGATGTGTGGTTGGCCTGTCTCTGGAGTTCCTGTGCTGCTTAATTTGAGTAGAGATA
AAAGGCCACAAGAGAAGTCGTTTTGAAGGGTTTGTGAATTATAGGACTTCCTTTCATGATTCAGCCTGACTCCAGGAAGTGCAGTCACGTGCTG
CCCTCCTAGGGGAGCTTCGCCCCACCACCAGCACTCAGGCTCCACTTACTGCAAAAGGCGCGATCAAGATTCTTCTTCCTGAATTATTGTCTTA
ACAAAATTGATACGTCTAAACATTGAGTTAACACTTTCATTCACTAAAAATGTTTTCCTGAATGATGCTTTTCATGTGACTTCTTTATAGTCCC
ACGTGAAAAGGGGAATGTGCTCGGCTCTGTGCTTGTTCCCCTCTGTTTGGGAGCCTGCGCTGCTGCTCACTTCTGCAGTCAGCTCTGTTTGGAT
CAGTTTTGAACCCCAGAACCTTCCACATAGAGGTGATAATTCTAGATAATTCTAGAGCAACTGCTTCTCTATCTGGCTGTATGCTAAGCTCTCT
AGAGAGCTTTACAAGGGAGAGATTCTGAGTGTTAGGGCTGGGAAAAGAGCACTCTGTGTGATCCTAACCTGCAGCTGAAATGCAGAACCACTGT
TCTCAGCTGGAGCTTTTCATTGTTTTTTGTTTGTTTGTTTTGTTTTGTTTTGCTTGTGAATTGAGCTTACTAATGGAAGCAGGAGCTTG
TTCTGTTTAGCGATCGTGAGAACCACCTAGGCAGCGGAGCCTGCCCTTAGAATCTGCTTCACTGGGCTGTACTGGGCTGGGCATTGGCAATTTT
AGGACACATCTAGATGTGTCCCAAGCAATCTGATATTTTGATGTTTATCTTACAGAGAAGCATGTGTTTAGAAGGCAGATAGCTGTGCTTCTGT
TCTTCTGATTTTCGACAGAGACATCAGAACCTTCCACAGTCATTTTAGTCTAAGTCCTGAAATCGTTCACTGCCAGCCCTGAGTCTAGCTGGAC
TATATGCCTCTGGTTGGACACGTCTGCCACCTCTGAGAACTGTGTGGATGTAACTCTTCTGTCTTCTGGCTCGTTGTGTTTCCAAGGAGAAGCT
TGAGGCCCAGTAATACTTAAAAATTTTTTGGACAAATTTAATCTTACATAATTATGGGGTACACAGTGATATTATATCTGTACAAGGTGGAAGG
GTTGAATCAAGCCAATTAACATACCCATCATCATAAATGCTTATCATTAATCCTCCTCTCTATCTGCAACTTTGTAGTCTTTGACTGTCATCTC
CTTATTCCATCACTCCCCAGCCCCTGGTAACCACTATTTTGTTCTCTGTTTCTATGAGTTCAATCATTTTAGATTCCACATATGAGTGAGATCA
TGAGGTATTTGTTTTTCTGTGCTTGACTTATTTCACTTTACATAACTTTCTCCAGCTTCTTCTATGTTATCACAAACAATAGGATTTCCTTCTT
TTTCATGGCTGAATAGTATTCCATTGTGTGTGTGCCACATTTTCCTTAGCCGTTTATTCCTTGGTGGACTTTTAAGTTGATTTTGTATCTTGGC
TATTGCGAATAGTGCTGCAGTGAAGCATGGGAGTACAGATATCTTTTCAACATAAATTTGTAAACTTTCTTAAAACATTATGAGTTTTTTGTTT
TGTTTTGTTTTGTTTTTTGCAATTTTTTGTTTTTGGCTCATCAGCTATCATTAGTGTTAGTATATTTTATGTGTGGCTCAAGACAATTCTTCTT
CTTCCAGTGTGGCCCAGGAAAGCCAAAAGATTGCACATCCCTGCTCTAGAGGTTCCTGGATAAGATGCTCTTTTAACCCCTGTAGACAAGACTT
TTTTTATTTCTGGAAATTTTATAACTTTAAACATGTGTTTTACTCCTTTATTTTAATTCTCTATTTCAGGGACATTAATTTTATATATTTTAGA
TCACCCCTGTCTTTCTCAATTTTTCTGTTGAATTCCTGAAGTCTTTGTTAATTCCTATTTCATTTTTCTCAAGCTCCACAGATCCTGTCCCCCA
TGCTGCCTGCAGTGTTAATATCCATTCATTTTTCCCTGCTTGATATAATAGCCAACATTTCTTTTCTGGCCTTTTCTCCTGATCTCTGCTGGCT
TATCATTGTTTTTTTGTTTTTTGTTTTTTGGCCCCTTCCTCCCTTTTGAGCTGTTATTTTAACCAAGTGATTATTCTGTTAAGTTCTTTGATTCC
ATATCTGTGTGTGTGGACATGCCTTCATCTGCCTTTTGGGACATTTTTCTCATGAAAGTCCTTTGCCATTTGTTTCTCCTGTTGCTTCTCTTCT
TTAATTATTTCAGCATCATTGTACAAATCCAAGGTAGGATCCTCATCTTTGAAATAGATCATGGAAGGGCCTTGGATGTGTTCCAGTTTACCAG
AATATTTCCTCCCTTCTCAATAATTTGTTGTGTGTGTGTGTGTGTGTGGAGAGAGAGAGAGAGAGAGAGAGGGTGAAAGAGAGAGAATGA
ATTGGTTTAATACATATTTCTCCCCAGTGAGGCTGCCAGCCATTCAGTCTCCTCTCTTCAACACTCTAAGAAATGGTTGGCTTTCCATTGCTGT
GTATATCCTTCCACTCTGCAGGCCTTGTCTGAAGTCTACAGCAGCCAGTCCCCACTAAGGGTCTTCATGATCCCAGGGCAAACATAGCTGCATT
GGGCTCCGCTTGTGGCATGTTATTGCTCAGGATCGGGGTGCCCACTGGTTCCATTTTATTTCTTTATCTGGTTCTTGTTGCAGGGTCATTTCAG
AGAGGAGGGGGCAGTATCTCTGCCAACACCCAAGCAATCTGATATTTTGATGTTTATCTTACAGAGTGACTTAGAGTATGTGGCATTGAAACCA
ATGGTTAAAAATCAACAAATAAGCAGGAAACAACTTCAGAATGACCAAAAAGTTCCTGGGGCACTCTTAGCTTCCACCAGCCTCTCTGATGGT
CAACCAGGCCATTTTGTTGGCTTTGATCCGTTCAGCACATTGAGTTATGGGGCGCCTCCCACGTGTCAGGAGCAGGGTGAGGTATGGGGGCTGT
CGCAGCAGCTGAGATGCTTCCCTGCACTTGACTTGTTTACGGTCAGATCGTAAGGAAGCATGGGAGCCCAGCATCAGGCTCTGCTCATGCATAA
TCTCATTTATTAGTGACAGCAACCATAGGGTTTTTCTTTGTGAAAAAAATTATAAAATACAGAACAGTGCAGTACCACCCAAATTAATAAATGT
TGTTATTTTACCATTTATGCCTTTATTTTTCCTAAAAGAACAGTCCCAATAAAGTGGAAGCTATAACCTTTTATGGATGAGGAAGTGGAGAGTA
ATCTGCTCAAGGCTGGCTAGCTGGTGAGCAGCAGGCCTGGCTCAGGCCCCTCTGGTGCCCCTGATTTAGGCTTCATGGCCTTCTCTACCCTGCA
GGAATTATGCTGGCTCAGCTGTGCAGGTTGGCGACTGCAAATATCAACCCCTCTAATAGGAAACCAGGCAGATTTTCTCATGCTATCAGCTGA
TTTTTGGTATATGTAAATAAAACCTATGTTTTTGAGAGTAGCAGGAAACATTTTGTTAGAAAACCAAATGAATACAGGGAGATATGGCTATCAG
GAGCTGAGACTGATATTATAATTTTCCAAGTACTAGTATCTGTGTATTGATTTTTACAGTAATTTGTACTTTCCCATCCAGCTTGTTTGTGACC
ACTGAGGCCCTTGGTGAATATCTTAGAAGTCACTCAAAATGGATAAAGAATGAATGTGAGTCACCCATAGCAGTCTTATGTGAGATAATATATG
GTTGATCCTCAGTATTCATGGCTTCTGAATTTGTGAATTTGCCTACTCACAATCACAGTCATTTATCTGTAATCCCCAAATCAATAACCATGAT
GCTTTCAAGACCATTTGAGGTCATACACACAGTGTATTAGTTCATTTTCCCACTGCTGATAAAGACATGCCCAAGACTGGGAAGAAAAAGAGGT
TTAATTGGAATTACAGTTCCACATGGCTGGGGAGGCCTCAGAATCATGGCAGGAGGTGAAAGGCACTTCTTACATGGTGGCAGCAAGAGAAAAT
GAGGAAGAAGCAAAAGAGGAAACCCCTGATAAATCCATGAGATCTTGTAAGACTTAATCACTATTACAAGAATAGCATGGAAAAGACTGGCCCC
CATGATTCAATTACCCCCCTTCCTTGGGTCCCTCCCATAACATGTGGGAATTCTGGGAGGTACAATTCAAGTTGAGATTTGGGTGGGGACACAG
CCAAATCATATCACCCACCCCTGGCCCCTTCAAATCTCATGTCCTCAAATTTCAAAACCAATCATGCCTTCCCAATAGTCCCCCAAAGTCTTAA
CTCATTTCAGCATTAACCCAAAAGTCCACAGTCCAAGTTTCATCTGAGACAAGGCAAGTCCCTTCCATCTCTGAGCCTGTAAAATCAAAAGCAA
GCTAGTTACTTCCTAGATACAATGGGGGTACAGGTATTGGGTAAATACACCCATTCCAACTGGGAGAAATTGTCCAAAACAAAGAGGTTACAGG
GCCAATGCAAGCTGAAATCCAGCAGTGCAGTCAATTTTTAAGCTCCAAGATGATCTCCTTTGACTCCAGGTCACACAGCCAGGTCCCATTGATG
CAAGAGATGGGTTCCCATGGTCTTGGACAGCTTCATCCCTGTGGCTTTGCAGTGTACAGCCTCCCTCATGGCTGCTTTCACAGGTTGGCATTGA

GTGTCTGTGGCTTTTCCAGGCACATGGTGCAAGCTGTCAGTGGATCTACCATTCTGAGGTCTGTAGGATGGTGACCCTCTACTCACGGCTCCAC
TAGGCAGTGCCCCAGTAGGGACTCTGTGTGGGAGCTGTGACCCCACATTTCCCTTCTGTGCTGTCCTAGCAGAGGTTATCCATGAGGGCCCTGC
CCCTGCAGCGAACTTTTGCCTGGTCATCCAGGCATTTTCATACATCTTCTGAAGTCTAGGCAGAGGTTCCCAAACCTCAATTCTTGACTTCTGT
GCACTCGCAGGCTCAACACCACGTGGAAGCTGCCAAAGCTTGGGGCTTTCACCCTCTGAAGCCACAGCCTGAGCTCTACGGTGGCCCCTTTCAG
CCACAGCTGGAGCAGCTGGGACACAGGGCACCAAGTCCCTAGGCTGCACACTGCATGAGGACCCTGGGCCCAGGCCACGAAACCACTTTTTCCT
CCTGGGCCTCCAGGTCTGTGATAGGAGGGACTGCTGTGGAGGTCTCTGACATGGCCTGGAGACATCTTCCCCATGGTCTTGGGGATTAACATTA
GGCTCATTGCTACTTATGCAAATTTCTGCAGCTGAGTTGAATTTCTCCCCAGAAAATGGATATTTCTTTTTCTATTACATAGTCAGGCTGCAAAT
TTTCCAAACTTTTATGCTCTTTTTTTTTTTTTAATAAAACTGAATGACTTTAACAGTCCCCAAGTCACCTCTTGAATGCTTTGCCTGCTTAGAA
ATTTCTTCTGCCAGATACCCTAAATCATCGCTCTCAAGTTCAAAGTTTCACAGATCTCTAGGGCAGGGGCAAAATGCTACCAATCTCTTTGCTA
AAACATAACAAGAGTCACCTTTACTCCAGTTCCTAACAAGTTTCTCATCTCCATCTGAGACTGCCTCAGCCTGGACCTTATTGTTAATATCGTT
ATTAGCATTTTTGTCAAAACCATTCAACAAGTCTCTAGGAGGTTCCAAACTTTCCCACATTTTCCTGTCTTCTTCTGAACCCTCCAAACTGTTC
CAGCCTCTGCCTGTTACCCAGTTCCAAAGTCACTTCCACATTTTGGAGTATCTTTTCAGCAACACCCCACTCTTCTGGTACCAATTTACTGTAT
TTGTTTATTTTCACATTGCTGATAAAGACATATCTAAGACTGGGAAGAAAAAGAGACAGTTCCACATGGCTGGGAGGCCCCAGAATCATGGAGG
GAGGTGAAAGGCACTTCTTATATGGCAGCAGCAAGAGAAAATGAGGAAGAAGCAAAAGTGGAAACCCCTGATAAACCCATTAGATCTCATGAGA
CTTATTCACTACCATGAGAATAGCATGGGAAAGACTGGCCCCAGTAATTCAATTACCTCCCCGTGGGTCCCTCTCACAACATGTGGGAATTCTG
GGAGATACAATTCAAGTTGAGATTTGGGTGAGGACACAGCCAAACCATATCACAGAGTGGCACAAAATTTTAGCCACATGCATATTCCAGACGC
TCCAACTCCTCCTTTCACCTCATATTATAAGTAAGTGTCTTTTTCCCCAGTCTACTTAGTGCCGTATTTTTTGCATTTTTGTTCCTTTTTTCAA
ATTGTGGTGACTTTGCTGTTTAGAGTACCCCCAGCTGAAGTGCTATCTGGTGTCCCTAGGTGTAAGAAGGCTGTGCTGTGCCTTACAGGGAAAA
TATGTGGGTTAGAGAAGCCTCTGTCAGGCATGAGTCATAGTTAGTGCTGTCGGCCGTGAGTCCAATGGTAGTGCATCAACAATAGATATGAAAT
AAGGTGCCTTTACACAGAAACACATAAAACAAGTGATGCATTGATCAGTTGATGAAAATATGGTGACGGCAGGCTCTCAGGCACATAACCCCTG
AGAAGCGATGGGCTACTACTTGCTAATTCAGTTTTGGGGGTGACTTTGTGGAATGTATAACCTGAAATAATGAGAATAAACTATATTCTACTTC
TTTTACAAAGCAAGGAAATAATTTTTAAAAGCAAGTTAAATTTTACTGTTTTTGTAAGAGATATGTTTTCGAAACAGTTGAACTGTTTTATAAC
ACAGAGAAAGTCTCTTTGCCTTACATTTTATATTAGTTAATTAAGTCAGCAGATTTTTCTTGGGCTCCTGTGATGTGACTGGCACTGTTTTGGT
ACCAAAAGGGCATTGCAAAAAAAGTCCAGAAGTAGACAGATCACAGCCTTCAGGATTAAAAGCAGTCTCATCAATGTGATATTTCGTTTAAACT
TAGTAGCAAGCCCATTGAATTCTCAAAATGAGAATCTGCTAATTATCACACACTTTTCTTATGAAAGAATGATTTTTCATAGTCAATATTTCTA
AAATATAATGTCTCTTTCTCATTAGCAGAGACCGATTGTATGGCAGATTTACTTGCACCTGCGGATGCTGGAGATAGGTGATGATTTAGTATAG
TGCACATCCACCAGGCGGTCCTCCTGGGTCCCAATATTTAGGCCCACAGGATGAGTCCAGGTGATATTGGGCACAGGCTCACTCAGAGGCTATC
AGACAGAAAGCTCTGCCTCACTGCACAGCAGCTTCAAGCATTGCCTTCAGTGGGAGTCTTACTTGCAGTCCACACAGCTCAGGTACAAGGCCCC
TGAGGTCCACACCTGGAGCTAATCATCTCTTTGAATAACACTGTAGACATAGCTACCAGAAAATAAAAGAAATAGAAAGGCATGATTAATACAA
GCCTCACTAGGTTCTTATTGTGAAGATCTGAGAAAGAGCTCCTCATGGCCCTGGCATGGGAGGGAAGAGTGATAACTGTAAAATACCCCTAGGC
TTTCTCCATGACAATGGTTACTCTCCAAGGGAAAACACTTTGCAAGAGCCTTGTCTCAGCTGGGAATTCCCAAGGGAATTCCTCAAGTTCCAGC
ACCCTCATCACTTTATCACTTAAAGGACAAAAAACTCATAGTCAACAGGGGTCAGCGCTTCAAGGAAATTGTTACAGAATGGTAAAGGGGTCGA
ATATCCAAGAAGACATAACAATCCTAAATGTGTATGTGCATAACAACAGAGCATCAAAATATGCAAGACAAACACTGGTAAGACTGAAAGGAGA
AGTAGACAAATCCTGTCTTATAGTTAGAGATTTTAATCTCTTTCTCACAAAAGTTGATAGACCAAATAGATAGGATAAAAATGACCTAAGCAGT
ACTGTCACTCAACTTGATCTAATTGACATTTATAAAATATTCCATTCAACAACAGAAAAATACACATTCTTCTCAAGCTCACTTGGAATATTCA
CCAAGATAGAGCACATTCTTGGAAAACATGTTAACACATTTGAAAGACTAAACGTCATACCAATTATGTTCTCAGAACACAGTATAATTAAACT
AGATATCAACAACAAAAAGATGGAGGTTTTGGGAAATTTCCCAAATATCTGGAAATCAAACAACAGACTTCTATATAACCTATGTTTCCAAGAA
GAAGTCTCCAAAATTTAAAAAAAATATTTTGAAGTGCATAAAAATAAAAATATAATTTATCAAAAATTTTGGAATGTAGCAAAAGCAGTGCTTAT
AGAGAAATTTATAGAACTAAGTGCACACATTAGGTAAAAAATATATAAAGAAAATTACTTGTGATTCTACTTTTAAGAAACTACAGAAAGAAGA
GCAAATTAGGCCTAAACCAAGCAAAAGAAAAGAAATAATTAAAATGAAAGCAGAAATCATTGAAATTAAAAACAGGAAAACAGTAGAGAAAAGT
CAATAAAACCAATGTTGGTTCTTTGAAATCATCAACCAAATTGATAAACCTTTAACCAAGAAAAAAAAAAGAAAAAAATGTAGAAGATGCAATT
TACCAATATCAGAAATGAAGGAAAGGTCATAACTGTTGATCTAATGGATATAAAAAGATGATAAAGGAAGATCATGAACAACTCTGTACTCACA
AATGTGGTAACTTAGGTGAAATAAACTAATGCTTGAGTGACACAAACTACTAAAACTTACAGAAGAAATAGGTAGCCTGAATAGCCCTATATCT
TTAAAATTTAAATTAATATAACCTTTAAAACAGAAATCATCAGGCCCAGATGGGTCCACTAGTGAATTCTGTCAAACACTTAAGAAAGAAAGAA
TACCAGTTTTCCATAATCTCTTCCAGAAAATAGAAATGGAGGAAACAGTTTCTAATTCATTTTATGAGTTCAGATTTCACGTAATACCAAAACC
AGTTAAGGCATTACAAGAAAACAAAGCAATATTACTTATATATACAAAAACCCTCAACAAAATGTTAGAAAATCAAACCCAACAACGTATGAAA
AGAGCTATGTACCACAGCCAAGTGGAATTTATTCCAGGTATGCAAAACAGGTTCAACATTTGAAAATAAATTAATGTGATACATCACATCAATG
GGCTAGAGAAGAAAAATCATATGACCATGTTAATGGAGGCAGAAAGGGCATTTGACAAACTCAAAACACTCTTTCATGTCAAAAAAAAAATCTT
AAACTAGGAATAGAGGAAAACTTTTGTAACTTGATAAAGAGCATTAAAAAAAAAAACCTACAGGTAACATCATACTTAATGGTGAGAGACTGAA
CACTGTCCCTCTGATATTGAAAACAAGGTAAGACTGTCCTCTCTTACCACTCTGTTCAACATCCTACTGGGAGCCCTAGCTAGTGCAAGAAAAC
AAAACAAAACTTATACAGATCAGAAAAGAAGAAATAAGACATCTTTTTTCACAGATAATATGCATGTCCATATGGAGAACTTCAAAGAATCCAT
AAAACAACTCTAATAACCAATAAGTGAGTCTACAGGATGCTAGATCAATATACAAAAGTCGGTTGCTTTCCTATATACCAGTAGTAAACTATTG
AAATTTGAAATAAGAATAATTACCATGTATAATAGCACCAAAAAGACAAAAAAAAAAAAACACAAGAAAATACTTAGGTATAAATCTAACAAAA
TATGTACAGGATCTGTATGCAGAAAACTACAAAATAATGATGGAAGAATCAAAGAAGATGTAAGTAAATGGAAAAGTAGTCCATGTTCGTACAT
TGGAAGACTCAATGTTGTTAAAATGTTCATTCTGCCAAGCTTGATCTGTAGATTCAACCCAATCCCAATCAAAATCCCAGCAAGCTGTTTTGTA
GCTAATGATGAAATGATTCTGAACTTTACTTGGGAAGGTAAAAGATCTAGAATACCCAACACAATACCCACTAAAAGGACAAAGTTGGAGGAC
TCACACTACTCAATTTCAAGTCTTACTAGAAACAGATACAATTTCTGCCCTTATGGGACAAACAGACATTCATCAAAAATTCACATGCTAGAAA
GTAAAGGTAAATTAAGTCAAAACAGTGGTCAGTGGTACAAAAGGAAAGCATGTTAGTTTTGACTGTGGGGACAGGGACATGTTTATCCTGAGCT
CAAAGGGTAGCCTGGACAGTGGAGGATTTTTAGCAGAGAAAAGGGCCACAGCTTAGAACATGTAGGAAGGGAGCAAGGTGGGGGCATTGACAGC
CAGAGCTACTCAAAAGAGATGTGGAGGAAAAGGATGTTATGTGGTTTTGGAGACAAGTAGGCATGTGTGGGAGGCTGAGACGTGAGATGGGAGG
GATTGGCAAGGGGTTGACTTTCAGCAGTGTAGAGAAGGGAATGATCTAAGAGAGCTTGGATTTTCATCTTCATAAATGGATGGAGCTCTTGGGC
CAAGGTTCTCAAACTTGAGCCTTTAAAATACAAAACCTAGAGCTTCACCCCAGAGTTTCTGATTTGGCAGGTCAGGGTGGAACCCTAAGAATTT
TCATATCCTCCATGTTTCCTGGTGATGCTGACATTGCTGGTCCAGAGACGCACATTGAGAACCCAGCTCCAGGGAACAAGAAGGAGCTCCAAGT
TAGGCAGGAAAGCCCCAAGCTTACATTTGGATGGGTTGACTATGAGGGCCTTTGCACTGCCACCTGAAGATGGTAGCTAAGAGAAGAGGCAGGC
TTCAAATATTGGCTCCACCACATACTGTGTGTTCTTCAGCAAGCCAGTTGACCCTCCTGAGGCTCGATGACCAGGTCTGTGAATTGAGGATAAC
AATAGTATCTACCATTAGGGATGTTGTGCACATCAGTTGATAACCTTTGAGTCAAGTACTCATGGAATAGCTGTTTTGCATTATCCTCATCACC
TTCATCATCATGGCCATTCTGGCCAGCACTAAAGATGTACAGCCAACCTCTTCTGTGGCTGAAGTTTATCTTCTATAAAATGAGAACTTGTTTT
TCATGAAGCTGTCATTTTCACAAGTTTGGGGTGCAGGTGCAGATTGCCTACTGTTGTGTTTCTGAACACTTCCCTCGCGAGGCTCCTAACCCCA
CCCCAGTAAACTCATCAACATGACTCCTTCCAGCTTCTACAGCTCTGGAGAGGGTTCCTTTTTATCTTGCGTTTCCAGGGATGTTTCACGGCCT
TTTGTGGAGTGGGCCCTGGCTGAGCTTCTGGCCCTTCTTGAGTGTGGAGGATGTCACAGACTGCAGTGGGAAATTAAAAAGCTGCTTGCTTCAC
AGAGTAAGGGAATGTTAGTAGATGCTTGAAAAGTACCCTGAGGGAGCTGGTCAGAGGTGCTCTGTAAAGTTGCATCTGTTGCTAGCACCATGAG
CAGCTGTCTGACCAGGAGGCCTGGGAACAGGGACAGAGAGAGCTGGCACCCTTCTTTCCTCTGCCCTACACATTGGCCTTTCCGCCATTAAGAC
CATCTCTGCTTGACTTTTTCAGTCTCCTGGCTGGCAATTAGCATCTTGAGGTCTCCATTAAGATCTTTTCAAGGATGCTCTTCCTATTTGGTTC

SAGRES DISCOVERY 02-39

AATCTTCTGGTTGAATTTGATACATGTTATGATGTAGGACTTTTTAAAAAAACATAAAACAATCAGGAAAACCTCGCTATACCCATTCCAGCAA
TTCAAGACCAAGTTCATTTTTGGTAAAAACACTTGGGAAAGGGCATTTCCAGGCTGGCTAAGCACTAAATGGCACAGCCCTGTCCACTGACTCC
CTCCTCAACTGGTGTGTGTTCTGGAGGGATCCATGTCTCAGAGCATTACTTCATTTTGAATGTGCAATTAAAAGAGGCCCCGTGCTGCTGGGGA
TCTCACACTTCTGCTTTCTGGTTTGTTTTGCATGCTGACACTTTGAGGAAAAGCCCATTTCCCTAATTACAGACATCGTCCAGCAGCAGGAAGC
ACTCTGGCTTGTTGATGCCTGTCTTGTGCTTTCTCTCTGTTTCAGCTGTTTTCCTTTTAAGATACTCCTCTCAGATTTGTGTGCTTCTTCCCTT
CCCACATTCTATACTGCCCAGCGCCTGGGATTCCAGATCTGCGTTTGAATCCAGGAAAGGGAGGTAGGTCAAATTTGTGGGAATCAAGCATATT
TAGAAACCCTAACCTCAGGCTCTGCGCATCTGTGGGTGTCTGTAGGAGGGATACTTAGGTTTCATGCCTGCATCTGCGTTTCCTCTCCTCTGCC
GCTAACATTCTTCCACTGAGCACATGTCCATCTTGAGCTGGAAGGTTTAGCGGTTTGCCATCTTGTCTTGCCTGCAGTTATGATGCAGCTAAAG
CATCCTTCTCTCCTTCCTATAACCTATGCCACTTTGCTTTAAGCATTGAGTATATTTATGTCTCAGGTTTATGAAAGACAATTATAAAATCTCA
GGAGACCATCATAAGCTCCTGTAATATCTTGCAGTCCTGAGTCACCCACAATTATTTTTTAACTGGCTAGGAAAAAGAATGCTAGCGATTTTTT
TTTAAATAGACATTCAGTAAAACTCTAGATATTTCTTAATCCACATTTACTGTGTCCTTTTTGCTTAAGTCAGGTGTTTTGGTTTCTCTAGCAG
CTGCAGGATCCCCATAAAGATTATGCTCATAAGGTAGTGATGGAAAAGTAAAATAGAGCCTGAAAGCGGGAAACTTCAGCAAGGCACTAAGGCA
CAGACAAGAGATGTTAGGTCTGCCGGCTGTTGTCATTGCAGTCTGCTGTGGCCTCACCCCCGCCCCCCCCCCGCCCCGCCCAGGCCTTCACAG
CTGAGTAGGAAAGGATCTTGGGATGGGTACCAGGGCAGGATCAAGGAAAGCCTGCAACTGCGCTGCCCTTCTCATCATCCATATGTGGTTTGCC
CAGATAAAAGCAATATAGTAAGATCTATCAGGCATATTCAACGTGAGTTCTTTTTTTCTAGCATCTTGTTGGTTGTTTGTGTTTTTCCCCAGAGA
AGAGTGAGTGATGAGGTGGCCCTGGGACATGGTAGATGGTGCAGTTCACTGGGGAGACATCCTTGGCCCCACTCAGGGTCAATATGCGCCCCAC
ACCGCTGGCTGCAACCCCACCCTGTCCTCTTCTGCTCAAAAGAGCATGCAAGGGACATTGCTAAGTGGCAATTTTGGTTGCAACCCAGTGTTCT
GTTAATTATTCACAAAAGCTAGCTCTCTTTTTAATTACCAATTGTGTGTGCGTTGCGTGTGCGTCCCTTCCCCCTTCTCTGAGCACACCTGTAT
GATGAGGCATGTACTTCTTCCTGGTGGAGAAGAACTGCAGAGATGTCTCCCAGGTTGAGCCTGCAGCCTGGCCCGGTCACCAGCACAGCACGGT
GACTTGACTGTCCTCCCTGGCTCCCTTCCCCACCCGTGGCAAGTGGCAACTTGCTTTCGCTCACACTGAACGTGGTCAACTTGCCTCCCTGTCA
CACTGTAGCACTTGAATAGGGCAATATTAGATTATAGCAGAGGTTCTCAGACATTAGAGTGCTTAAAAATCACCTGGGAAGCAGGCCAGGCGCA
GAGGCTCACGCCTGTAATCCCAACACTTTGGGATGCCGAGGTGGGCGGATCATGAGGTCAGGAGTTTGACACCAGCCTGGCCAACATAGTGAAA
CCCTGTCTCTACTAAAAATACAAAAAATTAGCTGGGTGTGGTGGTGTGCGCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTGCTT
GAACCCAGGAGGCAGACGTTGCAGTGAGTGGAGATCGTGCCATTGCACTCCAGCTGGGGTGACAGAATAAGACTCCGTCTCAAAAAAAAAAAAA
AATCACCTAGGAAGCTGTTTAAAATTTACCCTTCTTGTCCGTATGCCCTATTTGCTGGGTCTGAGGTGGGCCCAGAACCCTGCTTTCCAGAAGG
GAGCCTGAGGGTGGGGTGCCCTGAAGACCACACTCAGGAAGAACCGGACATGTGAGCTTTCATGAGCCAGAGTCCTGCCAAGAACTAGAATCTG
CAGGTGGCTTTGGCCAGTCCCACTTAGAGGCAAGAAGACGTGAGGATAGTAGAGAACCTGGAAATCACGCAGTCCCCAGGATGAAAGTGGAACT
CTCGGACCAGATCCTTATTCTCTTACTTTCGTGAGCCATTTCTGCCTACCTGTTGTCAGGGAGGCAGGAGGTTCATTTTTCTCTCACATGGTGC
CTGACATAATGACTTGCACGTGATAGATGCTCAACAAGCATATTGAATGAATCAATCAGTTAGATTGTAAATTAAATGCACCAGATGGGCTGGT
TGTTTATTTATAACTACACAGTTAACATTTATATTAACATAATGTTAACACCAAAGCGTAATATCTGTTTTCTGTGTTAATTATGGCAAGGTGG
GCATAGAGAAGAAGATTTCTGAGTGTCTTTTGCAGAGCTTGAAAATGTCTATGTGTTGGTTGAGATAGATCAGCCTTTACTTGATGCACTTTCAA
TCTTTTAAGTTCTGAAGGCACAGCAAGAGAATTTGGTGTTGAAGGTTTGGATAATGTTTTCAAGTATTTCAATATCCCTCTATTTCTAAACATT
AGTAAAAATCATGCCTCATGCTACCATCCTTAGCTTCACTTTGTGTTTCTGAATTGTGTATCTCTATATACTAAGAAGTCCCCCATGTATGCCT
GCAAATATGGGAGAGTCAACCGCTCAGCAGAATGTGCACAATGTAAGGCTGTGCCTTGGAGACCAGGCACCCTGTGCAGTGTGATGCACAGGCA
GGCCTCAGGATGGCGCCGTGGAGGGCAAGTGATACCTACTGACGAAGCCAGTGGAGTGGATGCAAGGCCAACTCAGGCCCTGCAGCTGGGGTTC
TGTTCCTCAGTGTTGAGGCCACAGGTCTGTGTCCACATGTTTTCTTTTGTACAGTGGGATTCTGCCGCACAAGGCAGTGCCCCCAGCCCTTTGC
AGATGAGTCAAACATGCTTGTTTGCAGAGCCTGGTGCTGGGTGGGGTGGTCCCATCACATCACCTCTTCCTTGGTCATTTCTCTGTAATTAATC
AGCCAGTCCCTGACCAAACCAGCAAGATCAATTCTCCCTCTGGTTGGACTCATTCCTCTTTTTTTTTTTTTTTTTGAGATGGAGTCTCG
CTCTGTCGCCCAGGCTGGAGTGCAGTGGCATGATTTCTGCTCACTGCAAACTCCGCCTCCCAGGTTCATGCCATTCTCCTGCCTCAGCCTCCCA
AGTAGCTGGGACTACAGGCGCCCACCACCACGCCTGGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCCTGTTAGCCAGGATGGTCT
CAATCTCCTGACCTTGTGATCCACCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAAGCGTGAGCCACCACACCCGGCCTCCTCTTTCTTATGA
AAATTAACCCACAGATGAAGTTTCCTTTCACCCAAGTCTTGACAATTTTCTCAGCTTCAAGCTGCAGAGGAAATTCCTAGGCACATCTTAACAG
GGCTGCTTTGCATTGAGGGGGCTGTGTGGTTTGAGCGTGATAAGCCTGGATATCTTTCTGCACTATGCTGATTTTTGTTCCCTTAAATGGTATG
GATTTGGCAACAATTGTTTGCAGGTGATCTTTTCCCAGAGAACCACTTATTTCCCCCACTGTCTCTGTATGATAGGAGGGCTCTAATGGCCCAG
GGATGTGAAAGTGAGACACCTTCAATCGCTAAGGACTGCTGGAAATGTGAACTACAGGAAGTTGAGGGGGCTGGAGGGGAGGAGGCAGCACCTG
CCGGAGCCATGCTTCAGTGGGTCTCAAGAAAAGCAGAAGCCTGGAATCTCAGGGCTGAGGCCCCTTGATAACTAGGACAGATGGGTTAATAAAA
AGGGATACAGAGACATAGGCTACCTCTTCTGGTTCAATGCCAAGCTAGAAAATCCTGAAATGAACACAGATTTATGAGATAGGAGTAATATATT
TAAGAACACAGTCTTACATAGAGATAACTATTTTCCCAAAACATCCAAGGTAAATTTATATATCTTTATGGATGAGGTTGGGTCTTTTCAGGGA
AGGTTGGGGAGACGGAAGGGAAATTACTTATTATCAGTCCTCATGATTCATGGATTCCATATCTCCGCATTCATCTATTCATTTAAATCTGTTT
GCAACCCCAAAATCAATACTCACAGCACTTTTGCAGTCATTTGTGACGTGCACAAAGCAGTGAAAAATTTAAGTCACCCAACACATACGTTGAG
GTCGCACAAGGTGACACTCTGCTTTCTTGTTTTAGCTCTTATAAACACATTTTCTTTTCTCTTGGCCCATTTAGTCCATGGTTTTTGCATTTTT
GTGCTTTTCTGGGGTGATTTTGCTATTTAAAAATGGCCCCAAACACAATGCTAAAGTACTTACTGTCTGGTGTCTCTAAGTGCAAGAAGGTTGT
GATGTGCTTTACAGAGAAAATACGTGTGTTAGGGAAGCTACTTTCAGGCATGAGTTATTGTGCTGTTGACCATGAGTTCAAGGTTAATGAATCA
ACAATATATATGAAATAAATATCTTTAAATAGAAATACACATAAAACAAGGTTCTGTATTGATTGATTGACAAAAAAGTTGTAACCAGAGGATC
ACAAAAACCTAACACCATATTTCCCCAGGAGCAACTGTTCAGGATTTGCAAATTCAGCTTTCATGGTGATTTTATAGAGCATAACTATTGTGAA
TAACAAGAAGCAACTGTATTTTGTTTCATGCATAAGATGGAAAGAGAACAGAACCAGAAGTATGATATCGATGAAATGGAGAGAGGAGAAAGAA
AAGAAAGAAATGACACTATGAAGATTTATTAGTTAAAATGTTACTAGTGATAATAAATTAATCAGAACTTTGGCCTCTGCCTTTGATCCTGGTT
CCCATAATCTCTAAGTGCCAGGCTCAGATAATGTGGCCCTTGCAGGGTTTGGGCAGCTAGTCCTCTAACCATTTTCTACAGGTAAACGTGGACA
TGAAAGAAGCCAGGGTGAGGCAGGCAGCTTCCAGAAGCACACACTGGGCTCAGCTCCTTCCTTCCTAACCTCTATTTTAGCTCCACGTACCTCT
TCAATACCAGAAAGTCTTCTTCTGATTCTGCCAGAGCCCAGCTCCTAGAACCTAGCTCATACACTCACCAGCCTTTTTTGTCCAACAATTCATTC
AAATATTTATTTACTTAAATATCCATTAAGCACTGTTGCTTCTCTCGCCCAACTCCATTGCACATGCTATATCAGTTATCTGTTGCTACATAAC
AGATCACTCTAAACTTAGTGGTTTAAAACAACAATAATTACTTATTATTGCTCATAATTTCTGTGGGCCAAGCATTTGAGATAGCTGGGTAGGC
TCAGGCCCTCTGTAGGGTTGTAGTCAGGTGTGGGCCAGGGCTACAGTCTCATCTGAAGGCTTGATAGAGGCTGGAAGATACTATTCCAAGGTGG
CTGCTCATACGGCTGGTCACTTACTGCTGGCTATTGGCTAGAGGCCTCAGTTCCTTACCACATGAGCCTCCCCAAAGAGCTACTTGAGCATCTT
TCCAATGAGGCATCTGGTTTCCCCAGAGTGAGCAATCCAAAAGCTGAGGAAAAGTGTTAAGGGCTTTCATGAGCTAGCTTCAGAGACCCAACAT
TGTCACTCTGCAGTCAGCCACTCTGTGTGCAAGGGATGGGAGTACCAGGAAGTGAGGATCACTGGGCACCATCTTGGAGGCTGCCTGCCATGTA
TACATTTTAACTCTCAAACAAAATTTGAAGACTGAAGACCCATACTTAAAGTAGCCTCTGTTCCAGGCAGTAGAGAACAAAATGTAAACGTACT
TACACTAATGGAGTGTCTATTCTAGTGGCTTTGGGGAATATAGACAAAAAAACAGAACTAAAACTCTAAGGTGGGACAGGGAGCTGGGAGTGTT
AGTGTCAGGTGGGCCTATAGAGCTCAGCCCCCCTTCATCATGTTGGCATTCATGCTGGCTGTTCCTCTGTAGGGGATGAAATTTCCCCTGCCA
GAAGAATGGGCTCTGGACAGCTTGTTCAGCTGCTTGCTCAGGTGTGAGCATCTGTGCCTAATCTTCCAGTCAGACTGCCCTAGAAACATCATTT
CTTAATTAGCTGAAAGGGTATCTGAAACATTGTACTTATGGTGGCAAGCATGGATCTATTGCTCTTCATCTATAAAGTTGCTGCCTGATAAGGT
AGAACTACACAAATGATAGTTTCCCAACTAAATGCATTTTAAAGGGCAAAGGTTGTATAGTCAGCTTTAGTCCTGGCATAGGGGAAATGGACTA
TGGAAGTCTAGTTGGAAGAGAAGATTGAAACATGCCAGTAAGTGCAAAAGGATACAGTATAATTTAAATAAAACACATGGAAGACATGAGGATG

CTAGTGGGATATGATGGGCTCATCCATTTCTGCAGGCTCCAGGAGGGTGGCTGGCAGGGCTTCTTTGGTGTGGGGCAGAAAGAATCAAAGCCTG
TAGAATAAATCTGACTCCGTTCTAGATTTAACTCCTCATGGTGTATCACGTGCAAGGTGAAGCCTGACTGGCACTAGGGAGGATTTTGAGGTAA
GGAAGCATTGTCTTTGGTTCAGTCCAAGCCCTCACTGACTTTCCACCATCTTCAGGTGGGGGTGGGCATGTCCGTCTGTCTCCCAGCCTCATGC
ACACACATGTGTGCACACACATGCACACACATGCATGCCTTCTTATGAAGTGTGGGTCTGGCTGCCCGTGCTTTTTCCTTCATCTCACCATGAC
TTATCCTTCCCTCTTCTATTCAAAGTTCCCACTTGAGAGGGTCCAGTTGCCCTGGGCACCCCTCCACACTCCCCACTCATGACTGAAATTAGTT
ACAGTGGCTTTGGTATACTGTCATCCCCTTTCACCAGTGAAGAACTCTATTGCTATAGTGCCCAGGTCACACAAAGCTGGGCCGGGTCGCCAGC
GTTCCCGATTCTCACCTCTGTGTCCCTGGGTTTCCTGCTCTCTGGCCCAGTGGAACCACCTCCACGGGGTACCATTCCTTTCCAGCCTTGTCTT
TTGTTCATTGGCAATGATGTTAACAAATTAAATAGGGGAATATTTGTTCATCTAATTTATTGGTAAAAAGGCTAGAACAAGCTTATCCAACCCA
TGACCCATAGGCCACATGTGGTCCAGGATAGCTATGAATGTGGCCCAACTAAAATTTGTAAGCTTTCTTAGAACATTATGAGATTTCTTTCCCT
TCTTTTCTGTAGTTCATCAGCTATCATTAGTATTAGTATATTTTATATGTGGCCCAAGACAATCCTTCTTTTATCAGTGTGGCCCAGGGAAGCC
AAAAGATTGGACACCCCTGGGCTAGAGCAATAAAATGGGCACATCAGATTTGTGTCCACAACAGCTGACACAGTGGTTTCCAGTCAGGGGTAAG
TTACCCTTAGGGAACACTTGGCAATATCTGGAGACGATGTTTGGCTGTCATGATTGGGGAATGGGGTGCTACTGGCATCTAGTGGGGAGAGGCC
AGGGATGCTGCTCAATAGTCTGTACTAGATGAGACAGCCCCCGACCCTACACACATAACAGAGAAGGATCCAGCCCAAATGTCAAGAGTGCCAA
GGTTGAGTAACCCCGAGCTAATGTGATGAATGGTGCCAGATGGAAATGGGTGGGACCATCATAAGGAGGGGGAACAGGGTAAAGGCAACCATCT
TAATTTGTAAATTGAGTGTGGGGGATGTGTTTTGACCACATGCTTTTGAAAAGGGAAGCTGTTCATTCTCCAGAAGCCCAGCGGAGATGTTGGA
TGGATGGGGCCACCCATAGCTGCATTCATGGACAGCTGGACACGGGCCCAGGAAATCTTGGCAGCGTCACTGGGGCCGGTGCACTTTTAAGAGG
AGCTTGGGTGATATGAAATTGTTTGGACAAAATGAGTGAGAGGTCTTGAAATAATGTCAAGGCAGGAAGAATGCATTGACTTGGAGTGGCTGCC
AAGAGCAAGCATTTGCAGGTTGTTTTGGGGAAGCAGAACTGGCTGTGTTCTCTTTGTCCTGTGCACAGTTGGAAGACGGGAAATGGAGGAGGAG
AGATGGGGAAGGAGAGATGGGGAATCAGATAAGAAAGTGTTTTCCAACAGAAGCATCGGCACACATTGGAGTGAGTTCCCTTCCCTTAAGAGGC
CAGGAGCTTATGTAGGAACCAAGCTCCATCTGAAGCAGCCACAGGGCTGGAGCATCTCGCAGATTAGTTGCCAGGGTTCTCTGATTCTGGCCCT
GTTAGCCTCCATCTGGACACACAGCAATTGCATGTTTAGCATTTTTATTACAAAAGCAACATACAATTTTGACCCTTGAACGTTACAGGTTTGA
ACCATGTGGGTTCACTTATATGCGGATTTTTTTTCAACAAAAATATTGGAAAAAAGTTTTGAAGGTTTTTGACAATTTTAAAAACTTGCAGATG
AACTCCATAGCCCAGAAATATAAAAAATGTTGGCCGGGCGCTGTGGCTCACGCCTCTAATCCCAGCACTTTGGGAGGCTGAGGAGGGCAGATCA
CGAGGTCAGGAGATCGAGATCATCCTGGCTAACAAGGTGAAACCCCGTCTCTACTAAACATACAAAAGTTAGCCGAGCGTGGTGGTGGGCACCT
GTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAACAGCGTGAACTGGGGAGGCGGAGCTTGCAGTGAGCCGAGATTGTGCCACTGCACTCCA
GCCTGGGCAACAGAGCGAGACTTCATCTCAAAAAAAAAAAAAAAAAAGTTAAGAAAAAGTTAAGTGTATATTGAATGCACAAAATATATGTAGTC
TATTTTTTCATTTACTACCATAAAATGTGTACAACTCTATTATTAAAATTAAAATTTATCAAAACTTACACATAAATACTTATATGCCATTCAC
AGTCGAGGAAAATGTAAATAAATATAAAGATGCAGTATTAAATCATAATTGCATAAAATTAACTGCAGTACACACTGTACTGCTGTAATAATTT
CATAGCCACTTCCTGTTGCTATTGTGATGAGCTCGAGAGTTGCAAGTACCTGCCTAAATCACTGTGTGATGCTCATCATCTCTGTGTGAGCAGT
TCATCTCTCCAGTAAATTGCATATTGCAGTAAAAAGTGATCTTTAATAAGTGATCTCTTGCAGTTCTCAAGTATTTTTCATAATGTTTAGTGCA
ATACCGTACAACCTGAATAACACCATGGGTCCCATGTGAAGGGTCACAGTGAGGCTGGAAGTGCTCCCAAGAAGTCATGACATTATAAGAAAAA
GCTGAATTGCTTGATGAGGATTGTAGATGGAGGACTGTAGCCATGGTTGCCTGCCATTTCAGATGGATGAGTCATCTTGTAAACAGATGACAGT
AAATTTATGGTATTGATAAATACAGTACAGTATTGTAAACATATATTCTATTCCTTATGATTTTCTTAATGACATTTTCTTCTCTAGCTTACCT
CACTATAAGAATATAGTATATGATACATATAACATGCAAAATATGTGTTAATCAGTTATTTATGTTATAGGTAAGCCTTCTGGTCAACAGTAGA
CTATTAGTTAAGTTTTGGGGGAGTCAAAAGTTACACATGAATTTTTACTACAGGGTGGGTGGTCAGCATCCCCACATTGTTCAAGGGTCAGTTG
TATATTCACTGTGGAAATCCTAAAAAGCAAAGAGCAACATGTTTCCATCAAGCAGGATTTTGCCAGCCTCTGGTTAAACCCTGAAGCCTGAGCA
AGGCAGTGAAATCTCCAGACCTTTGGGGCTCACATTTTAGGGAAAGGGCAGGTTTGTGTTGATGCTACAAAGGTAATAGATGCTTTTGAGAAGT
TAACTATGTGCGGGGGTGGCCAAGGTAGGCCGAAGCAGCACCTGAGACTGGATCATCATGATGCAACTCTCTGAGTAAAGGCCTGAGAAGGAGG
AAGCCAAGCAGGAGGCAGGAGAGGCCTCAACCTGGAGGCAGAAGCACAGTGTGGTGGAGATAGTGAGCAAGGTGAGGTTGCAGGTCTCGGGCCT
GGTCAAGGAGAGCCTTGTGGAGGAGCAATGAAGATTTGCGATGTGATGTGGATGGAGAGGTTCCTTGTGAGCCTCACTCCACCTTCAGGGTAGG
GAATTGTCAGTAAGGAAAGGAAGGACCAGGTGAGACTTCCAATACCTGAGAGATGGCGGTGGCTTCCACGAGGGCAGCCTCAGGAGCTATGGGG
AGACATGATGGCTTGGGAATATATTTAAAGAAAAGCTACTCAGAGGACCTGGAGACCAGCTCATCTAACCTGCTTCAAGATTCTCCATCCCTG
TGACTGCATCAGATGGAGCTCAGCTCCTGCACAAGCTCATGGCTTCCCTGCATCACTGTGAGTGGCCAATGCTTCTGGTAGAAAGCACATTCCT
TTCTGACTTGGTGAGAGGGAAGACTCCTGAAAGCAGCCAGGGTCTCATCCTCAGCAACTGTGGTGCTCAATGTCATTTCCTCAATTAGGAGAGA
CTGAGGGAGGAAGAGATTTGCTGAGGGAGTGGCAGGAGGAGTCAAAAGCCTCATCTGGAGTATGTGGAGGTCAACTTGTCTGTTACACATCCAA
GGGGGGACGTCAGATAAGCAGACATGCAGATCAGGAGCTCAGTGGAGAGAAATAAATACCCATTAACCAACAAATATTTTTGATGACTTATTCT
GCACTAGGAGCTGTTCCAGGCATGGTGATATGGCAGTGAACAAGGTCATCCTATTCTCACCTCCCAGAGCTGGCCCTCTGGTGGGAAGAACAAG
ACAATACTCAAATTCAACAGTGAATCATGATTTAAAGGGCTGCTGCCTTATGGAGATGTGCTGCAGAGAAAAATTAGGCAGGGAAGGGAGGTAT
GCGGCCCAGGACATTACAGAAGATTATTTCATGTCAAAAAACATTTTTCTACAACTAAGTGCACATTTAACTTGTGTCACAAAAAAGGTCTCAA
AAGAGCAAGGGATTTGCAGTGTTTTCAGGAGCTCACCAGACACCTGAAAACCCTCCTTGCTGAACCACTACCTGCCCAGGTGTTCACTGAGGTG
CCAGACCCAGCAGGCTGAGGGGTACAGGTGGAGTTAAGGAGGAGCTAAGTGGCCTGGTTTGTTTCTCAGTTTCGTGCTTTGGAATGAAGTAGTG
TCACACATGGAAAAAAATAACTGGGAATGTTGAATTAAGAAAAAATAGGGAGCAAGTTCTAAACACTATTTGGAAGAAAATGATCCCTGGGAAT
GCTAAAGAGAATTTGAGCCATGAGCTGTTCCTGTAGTCAGAGTTAAGCATTGTGAGTTGGCAAAAGCATCAGGCGGGAAGGACTGAGTCTGTGT
GTGCAGGAGGAATGCCTGCAGGGGAAAGTCACGGGCTCCGTCCCTGTCTCAGTTGGTGGGGGTGGCAGAGATGCCACAGCCGTGGCCAAGACTA
CGCTGGGTGAAAAGTGAGACTCTCTGGATTTGCCATACTGACTGAAAGCTGATATCTGAAAAGTGGAGCTGAGAACAGCAGCCTGGGCCACTGT
GGGCAGTGACTGGAATGGAGATGGCCATTTCCTGCCAAGGTGGCCTGAGAAAGAGGAGGTTGGAGACCAGGACAAGGCCCCGGGTGGGTGCCGG
TGGGTGCCAGTCCTGAGAAGGTATGCACAGGAACACCATGGACATTGTTTATTCCCCCAATTAAGTAGCCCAAAAATGTGCCATAAGCTGTCCT
TGCAGTGAACCAGTGATTCTGCCCAAACCATCACCACCAACATACCCAGGTCAACTCCGGCACAGGAAGTCACATGGCCAGAAAAGGGCCATCA
GCCACATCGGTGCTGACACTGAGTGCAGCACATTCTTCTGCCACCTGCTTGCGAACATATCTGCAATGCACCATCAAAGCCACACAGAGTGTCC
CTGGCGTGTGCCTGGAGGTTGCTCCGGGTCTGCAGATGCTCCCCAAGACCCGACCACAGCCTGTCTCACTTCCTTTCCATTCACTTCAATATGG
GATTCATGCCCAAGTGCCAGCACCGATGTAATGATTAGTGACAAGCCAATGAATTTTTAAAATAGTAGCTATGTTAAGATTTATATGAATTAAA
AAGTATTTGCTCTCATTTTATTTAAAATTTTGTTCCTACAAAGTTACTGTCTCAGTTTGAGCTGATGGTGCAGTCTGCTGTTCTGCAACTACAT
AAAAAGTAACCTGGGCCCTGCAGAGGGGACACAAGCATCGGGGCCAGGTACACAGTGACAGGGGTATTTGAGCTGGGTCTGTAAGGATGACTGA
GATGGCTGGGAGGAAGAGCTGCACGCCTCAGCAGAAAGCACACGTGGTGAGAACAAGAAGGGAAAGCCACAGCATCCCGGTGCAGTCCAGTGTG
GTCTGTGGACTGGGCATGTTGGAATAGGCAGGAAGGGCTGATGTGCGCTTTGAGGGAGGACCGGGCAGCTGGAGAGGGAGGCGTCAGGAAGCAG
GAGGGCAGAAGGTGAGGAGTGAAGGGCAGCAGTGGAAAGGACAGGGTTACGCCAAGCAGTGGTCATGGATATGGGCAGTAAGGAACATGCACCA
AGGGCGCCTGGAAAACGAACCTTAGAGAACGCAAGTCCTGCGGAGGACTCCTGGGTTCCTGGCTGGGACACCGCCTGGGCAGGGAAGGCAGAGA
AGATGGAGAACCTGGTCTCAGGTGGCATCAGAACCCAGCATCCGCATCACCAGGATTGCAGGAGCAGCAGCGTCTCAGGCCCTGGGTGTGTCAG
AGCCCCCAGGCCACGTGGAAGTATGAGACGTGCTGGGCTGCAGGGGAAACAATGGAAATGAGGTTGGAGGCCCGAGAAGACCCACTGCAGGAAA
AGGGTGGAGTGGGGGAAAAGCAGGCTGGGGGCAGTGGCTGGCCTGCAACAAAAGCATTGTAGAATGCAGGCGTGAGCCACCGCGCCCGGCCAAG
GCGGGCAGATCATGAGGTCAGGAGATCGCGACCATCCTGGCTAATGCGGTGAAACCCCGTCTCTTCTAAAAAAAAAAAAAAAAAAAAAACTGTA
GAAAGGGGAAAGCAGTCCAAAGAGAAGTATTTCTTCCAAGAGACTCATCAGCACACTGTGTTTCCAGAGATGTCTTTCTGTTAACAGCATTCTT
AGACTCAAAAGTAAATGTAGATATACTTTAAAAAACAAAAACACCTTGCTAAGAGATGAATTTTTAGAAACTTGTTGGACAAAGAAAAGTCATT

GATAGTCAACTGCTGTGAGAGGCAAGCCAGGAAATGATGATTAATACCCTCAAATTATAATAAAACCCATGCCTCATTAGGGGCTCGCCCAGGA
GTACTGACTTGTGGATAGACACCGTCTGGGGAAAACTCTGTCGCCTGTGTCAGGCTGACGCTCTTACATTTTATAGCCCCTTGTAGGATAGTGC
ATGTTGAGAAGAAGCCGCTTNNN

GTTGTGCCTGTACATATACTTGCAAACCAAATGTGTTGATTTTTTTATCGTGATTTCAGGGCCTTCACTTTCTCATGCCTGAGCATCAGTCAGT
TTGTCTCCGCTCTGATCTCCTGTCCACCCCACCCACCGTGCTTTTACCTGGGTCCTGTACAGGCCTGTGGGCTGGCCCTTAAGAGGTTTTCAAT
GAATGCTTGTCACCTAAATCAATGAATTGTTTGGATCCATTCTCCATCTCCCAGCTCGTTTTTGCTTTCCACTTCCTGACATGTAGTAATACCA
CTGTAGTTCTGTATGGGGGCAGCTCCACACCTGTCTATGTTGGGGAGGGAATGGGGATTCTTGCACCTCTTTCTACCTCCTCTTAAATCATTAC
TGATGGACAGATGCAGGGACACAGCAATAGATATAGAAATATAAAAACATGACACTGCGCACTCTATGGTTTGTAAGATTCACTTTCTCTGGGT
AGGAGGCAGTGTGGCCTGTTAACAACATACCATTCGGGTTGTCTGGCCTCAAATGCTGGCTCCACCTTATCACCAGCTATGGGACCTTGAGCAA
GTTACTCAGTGGTCTGTTTCCTTCATTTCTTTGTCTGTAAAATGGCTTTAATGTCATCTCTGACTCTTAGAGTCATTGAGGGTTATAGAGTATC
ATAAACCGAAGGCCTGCTGCACGGTGCTTGGCACCGAACGAAGCAGCTTCACCCCACTCCTGCAGTGGCCTGGACCACACTTGGATACATCAGT
AACATACACTGAAGGTCAGGTCCTCCATGCAAACTCTTTCCATCCCTGCATCACAGGTGTACCATGACCTCTGCAGGTGAGTCATTCTTCTGCA
GGTGAGAAAACCAGGCAGGTCCCCCTTATCCTTCCCTTCTCTTCTTCAGTCTGCAGTAGGTGTGTTTATTTCCACTCTGTGGCTATGAATAGAT
AGAGTGAGAGTCACTGGCCATAAAAGGATTCACACTAGGCTTTTGCTTTTATGAAGTGACAGACTTAAATAAAGAATAATTATTTCGGCCGGGC
ATGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGCAATCACAAGGTCTAGAGATCAAGACCATCCTGGCCAACATGGTGA
AACCCCATCTCTACTAACAGTATAAAAATTAGCTGAGTATAGTGGTGTGTGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCTC
TTGAACCCAGGAGGCGGAGGTTGCAGTGAGCCAAGATTGTGCCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTCCATCTCAAAAAATATAT
ATATTATTATTATTATTATTTCACAGAGGGGGTTGGAAGTTTATTTTTGCATTGCAAGCCATAAACTAATCAAGAGGATTTTACTAGTTTGGTG
GATAATATGGGTAAACAAAATCCCAGCGATTACTCTTCACACTTTCATCGTGAGTACCAATATGCTGTCTCCACCATTCAGATGCCAGCATTTC
AGTCTGAGAATCGCTTTACGTGGAAAGTGGCATTGGTAAGAATTGGACTAAAAGGTAAAAAAAAAAAAAAAAGAATTCCTGAAATGCATGCACC
TCCATAGCCATCACAAAATGCCTTTGCTCAAACAGACCTTGAAAACACTGAGGGTAAGGCAGCATATTTTGGAGATCAAAATCTGATTATAAAT
CCTAGGTAATGCAGTTCAAAATGCAGATGATGGAAGCAGATTACGTCTGGGAGATGCTGTCCAACTCGGATCCCAGTTTTCTCTCCTCAGAACT
ATATGTGAAATCCACTTACAGTGAGAGTACACCTGAGCTAGAGGGCATTTACCACTTAAGGGGGCTAAACTTATTGTTTTTCAAACAAGAACTC
GGGTGTGGAGGAGCTTGTCCAAGGCAGGAAGGCAAAACCAGGTCCCTGATGTTGTCTGGGGCTAAGCAGAAACAGCAGCCAGCAACCAAATCCA
TCTCCAGATGGATCCATCTCCACAACCACAGGCCCCTCCCTATTCCCCATGCAAGATGCAGCACCAGGGCATGTCCATGTGAAATCTCAGAACA
CACAGAGGCGTCCATCAGCTTTCCCCTCTCTTGTGTCCTGTCCACAGAGCTTACCCACACCATTCAGGAGTGACTTTGAGAAGGTAGTTACAGG
GCCTTTGCACATGTGCTTGAAGAATAACGAATATAAACAGAGGCTCTTTGTGGAGGGGCTGGGCAGTGTGGGTCAGTGGTTGTCCCTCACAGCC
GCCTGTGGCATTTCTGGAGGTGATGTTCATCACCTGGCCTTTGCTATATAAGCACTGCCCTTGTCTGGGGTCTAGCTGGCCAGAAGCGAGCACT
GGAGGGGGAGTCCTCCAGCCCACGTTTGGTGGGTGAGGGTCAGAGTGCTGCCTTGTTGGTGACGTCAGGGACCAAGGCAAGGGAGAGGAGCTGA
GTGGGGAAGGAGATCCCCTGCCCCCAGAGGCCTTGTATAGCAGCACAGTTTGCTATTTTGAGAAGCTAGTCACAGCTGTCTGTGAAAAATGAAT
TTGTTAGGAAAAGGAAACAAAGCTTACTTTATAAAAATTATATATCCCTTCCCCAAAAGGGAGGATCCAGGATTGAGGGGTCCGAAGCATATAC
AATTTGAAGACTCTCTTATTTTTTTAAAAATATAAAATTAGGCATACAATAGAATGTATTTTTTGGACTAAGGAAAAAAATTCAATAAATTAGA
ATTTTTTTAAAGGCTGGTCAATACTACAAGCATACAAACTTTAGAAAAGATAATGTAATATTTTAATTAACTGCCTGACACGTCTCTATAACAC
CTTTTGTTTCCTCCATGTCCTTGACTTCACTGTGTTTGACTACATCTTAGTTCAACAATATTTAATAATATATTTGTCTATATATAGAAAAAGA
GACTATTCATTCCTTCCTCTAGGTTCACACTTCATTATTAATAATATCATGTACATTTTTAGAATCCTTGTCAAATTTGGGAGGGGAAGATAAA
GTAGAACAGAGTGAGCTTCCCTGGCTGTGACTAAAATATCTTTTGCAATCTGTACAAAACCTAAGGCCGTGCAGTCACATTGCTGGGCTCCTCT
TGGTCTGGAGGAGGCTGTGATCAACTCCTCTCTGACCCTCATCCACTTGGTTCACACAATGTGGTTTATTGCCATTGTGCACAGCCAATTCTCC
CACACACATCGCTCTGCTAAAATGTAATGGGATGTGGCCTTCATTTCATCTTATAAATGATCTTAGAATGGAAATGCTCTAAAAAGTCCATGCC
AGGCAAAATTTTAAAGATGGAAGTATTGTTTCTTTGTATTAAGTGTATTGTTTTTGGCTAAGAGTCCTTGTAAATCTTACAAAGCCAAGAACAA
TTTCAAGGTGACCTTTAAGACACATAAGTGGCTGCTCTCCAAATAGCTCGATTAATGTTAAAAATAAAAGGTAGTATTTCAGATTTGTGGATGG
AGTCGTCCAACCAGTAAGTCACCAATGCTATTTTAACTACAGTTTCTACCTTCTGACTTTAGAAAAAAAAGTTACAAAAACAGTCATTCATTCA
ACAAAATAGGCATGTTTTCAACCAGACATGCAGCAGGCATTGTGATAGGACTTGGCTACTGTGAGGAATAAGTCAGACCTTAGTCCCTGCCCTC
ACCGGACTTTGACTGCAGGGGGAAGATGACAAACGCAAGCTGATGTGCTGCAAAGTCTGCAATGCATGGCAGTAGGTCCCCTCCACCACGACAC
TGGGCCTACGCAGCATGATCTTGATTTTGTTTTCATTTACTTGTTTATAGTCCCCACCCCCACTTGTGCTGGATGCACAAGGGCAGAGATGGGG
CTGTTGCCTTCACGAGTGCAACCCAGCACCTAGAACATGGTCTTGGTGGGAAAAATCTCTCTGGGTAAAGGAACATTCTGGCTGCTAACTTGAA
TGGTGGCCACTACTTGGATAGGAGGAGGGACAACATGGTTCATCGGGCCTGTCTCAGGTGCCCAGGCTGGACTATCATCTAGTGTGTCGCTAAC
TATAGGAACTGGGAAGTGGCCTTCAGAGCAAGTGGGCTGACTGGATTTGGCAGAGCTTGACACCTCACCAGGCAGATGCAACAAAAGAGCAGGG
CAGACCCAGCCATCCCATTACTGGGTATATACCCAAAGGACTATAAATCATGCTGCTATAAAGACACATGCACACGTATGTTTATTGCGGCACT
ATTCACAATAGCAAAGACTTGGAAACCAACCCAGATGTCCAACAATGATAGACTGGATTAAGAAAATGTGGCACATATACACCATGGAATACTAT
GCAGCCATAAAAAGTGATGAGTTCATGTCCTTTGTAGGGACACGGATGAAATTGGAAATCATCATTCTCAGTAAACTATCGCAAGGACAAAAAA
ACAAACACCGCATGTTCTCACTCATAGGTGGGAACTGAACATTGAGAACACATGGACACAGGAAGGGGAACATCACACTCTGGGGACTGTTGTG
GGGTGGGAGGAGCGGGGAGGGATAGCTTTAGGAGATATACCTAATGCTAAATGACAAGTTAATGGGTGCAGCACACCAGCATGGCACATGTATA
CATATGTAACTAACCTGCACATTGTGCACATGTACCCTAAAACTTAAAGTATAATAATAATAAAATAAAATAAAATAAAAAAGAAAAAAAAGAG
AGCAGGGCAGCAAGAGATTCACGGGGTAGCATGGGTATGGTGGCCAGGGCAGGCCTGGATGCCTGCAGGAGAGGGAGGGAAGTGAAGCGGTGGA
TGCCGAGTGGGTGTGCAGGAGCCCGGGCATCTACAGAACCCCAGTCCGAGCCCCAGGAGGCAGCACCATGTCATGGTCACGTGGTGCCCTGAGA
CCATTTTGGTGCCCTGAGATTCTATGGATGGTGGCAGAGTTTTCCTTGATGGTGGCAGACTGGCCGGGTGGTGGAGGGATTGGCACGTGGCTGC
CCCAGGCCACACCATGAGGTGTTGAGAGAGATCCTGGCTGCTCAGCTGCCCCGAGTGTGCAGCATGGAGCAGGGGCGGCTGCTCTGACGGCTCA
CAGCAGGAGAGGCACCTGGAGAGCTGGGCTGTGATCAGGCCCAGTAGTTTGCAGATGTCTGGAGAGAAACTGAGTCAGAGAGGAAGCCCAGGAG
GTTGTGAGCCTCAGCGATCTGAGAGGCATGCATGTTGAAGAGTGAGTGAGGAGGATGGGAAGCCTGCAGGCTTGGTGGGTCCTAAAGTTGCAAG
AACATCACTGTCCCCTGCAGCTAAGTGGGCCTGATGTACTCCACTCAGGCCACAGTTGCTGTACATGATCTCTTGGGACCCTAGAAGTGCTCCT
TTCCATGATAGCTCTTTAATACATTAGTTAAAACGATTCCCAGGAAGCCCTTGTTCCAAGTATGCAGGATCAGATAAAAAGCGCAGAAACCCTC
AGAGCAGGGACCGACGGTGAGTGCAGTTTGCCCTCAGAGGCCTTGGTAGTCACCCCTTCCCAACCCCCATGCCACCACTGAATCCCCATGTGGC
TTGTTCTTATATGCCCTGCAGCTGAAATTCAGGTGCCCTCCTGACCTTCCTTCCCCTGTCCATTTTGAAAAGAAATAAGCAGTGTAATCTTTGA
GTCATCCCTTTTGTACTAGCCAAGTTCCAGGTGCAGCATGACACACTCGTTATCTCCACCTCTCTTCTCCCCTTCCTTTCCCTCATGTCTGCAC
ACACTCCCATCCCCTCACTTCTTCCCCCTACAGCCCGCCTCTCTCTCTCTCACACACACACATACATACACACACACACACACACACACACACA
CTTGAGAACCGCGGCTGCATATCATCTCCTGTGGACCTGTGCACAACCTGTGGGGCCCAACTTAAAGTACTGCATCCATTCTCCGTGGTTTATC
CTAATTTAGGTTTGTTTCCTGGTCATATAGAATACTGAAGTATATGTCTTTAGGAACTGTCTCAATTTCTTAGAGAAATGGGATATACGTGAAT
AAAATTTTTATGATTCCCTTATACTGAGTCCCACTTGCACTGCAAAGGATTAATAACATCTGTTTCCAAAGCAAGGCGTCACCTGCCATGCAAG
CCACCTGCTGGGGAGGGGAGGTGAAGGGTGTGAGCATTGGTGAGAGGTGTTGTTCTCATGTTCAAGGTGACAGGTATGTTATCTGGTGTCCCCA
GGCTGGGTCCCACCCAGGGCCTGCTCCTGGACGAGGGCTGTATGGCTCTGATTTGCACACCCCTGATTCTGGTGGACACAACCCTTTTTCTTAG
AAAGCCAGAATCACTGTATCTTCTAGTCCTTAGCTGCATAAAAAAATGGGGTGCAAAACTTCTCTGGACTGTCTATTCTTATTGTTCATTGGTT
TATCCTGCAGGGCCACCCATGGAGCCCGTAACTTAAGATGCACAAATGAGCTATTGAGTGAATATGTGTGTGTGTGTGTGTGTGGGTGTGTG
TGAGAGAGAGAGAGAGAGACAGACAGAGAAAAAGAAAGAACCATCTGGAGGGCTGGCAAAGCACAGATGTCTGCGTTCCATCCCCTGAG
TTTTTAATTCACAGGTCTGTGTAAGGACTCTTCCATTTGCATTCCTGCCAAGTTCTCAAATGATGCTGATGCTGCTGGTCTGGGGATATGGTGT
GAGCCTGTTTGAGATACCTGTTACCTACCTGGGCTGGATTAACAACTATGATCATTTGAGATTTTCATAGTTCATTGGAGGGTCTGTAACTGCA
TTTGCAGTTGCAATTCCTGCAAAATGCCCAAATACTGTATTATTGGACTGGTTCCGATAAAGTTATCTTTGAAAATGCCTCTATTTCTAGAAAC

TTAAGTTAGATAGTAAAGAAATTCAGGCCATGAGTCAGACAGGCCCTGCCACTTAATAGCTCTGTGATTTGGACAACTTAATTTTGCTCTCTGA
GCCTCTGTTTCCTCAGTAATAAAATGGGGAGACTGATGTTTTATCTGAGTCATTATGGAGATGACTTAAGTAATGTGTATAAAGCTAAGCCAAT
GGTTCTCATGTCTCTGTGGTTCCTACATCCATGAATTCTTTTCTTTCATCAGTTCTGAAAAACATCTTGCTACTTTTTTCTTCAAATATTGCTC
TCTGTTGTTCTTGCCCATTTCTTCCTTCAGAGACTCCTATTAAATACAGTTTGACCTTCTCAATTCATCCTTTATATTTTTTATTTTCCCTTGC
CTTTTCTGTGTCCTGTGCTATGAGTAACGTCGTTGAATTATTCTTCCAGCGCACTAATTTTTCCTTCATTTGTGTCCAATCTGCTCTTACGCTC
ATTCACTGATTTTTTTTAATTACATTTTTTAGAAAATTTCTAGCAGTTCTGTTTGTTTGTTTGTTTGTTTGTTTTTTCAAATATTTCTGGGGCA
TTTTTAGAGTATCTTATTGGTTGCTAATTTCCATGGTTCCGTTTTTTATTTTGTTAAACATTTCATAGTTTATATTCTATATCTGATTATTCTA
CTACCGAAACTTTTGGAGGATGTAAATCTCTCTCTCTTTCCCTCCCTACCCCTTTTCTCATAACTCATGCTTCCTTATGTTTTCAGTGATCTTT
CTGAGCTTATGCCTGATTGATATTAATCTGTGGGAATCCTGAGTATTCGATGCTGGGAACACTTTCCTCCAGAGTTGAAGGGGATTTCCTCTTC
ACAGGTCCTTGCTTTAAGGTGGGAATCCCACATCCAGGTGCTCACTGGGCTGCTGGCCTGAGATTCTGTCCCTGTCCACAGCTGTGCTGATATT
GGCATTGGCCCTTTGGCCAAACCCACTTTAATTGCTCTCATTTGCCACTCACTTTTTGCTGTTCAAGTTTCAACTCACTTTTTGTCCTATACTT
CAATTTCAAAAGTGAATTTGCGGCTTAGGAAAAACCTTTTCCTTGTTCATTGAGGAATGAGACTGTGTTAGGCTGTCACGAGCCTCCTTTGCCA
CAACAAAAACTCTGTTCCATCAGTGCTTTCATATGCTGCCGTAATTGATCAAAGTATGCCATTTTATTTGACACATGTGGTTTTGCAGACCTAG
GTCATCATAAAGAGTCATGACCTGTCTGAAGTTAAAACTTCAAAGAGAGTTGTGGGCTGATGTCAATATCACTTCATTGATGCTGATCAAAGTC
TCCTTGAAGCTGAAAGACAAGATGCGTTAAATAATTCCACCTTCATGAACTAAAGCAGAGGGAGAGAATGAGAGGGCGTTTGTAATAAAATGTT
TTAAACGACAGGTGTGTTAAAACAGCTTGGTGTGGCCTCAGATAGGGATTGTGTACTGATCTTGCTCTTCTTTGTGTGGAATGCACATGTGCCT
CAGTAGTGCTATGGCGCAAGGCAGAAGCACTCAGAAGTTGCATTATCTATATCTTTCATGGATCAGTAAAGCTGGCATTTCTCCTGCCTCTTGC
TGACATACACACTGTTCAGGACCTCATTCGCTCCCACATCCTCCTCTTCCCCTCTCCCAGCTCTCTTTGAGAAACCACTGTTGGGAGATGGCTC
TGAGTGAGAACTGCCCACCCAACCCAGCACAGGCCCCCTCTGTCCATCTGCCCAGCCCACCTTAGCCACAGTGAGCATTCATCCTTTGCACATC
TAATGCACACAGCCAATCCCAGGCATCTTCCTTCCCCTTGTATGAGTCTGACAACTGACCCGGTGATACTCTACTCTGCCATGGAAAAAAAATG
GCAGGGGAGAATGAGAACACCTAGTGGGCTGGAATGTGCCCGGCTTTTCTGTTCCGTCTACAGCAGATACAGGCAGTGTCCCCGTAGCCCTGGG
GAGGCCACCTTGAGTGCCTCACTACTTCTTACATCCTCACTTTCCCCTTGGTGCCCGGGCATCACCTCTGTATATTCTCTCTCCCCTAGGAGGG
TGCAGGAGAGTAGAGGAGTCCAGCCCTTCCAGGCCATGCCCCAGCAGAGTCAACATGCCTCACCTTTGGATAGTGTTCTAGTGTCTGTGAGGCA
CAAGGCCTGCTCACCCCAGAGGCCAAGGCTGCCTACCCTGGGAAAGTAGACATGCCGCAGGTCAAGGACTGTCTCAAGACCAGTTAGGACAGCT
TCTCAGCATCATCTCAAGCTCAAGCCCTGGAAATCTCAGGCTTTGCAATAGCAAAACACAAATCTGTTAACTTACTCCTCCCAAGACAATTACT
GGGAAAAAATATTTTGTAAATATTCAAAGGCTTCTGTGAACAGCCTGAGGCCAGATGACCCTGAAGGCGGAAGGCAGCAAGCCAGACAGGAGCC
AGGAGCCTTGCCTGTGTGCACGCCCTCTCTGGGTGTCTGTAGAGCCATAAGCCTGGGTGGGTGTCCTGATGCCACCACCAGGGCAAAGCTCTCA
GTAAGAGGACACAGCCAAGAGGAGGAGCAAGCCTTCCAAATCAGTTTGTCTCCTATGTTTAATTAAAAATAGCCTGGTCCAGGATCTGCCTGCA
GCCAACAGATACCTCACAGTTGCTGGTGGTTAATGTCGCGAGCCTTCTGGTCTTTGCCACCTACAGATGCTGGGCCTGTGGGTTTCCTTTCTCT
GCTCTTGTTTCCTGCCACCTGCCACAGGGGGCTGCCCAGGCCACATGTCCATGGTCACTACCTATACCTTCCAGTTACCTGTTGCCAGGACTGG
CCAGGGCTGCTTGGTGGAGCACAGGAAGAGAGGGGATCGCCTGCAGAACCTGTCCTCTTGAAGAGCCTCAAGGAAGTGAGGCCTTTGCAGAAAC
TGCTTGTTCCAAAGCAAAGGGCACTCTCTGTTTCCTCTGGGTTGCTCTCTATTTCCTCCTGGTACCAGCTCTCTTTTTATACTGCTTTTATTGT
GAAATATAAAACAAACACATAAGAGTGCATAACTAAATAGGTACAACTTAATGAATGATTATCAAGCAAACACAACCCAGTCAAGAAATGAAAT
GCACCCAGCATTGCAGGAGACCACTCCGCCCTCACACACTCATACCCATCTGTACAGCTGGCCTCCTGGGAGGCACCACCTCCTGAACTCTTGT
GTTCATCACGCCCTTGCTTTTTTTTGTTATTTTTCATTTGTTTGTTTTTTAGTTTTACCACCTAGGTGTACATCACTAGATAAAACAGGTGGCT
TTTGTCTGTTTGGGGACTTTGTGTATATGGTAGCATGGAGTGAGTTTTATGTTTGTGAGACTCATCTGTGCTTTGTATAGCTACCATTTGCTCA
TTTTATTGCTTTAGAATACAGTATTGTGTGAATTCCTACAATTTACTTGCTCTGTGGTCACTTACGTTGTGTGCAGTTTTTGATAAGCACAGAT
GAAGCTGCTATAAGTAGCCTTGGGGTGCATAGTGCACACATTTCATACACCTAGGGGTGGAATTGCTCATTCACGAGGTCTGTGAATGAATAAG
TTCAGTTTCAGGAGACTGTTCCAAATTGTTTTCCAAAGTGGGTGAGCCCATTTATGCTCCCACAAGCAACGTAGGAGGGGCCTTGCTGCTCCCC
ACTCTCAGTAGCACTTAGAATGATCTTTCTAACTTCCACCAGTCTGAAGAGCGTGGAATGGTACTTCCCTGGGGTCTTCATTCATGTTTGCCAG
ATGCCTAATGAGGTTGATGGCATCATCTCTCAGGGAAACCTGTGCTTGTCTGTCTCAGTTTTTAACAAGAAAATGTCAATCAAGACATAGGGTA
AGATGGAGTACAGCAGATTGGACATGGATTCAGAAACCAGAGTTCAGATCCCATTTATTACTACTATCTTTTTTTCTGGAGAGATGGCGTCTCA
CTCTGTTGCCCAGGCTGGAGTGCCATGGTGCAGTCTTGGCTCACTGCAGCTTTCACCTCCTGGGCTCAAGTAATCCTCCTGCCTTGGCCTCCCA
AAGTGCTAGGATTACAGATGTGTGCCACTGCACCTGGTTCAGATCCCATGTATTATCTCCATGACCTTGAGGTCACAGACGTAAAAGATTAAAT
TATAGGAAATACTTTGGAGTGACATATTGTCACCATTCTTTCAAGGCCAACTTTTATAGGCATATGCATCCACTCTTACTGCTGTAGTATTTGG
ATAGCTCTCTATACCCTCAAACTATAAGCCACTGATATGTATAGAATAAACATAAATAGTCTCACTTTATAAGATACTTTCCCTATAAAACAGA
CTCAGTTCTCTCTTTATATGAAAAGATTACCATGTGGTTTTTTGTTGTGTTGTGTTGTGTTGTATTTAACAGTCACCAACTGCTGGCTGTAGTC
GGCCATGTGGCTGTGAAAAGGGAGCTCACACCTTGGGCGCTGGCAACTCGGTTGGTTTGGGAGGAAGAGGTTGTTCTCACAGTGGGGAGGTTTC
AGCACAGCCACCTGCTGAGGCCACAGAGAACCTAGATATGTGTCCTGTACCCTGGCCAGCTGCCCTGAGCTGTGGGGTGCTGTGCATGGCCAAG
CACCGCTAGAAAAGACACTTATTCTGAATTTCACTCCTCCCATGCCATCGTTCAGCTTTCAAGTCTTGGGTTAGCTTTTTGAGATAAGTCTCCA
TGGCAAGGGACAGGAAAGCATGGCCATGTCCAGTTCTGAAGGCCATCTCAACTCTCCCTGTGGTCGTGTATCTGACTTCTTGCAACCAGGAGGA
GGCATCAGAAATTTCCCCAGTACCCAGACGTCCCAAGGCAGTTGGGCACACTTGAACTCTGCCCCAAGTACAGTGCATTTGGGCACGTGGCTTA
ACAATTTTGGACCTCAGCTTCCTCATTTTAGAAAATGCAGGGGCCAAAGAGGCTTCCTGGGACTTCATGACTCACCCTCAGAACCTAAGATCTC
ATGAACCAAAGGGCTGCAGCTGTGGAGAGGGGAGAATGGGGCAGTGTGTGTGACTACGAAGCTAAACTGGGGGATTCGCACCCATTTCGTGCCT
TTTCAGCCTCCACTGGGACCTCGAACTCCCCAAGTCCCACAGGTCTTCCAGGGGATCTCTCACCTCCCCATGAGTCATAAGCCTTACGTGGCAT
GCACTGCAGTGGGGGTGTTGTTCCCTGCCTGGCATCAGACTCCTGTGTTTCTGTTCACCAGGACCCAGGGCAGGGGGTTGTTCTGAGGGTCGCC
CAGCATTACCATGAAGACAGAGCCTTGGCTGCTCAGCACGGCCAGCACAGCTCTGGTTTCACCTCTGTCTCTTCACCCCACAGTGGATGTCATT
TTCTTCTCCTGGGGGTGTTACCCGACAATATCATCATTTGAAACTGTTTGAAGTCCAGCCCTGCCTCCCTTTCCTGCATTGGGAGCTTGGAAGT
CCAGCCCTGCCTCCCTTTCCTGCAGTGGGAGAGTGGAAGTCCAGCCCTGCCTCCCTTTCCTGCAGTGGGAGCATGGGAGGGACTGAGGAAGGCC
CGGGGGATGGAGGCTTCCATAACCCTCCATCTCTGGTCCAGAAGATGGCTGGTTAAAATGCCCACCAAACACCCCCACCCACACTCCAAGCTAG
GTGGTAGAGCTGTCCATCTTGGATCTAACCCAAATGCAGGCCCTGGTGAAGAAAGGTGAGTCCACAGTGCTCCACAGATAATCAGGGCCCGTGG
TGCCCCTGTGCTCATCACCCTGAGAAGCGTCACTGCTACTGAGCACCAGGCTCTCCTGACCACTGCCCAGAGCTCCTGGGCCCTGCTAGAGCTT
AGCCATGGTCCATTCATCACCAACCTGCTAGCATTTCCTTGTTGCAAGCTTGCCCACTGGCATCATCCCTGAGTGGTAAACTGGGCCTTCCTGG
GTTGGGTAAAGCCCTTGACCCTGAGGCTCCAAACTCTGCCCTCCAGCTGCCTTGCCAGGTGACAGGCCCCAGAGAGCGGCTGCTGACCATTCAG
GCCAGGGTGCTTCCTCCCAGGGTCCCACCTGGAGACTGGCGGGCCTGGGGATGATGCAGTTCCATCCTCTCTTCTAGGATCCGAGCCAGAGACA
ACAACGGCTCCTACGCCCTGTGCCTGCTGCACGAAGGGAAGGTGCTGCACTATCGCATCGACAAAGACAAGACAGGGAAGCTCTCCATCCCCGA
GGGAAAGAAGTTCGACACGCTCTGGCAGGTACCCAGCCTCCTCTCCCCACCTTGTGGGTAGAGTACAGGGCACGTGGGGCTCCTTGTCCCATGG
ACTCTTAGACATGAGAGGAACTGGACCACCCACTGCCCACAGTGTGGTCCCCAGGCCAGCAGCAGCTCTGGAGCTCATGAGAAACACACACCTG
GACCACACCTGGGCTCCTGCCCCACCTGCCCATCAGACCCCACTTTCAGCCTCCAGGTGGCTTCTGTGTTTGAGAAGCACTGGTCCAGAGGCCG
TCATGTGAGGTGAACGAAGGTTCCATGGCTTGTTCAGGGCCACTCAGCCCTCAGTGCCACAAGGTGATGTAAGTGCAGGGCTGTGTTCAGAGTT
TAACAAGACACTCTCTTTGGAGATCTAGAAAATATTTCTTCCTAGGATATTCTAACTAGAGCCCAGAACAGCCTTTCAGACAAAGACACACAAA
ATAAAGGAATGGATGCCTGGGGAAGGAGGCCTAGGAACAGCCAAGCAGGACTTTGTTGGTGGTGTGAGAGGCTGAATTAGACAGCAAATGTCAG
GTGCCCTCCTCATTGTAAATCGAGTCTCTCTCTGTGGAAACTAAGGCAATTTAGGAAGCATACTCCCTGGGCTCCAGGCTGCTGCTTATGCTGA

TTGCCACAGCCCTGGTCTAAAAAGTGCTTATTCCTGACCCAGCTACTAGAAAACCCTGAAACAACTCCCAATTTGGAAGTTCCTTAGGCACTAA
TGAGCACTAAAATAATGCTCATCACTGCTTTCCCTGAATCGCAGTGAGCACAGATTGCTTGTCTTAATTTTGCATCACAGCTACACTGGCTGAT
GATGAAGGAAATAACCGTAACAGTACTTCGTGCATCATCTTCGCAGAGCATCCTATAAACTGTAGTAGGTTCAGAAACAGGGAGAAAGCCAACC
GACTCTGCCACCACCCCACCGCCCCAGAGCACCAGCTACCTTGAACATGTGTGGGTGAGGGGCATAATCAGGGCGTGTTCCAATGTCCTCACCC
AAGCCCAGCTGGGGCCACACATGCAGTCAATGTTGAGGAAAGGACTCAACTCAAAATCCTGTCTTTTCAAAAACTGAGACTACAGAGCCTTAGC
CCCTTTAAAGCACTTAAACTTACTACTTCCAAATGTGATTTGCTTTCTAGTGCTGTAATTGGAAAAAAAAAATACTCCTTTTTTGAATGCTGGA
TATGATCATATTAAAAAATGTTAGTCACAACATTTACATTGTCTTTTGATTTTGTGGCTCATTGCCATTTGTCATCATTAACCACAGGCTTCTT
TCTTTTAACGATATTGATTCGAAAGAGTATTTAACCTTTCTACACTCAAAGCCCCAAAGCACATCAGGGAGGTGAGTAGGGAATGTGGCCTTCT
GGAATGCAAAGGCACCTGGAGTCCTCTATGCCAGCTTAATGCTCCAAGGTCCCAGGCCCCATCACTTATAAACAGCCATTCATTCACCTTCTCC
TGAAAGGGCATTTTATGTGTGTGGCGTTCTGTCACCATTTCAAAGGCTGAGCACTCACCATAGTGTTAAGCATCTCTAATTATTGAGAATGTCC
TTCCCAAGAATCTTTACTATTTGTATTGATTCCCCTGGTAGATCATAGCATTCATCCCTAATTAAATATTCCTCATTGTATATTTTCTAGGCAC
TGTGTTTAGGAAACTACGTCAAAAATGCCAGCAATACGTTCCAATTTCCCATGCATGATTTCATTGATTTTTCTTGACAGCGTTCTAAGGTACT
TCTGTACCCTACCCAACTCCAGGGCCCCAGTGCTATTTCACGGAGAGTTGGTGATTGCCATAATACCCTATTTCAATATTCTTTACTGTAGACC
AGGGATCTGCAAACCCACAGACCAACTCTGGCTCTCAGCCTGTTTCTGTGTAGTCCCTGAAGAGAATGGTTTGTATGCTGTTAAAGGTGTTGTT
TTGGATAAATAAATAAATAAACAAAGGACACAGATACGGTATGAGGCCCACAAAAGCCTAAAATACCACTTTCTGGCCCTTTACAGAAAAATT
TGCTGCCCCTAGCCCAAGAGGGGGGATCCCTAGCTGTGGGCCCACTTCCCCAGCCACCCTTGTGGAGTGGACTTAAGCACATAAAAGCATTTAT
GTGTCTTGGGGCCACTTCGAAAGCCCAACAGTCAGTCAGTAGCTCTCAGTCACTATTTGTCTATTTCCTGACCTTGGTATTTACCACTTTCTTA
CTTTTTTCTCTTTCAGCTAGTCGAGCATTATTCTTATAAAGCAGATGGTTTGTTAAGAGTTCTTACTGTCCCATGTCAAAAAATCGGCACACAG
GGTGAGTTCCCAAGACACTGGAGTCTCAGTGTTTGAGGTATCAGTGACAATCAGCCTCATTTTAGACTTAGCTGATTGCAGATTTGGGTTGGAT
GAGGACTTCTTTTTACGGGTTGATTAATAATGATATCAGAGCACTCCGATTTTGTATATCGTGAATCAAAAAATAGCCAGTTGCTTTAACTTTA
AAAAAATTGTAATTTATTTGTCTTCATTGCATGCGGGAAAAAGTAAAAGAGGGTCGAAAGAAGTACCTGCAGAAAGCGTGCTCACTTCTCAAGC
AGCAGCACATCCTGATCTCATTGATTGATCTGCAGTGGGGAGGGGAAGGAAGTGGTTTCCTCAGATAGAGCAGTAATTGTCCATGCTCTCTCTA
ACCAGGAAATGTTAATTTTGGAGGCCGTCCACAACTTCCAGGTTCCCATCCTGCGGTAAGTGTCACTAGGAATACCACTGAATGAGAAGCTGTT
GCATATTTCACAAATGAAAAGCATGTTTTAGCTAACAGGAGTAGTAGGCATTGATATTTTGATTGCGCTTCAAAACATACTCCGTGATGAGCTG
GGATTGCTAGTGAGTGTTAGGCAGAATCAGCCTCCTATTAGTGATAAACTAACCACATTTTCTTTTCTTTTTTTCTTTTGCTTTTTTTTTTGG
AGATGGAGTGTCTCACTCTGTCACCCTGACTGGAGTGCACTGGTGCAATCACGGCTCACTGCAACCTCTGCCTCCCAGCTTCAAGCCATTCTCA
TGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGTGCCTGCCATCACACCCGGCTAATTTTTGTATTTTTTAGTAGAGACGAGGTTTTGCCATTT
TGGTCAGGCTGGTCTCAAATTCCTGGCCTCAAGTTATCCTCCTGCTTCGACCTCCCAAAGTGCTTGGATTACAGGCATGAGCCACCACACCTG
CCTAGCCACATTTTCTTAACTTCTTGTCTAGATGAAATTCTCTTCATTTTTGGAGAATATACACAATGCGAATGAAACCCAATATTAAATCAGA
AGTAGGCCTCTTGCAATATTTGAGAAATGGGAACATATTTTTTAGCTTCATCCTTGAGCCGTCTATGTTAACACACGTAATTCACAGGACCTCA
GCTGTCTCCTCCCTCCAGCCTGTTAGGAGGTCAGGTACAGATTTATGCTCTAAGCAGGAATTATTTTCCTGCTCTTTTCTTGGGGCTACATATG
GCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACGGAGTCTCGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCGCGATCTCAGCTCACTGCAA
GCTCCGCCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCGCGAGTAGCTGGGACTACAGGCGCCCGCCACAACGCCCGGCTAATTTTTTTA
TATTTTTAGTAGAGATGGGGTTTCACCCCGTTAGCCAGGATGGTCTCGATCTCCTAACCTCGTGATCTGCCCGCCTCGGCCTCCCAAAGTGCTG
GGATTACAGGCGTGAGCCACCGTGCCCGGCCCATATGGACTTTTTATGCCTCTAAGCAGGAATTATTTTCCTGCTCTTTTCTTGGGGCTACATATG
GCCTGGTAACCCTTGAAAAACAAAATCTGCAGAAAGCCAAATATACATCCTGCCTCCAGTAGGGACAATTGGCTGCCCAGTAGCTGAGCCCAGG
TTGAAACAGGGGAGGCTGTCCAGGGGCAGCACTTGTTATCAAATGCAGGGAACGTGAATTTGCTAAAATACCAGTGACCTTTGGGATCAAAATG
TAATGCCTTTATGGAAGTGTGACTTTATTTGCCCTTTACAGGGCTCACAGGCCTGGCAACTCTATCTTAATATTATAGGCTCGGTGAGACAGA
TCCATACACCCTTCAGATGGATGAGGGCTTAGGGCTGAGAACTCTTAAAAGAATGTCAAGCCCTGTGCTTAGCCATCATCACCCAATGACTACA
AGAAGTTAGATATTTTGGAATAACTTTTTAATTGACTGGTAAGATACATACGGGAAAAAAAAGGCATACGCCCTATGTGTACAACTCAATTAAT
TTCCACAAAATTTTCCACCGTGGAACCAGCACCCACCATGAAGAAGCAACACAACTGAGCACTCAGATCTACTTGTAGTTTCTTTCGGTGGTTT
GTCTTGAGCTTACAACTTAATAATTCCACGTGAAGCATGAGCTAGTGAATGTAACAGCTCTAATTTTGTAGCCTTCAGTGGAACATATTTCCCA
AATATATTTCTAGATCCTTCTTCCCAAGTGGCAGGCCCTTCCAGAAGCCTTCCCAATGATCAGGTGTTGCCCGTGGTCGATCTCATTGGCAGGG
ACAGGAGGGGGTTAGTGGTGCGATTATAGAAGCAAATTTAAGTAGCATGTCATGGAAGGGATCCTGTATTTGTTTTCTGAAACATTTACTGTTC
CTCTTTGCCGTTGTGGTTTCTAGACTTGGTCAGCGGGTGGAATAATCTCAAGAATCAAATCATACTCCTTCCCAAAGCCTGGCCACAGAAAGGT
GCTAAAGCAACCCCTGCTTGCTGTCCAACTAAGTGGTAGGACCAACGCGCACTCAGCTCCCGCCCGCCCAGTCTGCCCTGTGTGTGCGCTGCCC
CCCATCTCTTGCCACTCTGCTTCCAGGCCTCTTTGCCCTTGCTCACACCTGCTGTTCCTGGGCAGCCGCGCCCCAGGTACATCATGTGCTTTTC
ATGTGGGTCCTCAGTCCGTCAGCTGGAAGTCCAACAGTGTGAGCATGCTTTCTGTGCTCAAGCGTCATTTTAAAGTCGTTTCAGTTGGCGTCAT
CCGTCATAGCTAATTATCATGTCGGAAAATCTTTTCAAAGATGGCCCACTTACTTTTTGGTGGCCAGACTCACGTGTTGCAGTGTTCTGGTAAT
TGATTATGTAAGTTACGTTGTGATGGAGGGAACACCAAGGTTTTGTGAGGCGCGCTGCACAGTGAGGTCAGGCAGTGCATGGTAACTTCATTAT
GGCTTAGACGTCTAACATAGAACTGCAAATGTGACATGTAAAGAAGAGGTGTAATCTGAGGTCTAGAAAAACCAGTTTTCTTTTTGAGGCAGTA
ATGTTGACATCTCATTGATTTCCATGTTTTGTTCTATTATTGGATTTTGAGGGAAAATAAAAATAAGTTCTTTTTCATGACTTTTATTTATAAT
GACTTATTTATTCCTTCCCCCAAAATATGTATATATAATGTGTTTGAATTGCTTTTTTTCCATTCTACTTTTATTATCAGTGGGGTAAAATTGG
TTCTTTTATCAGTAATTCTTTTTATTTTCATATTACTTGGTGTTTTTACCGACATTTTAGCATATAATTGAGCATCCACTCATGAAATAGATTG
CCTAAAGTATTTACTAGAAACAACAGAAATAAAAGACATAAAACCCTTGAGATTTTATTTAGTAATAATTTTCCAAGTTTACTCATACTCAAGA
AGTTCTCAATCGTGTTGACCATAGAACAGAAAGATTTAATGCAGTGTTCGAGAGGAAGAAAAGGTTTATTTTACACTTGAATAAAGTAACTATG
TCTGTTTTTCATGTTTACCCAAGGCAAAACACCCCCACAGATTACTCACAGTGGCTAAAGAAATACCTAGAAAATAAGTTTTGGTGCATCTTTA
GACTACAGGAGAACATGTCAGAAAAAAGTTGAAGAAAATATCAGTGACCACCTAAAAATAAAGAAGTATATGTGTAGATAACAACCATAACATC
ATCAAAAGAGAAATGAGAAACTGGGAGTAAGTAGCACTAATGCTGACACATAGATTAATAGCTTTAGTATACAAAGAGATTCTAAAAATAATTA
ACAAAAATATTAACTGTCTACTAGGATAATTGGCAGGGAATATCAGTAGTAGTTTATAGTAAAGCAAATATAAATAGTTCTTAAACATATGAAA
TGTTGTTTAACTTCATGAGAAGAGAAATGCAAGTTAAAACTATGGTGCTTAACTGTGTCCACCTATGATCCAAATTTTAAAAGCTTGATAACAC
TGTAGTAAAGGCATGGTAGATAAGCACTTTCACTCTTCCTTGGGGAAGTCTGAAATGATGCAATCTGTAAGAAAGGCTCTGCAATTTTATTTCT
AAGTATGTACAGATATTCTTGCATTTGTGTGAAATCATGTACATGTGAAGGTGTTTTTTCCAAAATTGTATAATTGACAAAGTCTGATAATAAT
TTAAATGCCTATCAATGGAAAACAAATGAAATTGGTTACAGTAAAATTGCTACTATGGGAGGCAGCTGAGATCTAGAATTGTTTTCAAAATATA
ATTTTAAGTGTAAAAGTCAATGTCCTGCAACACACACATACACATACATATATGCAGAATGTGTTGATATCGTATACAGTATCCTAGAAAAATA
CAGAAAATGCTGGCAATGCTGGTTGCCTCTGGAGTAAGAGATGGGAATGTTAAGAAATCCCACTTTTCATTGTAAACTCTGTTGTATCTTTTTA
AATTTGAACCTGTTAAGAAATTTTAATCAATTTTTTTAAAACAGAAAATTAAATAGTAGAGAGTAATTAATCTGATTAATATTGTGAAAATACC
TTTCTGGCAAAAAAAAAAGTTTGCTTTCTATTTAAGTTTAGAAGAACTTTAAAGTATACATTGAATTTTTTATAGAAATAAGAAACTGGAAATA
AATATTACTAATGATGACACATATATAAGGCCAAAAATATCAACAGATAATTTTTAAAAGATCAAGGTTGTAAGGTTTAAGCTATAGATTAAAA
ATATTTTAATTGCTTATCAGAAATATTTTAGAGCTAATATGTATATTTTCACAAACAAATGGGGAACTTTCCATTATGTAATCAGTCATGAGAA
AAGAATTGTGAGAATTATGTCAAATGTCCCATCATGTTAGCTAAGAGATAAATAACTTTCTTGAACTTGTTAATTTGCTCAGTGTACATAGTTG
TTTTAATAATTCAGGCACAAAAAATACATGTTAGAACTTGAACTACCTATAGCATCTAGATAGTTAATGAAAAGTATGTTTAGATTTGAAGATG
ATTATGAATCAGATAATTTAAATTTTTCATAAAATTACTAACAGGCTGATGCATTTTAAACTTGTCTTTAGAAATTAGTAGCTTACTGCCAAGC

ACAGTGGCTCATGCCTATAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCACTTGAGGTCAGGAGTTCAAGACTAGCCTGGCCAATATGG
TGAAAACTCATCTCTATTAAAAATACAAAAATTAGCCAGGCGTGGTGGCACACGCCTATAATCCCAGCTACTCAGGAGGCTGAAGCAGGAAAAT
CACTTAAGCCTGGGAGGTGGAGATTGCAGAGATCGTGCCATTGCCCTCCAGCCTGGGAGACAGAGCAAGACTCTGTCTCAAAAACAAAAAAAGA
AAAGAAAAGAAAAGAAATTAGTAACATACTTATAAAGTATAAACAAAATTAACTTAAGAATACAACTAGTAGTCTTTAAATGAATTAAACCCCT
CCCAATATTAGTCCTGGAATTTCTTTCTCTGCTGCTTTAAGCACAGAACCTTATCCTTCTTTTATGGAAAATAGGTGGAAATTAAACAGCAACA
TCTCTAAAAAGACTTCCAGGGAACTTTTCAGCTTTGCATTTCAAAGGCACATCCCCTAAGAGGATTAAACTGAAATGTGTCCCAGAATTTCCAA
TTAAAACCCATTTTTCATGTTTTATTCCAACACATACATTGGTGATTATAATATTTTAAAACTTACATTTAAGTACAGGGCTCAGTGGGAAGAG
AAAAAAGAAAGAAACATCCTCAAGTTGTACCCTGTTGCTTGGTAATGCCTTAGTAGACCAGACCCTTGAGAAAATGTGTTTTCATATAATTATA
AAGGAACAGATTTTAGATCTTCACTGTAAGAGAACAGTAATTGCAGAGGTCAAGTGTTATTTTCATGGATCTCAGAGCAAAGCTAATAGTAGCC
TATTCCCCAGCCAACAGTCTGCCCTCGCCTGTGGGGGTCTACTGAACCAGGGTAATTCCACCAAAAAAGGAAACCAAACCTAGTTTATTGCAG
CCAATATTTCTAAAGCCAGCTGGCTCTTTTGTCACTATTATTGTGATGACTAATGACTGTATTGTCATCTGCATTACTGCTGTTGCCTAATTTG
AAAATGGCCCAAGAATCTGGGAGTAAAAATTAAGATCTAGTAAATGGATGTTAGGACACTTGGCAATACTCTGGAATCAGGAAACTCTGAATGG
ACCTATCAGTTCCACAGACCAATAATTTTTTCCTCTTTTGTTCACTTTTGGATCACCAGCTTTTAAACATAGGCACTCAAAGAATGCTTGTCAA
ATACATTTTCTATTCGCAGTTAAACCTTACCAATAGGAAATCAGGGATAATAATTTATAACTGGACTTATTATTGCAGAGTGATATCCTTACCT
GAATTTATAAAATTTAAAGAAAAGTCACCAGTTGTTCTTTTGGAAGGTAGAAAGCGAAGGTGGCTAATGCCATCTAGCGGTGGACTGAAGGTTT
GAGCCTGTTCTGAGTATTAGCAAAAATGAAGAAAGTGGAATGGTCAACATTTCATTTACACCTTGTTGCTCACTGTGCAGAACAGATGACACTT
ATTGATTGGGACAGAATGGCTCTCTCAAATGCAAACATAAAGAATAAAAGGTTAATAGTAATGTAGACCGGAAATATATTTTTTATTAAAATTA
AATGTCATTACATTTTTTAAGAATAGTATTTTTACAATTTATCATTATGCCACTGTGCTCATTCTTTACAAACTCCTCAAATTTTTCTTTTTAA
CTGAGCATTTTCTTTTAGAGATTGTTTTGGTTATTGTTCTACTAAGTGGCATATTCACCAAGTGCTTTGGGAAAGATGAAGCATGGATTTTGCA
TCTTCATCTTTATCATAAAGTAACTACTGTTCTTTTAACTGACTCAATAGGAAACCTCCCATTTCTTCCACATTCTTCCAGTTGTGGCATCATT
CTTTGCTCCAGTCCTGTTAGTCACCAGAAAGAGATAGGGGCAGGGAGCCCAGGGATCTGGGTAGGAGAGAGTTGATGTGGGGTTGTTGAGAGAC
ATGAGGGTTCTTTGTGGCTTGGCTTAAAAGGCTTATAATCACATAGTGGTCTGTGTTGGGCAGCATGGAAATGAAGCCCCAAGCTTTATTGGCT
ATAAACGTGGAGTTCTAATTTCCGAGGAAGATCTCCCATCTGTTTCCCTATCCATAAGCCAAGATAGACTAGGGGTGAACAACACACTGCTAGT
GAGAGTATAAATTATTTGTGCCCAGGGGTTTAGATTCTCTGTGTCCATCGCTACTAATTCTTACTCATTCCTGACACCCTAGTATCCCTTTCAG
CATATTTTGACAACCCCATCTCTGTTTTAAAATTCTTCCCTGCAGGATTCATATGTCAGGGAATTGCGTTCTGGTTTAATTGGAACAAGCCATT
TGGAAGTCCTCCTGGTCTGGAGAACATTCTGTGAGGTAGAGAGGCTGCAACCCCAGGATAATGTCCTCAGTGGGAGGGACAGGAGGTCTTATGT
CAAGAAGAGGTGATGGTCCCTCTCCTCACCAGTGATGGCTAGTCCGAGGACATCCTTTAATTCCACATCTGTTCAAGTTTTGTCTTTGGATCTC
AGAATGTGCCTGCCTGCAGGGAAAATCAAAGGAGTTGAAATGACAGTAAATATTAACCTTGAAAGAGACTTTAAAAAAAATAAAACTATTTTCA
GCCTAGAATTGGTTGCGGGAGAAAACTGGGCAAAAGAGGAGGACAGAAAGCCTAGGGGATCACCCAGTTTCTGTCAGGACAGTTTTCCAGAGGC
AGGATAATTATATTATAAATCAGAAGTGAAACCACAGCACAGTCCTGTAATCATATGTAAATGTTTAAAAGAAATAGATTGTCATTTGGAATTA
TTCATTCTTATTTCTCTTCATCAGCATAAAGGCTTGAGAGAGAGCTAATTTTTAAAGCACATTAGATTATACTTCACATCTCCTAGTTTTTAGA
AGTGATTTTCATTCATTCACCCATCCATTCATTCATGTGTTTGTTCAACACATTTTTATTGAGCGTCCTTGTGGACGTGGCACAGTTCCGAGTG
CAGTGAATAAATGTCTCCCCCTCCTTGAGCTTATATTCTATTTTTATTTTTGATGTGTCATAGTTACTTCTGTTAATCAGTTCAGTAGAAGTGC
TGAGATACTCTGTGACAAAACAGATCCCATCGACATCATTTTTACAAATAAGACCAGATGTCCTTTAGCCTTGTCAACAGGCTTGGGCCATGGT
GAACAATGTCTGCCTCTGAAGTGCTCAGCAGACCGTGTGAAAGAAGAAGGTCCGGGTGTTTGGAAAGAAGTAGGTAGGAGCAGCTGATGAGTACTAATTTTCC
TGTGACCTCATTATTCTGCTTTTGGTTTCTCGCCTTGTAATATGAATAAGGCACATGAGGATTTAGTGTGTGTCATAAGATAAGTGACTGTCAC
GTTAAGCTTAATGTCTCTGTTTCTGTAACTTTCTCCATAATCTGGCAGTATCTCATTTCTTCGTGGCCAGTGTTTGGGCACTGAAAAGGTCAAT
CAATACATAGAATTGTGACTCAACTCACGCTGAAAAAAAAAAAAAAAGCATCTGAATCATGGTTCTCCTGTGAATTAAATTTAGTAGCAAGAATC
TTGTTTTAATTTGGAAGAAAGGGTGGGTCAGGAAAACTCAAGATAGAGACTTTCAAAAGGGAAAGTCCTTAGGATAATGAGTAGATTTCCCCCC
CCAGTTGTTTCATGATATAAACTGATGTGGACCAAATAAATACCTGTCTCACAGGGGTACTGATTTCCAGCATTAGCTGTGGCAGCTGGAGCAT
TGCTGGCCTAGGTGGCAGCAACTGGCCTTCCCTTGGGACCTGTAGTTACTGACCAGTGCCACCCTCTGCCATCCACCCCAATGCTGCTGCATCT
CCACCGAAGATAAAGACTTGGGTGGAGACTTGGAAAACATATGTGCGTTGGAGTTGGGAAGTAGGTAGGAGCAGCTGATGAGTACTAATTTTCC
TCTTTAAATAATGTCCATGTAATATGAAATTGAAGAGCACAAGTTAAAGAAGGAAAATGCTTCCAAGGCGAACATGCAAATCATCAGCGATCTT
TGGTAGGTGGGAATAGGATGTGCAAGGGGGTGAGTGGGGAAGCAGCTCTATCCAGGCCAGTAGAGTTGACTCTCACCACACCCTCTGAACACCT
CACAGAGTCCCTTGAGTTGTAGCAGCACAAGCTTGCTTTAGCCCTTGCAAGATCCAAATAATTGCCCGAAGAATGAGATCAGCCTTATTTTCTT
CCCTGTTTTTCGTAATTCTTTCCTTTGTCTTTCCTGCAAAAGTTAAACTGTGATTATTGGAAAATAAAAATAATTATGCAGATCAACTTAACAG
TTTTGTGGATGAAGAAAAACAACCTGTTGTCCTTTATGTACTTTAGTCCTCCCCTGCCCAAGGGAACCGGCAAGAGAGTACTGTGTCATTCAAT
CCGTATGAGCCAGAACTTGCACCCTGGGCTGCAGACAAAGGTGAGACTTCCTTTCATTCAAGGGACATTCACAGAGCAAAGTGCGTGGTCACTT
GTAAGTTTGTAGAGTTGGTTCACGAATCCACACCACGTCCGTGATTGCAATACAGCCACAGTTAGCCATGGAAACACTCACATCTAGTGGCAGG
CAGCAGGCACCACATGCCCATGAGCAGTGATGGTGCTATTGAATGAAATGGTCTTTCCCACCTCCCTCACCCAACGACGTTGGAAATGTCCCTG
CCACTCTTCAGAATTTCTCATCCCTTGCAACATTGATGCTACTCTGAGTTCATATTCCCATGAAGATCATGTTCTTGGAAGGATGAATCCTGGT
GTGGGGTCCAGCCCCAGGTCGTATGTTTCTTGACTGCATTGCAGGCCCCCAGAGAGAAGCCCTACCCATGGACACAGAGGTGTACGAGAGCCCC
TACGCGGACCCCGAGGAGATCAGGCCCAAGGAGGTTTACCTGGACCGAAAGCTGCTGACGCTGGAAGACAAAGAACTGGGCTCTGGTAATTTTG
GAACTGTGAAAAAGGGCTACTACCAAATGAAAAAGTAAGTTGCTATGTTCCACCAGCCTCACCCTCACATGAGCTCAGGTTCTAGACATGACTG
AGAATAACAAAATGTAACCTGGCATGACTAAACCCTTTTTTTATTAATGCTACCATTCTTGTTAATTTCTGGTACTATTATAATGAAAGCGTCC
ATTACCTTTAATGGCAAAAACTGCAATTACTTTTGCACCAACCTAATAGTACATGCACCTTATGGAAAATAGGAAATAGAAACAAGCAGAAAC
ATAAGAAAATAAAAACATCAAATTGGCATGGTGGCTCATGCCTGTAATCTTAGCAATTTGGGAGGCTGGGATAGGAGGATTGTTTGAGGCCTGG
AGCTTGAGACCAGCCTGGGCAACATAGCAAGACCCTGTCTCTACAAAAAAAATAAATAAATAAATAAATAAATAAATAAAACATAAAAAATTAGCCAG
ACATAGTAGTGCACACATATACTTCCAGCTGCTCAAGAGGCCAAGAAGCCAAGGCTGCAGTGAGCCATGATTGCACCACTGCACTCTAGCCTGG
GTAACAAAGCAAGGCCCTGTTTCAAAAAACAAAACAAAAAAAAGAAAAGAAGAACATCATATTTGTATAATACCATCCCAACACTACTACTGTT
AACTAAACATTACTACTGTTAACTTAATCTTATTGTATATATTTTTAGATCTTTATTTGTACACACAGATATTATTTAATTAAAACAAAATCAT
TCCATTATAACAATAGTTTTTACATTTATTTTCTTTAATTTTATAGTTACATCTCATTTTTCTTACATGAAAATTATTGATTCCAAATATGATT
AGTATAATTATTTATTGGCTTTATCCTATGATTTCAGATAACAATACATATTATACAACAGTTAAAATTGCTAAATTTCGAAAATATCTTTGTA
TTTCTTTTGGTCTTTAGAAGGTACCCAACATAGAATGTACAAGTAAAACTACTGGTTTCTAAAGTCCTTTGAAATACACCCTCTGTTTGAATTG
GTATGATACTAATATGAATGTGGTTAGATTTAGTAGCTTCATGGTATTTCAAATGTAAGGGATTTTTGTAAAAAAAAAAATTCGTGAGTAGGTAA
TTTTTATGATTCAAGGGTTAAAAATATAGACAAAAATATACACAGACATGCGTGCTTTCCGGCCGGGTGCCGTGGCTCATGCCTATAATCCCAG
CACTTTGGGAGGCCAAGGTAGGTGGATCACCTGAGGTCTGGAGTTCAAGACCATCCTGGCCAACATGGTAAAACCTCGTCTCCACTAAAAATAC
AAAAAATTAGCTGGGTGTGGTGGCATACACCTGTAGTCCCAACTACTTAGGAGGCTGAGGCAGGAGAATCACTTGAACCTGGGAGGAAGAGGTT
GCAGCCAGCCAAGATCACACCATTGCACTCCAGCCTGGGCAACAAGAGTGAAACTCTGCCTCAAAAAAAAAAAAAAAAAAAGAAAGAAAGAAAA
AAGAAATGCTTGCTTTCCAATCTGTCCCTTCGATTTGTTTTTGTGCATGTGTGTGTGTAAATTAGATACACATACATGTATGTATACACACA
CAAACATACACACATATGTATACATTCACAAGTATATACATGCGCACATATATACACACACAATCAAAATTGGCTGTGATACTTATTTTAAAAT
ATATGTTTGTATATCACAGTCATTTTGTACAATGAGTAAAAATGTTTCTGTATTAATCCTAAGCTTTTTCAGATTATGAAAGGTTGTGATCTTT
ATTCTGTGCTTAAATTTGTGAATTAACATAGACATGACTGTGGACATAATTTCAACTAGAGAATTTGGGGAGAGGAGAGGCTCTCTCGGTCAAT

TTGGGGCAAAATGATGTCTTTACAATACTGAGTCTTTCAATCTATAAACACAGCCCATCTCTCCATTTACCAGGTCTTCTTCAGCCTCTCTCAG
GAGAGTTGTTTACCTTTTCAATGTATTACATTGAAATATATGCTTTTAAATTCTGCACCTAGAAATTCACTTTCAACAATTATGAAAGGCATTT
TATATTCACATTCATTACATGTAATCTGAGATGGTGAATCCCAAGATGTTACAGGAATTCGTACATGTCATCGTTGGTGAAGTTTATTTACAAG
TTATTTAAATATTTTACAGTTTAGGGTTTTTTGCTTGGTTGGGACATTCTTCAGTACTGTTCTTCACCATTCTTTTTTATTTTATATTATTTTTTA
GAAACAGTGTTTCACTGTGTCACCCAGGCTGGAGTGAAGTGGCAAGAAGCTCACTGCAGCCTTGAACTCCTGAGTCCAAGTGATTCTCCCACCT
CAGCCTCCCGAGCAGCTGGGACTACAGGCTTGCACTGTCACGCCTGGGTGATTTTTTTTAGAGATGGGGGTCTCACTATGTTGCCCAGGCTGAC
CTTGAACTTCTGACCTCAAGCAATCCTCCCCTTTCAACCTCCCAAAGTATGGGGATTGTCAGCATGAGCCACCATGCCCAGCCCCCACCATTCT
TTTTTAGTAATGGAGTATTACTCTCATTGTCTATAAAATAAGGGAATATAGGTTGGAAGGCCAGCCATCCATTACAGGCTTCTGAAGACACATT
GCCACTCTGTGGCAGGTATTTCCGTGGGACTGTTTCCACAGGGGGATTATGCTTCACAGGATAAGATTATCTAGAAGTGAGGCATTTTGGAAAG
TTTCTTGTGTGTTATGATTTCTCTTGCAGAGTTGTGAAAACCGTGGCTGTGAAAATACTGAAAAACGAGGCCAATGACCCCGCTCTTAAAGATG
AGTTATTAGCAGAAGCAAATGTCATGCAGCAGCTGGACAACCCGTACATCGTGCGGATGATCGGGATATGCGAGGCCGAGTCCTGGATGCTGGT
TATGGAGATGGCAGAACTTGGTCCCCTCAATAAGTATTTGCAGCAGAACAGGTATTGTCAGGTGCCCCCACACATCTGGAAGCTATCCCCTAAG
GGACAGGGCCCACCCCTGGATGGGCCGAGCAGCCTGATTTCCTTGGGAAGCCTTCCCACCCTCCTGTGCCTTCCTTTATTGGTCCATACTCAGG
GACCTTGACAGAGGGACAGGGAGACATAGTCTTTGGATTCAGCTCTGTTAGCTCTAGTTGTTCAGAGAAGAACTCATTTGACAGTTTTGTCTTT
TTTTTCTTCCTGTAGTCATTCAGTCTTGGCCTAGTGATAGACTCAGCCTCAGAATATCTTGACATGGAATCTCCTTTCTCACTGGGAAGAACAC
TTTCTTTTTAAAGAAACATTTTAAATAAATGCTTTTCTAAGAGGTGACAGTTAAGTCTTATCTGTTTGGCTGACCTTATGTTCTCATGAGTGAT
GACTTCTGAAAATACCAATCACTGCTAATTGATTACATCCATCAAGGGAGTAATTGTGTTCTTCTCATCTAAAGCTGTTGTTGAGATGAAGAAA
CTCACTTGGAGTAAGACAGAATGATGGCCACCGAGGAGCTTGCCTCATTTGCTGTGCTACGTTTGTACTTAGATTGTCTCTTTAGTCTCCATGG
AAGGGAGGTGTTCTTACCCTGACTTTGTAGGTGAGAAACTGATTCTCAGGGTTAGTTCTGTGACCTGTGTGATACTGGAACAAGGATTTGAGGT
GGTGCCTGGCTATCTGTGAGCCAGGCCTGACTACTCTGTTATACTGCTTTTCTTGCAATTCCAAGCATGCCAGGAAACTCAATCCCATTGAACA
CCAGGAGAATATGGCATTGAGTCCTGAAGAGCTATATGCTAACAAAGTTATTTGTCACCACTCGTGAGTTTTGTTGTTTAAGAAGAGGGAAGGA
GTAGATTCACCCACTGCCTGCGTGAGGAGCATGGTTGTTTGTTGTGAAATGGGTCACTGTCTGTTATAGCTGATGAGATCATTATGACTTTCAG
ACATGTCAAGGATAAGAACATCATAGAACTGGTTCATCAGGTTTCCATGGGCATGAAGTACTTGGAGGAGAGCAATTTTGTGCACAGAGATCTG
GCTGCAAGAAATGTGTTGCTAGTTACCCAACATTACGCCAAGATCAGTGATTTCGGACTTTCCAAAGCACTGCGTGCTGATGAAAACTACTACA
AGGTAAGTACAACTTAGCTAATATTCAGAGCAGCAGGTGGTAAAAAATGCAAGATAAATGTACGTTTTCTTTATTTTATTATTGGTATGGTTTC
AAAAAGCAGTTTTGCTACTGAAAAATAACTATGTAAGATATGTTCTTATAATCTTTGATTTTACTGTTTAAAAAATAAAAATAATATCACACCT
TGAGATTTACTCAAAGTAGTATATTCTAAATTATGTTTCATGGAATGATCAGGAATCGAGGTATTAAGTGAAGATTTGTTTTGAAAAAGAAGA
ATGGGATTCCTTCATTAAGTTAATTTGAAAAGTTTGCATTGGACAGCTTGATTCTTGCAGGATTTCCCCGAAGCCCTTTTCATGCTACTTAACA
TTACGAATCTCAGTAGAGGGTTTACTGCACTGCATTTCTCAAACCAGATTCATCCATGGCATCCTTTTCTGATAGGACATTTCATAACATGTGG
TGGAACACTGTCCCACAGCATGGAGCTATTGGAGCTTGGAGCTCCAGTACTGCAGTTCAGAGCTCCAATATTGCAGCTTGGAGCTATTCCAAAA
TAACTTTCTAATGAACACCTACCTATACATGCAAAAGTTAGAAAGTGAAGATTTACCAAATAAACTCGTCATCTGTGTATGTCCACTACATATG
TAGAAATTGTTCTATTGGCTTAACTGGTATCCAGAAGAGTTGAAGTGTCAAAAAATAGATGCAGTGCTGGAAAGAAGAGATCTAGATAGTTATG
TGACTGAAGCTAAAAGAAATATGCCCCTTGGTTTGGTGAGGCAGAGATTATCAAGAATTAAGGGTGGACTTCCAGCAAAACATAAAGTAGAAAC
TAGTTCTGGGTGCAGGTTTGGACTTCCTAAAAAATAATTTCACAGTGACCAATCCCCTTGCTAATATAACTTGACCCCTCTCTGAACCCTCAAA
TGAACCAATAACAACTAAAAGAAGAAAAGATAAGAAAGCTCTATCTTCATATTAACTCATCTGTGGTGTATACCTAGGGTCTATGTTAACCAAC
TGGAAAACGTGATGGCACCAATCCCACTGAGTCAAAGAGGGTGCCGAAGGCAGGTTAACAACCCTGCTAGTCTCTGGTGAAGTCCACATGCTCA
GAAATAGATGGCAGACCTTCAAAATCTACCTAGTGGGTGGCAGATAGGATCCTGTGTTTCATGCCCTGCAGTGGTCAGAGACCCCACCCTGAGT
GACAATACCCACCCACTCACCTTTCCCTAAGAGGCAGTCCATGGACTGGTAGGTGATGGGGAATGGTGGACCTCGGCCAGCAAAGGGACTGCAT
GAAGGGTAAGCCACAAGAGCCAAGCTCCCAGGCAGGCAGGCAGACTCCACCATCTTGAGCACAAAGGCCAGGCGAGAGTACAGCAGGGGTCAGG
CTGGCCCTCCTCACCCCATTCTTCATACAGTAGCTTCCCAGAAGGAAGCCCCTTCAGAGGTGAACCACTGTGAGAAAGGCATCAGCATGGGCCT
GGATAGAAATAGCAGGGAAACAGAGCAAGGAAGACAGCAGCCTAGGATGACCAGCATGGGACATGCTGGAGAAAGAAGCCTGTTGTAATGCTGG
ATGTACCTCATCATGATCATTACAGAAAAGAAGACAGCCTGTCTGAAACAAGGACACAGAGGAGATAGAGAAAATGAAACATGAATGCTGGGCA
CCTTATCCACTGCTGTATAACAAATCACCCCAAACTTACTGCCAAAAACACCACCAGGTGTTGGTTTCCCTGCCGTCCTGCTGTGTGGGCAGGG
CCAGGTAGGCAGGGTTCAGTGCGTCTGCTCACACAGGGGATTGCACAGTGGCCCGAGGGACAGGAGGACCGTTTCCACTCTGCTCACTCACACT
ACTCAGCCACTGAGCAGCTGGTTAGACACAGCCCATGCTGGAGACCTCTGCGGGGCTGTCAGCCAGCTCACCTGCACATGGCCTCTCCTTGGGG
CCCTTGGGCTTCCCTTGGGCCCATGCTTCCCTTGGGCAGCATGGCAGCTGCGGGCTGAGAGCAGTTACCCAAGAGGCAGGAAGTGGGGGCTGCC
AGGCCTATAAAACCAGGCCCAGAAACTACCTCAGGGTCACTTCCACCTGATCCTATTGGTCAGAGCAGCCAAGGCCACCAGCTTCAAAGGATGG
GATAGATAGAACCACCCTTTTGAGGAGAAGTGTCAAAGAGTCAAAGAACATGGGGCCAATTCTAAAACTGCTGTAGATATTAAACAGCATACCA
TTAAAAAGTAAACTAAACTAAAAAGTAAACCAAAGATTGTCTTTGGACAATCAATGAAGAAAAAAAGCCACTAGGGAAATAAAAGCCATCTTGG
AAGCAGCAAAAAGAGACAAAACTACCGAAAAGATAGGGTAGTGGAAGATTTCTGTATGAAAACAAAGCAAAGTGAAATGGAAAAGAATAAAAAG
TGGGCCGGGCGTGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGTGGATTACCTGAGGTCAGGAGTTCGAGACCAGCCTG
GCCAACATGGTGAAATCCCGTCTCTACTAAAAACACAAAAATTAGCCAGGCATGGTGGCAGGCACCTGTAATCCCAGCTACTCTGGTGGCTGAG
GCAGGAGAATTGCTTGAGCCCGGGAGGTGGAGGTTGCAGTGAGCTGAGATCGTGCCACTGCACTCTAGCCTGGCCAACAGAGCAAGACTCTGTC
TCAAAAAAAAAAAAGGAATAAAAAGTGAAACAAGATCAAAGAAAAGTGCTAGCTGTGGAAGCAAACGAACGCTGGCACTCGGGAAACCATGCGT
GACAGGGTAGATTTGTGCAGCATCACAACTGAAAAACACAGGTGTTCTTTGATCCAGCAGCTCCTTCCGAGAGCAAACACACACATCTGGTAAT
GTGCACTCTAGCACGGGCTGCCACGGCAAAAATCTGGAAACTGCCTGACGACTGCTCCGCAGGGTTTGGTCCAATCAGTCATAGCAGATTCACA
GGAAGCTCACAATGCAACCCTTTTAAAAGTGACTTATTTGCATGTGCTGACCTAGAAATATGTCTACTATACATGGTTAGGTAGAAAAATTAAA
AAGTACAGTGCTCAAAGAATATGCCCCTAGTTTTATGACCAGAAAAAAGTATACACTACCTATTTATGCATGTATCTAGGTTATTCTGAAGACA
GCCTAAATTTCATTGCATTTAAGATTTGTCAAAGGTTTACTTTTTTCATCAGTTCAAAATTCAGAAGAAACCTGAAATAACACACATGGTTGTA
TTGTTCATGACTTGTAAGATCAAAATTTAAAATAGCACACAAGGTGATGGAAACAGAAGTATAATCAGTTGTATCATTTGGAAGAGAAGTGCC
AGGGCACCTTATGGTCTCCAGATTGATGTCCTGAATGTCTCCTTGTGATCCACTGTAGTGTCATGAAATCAGTTTTCACTGAAATCATGTCCCC
CTCTCCACCCCAATGAGACCTCACACAGGTGACATCAGCAGAAGATAACCAGACTCCGCTGTGTGCCCCCTGAATCCCAAACCCAGAGAGAGGG
TTTTGCTATGCAGTTTGACCTCTGTACTATCACTTGCTTTTAAAATTAGGAAATTAGAATGCTTAGATCATTTTTTAATGATGCTAGCAAGT
AGTGCATGCTAAAATAATTGACCTGGGTGGAGAACTGATCAAGATGGACGACTAAATGCAACTAGTATATGCTCCTCCGTAGAGACGGACCAAA
ATAACAAGTACATATTCACACTTCCAATAGATGGTCTAAGAGAGAACACAGATGCAACCAAGGAGCGACAGGAAGCACCAAAAGCAAAGCACAG
GGAAACAAGGCAGCCTGCTTGGCCAGGAATGACTGGGAGCTGGGAGAAGCTTCCAGATATGGGGAAAGCATAAATGAGAGATCCCCAGGGCTCC
ACATTCCAGCCAAGGACTTCTACAATCCTAGCGACAGAAGAACCCCTCGACCCACGTGGGCCTTAAGACTAACATAGGGAGCTGCCTAGGGATC
ACACAGAGGCATTGCTCCATAGAGGGAACTCACGCTGAGTCCCACAGGCTTCCAAGCTCTGAGTAGCTGCAGCTTGGTGCCATACTGAGAACCA
AGTCCCCAAAGGACTGCATCTTGCCCTGGGACTATTGCTGATGCTGCCATCACCAGGCCAAGGACAGAGGGGAGAATGGACACCTTCACACACC
CCAGGGACAGATCCCCCTGCTGCTACAGGCTGCTGTGGGGCTGAGACACAAGCAAATCACACCCCCTATAGCTGCCTGCCTACACTGCTCCCCC
TGAGAATGTCCGCAGCCTCCCCAGGAGCAGGCCCATAGCCAGCGCCATTCTGAGAGCCAAGCCTCCAAAGGTCTGTGTCCTTCCTTGGGCCAGG
GCTGATGCTGCCACTGCCCCGCCACATAGGGAGAAGGGAGGCCAGGCACTTTCACATGCCACAAAAACAAATACCACCACCACTGCTGAGGGCT
GCTGTGGGACCAAGGCTCAAGAAGACTGCATATCCCACAGCTACCTGCCTACTCTGCACCTATTGAGAGTGGCCCTACCCTTTCTGGTGGTAGG

SAGRES DISCOVERY 02-39

CCTTCAGGGCAGCCACTGCTGGCAACCTAGAGACCACCCCCTCCCTGCGTATCACAGCCAGCAGCTGAATGCACCACCAGGGAGCCTGAGCACAA
GTCCATTGGCCTAGTCACATGCCCCAATACTTGAGCATGACATCCTGTTGCAGCCACCGCCAACACCAACATGGACCACTTGGGTTCCAGTGAG
TTGCCCTACCACCATTACTGCCATCACCCACATCACACCCACTCCCCAGGAACCCAAGAACCTGCCCACATGCCCAGCCACTGCAGCATCCACA
CAATCTACCTGAAAGCCCAAGGGTCAGCCTTCTTAGACCTACTAACACCAGTGCTAGTGTATACCGCCCTAGGGCCCAAGGACAGGCATACTCA
GCTCACTGCTGTCACCACTGGGGTCTGAAGACTGGCCCACCTAGCATCCTATTCACAGTACACCTTCACAACAGCCTCCACTAATAACCATACC
CTAAGGCACTGAGAAAATCACAGGTGTCACTGAGGCTGTTTATGGCCATAGAAATTATACATAGATTTAAATACTGCATTCACCCCAAATCAAAC
CCAAAGTGCCCTACATATATATATGTGTGTGTGTATATATACACACATACACATACGTGTATATATATACACACATACACATACGTGTATATATAC
ACGCATATACACATACACATACGTGTATATATACACATACACATACACATACGTGTATATATACACACATATACACATACGTGTATATATACAC
ACATATACACATACACATACGTGTATATATACACACATACACATACGTGTATACATACATACACACATACGTGTATATATGCATACATACACAT
ATGTGTATATATACATACATATACACATATGTGTGTACATATACATACACATACACATATGTGTGTACATATACATACACACATACACATACATAT
GTGTACATGTACATACATACACATACACATATGTGTACATGTACATACATACACATACACATATGTGTACATGTACATATATACACATACACAT
ATGTGTACATGTACATATATACACATATACACATATGTGTACATGTACATATATACACATATACACATATGTGTACATGTACATATATACACAT
ATACACATATGTGTACATGTACATATACACATATACACATATGTGTACATGTACATATACACATATGTGTGTACATGCACATATACACAC
ATGTGTACATGCACATATACACATATGTGTACATACACATATACACATATGTGTGTATATACATATACACACATATGTGTGTATATACATATAT
ACATATATACATATATATACATATGCACATATGTGTATATATACATATATATACATATGCACATATGTGTATATATATACACACATATATGTGT
ATATATATATATACCCAACATATATATACCCAACAACATATATATATTTTCAGGAAAAAGACCTCCTCTACAAAAGCAATTTCAAAAAACTGGA
AGAAATGACTGTTGTACCACATGGGCAGATATCAATGTAAGAACACAGGAAACATGAAAAAGCAAGGAAATATGATACCTCCAAAGGAACACAC
AATTCTCCAGCAAAAAAATCCCAATCAAAAAGAAATTCACAAAACCCCAGATGAACAATTCAAAATATTGATTTTAAAGAAGCTAAATAAGATA
TAAGAGAATTCTGAAAAACAATAGAGAGAATTCAGAAAAACAGTTCAGGATATGAATGAGAAATTTATCAAAGAAATAGATATTTTTAAAAGAA
CCAAACAGAAATTCTGGAACTAAAGATTCATTGAATGCAATAAAAAATACATCCCAAACTCCACCAATAGACTAGATCAGGCAAAAGAAAGAAT
CTCAGAACTTGAAGACAGGTCTTTTGAAACAACCTATTCAGACAAAAATAAAGAGAAAAGAATAAAAAAGAATGAGCAAACCCTTCATGATATA
TGGGGCAGTGTAAAGCAACTGAATATTCAAATCATCAGTGTCCCCAAGGGTGAAGAGAGAATGAAAGATTAGAAATCCTATTTAATGAAATATT
AGATCAAAACTTCCCAAATATAACAACAAACCTAGACATCCAGATGCAGGAGGCCCAAAGGTCCCCAAACAGATACAATGCAAAATCATCTTCT
CCACAGCACGTTATAATCAAACCACTTAAAGTCAAAGCAAAAGCAAATATACTAAAAAGAGCAAAAGAAAATCTTCTAATTACCCATAAAGGAA
CCACCATTAGACTAACAGTGGATTTCTCAGCAGACACCTTACAGGCCAGGAGAGAAGGGGATGACATTTTCAAAGTGCTGAAAGAAAAATACTG
CCACCCAAGGAGACCATGTCCAGCAAAACTATTCTTCATAAATAAAAGAAAAATAAAGCCTTTCCCAGGTAAGCAAACACTGAGGGAATTCATC
ACCACTAGACTGATCCTAGAAGAAATACTCAAAGGAATCTTAAACGTGGAAGTAAAAGGACAATATTTACCATCATAAAAACACACAAAAGTAT
AAAACTCACTGGTAAACCAAACATACAAATAATCCTGTTAAATAGTGGGCTAAGAACATAGATAGACATTTCTCAAAAGAAGATATACAAATGG
CCAACAGGTATATGAAAAAATGCTCAATATCACCAAACAGCAGGGAAATGCAAATTACAAACACAATGAGATACCATCTTACCCCGGCTAGAAT
GGCTGTTATTAAAAAGACTTTTTTTAAAAAAATGCTTTGCAGATGCAGGAAAAAAAGGAACTCTTATACACTGTTTGTGGGAATGTAAATTAGT
ATAGTCACTACGGAAAATATTAGAGAGACTTCTCAAAACAAAAACAGGCTGGGCACGGTGGCTCACACCTGTAATCCCAGCAGTTTTGGAAGCC
CGAGGCGGGCAGATCACAAGGTCAGGAGATCAAGACCATCCTGGCTAACACGGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTGGCCAGG
CCTGGTGACAGGTGCCTGTCATCCCAGCTACCTGGGAGGCTGAGGCAGAAGAATGGCATGAACCCAGGAGGCGGAGCTTGCAGTGAGCTGAAAT
CACACTACTGCACACTCCAGCCTGGGCGATAGAGTGAGACTCCATCTCAAAAACAAAAAGAAGAAAAAAAAACTAACTACACATAGAATTACCA
TATGATCCAGCAAGTCTACTATTGGGTATTTATCCAGAGGCAAATAAACTTGTATCAAAGGGACACATACACTCAACGTGCTTATCATAGAACT
ATTCACAATAGCAAAGATGTGGAATCAACCTAACTGTCCATGGATGGATGAATGGATAAAGAAAATGTGGTGTGTATATATATATATACACCTC
TAGAGGTGTTCACTGGTTACTTAGGGTACACCCTATGTAAATGAAGAGGCTAAAGTGAAGTTACAAAGTTATTTACTTGGTGTACACCCTATGT
AAATGAGGAGGAGGATGAAGTAAATGTTACAAAGTCATTTACTGAGTGTACACCCTGTGTAAATGAAGAGGATATTTCCTGTCATAGCTGAAGTGTTT
CCATTTGATTTAGTTCTAGGAAGTCCTTAGGTTCCCTGCCTCCAGGCCCTATTCTCCTGTCTCAATTTCACTCAGCATAATGTCCTCTAGGCTC
ATGCATATTGTAGTGAATTCCCTTCCTTTTGAAGGCTGAATGCTATTCCATTGTCTATATAGAGGGTGTTTTGTTTATCCACTCATCTGCTGAA
GGACACTTGGGTTGCTTTCATGTTTTAGCTATTGGGAATAATGCTGCTATGAACATGAATGTACACAATTTTATGCTTTTCTTTCTTTCTTTTT
TTTTTTTTTTTTTGAGATGGAGTCTCTCGTTGTTGTCACCCAGGCTGCAGTGCAGTGGTGTGATCTGAGATCACTGCAACCTCTGCCTTCTGGGTT
CAAGCAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGAATTACAGGCACCCGCCACCACACCTGGCTAATTTTTGTATTTTTAATAGAGATGGG
GTTTCCTCTTGGCCAGGCTGGTCTCAAGCTCCCGATCTCAAGTGATCTGCTCTCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAACCAA
TGTGCCCGGCCCACAATTTTATTCTTAATGGAATTTCTCCCTCTGCTTTGCTTTTAGGCCCAGACCCATGGAAAGTGGCCTGTCAAGTGGTACG
CTCCGGAATGCATCAACTACTACAAGTTCTCCAGCAAAAGCGATGTCTGGAGCTTTGGAGTGTTGATGTGGGAAGCATTCTCCTATGGGCAGAA
GCCATATCGAGTGAGCCAGTCCTGCTTCATTTTCTCACTGTGGGGCCATTAGAACAGATAAGCACCAGATTGTCTTTACAACAACCTGAAAATC
CTAATCTGAGTCTCTCATTATCTTTTACCAGTAAGCAGTTAATGTGCCCTCAGTCTATTCCAAACTGAGAATGAAATATCTGATGCTCACTGAA
GAGTGTGTTTTTCCCATTGTGTGTCAACACATGTAAATATACACAAAATATAACCCAGATCATTACTCATTAGAGTTGAAATAGAAATAATGAC
TATTTACAGTATCTTAATTACATTTTTTAGATCTTTTAATTAAAACATATATACCAAAAAGGGCACAACTCTTAGCATGCAGTACAGTGGTTTT
CCACAAATGAAACATACCCATGAAATCAGCCCCCAGATGAAGAACAGAACCCCAGAAGCCTGTTTCCTCTGCACACACAGCCTTCCCCAGGGGT
GACCCAACTGACTCCAACATCACAGATTAAGTGCTCCTGTTTTTATACTTCGGTATAATTGAAATCATACCAATGTGTACTCCTTCATGTCTTGGA
GTGGCTGTTTTGTTTTGTTTGACTAACACCTTTAAAAAAAAAAAAGCTTATGCATATCTTGCATGTTGTAGGGGATGAAAGGAAGTGAAGTCAC
CGCTATGTTAGAGAAAGGAGAGCGGATGGGGTGCCCTGCAGGGTGTCCAAGAGAGATGTACGATCTCATGAATCTGTGCTGGACATACGAGTGA
GTACCTGACACTGACTGTGATGTATTCAGATGCTCTGGAAACAGGTGAAATGGTTGGGCGTCTAAAAAAAAGGATAAAGTTCACCTTTTCATGA
ATCAGGAATGTGCCGCTTTCTAAACAAACAACGGTGGGGGCTGGTCTTGCTTTAGAGACCTTGCTTTCTGGCCCATGCACTTACATGTAGTAG
AGCCTAAAGAGCAAGTTTAGATGGGGACTCTAACCCGAGTGTCCAAATTTAAATGTCGATAATGGTGGAGAGATGGGGCAAGGGCAGTCAAAGT
AAAAAAGTGTTTGTAAGAGTTTGGGGCTGGATGCCATTTTTGGCATAGAGGATGGCAGAAGCACTCGGTAGGGGATGGTATACTTTCCTGACTC
CCTGATTACCATGAGCAGTGAGGGGTGACCTCGGACTCTGGCCAGCTCACAGATACATTGGCTAAGGTTGCACTTCCCTAGAATCTACCTCATC
CTTGAAGTGGTGGCCTCAGTCCACCCTGACTGCCGTCATACGTCTCGCTTAGTGGATCCCAGGTGCTGTTATGCTTTTAAAGTACACCTGGCAT
TATTCTTAGGTGATGTTCAGGGCAGCTCAGCAAGGAAGGAAAATGCATTGCCACTGAAAATTAGGAGTACAGTTTTGCCAGGCTCAGCAGCCTG
CTTGTGCGTGCATAGCACGGTGACCCCAAGCCGCCATCTCCAGTTCCCTGGTACTGAACTGTGCACACAGAGCCCACACAGCTGAGAATCGATG
TGGTTTGTGATCAGGAGGACATCACAAATCCTGGCCATGGATTTGATGCTTTGCGGAATCAGGTTTGCCTTCAGATACAGCTGACATTGCCAGA
GCCTCTGAAAGATGAGGGCTATTCCAAATGCTGCAGATGCCACCTGGGATTCCGAGACCTCCCCTCCCCACCCTGGGAGTATCACTCTACCACA
ATTGTGAGTGACAGGGAAATAATCTCATTCTGTATCTAGAAACCACCCAGGGGGCAGCCACAAAGGCAGCAGGCAAACTGTGGGTATATGCTTC
CCTGCCCCTGCTGCTGCCGTGGCTCAGGAGAGGAGCCTGGCCTGGGCCCCGGAGCATCTTCTCCAACCCCAAGTGTTAGTGCAACAGGGAGAGC
TAAGTGTCAGCAAGAGGGAAGTGCTACTCATGGATCTAAGAGGATGTTTATTCCTAAGTCTTGGCTTAATTCTCCCAGTGCCTAAACTAGAATC
GTAAGAACCATTGGCAGGTAGGCACTGGCAGCACTGGACCCTGGGGAGGGCAGCCCTTGGGCACGTGGCAGCCTATGACCCTTTACTGAAAGTG
TTCTTTGGTCCAGCCTGCAGCTCCCTTTGCAAGGCTTCCCTTCTTGTAGAAGGGTGA

HUMAN SEQUENCE - mRNA
GAGGAAGAGCCGCGGGCCCGGCGGCTGAGGCCACCCCGGCGGCGGCTGGAGAGCGAGGAGGAGCGGGTGGCCCCGCGCTGCGCCCGCCCTCGCC
TCACCTGGCGCAGGTGGACACCTGCGCAGGTGTGTGCCCTCCGGCCCCTGAAGCATGGCCAGCAGCGGCATGGCTGACAGCGCCAACCACCTGC

CCTTCTTTTTCGGCAACATCACCCGGGAGGAGGCAGAAGATTACCTGGTCCAGGGGGGCATGAGTGATGGGCTTTATTTGCTGCGCCAGAGCCG
CAACTACCTGGGTGGCTTCGCCCTGTCCGTGGCCCACGGGAGGAAGGCACACCACTACACCATCGAGCGGGAGCTGAATGGCACCTACGCCATC
GCCGGTGGCAGGACCCATGCCAGCCCCGCCGACCTCTGCCACTACCACTCCCAGGAGTCTGATGGCCTGGTCTGCCTCCTCAAGAAGCCCTTCA
ACCGGCCCCAAGGGGTGCAGCCCAAGACTGGGCCCTTTGAGGATTTGAAGGAAAACCTCATCAGGGAATATGTGAAGCAGACATGGAACCTGCA
GGGTCAGGCTCTGGAGCAGGCCATCATCAGTCAGAAGCCTCAGCTGGAGAAGCTGATCGCTACCACAGCCCATGAAAAAATGCCTTGGTTCCAT
GGAAAAATCTCTCGGGAAGAATCTGAGCAAATTGTCCTGATAGGATCAAAGACAAATGGAAAGTTCCTGATCCGAGCCAGAGACAACAACGGCT
CCTACGCCCTGTGCCTGCTGCACGAAGGGAAGGTGCTGCACTATCGCATCGACAAAGACAAGACAGGGAAGCTCTCCATCCCCGAGGGAAAGAA
GTTCGACACGCTCTGGCAGCTAGTCGAGCATTATTCTTATAAAGCAGATGGTTTGTTAAGAGTTCTTACTGTCCCATGTCAAAAAATCGGCACA
CAGGGAAATGTTAATTTTGGAGGCCGTCCACAACTTCCAGGTTCCCATCCTGCGTCCTCCCCTGCCCAAGGGAACCGGCAAGAGAGTACTGTGT
CATTCAATCCGTATGAGCCAGAACTTGCACCCTGGGCTGCAGACAAAGGCCCCCAGAGAGAAGCCCTACCCATGGACACAGAGGTGTACGAGAG
CCCCTACGCGGACCCCGAGGAGATCAGGCCCAAGGAGGTTTACCTGGACCGAAAGCTGCTGACGCTGGAAGACAAAGAACTGGGCTCTGGTAAT
TTTGGAACTGTGAAAAAGGGCTACTACCAAATGAAAAAAGTTGTGAAAACCGTGGCTGTGAAAATACTGAAAAACGAGGCCAATGACCCCGCTC
TTAAAGATGAGTTATTAGCAGAAGCAAATGTCATGCAGCAGCTGGACAACCCGTACATCGTGCGGATGATCGGGATATGCGAGGCCGAGTCCTG
GATGCTGGTTATGGAGATGGCAGAACTTGGTCCCCTCAATAAGTATTTGCAGCAGAACAGACATGTCAAGGATAAGAACATCATAGAACTGGTT
CATCAGGTTTCCATGGGCATGAAGTACTTGGAGGAGAGCAATTTTGTGCACAGAGATCTGGCTGCAAGAAATGTGTTGCTAGTTACCCAACATT
ACGCCAAGATCAGTGATTTCGGACTTTCCAAAGCACTGCGTGCTGATGAAAACTACTACAAGGCCCAGACCCATGGAAAGTGGCCTGTCAAGTG
GTACGCTCCGGAATGCATCAACTACTACAAGTTCTCCAGCAAAAGCGATGTCTGGAGCTTTGGAGTGTTGATGTGGGAAGCATTCTCCTATGGG
CAGAAGCCATATCGAGGGATGAAAGGAAGTGAAGTCACCGCTATGTTAGAGAAAGGAGAGCGGATGGGGTGCCCTGCAGGGTGTCCAAGAGAGA
TGTACGATCTCATGAATCTGTGCTGGACATACGATGTGGAAAACAGGCCCGGATTCGCAGCAGTGGAACTGCGGCTGCGCAATTACTACTATGA
CGTGGTGAACTAACCGCTCCCGCACCTGTCGGTGGCTGCCTTTGATCACAGGAGCAATCACAGGAAAATGTATCCAGAGGAATTGATTGTCAGC
CACCTCCCTCTGCCAGTCGGGAGAGCCAGGCTTGGATGGAACATGCCCACAACTTGTCACCCAAAGCCTGTCCCAGGACTCACCCTCCACAAAG
CAAAGGCAGTCCCGGGAGAAAAGACGGATGGCAGGATCCAAGGGGCTAGCTGGATTTGTTTGTTTTCTTGTCTGTGTGATTTTCATACAGGTTA
TTTTTACGATCTGTTTCCAAATCCCTTTCATGTCTTTCCACTTCTCTGGGTCCCGGGGTGCATTTGTTACTCATCGGGCCCAGGGACATTGCAG
AGTGGCCTAGAGCACTCTCACCCCAAGCGGCCTTTTCCAAATGCCCAAGGATGCCTTAGCATGTGACTCCTGAAGGGAAGGCAAAGGCAGAGGA
ATTTGGCTGCTTCTACGGCCATGAGACTGATCCCTGGCCACTGAAAAGCTTTCCTGACAATAAAAATGTTTTGAGGCTTTAAAAAGAAAAAAAA
AAA

HUMAN SEQUENCE - CODING
ATGGCCAGCAGCGGCATGGCTGACAGCGCCAACCACCTGCCCTTCTTTTTCGGCAACATCACCCGGGAGGAGGCAGAAGATTACCTGGTCCAGG
GGGGCATGAGTGATGGGCTTTATTTGCTGCGCCAGAGCCGCAACTACCTGGGTGGCTTCGCCCTGTCCGTGGCCCACGGGAGGAAGGCACACCA
CTACACCATCGAGCGGGAGCTGAATGGCACCTACGCCATCGCCGGTGGCAGGACCCATGCCAGCCCCGCCGACCTCTGCCACTACCACTCCCAG
GAGTCTGATGGCCTGGTCTGCCTCCTCAAGAAGCCCTTCAACCGGCCCCAAGGGGTGCAGCCCAAGACTGGGCCCTTTGAGGATTTGAAGGAAA
ACCTCATCAGGGAATATGTGAAGCAGACATGGAACCTGCAGGGTCAGGCTCTGGAGCAGGCCATCATCAGTCAGAAGCCTCAGCTGGAGAAGCT
GATCGCTACCACAGCCCATGAAAAAATGCCTTGGTTCCATGGAAAAATCTCTCGGGAAGAATCTGAGCAAATTGTCCTGATAGGATCAAAGACA
AATGGAAAGTTCCTGATCCGAGCCAGAGACAACAACGGCTCCTACGCCCTGTGCCTGCTGCACGAAGGGAAGGTGCTGCACTATCGCATCGACA
AAGACAAGACAGGGAAGCTCTCCATCCCCGAGGGAAAGAAGTTCGACACGCTCTGGCAGCTAGTCGAGCATTATTCTTATAAAGCAGATGGTTT
GTTAAGAGTTCTTACTGTCCCATGTCAAAAAATCGGCACACAGGGAAATGTTAATTTTGGAGGCCGTCCACAACTTCCAGGTTCCCATCCTGCG
TCCTCCCCTGCCCAAGGGAACCGGCAAGAGAGTACTGTGTCATTCAATCCGTATGAGCCAGAACTTGCACCCTGGGCTGCAGACAAAGGCCCCC
AGAGAGAAGCCCTACCCATGGACACAGAGGTGTACGAGAGCCCCTACGCGGACCCCGAGGAGATCAGGCCCAAGGAGGTTTACCTGGACCGAAA
GCTGCTGACGCTGGAAGACAAAGAACTGGGCTCTGGTAATTTTGGAACTGTGAAAAAGGGCTACTACCAAATGAAAAAAGTTGTGAAAACCGTG
GCTGTGAAAATACTGAAAAACGAGGCCAATGACCCCGCTCTTAAAGATGAGTTATTAGCAGAAGCAAATGTCATGCAGCAGCTGGACAACCCGT
ACATCGTGCGGATGATCGGGATATGCGAGGCCGAGTCCTGGATGCTGGTTATGGAGATGGCAGAACTTGGTCCCCTCAATAAGTATTTGCAGCA
GAACAGACATGTCAAGGATAAGAACATCATAGAACTGGTTCATCAGGTTTCCATGGGCATGAAGTACTTGGAGGAGAGCAATTTTGTGCACAGA
GATCTGGCTGCAAGAAATGTGTTGCTAGTTACCCAACATTACGCCAAGATCAGTGATTTCGGACTTTCCAAAGCACTGCGTGCTGATGAAAACT
ACTACAAGGCCCAGACCCATGGAAAGTGGCCTGTCAAGTGGTACGCTCCGGAATGCATCAACTACTACAAGTTCTCCAGCAAAAGCGATGTCTG
GAGCTTTGGAGTGTTGATGTGGGAAGCATTCTCCTATGGGCAGAAGCCATATCGAGGGATGAAAGGAAGTGAAGTCACCGCTATGTTAGAGAAA
GGAGAGCGGATGGGGTGCCCTGCAGGGTGTCCAAGAGAGATGTACGATCTCATGAATCTGTGCTGGACATACGATGTGGAAAACAGGCCCGGAT
TCGCAGCAGTGGAACTGCGGCTGCGCAATTACTACTATGACGTGGTGAACTAA

SAGRES DISCOVERY 02-40

TABLE 40

MOUSE NOMENCLATURE
ICSGNM Gnb1
Celera mCG23363

HUMAN NOMENCLATURE
HGNC GNB1
Celera hCG23470

MOUSE SEQUENCE - GENOMIC
AAGAGGGCACTAGATCTCATTATAGATGGTTGTAAGCCACCATGTGGTTGCTGGGAATTGAACTCAGGACCTCCGGAAGAACGGACAGTGCTCT
TAACCTCTGAGCCATCTCTCCAAGCCCTTTGTTTTTTGTTTTTGTTTTTGTTTTTTTAATTTCTGATATTAGAAATTTCTTTTATTTTTTAATT
AGATATTTTCTTCATTTACATTTCAAATGCTATCCTGAAAGTCCTCTATACCCTCCCCGCCCCCACCCTGCTCCCCAACCCACCCACTCCTGCT
TCCTGGCTCTGGCATTCCCCTCCTTTGTTTGTTTTTTGAGTCAGGGTTTCTCTGAGTCTCTGTAGACCAGGCTGGCCTGGAAGAGACAAAGAGA
TCTCACTGAGATTTTTATACACACTCAGAGAAAGAGACAGAGACACAGGGGTGAGGGTGGCTGGTATTAAAGGTGCTGGCCACCACTGTCCAAC
TAGGATGTGTTCTTAAAACATTCTAGGTACTGGTTGTTTATAAGGCTTGAGGCAGAATTGCTTGAAGATGGGAGATAGACCAGCAAGAAGGCCA
TGAGGCCTAAAGGGTGTTTTGGGGGTGGGGTGGGGCAGGGGAGAGGGTTGGTTGTTTTATATCAAGGCCCTTCCATTCCTAATTAGCAAGGCTT
CATTTAGGTCCCAGATAGCTTCTAGACTTGGAAAAAAAGTTTTTTTTGTTTTTGTTTGTTCGTTCGTTTTTTTTTTTTTTAAAGCAACAAGGGC
TCTTTTTTTTTTTTTAAAGATTTATTAATTATATGTAAGTACACTGTAGCTGTCCTCAGAGACTCCAGAAGAGGGCGCCAGATCTCATTACGGA
TGGTTGTGAGCCACCATGTGTTTGCCGGGATTTGAACTCAGGACCTTTGGAAGAGCAGTCAGTGCTCTTACCCACTGAGTCATCTCACCAGCCG
TTCGTTTTGTTTTTTTTACCACTTGGACTACTGACCTAGGTGGGATTTGCCGCTGGGGTTAAGGGAGTAGGATGAGGTCTATAAAGAACTGAGA
GTAATAAGTGCTCCTGAGGCAGCAGAGCCACTTTGTTTCTAACGCTTGGGGTCTGAACATTGAAATCACCGTTTATGTGTGGTTTCACAGATTC
AGCTCTTTAAATGGACATGATACTTAGCTTTGAATCCTCTCCATTCTTGGGCTGGTGAGCAGGAAGCCGGCCTTTTCACTATAGCTCACTCTGC
CCCATAGCAGGTACTTCAGTCAGTGTGGGGGAGGGAAGGAAATTGTTTGTAGAGGAGAATTTTAAAAATAAGGCATTGCTGAATTTTTAAAAAG
AAGCATTACCTTTCTCAGGACTCAGCCCTGACAATTAGCTCCATTAACACACAAATACCTGTCTCCACTGCAAAAGGGTAGAAAAACTTCCCAT
GCTATTTGGTGAAAATTGAGTTGTGCCCAGAAACGATATCTTTGTTTCTAAGCACAAGTTGTACTTACAGTTCCTTCCCTTTGGAGAGGGCATG
CTGCCACTTTCATCTGACTTCAGGTGAGTTTCCAGAGGATCATACCTAGAACAGTGTTTAAGAGTTTCGAAGAAGCCAGGTGTGGTGGCGCACG
CCTTTAATCCCAGCACTCGGGAGGCAGAGGCAGGTGGATTTCAGAGTTTGCGGCCAGCCTGATCTACAAAGTGAGTTCCAGGACAGCCAGGGCT
ATCAGAGAAACCCTGTCTCGGAAAAAAAAAGAGTTACGTTGTTGCTGATAGGTACATATGCCATGTACATAAAACTTTCTTTCACCCACTTTTC
GAGTCATGCTGATACCTGGCCATGGCCTTCATGTAGTGTGAGAAAGTGGAGAGAAAGAGTGGGCAGCAAGCCAGGATGTTAAACTGTTTTGGGG
TGTGGGGTGGTGTAGTAAAATAAACGGGAAGTTTGACAAGAGAATTAAAAGACAATTCCTGAATATTAGTTTTTTTCACTTCTGAAACATGGAT
ATATAAGCCCCAAGATCCGCCATTTAGATGTTTAAACAAATTTGGATAAGTACCGAGGTTGCATCATTATGAAACTAACCAGAAGTGGCTGTGC
GCTCCAGTTGTACCGGAACAAAATGATGCTGGCACAGCAAGCTTCATGTCCTTTAGAACTTTATTATAAAGTTGGAGATGTTTTTTAGATACAT
TGGTATATTTGCATTATAGACTTAATGAATGTATGTAATGCCAAACAATGCTAAAATACTGACTTTTTAAAAAAAATATTAGTAAGTTAGGAGT
GTTGGTGGGTAGTTCAAGGTAATCCTAAACTACCTAGTGAGTTTGAAATCAATTGGGCTACATAAGACCTTGTCTTTAAAATATCAAAATAATA
ATTAAAGAAATGATTTAAACATACAGACTATATTACACTATATTACAAAGATCTCTCAGTTTATATTTACAGAATTCCGAGTTATATCTAATTG
CCTTTCTTCTCTTTCCTAATCCTTCTTTACTCTCTTGAAGTGGTTTTAAGGCAAACCCCCAAATCTTGCCCCCCCCCCCCCCGCCCCAATGAAT
AACAAGTTAGGAGTTCAAATCTGGTAGGATATCTAGCAGGAAAACAATAGTTTTCTTCTGTTTTCTGTCTGATTTTTCCCTTCTAAAAATGTAT
ATACAGCTGAATTTTTTTTTTTTTTTTTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNTTAATATGTAGCCCAGGTTGACCCAGTTCTCACAGTCCTCCTGCTTAGGTTTGTTTGTTTGTTTGTTTTTTTTAAGATTTATTTAT
TTATTTATTATATGTAAGTGCACTGTAGCTGTCCTCAGACACTCCAGAAGAGGGAGTCAGATCTTGTTACGGATGGTTGTGAGCCACCATGTGG
TTGCTGGGATTTGAACTTCTGACCTTTGGAAGAGCAGTCGGGTGCTCTTACCCACTGAGCCATCTCACCAGCCCCTGCTTAGGTTTTTGAGTGC
TTAGATTAGAAGTGTGTCCCACCTCACCGAATTTGAAAATGTTAATTATTTAGGGAACTATTTACAAATAAATTCAACACTAGCTCATAGCTGA
ACTTCTTATATACGTCCCTATCCATTTCTCTACCTTTTGCTCGTTTTGAGGAGGCTTTTTAAAAATTAATTAATTTATTTTATATATGTGGGTA
CACTGTAGCTGTAGATGGTTATGAGCCTTCATGTGGTTGTTGGGAATTGAATTTTAGGACCCCTGCTCCCTCTGGCCCAAAGGTTTATTTATTA
TTATACATAAGTACACTGTAGTTGACTTCAGTCAGGCGCACCAGAAGAGGGCATCAGATCTCATTACAGGTAGTTGTGAGCCACTATGTGGTTG
CTGGGATTTGAACTCAGGACTTTTGGAAGAGCAGTCAGTGCTCTTACCCAGAGTCATCTCACCAGCCCCCAAGGAGACTTTTCTTAAATACTTT
TTTGTTCCTTTAAATATAATCGTAAACGGTACTATTATCACACTTTAAAATGTTAGCAGTTGCTTCTTATATAGCCCCTCAGCACACTTGTTTG
CTTGGGTTTGGCTTTATGGAGTTGGTCTAATCTTACACCTTCCTTCTTCCTCCCTCCCTCCCTTTCACATTGAGACAGTTTTTCATTTTGCAGT
CCTGTCTAGCCTGAAACTCACTATATAGACCAGGCTGGCCTTAGACTCACAGAGATCCAACTATTTTTGCCTCCCGAGTTCTAGGATATAAAGC
ATTGACCTACTATTCCCAGCCACGATCATAACTTTAAATCTTTTAGAAATTCTTGTCTTTGGAAATAGCATCTGAAAGCTTGGTGGTAGTGACT
GGTGGATACATTTAGTCCCAGAACTTAGGAGGCAGAGGTAGGCAGATATCTGTGAATCCTCTAGGCTAGCATGGTCTACAGAAGGAGAGTTCTG
GGATATCTAGAGCTATACAGTGAGACCCTGACTCAAAAAACCAAAGGAAAAAAGAAAGAAAAAAGAAAATAGCATCTCAAACTAGGACAATAGT
GTTCTTTGTCAATGTGACTTCTCAGATGTCAGGCATTAACCTTGGAGTTGTACTGTTGAAGGGGACACTTCAGTAGTATATCACTTCAGTAGTA
TATCACTTCAGTAGTATATCACTTCAGTAGTATATCACTGAGAGGCTTATGGGATGAGGGCGTATCAGACTGATTATCTCACTATGTGATATAG
ATGATGTTTGTTTCTTTGTTTTTCAAGGCAGAGTTTCAGGTTAAAGACATGTACATCTCTACCCAGCTTCATAAATAAATAATATTTTTTTCAG
ACCAGAGTGAAAAGTGATTTAGTGAGGCCCTATTTGTATGTTGGAGAAATTGAAATTATTTTTCAAGACATGCACCATTAAATTTTAAATTCTA
GTTTATTTTTTTGTATGTGTGCACACAGAGAAATCAGAGGACAACCTGAAGGAGTTCATTCTCCTGGGCAATCAAGTCAGGCTCTGGGTTTGACA
GCAGATACCTTCTGGCGAAGCCATCTTGATGGCTCGTATTTCTCCTTTTCATCAGTGGCAGGCTTGCAGCCCAAGTATCGTCAGTAACTGTGTG
AGATAATGGGGTCCTGAGGTCACTGCTGTGCCTGTCCTGGCTCCTTCACAGGGTCTTGACCAGAGGAGCGCTGTGCTGCTGATGCCTTTGTCAC
AAAGTTGGGGGCTTTATATCTCATACCATCACGTGAACTGTTCTAATCGTGCTGACATTTTATTTAAAGATATAGCATGTTACTTCCAGGAGAT
CACACCAACTTGTTTGTCACATCTTTAGTCCCATGTTCTTACATCATTTAAATTTCCTGAACAGCAGCTCTAATTTAAAGCTGACGGCAGATGT
GGGTCATGGGCAGTCGTGAGCCTCAGCAGGTGCTGTCTTAGTGGATTAGGCTGGAAAGTGCTACCTCAGCACAGCCAGAGCTTACCTGGGAGGC
TCTGGAGGAGGAGAGCTGCCCAGGCAGGCAGACCGGATGGTGGGGTTTCCAGAAGGGTCAAAGGACTAACGACACTAAAGAGAAAGGCAGAGGA
GACGAAACGTAAGTAAGACGTGTTTCTAATTGCTAAAGTTGTGTAAACAGTATTATGGCAGACTCTTCAGTTGTGTGCTGCACTTCACTCAGAC
TGTGAGAAGGTAATATTGGGACAGCAGGTAAAGGCACTCGCTGTGATGTTGCATGGCAGGAGAGAACCAGCTATTTCAGGTTATCCTCTGTCCT
TGGAATATGTGTTGTGGTACATACCCATACACAATTAAATAGGTAAAATGATAGAAGAAAATTACTTTAAAGATCGTTTTCTGCCCAGCAGTGG
TAGTAGTACACGAGGCCAGCCTGGTCTATAAAGCAAGTTTCAGGATAACCAGGGCTATACAAAGAAACCCTGTCTTGGAAAAAACCAAAAACAA
ACAAACAAAAAGTTGTTAAAAAAAAAAAATCCTGCTGTGTGGGAGGCAGAGGGTGACTCAGGCGCAGTTTTCTCCTCCCTCCTTTACATGGGTG
GGTTCTAGGGGGTGAACTAGGGTCCCCAGGCTTGCATAGCAAGGGACTTAACCCACAGAACCTGGAAATCATTCTTTTGATTGAATGCTTTCTT
CATATACAAGAAAAATATGTGACAGTCATCCAGGTAATATTGCTTAAAAGTAGAAAAATGTATTTACCAGAAACCTAGTGAGGAATAGAACTGA

TGGGCTATTGAGATAACTTTGGGTAAGGTTGGTGGCTGCCATGCCTGAGGAGTTTTTGAAGCAGCTCAGAAAGATCCCCTGTTTATACAACACT
GGTTCAGCATAGTTGTATTCGGTCTCATGATGTAAGAGCTTTAGTGTTTATGTCCTGCTCAACTGCTGCTTGTTGATTAGACTAAATCAGGTAC
CTCAGGACTTTGGTTGCTACTTTTTCTTACGTTAATGCTGGATTGGATGGAAGGTCTTTATAGCCAGAGTTCCTTTCAGTCAAGTAAGGAGTGC
TGAAAGGTGGTGATCTTGACTCTGTTAAACTAGTAAGAGGGTTTCTTCTTTGACCCTTTGTAAGGTAAAAACAAGTCAAACTCATGCGAGACAA
AAATGGCAGAGTATCTTTCTGTGTTTTTATTCATTTGGGATTTTATTCTGCCATATAGGAATGAATATTCCTAAATCTAGTAAGAGGGTTTCTT
CTTGGACCCTTTGTAAGGTAAAAACAAGTCAAACTCATGCGAGACAAAAATGGCAGAGTATCTTTCTGTGTTTTTATTCATTTGGGATTTTATT
CTGCCATATAGGAATGAATATTCCTAAATTTTAGATCTTAGGTTTTGTGTTCTAAAGAGAATGGCTCAGTCTTCTCCTGCAAAAGTCATGCCAG
GTACCAGGGAGGCCCAAGGTGTCTCCCTTGGTGAATCAGGATCCACTCAAGAACCAGAGATGGTGGATATAACCTGTAATACTAGCCCTGGGGA
AGGGGAGGGAGTAAGGTCAGAGTAGGTGCCAAGGGAAGTTTTAGTATATACTGTACTGCTTAGCAAGACACTGTCTTAAGAAAGGCAGGAACGT
GACTGGAGAGATGGCTCAGCACTTTTCCAGAGGCTCTGAGTTCAATTCCCAGCAACCACACAGTGGCTCACAACCATCTATACTGGTGGGATCT
GATGCTCTCTTCTGGCATGCAGCTATACATACAGACAGACACTCAACATACATACCATAAATAAATAAATAAATAAATAAATAAATAAATAAAT
AAATATTTAAAAAAAAAGACAAGCAGGATAAGGAGCATCAACAGAAAATGAGAGTATCATTGTGGTCAGCAATCTTTTAGAAGCCGTCTTGATG
TATACCCTGCTTTTCAAGTGAGCAGCAGCAGCAGCTGGTCTAGGAACATGGAAGCCCTCTTTCAGTGCACAGCTTTACCTTGTAGGCCTTGGTT
GCCCGTGCCCCCCCCCCCCATGTTAAGTACTTAGTAAGTCGACCCTTCTTTTTGTTCTGCCAGCAGCAAAGACACTTAGTTGGAAGGGATTCTG
TCACCATGAGCATATAGTGTGGAACTGTAGAATAGAGAAGTAAGGAACGTGAACAGTTCTGGGGTCATCCAGCTGATTTATTGTAGATGTGTCT
TACTCTAACAGTGATCTCAGGACACAGCAGGCAGAGCTCGGTGTGAAGCCAGCCCAGTCTACAAAGCAAGTTCCAGAACAGCTAGGGCCACACA
GTATAACCCTCTCTTGGGTGGTGGTGGGGGGCAAGGAAAAGAAATTAATATTGGTTAGTTAAGCATTTGGTATTTTTTAACTTTGACTTTTGAC
AAAAAGTTGATCTTGATACACAATCCTAAGAGATCTGGAGCCCACTATATTGCCCGAGAGGTCTTAGACTCAAAAGGAATCTTTCTGCCTCTGC
ATATCCCAAATTCTGAGATTATGGGTATGCTATCATACCTAACTTTATTATTATTATTATAAAATTTGTGTGTGCGTGTGTGTTTTATGTTTCT
GTAGGTATGCTCATGTATGTATGTATATGTTTATGTATGTATTTACATGTTTATGCAGGTATATTCATCTATGTATGTATGGAGGCTGATCATT
ATTTTATTAGTTGACCTCACTTGTCAACACAGGGTCTTACTGAACCAGAGCAGTGGTTCTCAACCCGTGGGTCATGACCCTTTTTGGGAGTTGA
ATGACTTTCACAGGGGTGGCCTAAGACCACTGGAAAACAGACATTTATATTATGGATCGCACAGAGGCAAAGTTACAATCATGAGTAGCAACAT
AAATAATTTTATAGTTGGGAGTCACCACCACATGAGGAACTATATTAAAGGGTAGCAGCATTAGGAAGGTTAAAAACCACTAGAGGTTTTCATT
TCAACTAGATTAATTTGTCATTGAACCCAAGAATCCATGTGTATCTGCCCACACCATTTTGAACCTCTTTAATTATTACACAAAATTTTTGAAG
ATTGTGTGGGGAGTGCTGGAAGATGATTCAGTAGTTAAATGCACTTGGTGCCCTTCCAGAGGACCCTAGTTTCATTCTCAATGCCTACATGACA
GCTAACAAACCATATGACTCAGATTCCAGGGAATCTGTATGTGTGTGTGTCAAAAACACTCATATTCTGTGTAATTTGCATGGGGAACTAAGAT
TCTTGCATAAATTATATTGGTATTAAGTTGTTTCACCTTCAATATTATGGTGTTATAATCACATTTATAATTGATTTAATAACCAACATCAGGT
CAGAATTGTAGCCTGTGTGCCCCAGGTACAGTGGTAGATGAGGCCTGCTGTTCTAACACTTAAAGAGTCTGAGGCAGGAGATTTGCTATTAGTT
CGAGGCCAGCATAGGCCACAGAAATAAGTTCAGGCAGGCACGCAGGCATTTCTATGTACAGCTTCCTCTGGGAAGTGAAGTCTTTTTGTGCTGT
TGTTTATTTTGGATTGGGCTTTTGAGACAGGATCTCTGCGGTCTTGGCTGGACTGGACTGGTGCATAGGTCTGGCTGGCCTTGAGTTCGGATCC
TCCCTTTCCTGCTTCCCAGCTGCTGGCTCGGGTTAAAGGCAGGCTCTACACTCTGAGGTATTTTATTTAAGGCATGCTCTACACTCTGAGGTAT
TTTATTTTCTGAGGCAGTGTCTCATGGAGCACAGACTGGCCTTAGACTACTGTGTAGCTGAAGATGACATTGAACTTTTTGCTTCCACATCCTG
AGTGGAATTATAGGTTAGCAACACCTCATGTGGGAATTCATACATTGTAGGTAATCAGTCTACTAGCTGAACTATATCTCCAACCCAGGAGGTC
AGGTTTGTTTGTTTGTTTAACAATCTAGTTTTGAAACAGTCATATCCTAGGCTGGCCTCAAGTTATGTAGTCAAAGATGGCCTTAAAAGATGAC
TCTTGGTTATTTTCCAAGTGCTGGGATTATAGATATGCACACCACCACACCTCATTTGTCTCGGGGCTGGACTCAAATCCAGAGCTTCATGCAT
GTGAGGCAAGCACTGTACCAACTCGACTTTTGCATACTCCATTGAAAGTCATTTTTATAACAGGATCATCTCAGTTGTCTCTGACAATGGGGAT
GTTTTATATGACTGTGTATGGCTTTGCAGCTTTGACAGCCTTATTCAAGCCCATATCTAGAAGGTATTTCTGAGCTTCCTGGGACTCCTCAGCA
TAGAGTCTGGGGAGAAATAGAAGACTTTTGAATGTCCCTTTGTCTTTCGGCTCATGATAACTGCCATAGCTTCAAAGTACTGGTTTTCCAGATT
ACCTCAGTCCTGTTTCTTAAAGAAATTACTCCTGGTTTCTCTGTGTGGTAGCTATTCTGGATGTCTGTGTTTGTTGTTGTTCTTCTTCTTCTTG
ATTTCTTTCTTTTATTATTTTTTAAAGATTTATTTATTTATTATTACATGTAAGTACTGTAGCTACCTTCAGACACCCCAGAAGAGGGCATCGG
ATCTCATTACGGATGGCTGTGAGCCACCATGTGGTTGCTGGGATTTGAACTCAGGACCTCTGGAAGAGCAGTCGGCGTTCTTAACCACTGAGCA
ATCTCTCCAGACCCTGTTCTTGATTTCTGAGAGACTCAGAATCTTTCCATGAGAAGGACCTGTGCTGTTTTAATATTGATTGATTGATTGATTG
ATTGATTGATTGGAGATTGGGTCTCTGTGGTACAGATTGGCATTGAAATTAAGATCTTCCTTCTTGGCCACCTAAGTAGTGGAATGCACCACCT
CTATTGGCATTAATTTTCTTTTTCAGTCCACCACAATATTTTCAGCAGTATATTAGTACAGTTAATAAAAGTGAAGATTGTGTTTTTAATCCAG
TTCTAGATAGAGTTTCAAAAGTTCTGATGAGTGCTGCAGAAAAGGTCTCTGCATTGTGTGATTGTAGCTGTGACGTTTTCAGTTAATCATACCG
TATCTTATGCATTTCTTGCCATGTTTCTGTTGCAGAGCTTGGATTCTGAAGTGTGGAAAGCACTGAGACGTGAAGATGAGTGAACTTGACCAGC
TGCGGCAGGAGGCCGAGCAACTGAAGAACCAAATTAGAGTATGTAGTCATGCGGGTTTGATATGTTTCATATCAGAAACATATCTATTGTGTGT
GGATAACAGAGTGAGATGAAATTGATCTATTATATGCTAGTTATATATCTGAATAACTTATGTTGTTTCAGAAATTTTGTTTTCTTATTAGCTA
CAAGTTGTTGCTTGAATGTACATGGCCCATGTCTGTAATACTTACCAAAGCTTTTGAACGTCTTCCTCCCGGGGAACTAGGTTTTGGACCCTCT
GTGTGGCCACTGTGGCCGCTGTGTCAGTTCTGAAGCAGCTCTGAAGAGCACGGCTACTAAACTGAGAGCAGAAATAGATACTTTAAATGAAGGG
ATCCGTAAAGTGGCATTTTAGATGTCTCTGTCTTATTTTTCATAGTTTCGCAATGGTTTGTGCTCCAGGAAGACCATTGGAATGTATGTAACAG
CTCTTAGGCCACCATAGAGAGCAGACTTGTCTACCTGGGTACAAAACTAAATGGAAGATAATTCCATGTATTCTGAGTTGTTCTTTCTGTGCTG
GGGACTAGTGTTAGAAATGGAGCTAAGAGCCCACACATCCCAGGCAAATGTGAGTTTTTTGGTTTTGGGGTTTGTATTTTAGTTTTGTTACTTG
AGACAGGTTCTTACTATGTAACTTTGTCCTGAAACTCAGTGTAGACCAGACTGGCCTTGAATGCAACATTATACAGAGATAAGTATGTGGGGTT
TTTTGTTTGTTTGTTTGTTTTTTGTTTTTCTTAGACTTGATCTAAGAGCATGGAAAAAATGACTTAAGACTTAACAAGAAAATCCCAGTTTTTC
GTTTGTGTAAGGATTTGTATATTTGAAATAGCTTCCTCTGATTTTCATGTTCTTGTCTGTAAGGATATGGCTGTCTGTCCTTGAGCGTCTCACT
AAGCCTTTAGAATGGTTCACATGTCTTTAACTTGTCAGTTGTGTTCTCAGGCTGCCAGGAGGACTAGGTGGAGAATTGCCAGCATCATTTTAGC
CAACTTTTACTTGAATTTAAGAAAACATACCAGAACTGCATAAGTTTTAGAGCAGAGATAAAACAAAATATCCTCTGCTGTAAGCACCTCACTG
GACATTGGTGTCTACGCTGTTCCTCCGTGTGTCAGTTTCTGTAAAGTTAATAATTTCATGTGTCAGGCAAGTTTATAGCACTGAACTATACCTA
GCCCTTGCCTAAAATCTTTTTAGGGTTAGGATTTTTGGAAGTGGGGCATCAAGTTGGGTTTTACTATGGTACTAAGATGATGTCAAAATTTGAG
TTCAAATGATCCCATGTGTCAGTCTCCCTTGTAGCTGGGATTGTGTAGCATGCCTGACTTTCCCTAAACTTTTGCATGACTTAAAAACTTAAAG
CCAACTTAAAGCCAGGGGCTGAGCATTTTAATCACTGCATTTAGGAGGAAGAAGCAGAGCGATAAGAGTTCAAAGTCATGATCAGCTACATAGT
GAGCTCAAGGCTCACCACGAGACCATCTCTCAAAAGGTAACAACAGACTGGAGAGGTGTCTCAACAATTAACAGCCCTTACTACACTTTCGAAG
GACTCCATTAGGTTCCCAGTGCCCAGATCAAGAGGCTCACAATCTTATGTAACTCTTAACTCCAAGGAATTTGACACCTTCTTCTGGCCTCTGC
AGATACTTTCATATCCCACACATAAACACACACAAAATAAAAGTTTAAAGTCAGGTACAATAGGGCATGTCTGTAATGCTATCAAGTCTGAATA
CTGAAGGAGTATTGAAGGTTTGAGGCCTGCGCATGGGCCATATGCTTTTGAGATTTTTATTTCTTTGTCCCAAAGTTCTGAAAATTAAGAGTAT
AGAAATGACAGAGGAGTTTTCAGACAAGGTCTCACTATGTAGCTGTGGCAGTCCGAGAACTCACTATATAGACCAGTGCTGGAGACTAAAGGTG
ACTAAAGCCACCACGCCTGGCTTTTGTGGTTTGAACTTCCTGGTTTTTCAAGACAGTTTCCCTGTGTGACCCTGTGACTGTCCTGGAACTCACT
TTGTAGACCAGGCTGCCTTCAAACCCATAGAAATACCCTTCCTCTGTCTCCCAATGATGAAATCACACTGCTTGGTGTGATTTCAGTTTTTAAA
ACGGGAGCAGGGTGGAGATGGCTATGCTGTTTTAAATTAAGCCAACATGGAGATCAACTGCACAGCATGGAGGGAAGATTTAGGGAAAGGATAA
GAAAGCCCAAGTGTTGAAGAAAGCATACTTAGAACAGATAGAAAGGAGAAAAAGAAATACTCAGAAAAACTAGCGGATTTACTAAGCCATATGG
TTGTAGCTGTGTAGCTGCTGAGACTCAAATCATTTAGCAGTAGATAAAGAGATTTTTAAAAAAGATTTGTTTGTTTGTTTATTATATGTG
TGAACACTGTAGCTGTCTTAAGACTCTCAAGAAGAGGGCATCAGATTTTTGTTACAGATGGTTGTGAGTCACCATGTGGTTGCTGGGATTTGAA

CTCAGGACCTTTGGAAGAGCAGTTGGTGCTCTTAACTGCTGAGCCATCTCTCCAGCCCAGATAAAGAGAGATAGTAAATCAAAGATAAATGTCA
TGCAATATTTTGATAAGCAGGTTTACATACTCTCTAGTCCCTAGTACCCACCCGCCTTTCTGCATCCAAATAGTGCCCCTGTAATTATAGCATT
CAAGAGGTAAAAACAGGAGGGTCAGAGTTCAAGGCCAGCTTCAGTGACATATCAAGTTTGAGGCCAACTGGGCAACATAAAGTGTTATGTTTAA
CATATGATGTTATGTTAATATATATTAGTAATATGAAATCTTAAGTTTCATCTAGTCCCATGTAAAGTATTATTTCAGTCAATAGATTCTTACT
GAGATAGTTTACAGTACTTACATTTCAGTTTTGTTTTGGTTTTAAAGTTCAGCTCATGCCTCCCTATAAGGGCATTCTACAGTTCTCTCTCACT
GTGTCTGACATGCACAGATAGTTGGTGACCCCCCCAAGACCTCTGTTGTGGACAGCACCAATTTGACTGTTCCTTATAGGGCCACTTTGTTTCA
ACCTTCATGATGAGCATCATCTTCACAAATGGCTCCATGGGTTTGGCCTTGCCTCTCAGCACTGCACTAATTTTAGAGTCGATTGGTGAGGAGA
TGTGAAGGCCATTGAGTCTCTAAATGGGAAGGGAAGACTTTTGTTTGTTTTTGAGACATGGTCTCACTATGTAGCCTTGGCTGCCCTGCAACTT
GATATGTAGACTACTGGCCTCAAACTGCTTGCCTCTGCCTCCCCAGTTTACTTTGGAGACTAAAGCTGTGTGCTACCTTACCTGGCAAGGAATA
CTCTTTAAAAAAGTAAAATTCTGGAGTTAGATACTTAAGTGGTTAAGTTTAATCCCAGCACTGCTTATAACTGTAGCTCCAGAGAATCCAAGAC
TGCCTGTCTTTTGGTTTCAATAGGTACCTGCATACACATAAATTTAAAAACAAAAACAAAAAACTTTTTTTTCTGATATAAGGGAGGAAAAATG
TAAAATGTTCTTTACTAATTGCCTACTAAATACATGCTTGCTAAAGAACTTAGTACAAGGGCTGGAAGGATGGCATAACTCAGTAGTAGTCTAG
TGCTTTCCTAGCAGTGTGGTCCCCAAAGTTACAGGGAAAATACGAGGATTATCTTCACTTTGAAGGCCAGCCTAAACTACCAATCAAGAACCTG
TCTTAAAATCAGAAGCAGGAATCCGGGCCTGGTGGTGTACGCCTTTAATCCAAGCACTCGGGAGGCAGAGGCAGGAGGATTTTTGAGTTCGAGG
CCAGCCTGGTCTACAAAGTGAGTTCCAGGATTGGGTGAGACGGCGAGCACTTTTAATCTTAGCAGTCAGGAGGCAGAGTTAAGTGGATCTCTGT
GAATTCTAGGCCGGCCTGGTCTACTTAACAAGTTCCAAGATAGAATTATATAAAGACCCTATCTCAAAACAAACACAAAATCAGAAATAGCAGA
TGAGTTAATCAATGAAGTAAAGGTTCTTGCCACCCAACAGTGTAAGCCTGAAAACCTGAGTTCCATTTCTAGAGTCCACGTTAAGGTGGAAGGA
GAGAGTACTGTCTCTACAAAGTTGCCCCATGACCTCCATACTCTGTAGCAAGCACACTGATACACATCAGTCACACTCTTGGGTTTGTTTGTTT
GTTTGGATTTTTACCAACAAAGCGTTTGTGGGTGTTTTGTTCTCCCCTGTCCCCCCACTAACACCAACACAGGGTTTCTCTGTGTATGCCTGGC
TATCTTGGAACTTGCTCTGTAGACCAGACTGACTTCAAACTCAGAGATCCACCTGCCTCTGCCACTTGAGTACGTACTGGAATAAAAGCTGTGT
GCCACCACCACCTATACAGTCAATATACTTTCAATTATTAAAAATCAACAAAAGGCTTCTAGCTGGTGTGTTTATACACATACACAGCTTCTCA
AACTCGGGGGCCGAGGCAGAGGATCAGGAGTTCAAGGTCATCCTTAGCCGCATAGTAACTTTAAGACCAGTTTGCTTACACAGTGAATCACACA
AGAAATGGCAGTTAACTGTAAGAAGTGTTGTCTGGCCCTTTGATTTGTTTTTTATGTGAACTTCCCCTGGGGGAAAAAAGGAAAAACAAAAAAA
GAAGCTTGTCATTCTTTTGTTGATCCCAAGGAAACAGGCTCTCAAGTAGATGTTTAATTAAAGCACACACGCCTTAAATACAGAGGAACTGAAC
TTACTACTCTGATAGACCATTGCACACATGGACCAGAATGTAGCGACCCAGAGCTGAGGGTGGGCCCAGACTTTCCAATTTCACTGTGAGACAA
CAGTGCTGCATGATACGGGCCAGCCTCTTCTGTACTCAAACCAAACAGGACAGAATGATTGATTAAATGGATCAGTCTACATGAATCCATCAAG
AAATCATTGTAAAGCCGGGGGTGGGGGTGGAGTTTTTTTTTTTTTTAAAGATTTATTTATTATTATTATATGTAAGTACACTGTAGCTGTCTT
CAGACACACCAGAAGAGGGCATCAGATCTCATTATGGATGGTTGTGAGCCACCATGTGGTTGCTGGGATTTGAACTCTGGACCTTTGGAAGAGC
AGTCAGTGCTCTTAACCACTGAGCCATCTCTCCAGCCCGGGGGTGGAGGTTTTAATCCCAGCATTCTGGAGGCAGAGGCAAACAGATCTCTGAG
TTTGGGGCCAGCCTGGGCTACACAGAGAAACCCTGTCTTGAACAAGCAAGAAAGGGAGGGAGGGAGGGAAAGGAAGAAAGGAAGGAAAA
AAAAAGAAAAGAAAGAAAGAAAAATTATTGTAGCTGGGCACGGTGGCACAGTTCTTTAATCCTGTCACTTGGGGAGGCAGAGACAGGTCAATAT
GTATAAGGTTGAGGCCATCCTAATCAACATTAAGTTTTAGGCCAGCCAGGTATAAGGGACCCTCTCAATCATAAATCAATCAGTCATTCTCAGG
CCAGCAGGGTGAGTCATCAACTAAAAGTATGTCAATATTTATTTTACTTATAAGTGAAAACACTTTAATTAATATGGTAAAAATTAAAGAAAAA
TTACTATAGTATATTGTTTTGTAGGTCTTAGCTACATTGGTATGTTTTATAAATAGAAAAGATTGCTGTTTTGTTACCAGTCTTATTGAAATTT
TATTAACAATTTTAGATTCCTTGGTCTATTCATAGAACTTAGATTTAATCATTGTTTGGCTTAAAAATAAAGTCCTTGCATAATGCATTCTCAA
AGAGAAGCTGTTGGCCTGAATAGCTAGTTGGTTTTCAGCCTGTTCTTTCATGCAACCCCTTGTGCTCCCATATAACCTGGGAAAGACAGAGCAG
GTGTGTGTTGGCTGTGGGGAGTCAGCCTTGGCTTCCAGGCTGCTCACTGCTGTACCAGCTCCCAGTGTAGTTTCTCCCGGGCCTGCCCAGAGTT
CTATGGGGTCTGCATGTCTTAGTTAGGTTTAGGTGTTGTGAGTTGTGTCTGTTTTGGCCTGAACAACTCAAAAGTGGCAGTGGACTTGGGACTA
TTAGAGAAGAATTAAGGAACAAGACAGTTTGTAGAGGCTTCTTGAAACTTTGGTAAGGAATGTCGTAAAGTTAAAAGTATGGAATAAAACTAAT
TTCCATTTGTTATTTCATAGGATGCTCGTAAAGCGTGTGCCGATGCGACTCTTTCTCAGGTAAGGAATAATTCCACCTTTCAGCTGTCCGTAAT
GCGCAGTCTGCCGCGGGCTTGTATCATGTGGGGTGAGCCCTTTTGTGAGGTGAGGTTGTAGGGCCACTGTCAGGGCTTTTCATTTGGAGGTTGC
TTTGCTGATGGGCAGAGAGGACAGGAACCACTGGTTCCTAAAATGGGAGTGATAGCTCTACCGTTTGACCCAACAATTTAATCAAACTGATTTT
AAAACATGTACCAGGCTGATGAGATGACTGCTACCAGGCTTGACAACCCGAGTTCCATCCCAGAGCTCACAGGGTAGAAGGAGATTCAGAGGTG
GTTCTCTGACCTCTGTGAGCATGTGCCGCTGTCCTGCCCAAGTAAATACAGTTAAACCGTGGGCATCCAGCTCCTGCTGTAGTGTATCTACTGC
TGTGAGAAACACTTCAAACTCTAAGGGAGGAAAGCATTTATATCGGTTTATACTTCTAGGTAATAATATATCATTGGAAAATCAGGGCAGGAAC
CATAGAGGAAAATTGCTTACTGGTTGCTTTCTCAAACAGCCAAAGATAATCTAATCTGTTTAGAAGTTGTCTTGTTCAGTGTAGGCTGGACCCT
CCTACATCTATTAGCAATCCAGACAGTGCTCCATACATAGGCCCACAGAGGAATCTGATCTAGGCAGTGTTTAATTGAAGTTCTCTCTTCTCAG
GTAACTGTGTGTCTAGTTAACAATAAAAACTAGCAACACACACACACCTATACTCACACCTACTCTTGGGTAATCAATGGCCTGATCCTCAGAC
CTAATAGACATAGATTTATTTTCCCTGTGTATCCATGGCAGTGGTAAAGTGAGTATGTTAGGTAAAGGTGGAGATAACTAATAATTTAATAAAG
CAGTAATAAAATGGTAGCTATTCTATGAAATGGTAGTTACATGTGATATCAGATGATCTTAAAATATCTTACTGCATGTACTGGTGCGACAGGG
GATGACAGTGCCTATATCCTTGATAAGAAGAAGCGAGGTACTGAGCCATGTAAAAAGCATAGTGGTTGTGGTGTATTGCTGATAAACATGCTGT
ATACTTAAAGCATGGACTCACTGGACAAGGGAGTTAGGACCCAGGCACTACAGAGTGGATAGTTAATAGTGCTACTTAAGGGAGCAATGTGCAG
CCGGGCAGTGGTGGCGCACTCCTTTAATCCCAGCACTTGGGAGGCAGAGGCAGGCGGATTTCTGAGTTCGAGGCCAGCCTGGTCTATAGAGTGA
GTTCCAGGACAGCCAGGGCTATACAGAGAAACCCTGTCTTGTGGGGGAAAAAGGGGGGGGGGGAAGCAATGTGCAATTTAAAGTTTATGAATTG
GCTGCTGGAGAGATGGCTCAGCAGTTTAGAGCACTTGCTGCTCTTCTAGAGGACTGGGATTCTGTTTCCAGCACTCTGTAGTGGTTCACAACTG
TCTATAAATCTTCTGGTCTCCTAGGGCTTCTGCATGCTAAAAATATTCTCTCACATAAATATAGGATTTTCCATTTAATATATTTTTGGTTCTT
GGTTGATATTATATTACAGAGCCCACAGAACGCAAACCAAGAGTCTATTTGCTAAAATTAATCTTCACTAATTTTATTTTTTAAGATCACAAAC
AATATTGATCCAGTGGGAAGAATCCAAATGCGGACCAGGAGAACACTGAGGGGGCATCTGGCAAAGATTTATGCCATGCACTGGGGCACAGACT
CAAGGTATGAATGGGGCCTTCCTAAAGCAGTACTTGAAATGTTGCCTATCTGCTGGATTTCTAAAAGGTAATGGTTAGAAAGTTGAATTGGTGT
GGGTGTGATAGCACACTTTGAATCTCTGTACTCAGGAGACAGAAGCAGACAAATCTTTGTGAGTTTAAAGGCCAGCCTGATTTACATATTGAGT
TCCAGGCTAGCCAAGGCTACAATGAAATCCATCTCAAAACCAGTAGGATGGGGTGGGGTAGGAAGTTTGTGGTACCAGTTATCTGTATCCAGGT
CTCATGTTCACAGGTCATACTCAGATTTCCGTTTAGCTGGCTGACTGCACTGCTGTCCCTTGCATAGCAGCACCTGCTTTTCTTCACCCTATAC
CTTTTAGCTGTTGGGTCTCTGTTGTCTTGGCTACTCTGTGGGCTGTGTTTTAAGAGTTGGGCAATGGAAGGTAAAAGGTACTGAGTTTACAACA
GCAGACTGTGGTCCCAAAAACTAAATGTAGACTTCAGTGGTCTCTTCACCCTCACTGGGAAGCCTTATGGAAAATGAACGAATGGCTATCCTTA
TCATCCTTCCACATGGCCCTGCCTGCCATCTACTGGTGTATCATTTAAAGAGATACTACCATTTGGGGGTTCCTTTCTTTTATACTTTGATAAC
TACCCTTTATTGGACTGAGTCTCTCCTGACTTTTCCACTCATAACGAAATAAAGTGCGACATGGTTTGTGTTCTCCTTCCAGACCTAAAGGAAT
CTCAGCATCCTTTTCTTCTGAGTCAGTTTTCATTTCTGCTTAGCTTTCTCTTTGTGAAATTATCTGCTGTAGGGTGTAAATAGCTAGAACAAAA
GATTCTATCTTTAGTTCTCTGCAGGGTCCCATACAATTGCTTGTGCAAATGAGCGCTATCTGAGGCTGTTTAATAATGGAAACAGTCCCATCAA
AAAAGAAAAAGGGGGCGGGGCATTGTGTTCTTGCTGCAGCTGCAGCTTCAGTTAGATAGATCATGGATGTATTCTATTGTTGCTGTCAGAATTG
TTAAGTGCAGATTTGTAGATTTATTGATTGATTGTTTTTTTCAGTGCCGGACATTGAACCTAGGGTCTCATGACTGCAAGCAATTGGTGTACCAC
TAAGGTGCACCTCTAGTCCAAGAATAGTTACCATATGGTCCTAAAAATGTGAGATAATGACTGTGTTAATTCACTTAGTTTATATTCTGTAATA
TAAACATTAAACAACTTACAGTCCATAGTTACTGTCAATTAAAAATAAGATCATAAAAAAAAACCTAAGCAAAGTTAGAAAATGGACAAACA
ATGGTGGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAACTACAGCCCTTGGAATTAAAGCAATATAGCAAGTTCTAGGACAGCTTGGG

CTACACGAAACCCTGTCTTAAAAAGCAAATAAACCAGGGGCTGGTGAGATGGCTCAGTGGGTAAGAGCACCCGACTGCTCTTCCAAAGGTCCGG
AGTTCAAATCCCAGCAACCACATGGTGGCTCACAACCATCCGTAACGAGATCTGACGCCCTCTTCTGGGGTGTCTGAAGACAGCTACAGTGTAC
TTACATATAATAAATAAATAAATCTTTAAAAAAAGAAAAACAAATAAACCTTGCAAAGCATTATTTAGGGATTGCTTTAAATGAGCATACTTTC
TGGCTAGTCAGTGGTTGCATTTTAAAATCTAAAATAGCTGTTTAAGGAGTTGTTGTGGGTATGCATACCCCTCTACCCCCTTACATCATTTTCA
TATTTTTTGCTCTAATAGTAAAGGGTTGTTATTGAGCTTGGTGTGGTTGCAAATGTCTTTAATCACAGTACTTGGGAGACAGAGGCAGGTAGAT
CTCCATGAGATCAAGGGCAACCTGGTCTACATAGTGCGTTTTAGACCAACCACGTAGCACAAACTTGAAGACCTAGGTTTCGATCTCTAGGACA
CATGTAAAACTGATCATGGCCAGATACTTAGAACCCCACTGCTTCAGTCTGGTCGAGGTAAAAGAATTATTGGGATCACTGGCCCTAGCGGAAA
AATGATGAGCTTCCGGTTCAGTGTGAGACTGCTTGAGAGGAATAAGGCAGAGAGTCTAGAACAGGGAAACAGTCTGCTTCCTTTGACTTCTGAA
TAGGAACACACACACACACACACACACACACACACACACTAAAATTCAGCTTTGTGGGGGTGTGTGGAGGAGTGGCGGGGGTAGGCATGTGGAGGTCA
GGGCATTATGACCAAGGAATCAGTTCTACTTCTAAGTGGGTTCCTGGGACCAATTGGTTGGTTGGTTGGTTTTTTTGGGGGGGGGGGGGGTCTT
TCAGGAAATGTTTCCCTGTGCATCCTTGGCTATTCAGGAATTGTGTAGATAGGGCTGGCCTCAAACTCAGAGATCCTCCTGCCTCTACCTCCTG
AATGCTGCTGGAATTAAATGGTTGCAAGAGCCCGGGATTAGATTTAATGGAAGGGCTTGTTTGATAGGCACCTTTACCTGAGCCTTCTCTTTAG
CCCTAAAATTTAACTTGTAATACTATTCCAGTAGTGCTTTTCCAGGTCTGTGGGGTTTTTAATCCCCTCTCTACAGAGCCTGATGAAGTAGTCT
CTTTGGCTGGTCTTCCTCTGAGTAAACTGAAGAGTATGTGGGGTTGGTCTATGAGTGCCTCCTTTTGTTCTAGGCAGCTAATTTGGCTAGTTCT
CAGTTTCTATCTCTGTTTGAGGACAGAATATGAAAAGCTTTAGACAATGAACCGTGTTGATTCCTCCAAGTTACATGACCTGAGATTAGAAAGG
CGTGTCTTCTTTCACCTTCTGGAGGATCAGCTAACAGCTTAGCATTGTCTTAATTCCTCACTGAGTTAGCAATTATTGAGCTCTCTGAAGGTGA
CTTCTTAAATCAGAGGATGAGCTACTAAAGATGTCTCTTGATACCCTTGCTCAGAGTCAAAAAGACCAAGCAGAAATAGAGCAGCAGAGGGCC
TCATACTGTCTGTCCTATAGAAATGGTTGAAAGGACCTTGGGTATAATGACTGAACTGCAATAGATGGGGAGCTGGAAAGACTTTGAGTGACTG
TTAGCCTTGGCTACACAGTACCCTATCTCCAAGGAAAGTAAAAGAATCGTCTGAGGAGTTGGAAATACTAGGTTGTAGTTGAGTTCCCTGTATT
CTCAAGGCTCCAGAGTTTAGTCCCTAGAACCTCATAAAGAAAAAATTTTACCAGAGGACTGAGGTGCAATTAATTGGTGAAGTACAATTTACTG
TGAATTCAATCTCTAGAACTGAAAAAGAAATAAAAGTTGTAGCTGAAAAGAAACTGGATGTCTGTGCCTAGTTCTGTGATAAATTTTGTGACTA
AGGATGGAAAAGGATTTTATTTCTTGTCACATATATATGTTGTTCTTTATAAAGGAAATTTACATATCAGAACATAGCTTGGCAGGGTATGATG
TAGTACAGCTTTAATGCAAGCACTTTGGAGGCAGAGACAAGTAGACCTCTGTGAGTTTGAGGTCATCCCGGTCTACATAATAAGTTCCAGGACA
GTCAAAGCTACATAATAGAGGAACCCTGTCTCAAAAAGGCAAGTGAGTCAGTCATACAAGCATGGTCTGATTAAAAGTGTCAGAGGGCTCAAAA
TGGCGTGGTTGAGTTTTACCTCAAGTCTTTGATGAGCTTCAGAAGTTCAAATATGCCCAAATATACTTGTGGCTGAAATACCTAGAATGTATAT
ATTTTGATTACAATTTGAAGTTAAAACCTGTATGTCACTATCACATGGTAGACCTGGGAGAGCCTCTCACCCTTCCTTAAGAGCACATTGTGTC
TGAGTAATGGTGCTTCCCAGAATTGCTCTCACTCAGTTACTTCCCAGATAACTGAGATTCCTTTGCTTGTTGGTCATGCTTGCCTTATGCAGTA
TATCCTGCCTCAGTCTACAATGCAGAGAACTGCAGGTTCCAAACTAGGACAGAGTCATGAGCAATTCATAATTCACTATAATTGGTGGCCTCTT
TTGCCCAACCATGTGCAATTCTGATGTCATTTATCATCTCACTACCACACAGTTTTATAGAGACAGGTATTCTAATTTATCTCTGTCTGGGAAG
TTTGAGAGTTCGTTTTTCTTTTAATTTTGAGGGATAGAGTCTGGGCCTTAAACTTGTTACATAGTGACCTTGAACTAACACTCACACACACACT
CTCTCCCCCTCTCCCTCTCCCTCCCCTTCCCCCTCCCTTCCTCCCTCTCTCTGTCTGATTTATGGTTTCTCCACATCCCACATTTATGAGTTAC
AACGTATGCTACCATTGGAGCTCATGGTTGTGTTCTAGTTTGATTTCTACTGGTGTGATTAAACACTGAGCAAGAGCAACTTGAAGAAGATTTT
GTTTGAGTTTATAGTTGTAGTCTATCATGAAAGGAAATCAGCAAAGACCGCAGAGGAATACCGCTTACTAGCTTTCTCTTTAGGGCTTACTTAG
CCTGCCATCCAGGACTACATGCCCAAAGACGACACTGCCCACAGTAAACTGGCCATGCTCACATCAATTATTAATCAAGGACATACCCATAGGT
TTACCTATGTGCCAATAAGATGGAGATATTTTCTCAGCTGAGGCTCCTTCTTCCTTAGAGGACTCTAGCTTCTGTCCTATCCCACCCCACCCCC
AATATAAATAAAAACAGGGCAGGTGTTTAAAATGGATTAAAATGGTTCCTGAGTGGGTAGTGTTTCAAGCTTTTCCCATAATATTCAAGCTTTC
TTGCTGTCAGTATGAACAAAACTGTGTCCTAAATATTTGACATGTCTCATGTCTCTGTGTATCTAATTTAACTTGGAATAAAAAAGAAACCCGT
CAGAAGCAGGTCAGATCAGTACCATCTCTCGGGTGATAAGAGAAGAGCTGGGGAGTCTGGTCATCCAGGTGTCCCCAGGGCTGAGTTGTTATCT
GACACTCATGGTATTCCATTGCTCAAGCATTGAGATCCTCTTTCTTATTATTAAGTGTATTATATTTTAAGCGAATGTAGCTTTAAAGCTCTAG
TTGGTCACCAAGATTTTTTGTTTCTGTTTTTTCTTTTCCTTTATCTTTTCTCCAGGCTCCTTGTCAGCGCCTCTCAGGATGGAAAACTCATCAT
CTGGGACAGTTATACCACAAACAAGGTGGGCAGTGCAAGACCCTCCCTGGAACAGTGACAGTCTGTTCATGGAGCAATGATGACCTCGGAGGGT
GATAGAAGAGCTTGTGTTGCTGACCCATTGAGCTTGGCACACAGTTGTGCTGTGGTTCCTGTCTTGGCATGTAGATAGGAGCTGAGTGCTTCCT
TGTCCTTGCACAAGAGCTACACTCCACTCCTAGTTTTGACTGGAAACTTTCCTAATTTATTACTAGAATACTGAAATGCAGATTCCATTTAGTT
AGTAGTTTGTTTTGTAGTAACAAGAGATAATCTAAGATGCACTATACTTTAATGTTTAGTGGAGGATTGGGAATGTAGCTCAGTGGTAGAATAC
TTGTCTACTGGGCATAATTCCCTGGATTTGATTCCCATAACCAGAAAAGATAAAAAACCAATGTAACCCAACAGATTGGTAAAAGTCTGTGATT
CTAGTAACTCAGGAGGCTAAGGTAGGATGATCGAATAAACCCAGAGGGCAAACCTGCCATGGCTAGATAGGGGAAAGGAGAAGACAGAGATACT
AGGTAGAATGTTTGCCTCATAGGTACAAATCTCTGAATTAAATTTCCACTTCTCTTATATTGAAATAAATTACACTGGGTATGGTGGTACATGC
TCATAATCTATCATTTGAGAATGTAAGCAGGAGCCTCAAGCATTAAAGATTATGCTTACCCACATAATAAAGTGAAACCAGCCTGAACTACATG
AGACCTTGTCTCTAAAAAATAGTATTCACAAAAAACCAAACAAACGGGGCTGGCGGGATGGCTCAGTGGTTAAGAGCACCGACTGCTCTTCTGA
AGGTTCTGAGTTCAAATCCCAGCAACCATATGGTGGCTCACAACCATCCGTAATGAAATCTGATGGCCTCTTCTGGAGTATCTGAGGATAGCTA
CAGTGTACTTACATATAAATAAAAAAAAAAAAATTAAAAAAAAATTTAAAAAAACAAACAAAAAAGAATACATTTAAATTCTGAGTGGTTGCAG
TGGCCAGTCTATAATTCTAGCATTTGGAAGACAGAGACAAGGAATCCACAAAGCAATCTGGTTATCTAGACCTACAGACGAGCTCTAGACAGTC
CTGAGGAACACTGTCTCACAGAAGAAGGTGGAGAGCAGTCAGGGGAGGGCCCGTGTCAGCCTCAGCCTCCGTGTGCACAAGCACACATGCGCAT
AAAGTACGGGGAGCCGAGCCAGGCGTGGTGATACACGACTTTAATCTCAGAAGTTGGGAGGCAGAGGCAGGTAGATCTCTGTGAGTTAGGGGGC
CACCCTGTCTATAAAGTGAGTTCCAAGACAGCCAGAGCTCTAGAAACCCTGCCTGCAAAAACGAACGAAAAGGTGCAGGGCTGGAAAGATCGCT
CAGTCACTGCCTGATTTTTCCAGAACGTCTTGAGTTTTATCCCCAGCGTCTGCGTAGTGGTTTGCAGCCTTCTGTGTGTCAGTTAAAGGGGAAC
CCAGAGCCCTCCCTCCTTTAGCTTTCCAGGCTCTGTACTCAGTTAATCAACAGTTAATCAAATGTTCCTACAGATAACATGAAATTAAATCTCA
AGACAAGTTTTAATGCTGTCATCAATTAAGGAAAAAAAATTGGACAGTTGTATTTTCCCTCAAAATTAGTAAATACATGCCAAGATTACAGAAT
GTTAACTGCTCTATCTAAACAGCAAGACTAACTGTGTTACCAATGTGCAGTTAGGTTATTGCATGTGTGTGTCAGAGAGAATGAATATGAATGA
GTTCTGCCTCAGCTTCTTTATTGCTGGGATCGGCATGAATCACCATGCCTGGCTGTTTTTTATGTGCTTGTCTTTGTTTTTTTTTAAGCTCATA
GCCATGATAAATTAAAGGGGAAAGTAAATCTTTTCAAATCCTATTAACATCACTCCTTAAATCATTAAAATGCAAATATAATTTGTGTTTTCTT
TGAGATAGTTTTCCATTATGTATAGCTCAAAATATCCTCAAACTTGCCATCGGGGCTGGTGATATACACCCTACTGGACAAGACTTTTGAGTTC
AAGTCTCAGAACCAAAAAAGACAGACACGACAAAAAGCCCTCTTTTTCTTTCTCTAGCTTTCCAACTCCTAGATTCACTGACGTATGCCATCA
CACCTATCTACTCATTAGGGTTTTTTGGTTTGGTTTGGTTTGGTTTGGTTTGGTTTTGTTTTGTTTTGTTTTTTGAGACAGTTTTA
CTATGGAGCCCTGGCTGGCCTCAAATTCAGAGATTCACCTACCTTTGCCTCCTGAGTGCTGGGGCTACAACATAAACTATACACCCAGCTGTAG
TCATATTTTCTTGAACTTAATAGTGTTTCCTGTCTGTATTCTTGTTATTTAGGTTCATGCCATCCCTCTGCGCTCCTCTTGGGTCATGACCTGC
GCATACGCTCCTTCTGGGAATTATGTGGCCTGTGGTGGCCTGGATAACATCTGCTCCATTTACAACCTGAAAACTCGTGAAGGGAATGTGCGTG
TGAGTCGTGAGCTGGCGGGACACACAGGTACACATCTCATGTTCCAGTGGTGTAAGCTGCTAACTGGGATGTATACTGCTCTTGTGATCTGTTG
ATTATTGGTTCAAGTAAAAGTGAAAGTAACGGCCAGAAATTTTCTGAAAGTGAAGCCAAACCAGGGCCAATATGCCTTCATCTTTAAGAAACAT
GGAAACTGGTTTTTTAGCCAGTTTTCGAATTCCCAGCTGCTTCAGCCATTCTTGTTTATCAACGAATTGATGTTTCAGTCCTGTTTTTAAACTG
CCTTCCATGCTTGGACATTAGCACAGGAATTCTCCTAGTCTAAGCAAGTGTCCATATGCACAGCCATATCTGTTTGTGCTCACTGACCAGTGCT
TTTTTAGAGGAGGCCGAAGAGAGTCTGTGGTCCATTCACCTTTTGAATGTAACCAGCATTAAAATGTTGGGTGCATATTTTTGGAATTCATACA
ACACCATTTAGGACACATTGCCTTTCCAAGGAAGAAAGTCTCATAGTATTTTCTATCTATCCTGTCCCGCAGTGATAGGTAAAACACTCTTCGC

SAGRES DISCOVERY 02-40

ATGTAAGCAAAGGATTGTTCATAATTAACTGTCATGAAGAACATGGCAGTTTTGTGTTTTAACCCTTAGGGTCAGGTAGGATTGCATCCTTTGG
TGCTTCTTAAGTTACATTGCCAGTGTTTATAACTACTTCAGGAATGCTTGCTTCTTAATATTCTGGCTTTAGCTGGAAGCATAAGCCACCAGTT
TTAGATCTCTTCTTTCTCAAATATATGAACTTAAAAGTGGCCAAATCCAGGCTGGGAGTGGTGGCGCACGCCTTTAATCCCAGCACTCGGGAGG
AGGTAGAGGCAGGAGGATTTCTGAGATCGAGGCCAGCCTGGTCTACAAAGTGAGTTCCAGGATAGCCGAGACTATACAGAGAAGCCCTGTCTTG
AAGGGGAAAGAAAAAAAAAAGGCAAAATCCATACAGGCATGGCTTCCTGTAAATTTTGATCAGTAGTATTTAAATTACTCTTCTAGGGGCTGGC
GATGTAGATTCGTTGGTAGAGTATTTTCCTAGCACACACAGTTCTAGGTCTATCCCAGCACCATAAAACTGGACATCATGATAATTTGTAATCC
CACCTCTCATGAAGTGGAGGTAAGAGGATGGAGAATTCAGTGAGTTTAAGGGCAGTCTGGGCTATATGAAACCCTGTCTTAAAAAAGAAGCATG
GTATAGTTCTCAAGTATATGATAGAAAAAGAAAACAATCGGGGAGAAGTCTCGGTGACTAAGAACAGCCACTGCATAAGCACAAGGACCTGGGC
TCCATCCCAGCGCTCACAAGCAGGCCTGGCGTGTGATAATTTCATCATTGTAGGCTGACTCCAGCCTCGTTCAGTGAGAGGCCCAGTCTCAACG
GACTATAGCAAACAGTGATAGAGCAGGATATTCAATGTCTGGTGTCCTCTGTTAGTCTCTGGATAGGCATACACCACATACACAAATACAAGTA
AGACGGATATCTAAAAATCCTTGGGGGGGGGGGGGTCCTGTTGAATTTGTATTAATTTTTTTAAAGATTTATTTATTTTATGTATGTGAGACAC
TATGGCTGTCTTCAGACATAGCAGAAGAGGGCATCAGATCTCGTTACAGATGGTTGTGAGCCACCATGTGGTTGCTGGGAATTGAACTCAGGAC
CTCTGGAAGAGCAGTCATTGCTCTTAACCGCTGAGCCATCTCTCCATTCCCCCTAAAATATATTATTTAGAGATTTGGAGAGATGGTTAAAAAC
ACTGGCTGCTCTTTCAGATGGCCTGGATTCAGTTCCCAGCACCTGCATGTGCCTTACAGACTTCTATATGTAATTCTAGTCCCAGGGAATTTCA
TGCCTTCTTCTGGCTTCTGTGAACACCAGACATGCTTGTGGAATACAGACACACAGGCAGTCCTGGTTTTATTGCTGTGATGTGACATCATGAC
CACAGCAACTCTTAGAAAGGAAAACATTTCATTGAGGCTAGTTATATAGCTCAGAGGTTTAGTTCATTATTGTCATGGGAGGAAGCATGGCAAC
ATGCAGACAGACATGGTGCTGGAGAGGTAGCTGAGTTCTATATTTGGATTCCCAGACAGCAGGAGAGAGTGACACTGGCCTGTCTTGAGCATCT
GAAACATCCACCCACCGTAGCCCTCTTCCTCCAACAAAGCCGTTTCAACAAGGAGGTGTTCCTAATAGCACCATTCCCTATGGGCCCGTGGGGG
CCATTTTCATTCAACACACCACACAGGCAGAAAATTCATATACATTAAAAATTTTGGGGCTGGAGAGATGGCTTAGTGGTTAGGAGCACTGACT
GCTCTTCCAAAGGTCCTGAGTTCAAATCCCAGCAACCACATGGTGGCTCACAACCATAGTAACAAGATCTGACATCATCTTCTGGAGTGTCTGA
AGACAGCTACAGTGTACTTACATATAATAAATAAATAAATCTTTAAAAAAATTTTTTTTTGAGAAATATTTAACTTACTAGTTTTTAGCTAATT
TTAAATTTGAACTGGTGGTCTACCAAGACATCATGCTATAAGAAACAGAAACTGTATTATCTGGTTGTTGGGCATAGTGTGTGTCTGTCTTTCC
ATCAGAAGGAAAGAATCTACATCTGTGTATTTCAGGTGTTGCATGTACATTTATTGCTGCTGTCTGTATCTCCTTGAATGATCGGTTGTTTTAT
CATGGCTTAGTATCCCCTCTCATATAATACTTTACTGTGAATCTACTTCATGTGGGGTTTTCAGCCAGCTCAGCCTCAATGCTCACTGTCTGCA
TGACATTTTTTCTTGTTGATTGTTTTTCTAATAAGTTGTCTCATACACAGCATAGAGTTAAGTCTTCACTTCTGTTTAAAGTCTCTGCCTTTAG
GAGCTGGGAACGTAGCTCCTTTAGGAGCTGGGAAAATAGAGTGCTTACCTACCATGAATGAAGCTCTAGGTTTGATCTTCAGCCCAGCATAAAA
CCAGATCTGGTGATGTAGCCCTGTAGTTCAAGCACTTAGATAGATGGAAGCTGGGAGTTGAAGGTAATCCTTTACTGTGTAGTGAGTTTGAAAC
TGCCTGAAGTACACGAGAGGTAGCTTTTAAAATAAATGGTTGGGGCAAGTCCTGTACCTTGTAAATACTTTACATATAGTTTCTTCTTGACTTA
TAATGAGGTTATATCCAGAAATATCAATCAATCAATCAGTCTCTCTGTCTCTCTGTCTGTCTATCTGTCTATCTATCTATCT
ATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTAGGGTTTCTCTATATAGCCCTGGCTATCCTAGAACTCA
CTCTGTAAACCAGGCTGGCCTTGAACTCAGAAATCTGCCTCCCAAGTGCTGGGTATCCAGAAATCTCTTTAATGTTTAAAATATTAGCCACTGA
ATTATGTTGACTCTGTCTAGCCTGCCATCCCACATCTTCCTCATCTTATATTGACCAGGCTGGCCTGAAATCTGCCTGCCTCTGCTTCCTGGGT
GCTCAGATTGAAGTGTGTGCTGCTTCGATGGGTGTATAAACTCTTTGTAGCCTAGGACATTTGAGGCTGCTGTGTTACATTCTTACAGTCCTGA
CAGAGAGCTTCAGTTCATTGCTGATAACCAGTACCCTGGGCAGATTATACATACCACTTATTGATAGGTTGAAAGAATTGCATTTAAAATTTGA
AGTTCATTTGCACTAAAAAAATCCTAAGTGTTGCTTTGGATGTGGTTGGAGTTGGTACTTAGGGTGGTTCTCTCTCCCTCTGCTTTCTTTTCTG
CTGTCTGTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTCTCTTTCTTTCTTTCTTTCCT
TTCCCTCCCTCCCTCCCTCCCTCCCTCTCCCTCTCCCTCCCTCCTTCTCTCTCTTTCTCTCTCTCTCTCTCTCTCTTTCTTTCTTTCTT
TTCTTTCTTTCTTCTTTTGGGTTACTCTGTTTCTAGCTCTAGCTTGCTCCAGCCTCTGCATTCTTTTCCCTCTGCCTCCCCAGTGCTGTAATTA
CAAGTGTGCACCACCATGCCTGGATTCAACATTGTGTTTGAAGAGTTGTATAGGCTCACATGCACTCAGACAAACAACGTCCTCATTTCCAGTG
CTGTGTACTCCTTCCTGGGGGGGCATCTCTTTTTCTGGTTTCCTGTATGCCAAAAAGCTACTCCCTCATAACACCTACAGTTGTACATTTTGCC
AGTCCCTTTATGTGCTATTTTTTTTAATGTCTGTATGTTTGTTCAATGAAATTTAATTTACAAATTAAAGAAAAGAGATTAACAGTAAGCAGTA
AGAAGGTAGTGCAATATAGCAATACACTATAATTAAGTTTTTGTTTTTTTTTTTTTTGACTCATGGCACTGAGAATTTTATTTATTTATTTATT
TATTTATTTATTATTTTTTAAAGATTTATTTATTTATTATATGTAAGTACACTGTAGCTGTCTTCAGACACTCCAGAAGAGGGCATCAGATTTC
GTTACGGATGGTTGTGAGCCACCATGTGGTTGCTGGGATTTGAGCTCATGACCTTCGGAAGAGCAGTTGGTGCTCTTAACCACCGAGCCATCTC
ACCAGACCTATTTTTTATTTTTTAAGGAATTATTTGTTTCTGGAATTTGCTTGGTTTCCATGGGTTAACTGAAACCAGATGAGGCTGCAGTGGT
TAGAGTAAACTGCTTGTGAGAAGTCTTGATTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAAAGATCTGTTTTATAGTAGTAGTAGTAGTTGTTGTTGTT
GTTGACAGGGTTTCTCTGTGTAGCCCTGACTATCCTGGAACTGGCTCTATAGATCAAGTTGACCTCAAACTCACAGAGATCCATCTGTCTTTGT
CACCACCTTTGAGTTAAATTATTTTTATTGCTTTTATTTATTATGTGGTGGGGGTCAAACATGAGGAGATCGAGGATGATTCTATAGAGTTAGTTCT
CTCCTCTCATCTCTGCATGGGGTCTGAAGATCAAACTCAGTAGGAAGTTCCTTTACCCACTGATTCATCATGCCAGTCTTTGACTTTCATGTGT
GTGTGTGTGTGTGTGTGTGTGTGTGTAATTAAGAGGACAACTTGTGGGAAGTTGGCTTTTCTCTTCCACCATGTAGGTCCTGCAAATTGAACTC
AAGTAATCAAATGGCAGCAAGCACCTGTACACATGGTCCCATCTTGCTGGCCCTTGACCTTTATTCCTGAAGGATAGTTTTGCTGGACATACAG
GATTGATGTCACCTTACATACAGTTGGTGTCACCTTCATGTGTATGTGTGTTTCCCCTGCATAAATGTTGATGCACCACATGCATGGCTGATGC
CAGCGAAGCCAGAGTGAGGGTACTGGGTTTCTCCTGGAACTGGAGTTAATAGTTACAACCCATCGTGTTGGTGCAATGAATTGAATCTGAGTCT
TCTAGAAAAGTAGCCACTGTTCTTAACCACTGAGCCATCTTCTCAGCTTTCAACATTTAAAAATATAACATATTAAAGGTGTATCTTTGATTTT
TGCAGTTTGATGGTGATATTCCTAGACGTGTAACTTTCTTTATATTCTTGTGTTTGGCATTTGGAACTCACTAAAATATGTCTTTTGCTAAATC
GTAAGGTTTGAGCTGTGTCTTCCAATGCCCTGGTTTCTATGGTTTTGGGGTGAGCTGCTTCAGTTTCCACTTCCTCACGTGTTTTGTTTCTATT
CAAGTCAATTCAGTTGACTTTGGTCACTAGACAACAGCTTTCCTTCTTGTTAGACCAGCAGTGAGCAGCATTTGAAGGAAGCTCAGCTGGAGTA
GACGGCAAGGGCACAGACTGGGCTGGGGAGGCATGGAGAGTGCTCACATAAGTGTCCACATTTGTGTCACATGGTCTCTTCAGATTCAGAATTT
CTGTGTTTTTATTTTAAAAGATCCCCTCTACAAGCACTGAGGCTTTATGTCTTCTTATTTATAAACAAGATTATTTCTCATGTTTCTGAATATA
ATTACAAGAGCTAAATGTAAAATGTCAGCTAATTGTAGCATCTGATCTTGAGGTATATCTTTGTGGTCCTTTCCCTCTTGAGTGTGGATCACACT
TTGCCATTTCTTAGTGCACTTGCAGCCTTGGCAATATAATTGTCATAGCAACCGTGGGCTCGTTATGTTCCTTTCAGATGTCTGTTCAGTTTCA
TCAGGTTAAGAAACACATACATAGCAGCAAAACTCTTACTTGTCCTCCTGTCACTGGAGCTGTCTGTGGGTTTGCTTGCTGCCTGTGTGCTGTT
GCTGTTAACTATTAAAGTGCCTGTCTGTGTAAGTTAGGACTGTTGGAGGCTGCTTTAGCACTTCTCAGGGATGTTCCAGCAGACTGGCTGATCA
TCCAACTGTGTAAGACAAAACCATTGAAGTCCGTTGAAGAACAGGCGGTTGTCCATTTACGAGTTTCCTATGCCCTCCAGGGTCAAAACTTAAT
AGAATGTATAGGCTATCTTATAGGATAAGGAAACCCTAGAAATGGATGTAATTGGGTTCACAATAACTGAAAGAGTGTTCATTATTACTATTTA
TATTATTATTTATAATTTATAGGTAGAATGTATATTCTTTTTTTTTTTAATTCAAAATAATTAGCCAGGTGCTGTGGCATACTCCTTTAGTTCA
GCACTCAGAAGGCAGAAGCACAGGACTCTGACTTCAAGGCCAGCCTCATGTATAGACTTGAGTTCCAGAACAGCCAGGGCTACAAAGAGAAACC
CTGTCATAAACAAACAAACAAATAAGACAGGCACATACATATGTACATGTGTGTGTGCGCATGCGTGTACGTGCACTTTTTTTCTTTTTTTTTT
TTTTGAAAATGTGACTGTTGCCTAGATACTATTTTTAAGGCGACTGGAACGTAGGCACAGATTGGTCTCAATGCTAATCCCTAGGGACTGATGA
AGAAAGAGTGGAAAGGTGGCCTCAGAGCTGCTGTTTTGAGACCTTTAGTTCTGGTCCCGAGGGCCATGATTTGCCTGCCCTTCTGATGTAACAT
GGCGTTGCCATTTAGTATTGTGACCTCGTAGAGTGAGTAGCTAGAACATTCTGGTGTATAATTTTTTTCATCTAATGAATAATTGGGTGTTTTA
CATATTTATGAATACAGTGGGTTGTCTTTGGGTTTTTTTTTTGTTTTTTGGGGGGCTGTTTGTTGGTTGGTCTGGGTTTTTTTCTCCCCTCCCT
CTGAAGAGTATTGGTGACCTTGGATATAGAAAAAAAGATTCTGTCTGTCTGCAAAGTCAGCTGTGAAACACAGAGCTGGTCAGTTACTTACTTC

TGTTACTGTCGTCTTGGTGTCCCCTCCCTCCATGTCACTCCAGCAAAAAGGAAGTGCTACTTTCAGGGCTAACCACACAGGCAATTGCAGCACG
TACCTGTGCACAGAACCCATACATATCAGGGAAGTTCTCAGTGTCCTGCCTTGTTGAGTGAAATTTTTTTTTAAAGATTTATTTATTTATATA
TGTAAAGTACACTGTAGCTGTCTTGAGCTAAGACAGGATCACTGCTACAGGATCACTGTAGCTGTCTTCAGACGAACCAGAAGAGGGCGGGTGG
TCGTGAGCCACCATGTGGTTGCTGGGATTTGAACTTCGGACCTTCAGAAGAGCAGTCTGGTGCTCTTACCCACTGAGCCATCTCACCAGCCCCC
ATTGTGTGAAATTTTATGTAACCATTTATAATTTGTCCCTTGGCTTGGCAGATTTTACTCCACTCTGGCAGAACTATGTGACTTTCAGATATCA
GTCTTTTCAGTTACTCATTTTCTTCTCCCTCAAAATTTTTATTGTATTTTGAGGCAGTCTCGCTGACCCCTGTTCCATCCACAGCTTCTAGAA
ATCTTTCCAGTGGGTGTCAGCAGAAACATAGCTATTCTGTGCATACTCCATATCACAGCTCTTGAGAAAGCAAGCGCAGTCACCCGTATTTTTG
GAGCCTTCCCACTGGATACTTTCAGTGTGCTTGCTGTTCCTCTAGTTGGCCTGTAGCCCTTTCTCCCTTGGTTCCGTCACTATCTCCCTTCTCA
TTGGTTCTGAGCTCCTTTGTGTCCAGCTGCTCTACTCAATAAGTAGATGAGCACACAAATGAGGATAAAAGGAAATGGAAAGACACAGGTGGAA
GGATGAGGTGTTCCCAAGGCATAGCTCACTGCTATGTGCTGTGCAGGTGTGGGTCCGTGTGAATCATGAACCCATTGAGTCTGCCTATAGTTTC
ACCCATCCCGTGACAGACGTTCTGGGCATTTTTATTAACGTGGTTTTCACAGGGAGAGGCTCCTAAGATTGAGACTTTCTAGTCTTGGTTATTT
ATTTGTGTCTGCTCTTTTTCAGGTTATCTGTCCTGTTGCCGGTTCCTGGATGACAATCAGATAGTTACCAGTTCTGGAGACACCACATGGTGAG
TACCTGACAAGGCAGCAATTGAGGCTTGAGGTCTGTCTACTGTTCTTGTTAATACTGGTTAGTAGGGTTACTTCCCATTGCAAGATAAATGCTT
CTTGATCATAACCTGACAATTAGAAAACAAAGTATCAATGAGTAACTCATTGCATCATCTGTGGATATGCAAAGTTTGATTTTGAACAAAGAAC
TAAAATGTAGATATTTAAACTATAGTTGTATATCAAGTACCTGGTTTTTTCTCCATTTATTTTTACTCATGTATGTGGTGTTTTTAGCCCTGTG
GGGTTCTTTTTCACTGTAAAAGTCAACTTAGCATATTGTGAGAATGAGTAAAGCTTTCAAACAGCAGCTCTGTCAGATTTGTTTATTTTAGAAT
GTTTGCTTACTAGTAGATGGAGACACATTCAAGTAATTTTTCCCTTTGTTTATTAATGAAATGACCAGCTGGTTATTTTAAGAGAATCATTTTA
AACTTAAGCTGCCCTTGTGGGTTTTTCTGGTCGTGGGAGACATTCCTGGGAGGTCAGTAGCAATATTTTAAATTTGATTTAGTAGCATGGCTTA
CAGGCTGGTGAAATCCAACAATGGACTATTGATGAAAATGTTAGCCAGGCGTGGTGGCGCACGCCTTTAATCCCAGCACTCGGGAGGCAGAGGC
AGGCAGATTTCTGAGTTTGAGGCCAGCCTGGTCTACAGAGTGAGTTCCAGGACAGCCAGGGCTACACAGAGAAACCCTGTCTCTAAAAACAAAC
AAAAAAACAAAAACAAAAACAAAAATGTAGTCAGGTGGACAGTGAAGATTAGTCATTACAAATTTCAAATTGCATGTGTTGATTATTTTCTTGG
TTGAAATATGTGAAACTTTTGTGCTCTGTGCTTCTTCCTTCCAGTGTCCCTCATGCCTAGCAAAGATAACCAGCATTCATTGTAGTGAACTTGG
TTGATTGGATTGGTGTTGCTGGGTGAGACAAGCTGGTGAGGTTGACAAGAATGGACAGTGTATCATGCTGTTGCTTCTGCGGGTTGCAGCAGGA
AGTAGCCTGACTGCCATTTCCATAGCCAGCTCCCGCTTTATGTAATGCTGATGATATCGTGGCTTTTAGCCACTCTGTCAAGCAGAGGCCCTTG
GAAAACCTTGTACATCCATGAAGACCATCTTTGGTTTATGGTCCTCGTTGCAAGAGGAGTTGGAGCATCAGTTTCTCTGAGCCACTTATTTACA
TTCCTAGTGTCTAGGAAGGTGGAAAATGAGGGGATGGAAAGAATAACACAGGTGAAACAGGCTCCTTTCTTTCAGACCTTAGCATTTTCTGCCA
TCCCACAAACTGCCCATGATTATCTTGTGTGAAGGACAGTGGCTCCTTTGCTGTAGTGTGAGGTAACCTGGAAACAGCAGGCCCATATGCTCAT
CCATATGGTTGTTTATTGTTTTCATTTTCTTTTCCTTAGCAAAATCTCATCACAGAAGTAAATGTGTCTTCCCCGTGGCACAGAAGTCATCTGT
GATTCTGGGTAGTATAGAGGATGTTGTTCTAGGTGATTGGTCCCATGTGCGTGCCTGATACCTACTTTTCATTTCTTCCTGCACCAGTGCCCTG
TGGGACATCGAGACTGGCCAGCAGACAACCACATTTACTGGACACACTGGAGATGTCATGAGCCTGTCTCTTGCTCCTGACACCAGACTGTTTG
TCTCTGGTGCTTGTGATGCTTCAGCCAAGCTCTGGGATGTCCGAGAAGGGATGTGCCGGCAGACCTTTACAGGACACGAGTCTGACATCAATGC
CATATGTGTGAGTTTAAATTGTCTGCTTTAGATCTCAACCTTTGTTGTTGTTGTTGAAGATTTGGGTTTTTTTTTAGGGTCTGGAGAGATAGCA
TATTAGTTACTTTTCTGTTGCCGGAACAAAAACACCATGATCAAGGCAACCTAAAGAGAAAAAACATTTCATTGAGGCTTACAGTTTCAGAGGG
CGAATCCATGTCCATCACTGTGAGGAGCCTGGCTGCAAGCAGGCAAGCATGGTGCTAAAGAAGTAACTGAGAGCTTCATCTTGAGATATAAATA
ATCACAAGGCAGAGAGTGAGTGAGCGAAAACTTGGAATGGCATGGCCTTTTGAAACTTCAGGCATCCAACAAGGCCATACTTTTTAATACCTCC
CAAACAGTTCCACGAACTAGGAAATGAAGTGTTCAAACTTGAGAGCATGTGGGATCCATTCTCATTTATATTTGTGTCTGCCTGTCTGTGTATC
TGTATCTGGGTGTGTGCATGCGTATTAGAGCCAAGTAGGCTGTTAGGAGACACCTGATATAGATTGGGTGAACCAAACTTGGTTGTAGTAAATG
GCTTTTAAAGTACCTTTAAAGTACCACTACCTTTAAAACATTTTTTTCAAAGTTTGTTTTAAAATTTGTGCTCTGGTTTTTTGTTTGTTTGT
TTTGTTTTTTCTTTGTGTTTATTCTGAGAAAAGGTCTAGTAGTATAACCTAGGCTTACCTAGAACTGGAAGTCTCTCTAGCACTAAGATCACAG
GCAGGCCTTTCTACCAAACCAGGTTGTCCTTTTCTTTGCAAATACAACCAGAGTCAGAGTGTTTTAGAAGCAGCTAAAACCCTGTGCTGTGCAT
ATATTTCAGACACTGATGAAGCCATTAGGTGCCAGCTCAACTCTTCCTTTTTTTTAAGTGACCAGTAATTTAGAGGCTGAATATCTTGCCAGCT
AAGGGAATGGCAAATTTAGAACTTACTTTCTTGCTAGCACCTCCTGAAGAGATGAGTCTGGTGACTAGAGCAGTGACTTGCTCCATCCTCCACA
AGTCCCTCCTGACAGCTCGTGTCCAGAGGACAGAAGCCCTTCAGCAGTGCCTCAGTCTCATTGCTTTTCTGTACTGAAGTCTGCCTTGTTGACA
GTGGCAGTCCATGAGTACTATGTCAGTACCCCCCTAGTACATCCCCCATTCACTCTAGGATGACAGCCCTTATTCTTGCTGGAACATCATCCTG
TTTTCCTTTCCATGGCAGCCATGCCTCTGCATTAACATCATGTCTTGTTGAACATTTACTTTTATGTTAGTATATATAATTCAGCTTGACCTTG
AATTCACTATGTGCCTGAAGGCTGTGTACTCTATTCCATGGTTGATTACAGATTACTACACTTTTTAGCCTCCTGTGCTTGTGCCTGAACTATG
GGCCTTACCCACGCCAGGCAAGTGTTGAATCAGCTGGCCTGTGCCCCAGGCCTCATTGTTTACATATGTCTTGATTTGTCTTCTCTTTTTAGTT
CTTTCCCAATGGCAATGCCTTTGCCACTGGCTCAGACGATGCCACATGCAGGCTGTTTGACCTCCGTGCAGACCAGGAGCTCATGACCTACTCC
CATGACAACATTATCTGTGGTATCACATCTGTTTCCTTCTCCAAGAGTGGCCGCCTCCTCCTTGCTGGGTATGATGACTTCAACTGTAATGTCT
GGGATGCACTCAAAGCTGACAGAGCAGGTCAGTGGCCACATGGCCTTTCTGTGTTTTGGGGGCACCAGCTTGCTTCTTTCTATGTGGTAAAATG
AGGTTCAGATGAGCTGAAATGTGTACATTTGTATCATCAGCTTAGTTATGTCATAGCTCAGCAGAGGGGACAGTTAAAGGCCACATAATTTGAG
CTCTGGCACTCCAGGAAGTACCAAAAGCTCTCCTGTGAGGAGAATGTGGGAGTTGATAGTATGCCAGATACCACTGAGTTCAATGTTCAAGTTT
CCCATTTTGTCCTGTGGGTATCCATGGTTAGCCTAAAACACTCTATTAGACCAGATGTCCTTGAATTTAAAAGTCTTCTGATTCAGCCTTCTAA
ATACTAGAATTACTGGTGAGTACCATCAATTTTCAATCTTTCTGACTCATTCTCTGTAGTCACTTAGCTTCTGACATATTCCACCATGGACAGC
TCCATCTTCAGCTGTCTGAGCCTATCTATACAGCTTTGGCATCTGATGCCATGCCCCTTCGTCTGTACAAGGTTGTTGAACACTGTGCTGGTTG
CTGGTAATGATTCAATTTAAAGCCTGAATTTAATATGTCAGAATCAAGTGGATTAAATACAAGCTGGACAAAAGATTAGAAAGTTTTTGTCTCA
AGAGTCTCCCTTTGAGCTCAAGCTGGCCTTAAGCTTCAAGTTGAAGAGCTTTATTACATTCAACAAATCTGCTTTGGAGGAGGGAGGGAGGGTT
GTGACCATGAATCTCGTGGGTCCCACTGTGGCTGCTTATAACCCACCAGACTACTGAATTGAGGACAGTTTTGGTGGCTCACACATTTAATCCC
AAGTCTCAGAAGCATGCAAATTCTGTGAGTTGTAGGATAACCAGGGCCTGTCTCAAAAATAAAAATCAACATTTCTGCCTTTGCCATTGTAGCC
CAGGAAGTTGACTCTGAGTTTAAGAGAACCTTCCAGCCCTTGTTCTTAGTTGGTACATCAATAGCTACAGGACTAAATGTTTCTGAAGTTTCAA
ACCCTTCTGTGAGAGAAGGGGTGTTTTAGCAGGTGATGTGCCATGTGACAATGGGTCCATGATTTCAACTGTAGGCTCTGTGTACCCTGTGGTT
AGTTGTTCTGAGTTTACTATTCAGGCTTTGGTTTTTGGGTCATTATGTTTTGTTTTTTTTAGAGATTTATTTATTGTAGCTGGACAC
TGGTGGGTTATACTTTAAATCCCAGCACTTGGGGAGGCACAAGCAGGCAGATCTGAGTTTGAGGCCAGCCAGGTTTACAGTGAGTTCCAGGACA
GTCAGAGCTACATAGAGAAATCTGTCTGGTGGATGGGGTGGATTTATTTATTTTATCAATATGAGTGTTTTGCCTGTGTACCTGCAGAGGCTGG
AAGAGGGTATTGCATTCCTCTGGAACTAGAGTTACAGATGTTTGTGAGACGCCATATGGGTGCTGGAAACCAAGCTCAGATCCTGAGACACAGA
TGGATGTTTATTCATTATTTACTTGTTTGTTCATTTGTATTTTCTAGACAAGGTTTCTCTGTAGCCTTGGTTAGCCTGGATCACCAGATCTGTC
TGCCTCTGTCTCCTGAGTGCTGGGATTAATCCAGCATGTGCGATTAAAAGGCATGCGCCACCACTACCCATTTTTGTATACTATCAGCTTTTTG
TTGGTGTACAAAAATTATCCCAAGGGGGTCTGTGTTTATGTCCTTGTTCTTCTTAGAGAAGAACATGTTATGATTGGTTGCTCTCTTAACAGAA
TTGCCCATACACCTAAGGATCGTTTCTACTTGGATAAGAACCTTCTCCCTTTGTAGTGGCCTTCCCTTGCCCTCTTAAGTGCTTGTTTTACCAA
AGTCTTGTAGCGTTGTTCATCCAGATGAGCCTCCTGCTTTGTCACAGCCTCATGTGTGTTTGTGGTTGTGCTCTTTTTGTTCTCAGGTGTCTTA
GCTGGACACGACAACCGAGTCAGCTGCTTGGGGGTGACTGATGATGGCATGGCTGTGGCAACAGGGTCCTGGGACAGCTTCCTCAAGATCTGGA
ACTAAAGCCAGGAGGTAATGGGGCAGTCCCATTCCCAGGACATGGCATTTTCCTATATGGGTTATAGATTTACAGAGATCTTGTTGATCTGGCA
TTGTAGCAGATCTGCAGTGAAGGCCCTTAGCTGTGATGCAGAGAACAGTGGGAAGAGCTCGGGTTCTTTCTGTGTGCACTGACTCCAGGCTCTG

TTCACAGCAGCAGGTGGATGGATGCCATGGCGACTGGAAGACCATTCCAACCTTGAATCGTTACAGCGATAGCATATCCTATCCAACCATACTA
ACGTGGACACCCACACCTCCCCTCAGAACTTCAAAAGGGCAAGATCTTTTTTCCTTCACTTATTGCTGAAACCAAGAGCACAATTCCCATTAAG
AGAAGGATCTCTGTGCTGTAAACTAAACAAATTGTGCATTTTTTCTGGGGCCATTGTTTTTGGTTTATTTTGTTATTTTGTTTTGTTTTTGTTT
TTTTGGTTTCATTTTGTTTTGGGTTGGTCCAATTTTAAAAGGAAATACTACAATAAAAATGTTAACCAGAAGGTAACCCTGAGTGTGATTGTGA
GAGAGACACGCCTTTTTACTAGTTCATTTGCATTTAAATCAGTGATCCTGTTCTGTGGCATTCATGAAAAACAAGTTGAAGAATTTGTTTATCT
GGAATTGTTTCTAAATATAAGTCATTTGTAGCAAGACTTTGGAAGCATTCTTTCTTAAACATATTCCTTTATGTTCAGTAGTTAAGAGAACCAG
GGCCCACGGCGGTCTCTGACTTGTCACTGATGTTTTTTTTTTTTTTTTGTCCCTGGCTTGCTTTTTTTTTTTTTTTTTTTGTCTCATGTCACAGA
TGACTGTTTCGCACAAACACAGCATAGTGGAAGAAAAAATTTCAGAAGCAAAGTAGCCAAGCACATGTTAGGATGGCCACGAATGCTTGGTCAG
AGTCCTTCCTTCCCTTGCTCAGCAGCGGACTTACTCCCAGCGCCTTCCCTCCCTCCTGTCCCTCCTGTCCCCTCACTGTCCACTTTCTGTTCTT
TCCTTGGGTTTCCTGTGAAGTTGGAGGGACGTTTGTAGTCATGTGACACTAGCCGTCCTGCCCCTGCTGTCAGAGATTTTTTTCTCCAGAGAGG
TGCCTGTCCTGTGCTTGGATAGTCAGTTGGTTATTTGTGTATGAAACAATGTACAAATCAATGTTTTGAAAATAATGATCTCAGACTTTCTAAG
TTAAATTTTAAACAATTTGATTGTTTGCCATATTGGGTGGGGTTACTCTTAGAATCGCATGCTGTAGAAATGCTCTAAAGTGCATATAGGACTC
AGTCCTTAGATGTTCTTTTTATTTTAAGAAATAACCTCTTCAAGTTGTAACCGTGGCGGCTTTGTCCATTACTGTTGCTATTCTGCACACATAT
CGGAAGCAGCAAGCGCTTTACACACTTGAGTAGTGGGATAAGTCACTGTTTTCTTTACTTTACAAAACAAAACAGTCCTGTTGGGAATGATTGC
TGTTGGATTCTGGAAGGGAGGGGAAAGCTGCTCTGCTGCCTCTTTGCCACTTCCTGGAAGCCTTCCTCCCTGGAAGAACAGCCTTTTGCATCTG
AGGCGACCATTTTTACACCATGCAGATCTTCGTGGTTATCATCTCAAAGCCATGTTCAGCAGCAGCGTTTGGACAGCAGTGTTCTGTGGGCCCT
CCCCTCCCCCATATCCTGCACCCCCTCATAGCAGTAGTGGCTTCGCCATTCTGTTTTCTGCAGTGTCCTGTACAAAACTGTGCTGTGACTGTGC
GGTAGGCCTGGACATGGCAAAGAGAATACAGCGAAGCCCCTTCTCTTCCTACCAAACAACTCTGTAGAGCTCTCTGCACCCTGTACCCTTTTCA
CCTTTTGTATTTAATTTTAAAGTCAGTGTACTGCAAGGAGGCTGGATGCAAGATAGATACTATATTAAACTGTACTGTTATTTAAGATGTAATA
AAGCAGTTTGACATGAGGGACTCTGGTGTGATGGTTATTTGAGGGTCATCTTCAGTGTGTGGGGGTTTGCCCCAACTGCTGACTCAACAGTTAT
ATAACGTCATGAGAGACCCTTATAAAAGTGTCAGCTCGGGCTGAATGTAGTAGTACACACCTTTAATCACAACACTCAGGAGGCAGGGCCAGAT
GGATCTCTGAGGTTAGGGCCAGCCTGGTCTACTTTGCAAATTTTAGGACTGCCAAGCAATATAGACACTGTCTCAAGGGACGTGGGGAGATGGG
CTCCTGGGAGGTTTCTGGTATATATCTCAGGTCTGCAGAGCCACATGTTTATCACGACAAGTGGCCTTTCACCCTCAGCACCTGGGCCCTGTCT
GCCGTCTCCTGCTGGACCAGCCAGCTGCTTCGACTTCCTCTTCCTGCACTAAAATGTCTGAGGACCTGCCCCTCCAGAGATACTTTCCTGTTGA
CTAAGCACCATTTCCTTCTCTGTCGATAAAGGTCACTGCATCTTGAAGGAGCGAGTATCAACCCCTGAGTTGTTGGACTGCCATTCCAGCTTCT
GACACCCATTCCACTGCAGTGCCTGCTTCTAAGTTTTATGATAAAAATTTTAATCTTAAGGTTTTTTTTGTTTGTTTGTGGTGAGTTTTTTTGG
TTTTTTTCAAGACAGAGTTTCTCTTTGTAGAACTGGCTGTCCTGGAACTCACTCTGTAGATGAGGCTGGCCTCGAACTCAGAAATCCGTCTGCC
TCTGCCTCCCAAGTGCTGGGATTAAAGGCGTGTGCCACCACACCCGGCTTAATCTTAAATTTTAAGATTATAAAACATAACTGATCTTCAGGCT
CACATCCCCTAAACATTGACTGGCCCCAGCCACCTTGTTTGGACAATGGTAAGCAAACAAATCCATCCAGGGTCAGCGGTGGCCCCTGATACCA
CACATTGTGGTGTGATGGGCAGGTCCAGCAGATGGGATGGGATGGCCTAGTCTAATCCTCTCCTAGTCTCCTTGAAATAAATGTATTTTTCAAC
ACACACATTTTGCAAGTCTTTACCTACCTCAACTTCCACTGAGAATGCAAAACATTTGAGGTCCTTCTGATCTAGAAGGTGAAGCTCTGACCCT
AACTTCAAATTCTCTGGGAGTACATGTCTTAAACTGCTTCTAACCTACCTGACAACAAGCAGGCCCCAAATGGACTGGGGTAGATCTGTGTCTC
AGGCCTGTCCTACTTCTCAACCAACATCCAGGCCGCTGCCCACTTGTTTAACAAGCAGTCATGGAAGACATGTCCACTTTGGATATGTGGGCAG
TATTAATGACCAAAGAGCGTGCAGGCTTCACAAATGCTCAGGCTTACACATCTACATCCACCATTAAATACCACTCATGCTCTGGAAGCTGAGG
TGCCCGTGTGCTCTGTGTGTTGCTGCCCATGGTGGAAGTACACCTGTTGAAGTGCACACAGGCAGATAAGGGGCTGCTGCTATATTTTAGACCC
ACCATGTCTCATCATTTTCCTCCAGCGTATGGGCTGATGCCATTCCATGACCCCAGGATTCCAATTCTTCTGGCCTGTAAAGGGAGCCACCTCA
TTTATTTGCCAAATACTAGAGGCTGGAATCCTGATGAAAGGCCAGCCGGGTCCAGCTTGTGCCGTCCACCGTTTCCTTTGGCGCCTACTCTCTC
CTGCCGCTCTCACTGTGCTCCTGTATTCTCAGTACAACCTGACACCACCAGCATTCTGTTAGACCAGTCCAACCCCTCACCATCCAAGAGCAGC
CAGCAGTCTTTCACCTCTGCCTCTTCACACAGGGTGATCTTGGGACAAGGTGTTTGCTCTGGGAACCCATGAATAGTCTGGCAGGAATTCTATG
AGAACAAAGTGCCTGGTGTGAGATTACAGCTGGTGACTATGTAACCCACTGTTCCCTTGCCTGAGACATTTCTAAGCACCCTAGGCAAGACTAC
TCTGCTTGCTGTATCCAAAACGTGAGTACCTGGCAGCTGTCCCACTGATTTGGCAGAAGAAGGGATAAGGTTGCCCCTCACCCACCCCAGTGAA
GTGACCCTGATGATGACCTCAGTATTGGTCTTTACCTATGCCAAGTGCACTTTCGGAGAATGGACAAGATAACTAGTATCCCATGACAATCAAC
TCTCCTCTAAAATACACTCTTCTGGCTAGCTGTCACCTTGTTTAGGTACTGGACAGCCTTCACAAAGCAGTTTATCCCACCCTGGTCACATGAA
ACCAACTTTCCTCTTAGTACTAAGGCAGGACCCAAAGAGCTACAAAGCCTCCCTGATGCCTGCGCCTGAGAGCTTACCTGAAGGGACACCCCCC
CCCCATGTGACAACCTAACTTTGGGCACAGGCCCATCCTGTTTCCTCCTTGTTCTTCCTCCTCCCTTATCATTTAGCCTTTGAAGAGTAACCTC
CAGGTACTGGAGGCCTGAAGCAAAAATGTGTGTAATTGCCTTGATTTCGTCCTGCTACCTCACTCATCCCATGTGACCTTTATTCTGCTGCTCC
TTGAAGCCAGCCCAAATTAAACACTCTAGGAGTCTTTTGAGTACCCTCTTGCCATTCCAAGCCTTGACCTTGACCTTGGCGACTGTCTTTAGCA
CAGTGGTGGGAATGAGCACTTGGTATCTGAGTCTTCAGAGTTTGATGGGGCCCAGTAAAACATTTCACAATGTCAGCTTTGTTCCTTCCTCAGA
AATGGAGAAGCCACCTGCATAATCTAGGCCTTGCCCCCACTGTGTAAAACAGATTTCCCTAGCAACCACTGGACATCTGCTCTTTTAATTTAAG
GCTACACAGGTTACTTGGTATGTGACCTTGGACTGCAGACCATAGACTGGGTGCCTTTGCAGAAGAATATGACTGCTCCCACTCTGGATGTCTC
TCCAGGTCTGCTGGCCATGTGCCTGCCATTTACCACTAGATACCAATCAAGTGTTATATAATACAATAGCAGCATAGTTACAGCCTTCGGTGGG
TGTGGCTGGCGTTCACTCTGGGGAAGAAGTTAGGCTTACAAAACTCATGAGGAAGTTACAAAATTTAAGAAATCCCCGCAAATTCCCACCATCC
TCCCTACCCACTATTTTCCGTCCCCACTGCATTGATGTGTTCTTTTTGGAAGGACAGCACACAGGTCTCAGGAGTTCCCACCAGAGAACATCCT
GACTGCAGCAGGTATGGGGGGCTGTGGGGAAGCGTGGAGATTGGGCTATACAGGAAGGGCAATAGTGTGAACATCTTAAAACTACAGTGCTGGG
AGTCGGGACTGCGAAAACACCTACTGGTGCACTGTGCACACTGGTGGATATCAATGCACGAGCATGTCCACCAGTTCAGCATATCCCTGGCTCA
GCTACAAAGTCGGTGGCCTCCCTCTTTCCCTCCTTACAGCTGTGGGTGAGGCACGCTATTTACACAGTCGCTTCTCAACTATCAAGACTTTGTT
TTTCTTTTTGAGATAGGGTCTCTAACTATGGTACCCCTGGCTGGCCTCGAATTCCTAGAAATCCGGAGCTCTCATCTCTGGGATTAAAGTAGTG
AACCATTGTATCAACCAGCTGTCAGGTTTGTTACTTTCAGGCTCAAGTCCTTGACAGTTGCCAAAGGGTGTCAGGTCACTGCTGGTGGGCCTGA
GAGCCATATGAGCGCTGTCACCCGAGTTCTGCTTCTGAAAGATACCAGGTCCATGCGCTGGACATTAAGAACAACGTGGGAACAGGAGCCTGGC
ACGAAGCCCACCTTCCCACAAAGCTGGCCCGCGTTGTCCACATGGTCCTGGAGACCTCGCCAGCAAAAAGCAAACTGAGTGTGACGTAGGACAG
GAATAAAGATCAGACCGCGAGGCAAGGAGGCAAAAAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAA
GAAAGAAAGAAAGAAAAAGGAGAGAATCTGGTGGTTTTCTCTGTTGCTGCTGGGACTGAGCTTTTTGCCCCTCCTCGGTTACTCTTTTTTTTTT
TCTTTTTTTCTTTTTTTTCTCCCTCACCCCTCTGCCCCGCCTCCCCTTCCGCCCCGACTCCTCCACCCTTTGGCCCCGCCCACTCTCCCGATCT
TCCCCTTCCCTCCGGCTTAGTCTCCTTAGTTCCGTCCCTTTCCAGCTCTGCCCTCTTGCGACCTGTCCCTCCCACTCTGCCTGCCCCTTCTCCT
ACCCCGTCTGCCCCTCCCCTTTCTCCAACCCTTGGCCCCACCCCCCCGGGCTGTCTTCCGCTCCTTGGCCCCATCCCATTCCGCTATGCCNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCACCCCCCAGCCTCTGATCCTTGGCCTACAAAGGGTTTTGAAAAACCCGAAGTTTGCGTGCA
CGCCTGTGTAGGTGCGGCTGCGCCGCTCTCCCCACGTGCCCTGCAGCGCATGCGTGCGGGCTGCGCTTGCGCACTGACAGCCGCGGCGCAGCGG
GGCTTGGTGGTGCCGGTCTCTGGACCGAGCGGCCATGGGGTGGCGGGCGGCTGGGTCGCTGAGAGCCAGGTAGCAGTAGGGCAGCAGGGACCGC
CTGCTCGGCCCAGCATGTAGACGTCCACGCGGGCGCGCGGCAGCCGACGGTGAGTGCGGGGCCTGGGGTCGCCCTCTGCCCGGCGTCACTGGCC
GGGACCCGTGAAGACAGGGTCACGGCGCCGGCCCTGCCCACCTGCCCGAGGCCGGGCGCTGGTGGCTCTGACGCGCCTCCCTGCGTCGAACGT
GGGTTGCAGCCAGGATGACGCGTGGTCTCGGGGAAGGAGCCTAAGGGACAGGTCTGAAGATCTGGTCCGGCCTTGGGTTTAGGGGGACGAGTCA
GAGGTTCGGGTCCCGGGAGAAGCCATGTAGGCCGCCGTTCTGTTCTAAGCCAGTTCAGCGCGCAGCACCGCAGCCGAATCGGCTCCATTGGTCT
TCCAGTGGGGCCTTAGCAAGCGCCAGAGACCTTGGCATGTGGGCAAAGTAGTCAGACGAGCGTTTTGTAAGCAATCGAGGTGTGAAACTCTCCA

AAACCCCATCGTAAACTTGGTATCCAGTACTTGCCAGGAGCTTCCAAAGTCCTGAAGAGTCCATGGAGATGTTCCTAGAGGCTGCTGCCTCTCA
GGATGTCACACTCACAGGCCGCTTGTCTTGGCCTCTGGCAGGTTTCTTCGTTATGGGAACAGGGCGTGCCCAGCGCAGTCCCAGGATCTGCCTT
TGCTTGGCCAAGATCCGGCGTCTCTTTCCAGCTCTCCCAAGCAATGGGCTTTCTCCTGGCATTGATTCTGAATAGCGACTTGTTTTTCCTTTCT
TGTTTGGGAAACTCTCTGTTTTGGTTCAAAACTTATTCGTTTGGCTTGCCTCTTGAGAAGAGTGTTATTCAAACTTATATTCATTGGTTTCATG
TATCACTGTCAGTTTCCACGGGCCGGAAAGCTGGCATCCTCGCCTTGGTAATTAAAAGCACGGCACCTTCCCTCTGAACGTATTTGTCCTCAGC
AGTGACTTCACTGTGACTTACACTGCCCATCTTGGGCTCTGGGACAGCCACGGGTGCCAATATACAGTATGACCAGGTAGCTTCTTCATTTGGA
GGTGGCATCTCAGAATGCTTCTGCATTTTCTTCTTTGTAGATTTATTTATTAAAAACGATGCAGTTTTATTCATTTTTTTCTTTTTCATCTTG
TTTGAAGTGCTACAGGTCCAGCCCAGATCCTCACACAAGTGCTGTCCCACTGAGCCACAATCCATCCCCCACCCCTCCTTTTGGGTAGAAGTGG
CTAACAGATAAAACAGCAGTACTTAAATGAATAGTTTAGCTCTCTAGGCATCACTTGGAGATGGAGAGAAGCAAGTGGTGGTTTTTTCCTTTTT
TTTTTAATGGGAGTGGACACTTGCTACTCTACTGCTCATGAATGGAAGGAAGAGCTTCCAAGTGTTGGTTTTCTCCTCCTGCTCCATGGGCTCC
ATGGATCAAACCCAAGACATCAGGCTTGGCAGTAAGTGCCTTTGTCTACTGAGCCATCTCTCTGATCCTTCCTTTGTTTTTAGACATAACTTTA
TGTATGCCAAGCTGATTTCTAATTCCCTGTGTAGCCAAGGGTGACTCTGAACTTCTTGTCCTGTATGTTCCTCTGCATGTTGGGATTACAGGCA
TGAACCAAACCATATCCAGTTGGGCTTTTTCTTGTTTTAATGTGATGTTGGGATGAAGCCCAGGGCTTTGTGTGTGCAAGCACTGTACCAACTG
AGCTCTTTTTCAAGCCTTGGGTGGTTTCACTCTTTTTTTTTCTTTCTTTCTTTCTTTTTTTTCCAGGGTGGAGGATGGAGTTCAAGACAGTGTT
TCTCTGTCCTGGAACTCACTCTGTAGACCAGGCTGCCCTTGAACTCAGAGATCCCCTGCCTCTGACTCCTGAGTGCTGGGATTAAAGACGTCCG
GGCACCACCACCCAAAGTCCTACTCTTAATGCTTTTTTTTTTTTTTTTAAAGATTTATTTATTTATTTTATATGTATGATGCACCAGAAGAGGG
CATCAGATCTCATTACAGATGGTTGTGAGCCACCATGTGGCTGCTGGGAATTGAACTCAGGACCTCTGGAAGAGCAGTCAGTGCTGTTAACCAC
TGAGCCATCTCTCCAGCCCCCACTCTAAGATTTACTTTATTTTGGATTTATGTGTATGCATGTGTGTTTGCGTGTGGTTATTATGTGCACACGA
GTATGTGTGCCTTGGAGGCAGGAAGAGGGTGTCAGATCCCTTAGAGTTGGAGTTACAGATGGTTGAAAGCTGCCGGATGTGGGTGCTGGGAAGG
AAGCTCAAGTTCTCTGGGAGCAGCAAGAGCCTTGTAACTGCTGAGGCTTCGCCCTCTCAGGTGTTGGGAATGGATTCATCTCCATCTTTACCTT
GAATCTGTCTGTTTTCTGGTGTCGCAGCAAGAGGGAGATCCGTGCAAAATGCTCAGCACGCGGAGGAGGAGCCTTGGGAGGACAAGAGGGGTGG
GCTTTGATCTCAGGCTCTGCTTTCTAGGACTTGTGAGATCTGTTTACAGTTACCACATGGCTCCTGCCCTCCTGAAGGCAGAGGTGTCGCTTTC
AACCCCAGGAAACCATCCTAATTGTTTGTGATAGTTGCTTAGCTTATCATTGTCCTCTATTCTGATCCATGGCACCTGTCCTCCCAGGGCTACT
GCATTGGGAACAAGTTCGTGAAAACAAATGATCGGGTTAAGGCAGAGACGGTACTAGCAATGTACGCCAGTGCTGTCCACGGTGCAGTGGAAAG
GGCAGCAGCGCCTGACCACTTAGCCTTCTAGACCAGAGTGCCTCTCTTGGGTCTGTGAAACTATTCCACCACTAGATGGGTTCTGTGATCCCGT
TCCTTAGAACTTTCCAGAAACAGCACACTTCTCTGACCTGTCTGCTAGCTTGGGTATCATTTATTTGTAGAAATGAGGTAGGTATTAGGTAATC
ACTAAACCTGGACTCTGTGGCTCACAGTAGTGATACCATCATGTTTGATACAGCAACACGTTGTCTCATAAAACAAATGAACAAGAACTGGAAA
CTTTTCCAACTTGGTATTAACTAATGAAGTTAAACATTTACCTGTTGCTTTCACTAATTTTCCTTCTTTTTATTTTTTTTCTCTCCATTTCTTC
CTTCATTCCCTCTATTTTCAAAGACTCAGACTTTTGTCACACAGATTGCAGTCTTCCTCCTGCGTGCTGAGTGCTTGGGTCACGGGTACGCACC
AACACACCTGGCTTCGCTTTTCATTTACCGCTTCTACATATATTTGAAGTTCACATGGAATTGAACGTTTGTATTACGTTTCTTGGGCTGACTC
TCTGTGTGTTCATGCCTGCCTTTGGTTCCTGTTGTACATGAGCTTATTGACATTTTGATATCTTTCTTGCTACTCCATGATGGTGACTCAGTTC
CTTTTCCAAGCCAGCCAAGCTACTCAACAATGAAAAAAATCCCAACAGGGATAACTAAGTGCACTCACCCCCCCCCAGCTACCTCAGCACCTGAT
AATCATCTTGCCTAGCCTTTGTTTCCGCTTCACTTTCTAGACCTTGCTTGAAGAGTTACCTAGGGAAAGGTTGGCGACGAAAGAATTAAATAAT
GGAATTAAATAGAATTAAAAACAGAGGAGGAGGGATGATGGGTCAGTCCTAGCAACCACCCGGGATTCACTCCCAGGGACCCTCAGGGTAAGAG
GAGGGATTTAGGGGCTGCCCTTCGATTGCCACGGGCAGATTGTGTCATGCGAGTGAGCATGTGTGCACCAACCCATAAGTAAATACGTGTATCT
GTTTATTTACTTAATTGGGTTTTTTTTTTCTTTTAAAAAAAAATTGGGGGAGGGGGTGTTGGGATGTTCAAATCAGGGTCTCTCTCTCTGAAGC
CCTGGCTGTCCTAGAACTCAATCTGTAGACCAGGCTGGCCTCACTTTAGAGAGCCACCTGCTTCTGCTGGGATTAAAGGCTTTTATACCACGAT
CTCCTGGTTTAT

MOUSE SEQUENCE - mRNA
GCTTGGATTCTGAAGTGTGGAAAGCACTGAGACGTGAAGATGAGTGAACTTGACCAGCTGCGGCAGGAGGCCGAGCAACTGAAGAACCAAATTA
GAGATGCTCGTAAAGCGTGTGCCGATGCGACTCTTTCTCAGATCACAAACAATATTGATCCAGTGGGAAGAATCCAAATGCGGACCAGGAGAAC
ACTGAGGGGGCATCTGGCAAAGATTTATGCCATGCACTGGGGCACAGACTCAAGGCTCCTTGTCAGCGCCTCTCAGGATGGAAAACTCATCATC
TGGGACAGTTATACCACAAACAAGGTTCATGCCATCCCTCTGCGCTCCTCTTGGGTCATGACCTGCGCATACGCTCCTTCTGGGAATTATGTGG
CCTGTGGTGGCCTGGATAACATCTGCTCCATTTACAACCTGAAAACTCGTGAAGGGAATGTGCGTGTGAGTCGTGAGCTGGCGGGACACACAGG
TTATCTGTCCTGTTGCCGGTTCCTGGATGACAATCAGATAGTTACCAGTTCTGGAGACACCACATGTGCCCTGTGGGACATCGAGACTGGCCAG
CAGACAACCACATTTACTGGACACACTGGAGATGTCATGAGCCTGTCTCTTGCTCCTGACACCAGACTGTTTGTCTCTGGTGCTTGTGATGCTT
CAGCCAAGCTCTGGGATGTCCGAGAAGGGATGTGCCGGCAGACCTTTACAGGACACGAGTCTGACATCAATGCCATATGTTTCTTTCCCAATGG
CAATGCCTTTGCCACTGGCTCAGACGATGCCACATGCAGGCTGTTTGACCTCCGTGCAGACCAGGAGCTCATGACCTACTCCCATGACAACATT
ATCTGTGGTATCACATCTGTTTCCTTCTCCAAGAGTGGCCGCCTCCTCCTTGCTGGGTATGATGACTTCAACTGTAATGTCTGGGATGCACTCA
AAGCTGACAGAGCAGGTGTCTTAGCTGGACACGACAACCGAGTCAGCTGCTTGGGGGTGACTGATGATGGCATGGCTGTGGCAACAGGGTCCTG
GGACAGCTTCCTCAAGATCTGGAACTAAAGCCAGGAGCAGGTGGATGGATGCCATGGCGACTGGAAGACCATTCCAACCTTGAATCGTTACAGC
GATAGCATATCCTATCCAACCATACTAACGTGGACACCCACACCTCCCCTCAGAACTTCAAAAGGGCAAGATCTTTTTTCCTTCACTTATTGCT
GAACCAAGAGCACAATTCCCATTAAGAGAAGGATCTCAGTGCTGTAAACTAAACAAATTGTGCATTTTTCTGGGCCATTGTTTTTGGTTTATTT
TGTTATTTTGTTTTGTTTTTGTTTTTTTGGTTTCATTTTGTTTTGGGTTGGTCCAATTTTAAAAGGAAATACTACAATAAAAATGTTAACCAGA

MOUSE SEQUENCE - CODING
ATGAGTGAACTTGACCAGCTGCGGCAGGAGGCCGAGCAACTGAAGAACCAAATTAGAGATGCTCGTAAAGCGTGTGCCGATGCGACTCTTTCTC
AGATCACAAACAATATTGATCCAGTGGGAAGAATCCAAATGCGGACCAGGAGAACACTGAGGGGGCATCTGGCAAAGATTTATGCCATGCACTG
GGGCACAGACTCAAGGCTCCTTGTCAGCGCCTCTCAGGATGGAAAACTCATCATCTGGGACAGTTATACCACAAACAAGGTTCATGCCATCCCT
CTGCGCTCCTCTTGGGTCATGACCTGCGCATACGCTCCTTCTGGGAATTATGTGGCCTGTGGTGGCCTGGATAACATCTGCTCCATTTACAACC
TGAAAACTCGTGAAGGGAATGTGCGTGTGAGTCGTGAGCTGGCGGGACACACAGGTTATCTGTCCTGTTGCCGGTTCCTGGATGACAATCAGAT
AGTTACCAGTTCTGGAGACACCACATGTGCCCTGTGGGACATCGAGACTGGCCAGCAGACAACCACATTTACTGGACACACTGGAGATGTCATG
AGCCTGTCTCTTGCTCCTGACACCAGACTGTTTGTCTCTGGTGCTTGTGATGCTTCAGCCAAGCTCTGGGATGTCCGAGAAGGGATGTGCCGGC
AGACCTTTACAGGACACGAGTCTGACATCAATGCCATATGTTTCTTTCCCAATGGCAATGCCTTTGCCACTGGCTCAGACGATGCCACATGCAG
GCTGTTTGACCTCCGTGCAGACCAGGAGCTCATGACCTACTCCCATGACAACATTATCTGTGGTATCACATCTGTTTCCTTCTCCAAGAGTGGC
CGCCTCCTCCTTGCTGGGTATGATGACTTCAACTGTAATGTCTGGGATGCACTCAAAGCTGACAGAGCAGGTGTCTTAGCTGGACACGACAACC
GAGTCAGCTGCTTGGGGGTGACTGATGATGGCATGGCTGTGGCAACAGGGTCCTGGGACAGCTTCCTCAAGATCTGGAACTAA

HUMAN SEQUENCE - GENOMIC
AAGAGGGCACTAGATCTCATTATAGATGGTTGTAAGCCACCATGTGGTTGCTGGGAATTGAACTCAGGACCTCCGGAAGAACGGACAGTGCTCT
TAACCTCTGAGCCATCTCTCCAAGCCCTTTGTTTTTTTGTTTTTGTTTTTTTTAATTTCTGATATTAGAAATTTCTTTTATTTTTTAATT
AGATATTTTCTTCATTTACATTTCAAATGCTATCCTGAAAGTCCTCTATACCCTCCCCGCCCCCACCCTGCTCCCCAACCCACCCACTCCTGCT

TCCTGGCTCTGGCATTCCCCTCCTTTGTTTGTTTTTTGAGTCAGGGTTTCTCTGAGTCTCTGTAGACCAGGCTGGCCTGGAAGAGACAAAGAGA
TCTCACTGAGATTTTTATACACACTCAGAGAAAGAGACAGAGACACAGGGGTGAGGGTGGCTGGTATTAAAGGTGCTGGCCACCACTGTCCAAC
TAGGATGTGTTCTTAAAACATTCTAGGTACTGGTTGTTTATAAGGCTTGAGGCAGAATTGCTTGAAGATGGGAGATAGACCAGCAAGAAGGCCA
TGAGGCCTAAAGGGTGTTTTGGGGGTGGGGTGGGGCAGGGGAGAGGGTTGGTTGTTTTATATCAAGGCCCTTCCATTCCTAATTAGCAAGGCTT
CATTTAGGTCCCAGATAGCTTCTAGACTTGGAAAAAAAGTTTTTTTTGTTTTTGTTTGTTCGTTCGTTTTTTTTTTTTTTTAAAGCAACAAGGGC
TCTTTTTTTTTTTTTTAAAGATTTATTAATTATATGTAAGTACACTGTAGCTGTCCTCAGAGACTCCAGAAGAGGGCGCCAGATCTCATTACGGA
TGGTTGTGAGCCACCATGTGTTTGCCGGGATTTGAACTCAGGACCTTTGGAAGAGCAGTCAGTGCTCTTACCCACTGAGTCATCTCACCAGCCG
TTCGTTTTGTTTTTTTTTACCACTTGGACTACTGACCTAGGTGGGATTTGCCGCTGGGGTTAAGGGAGTAGGATGAGGTCTATAAAGAACTGAGA
GTAATAAGTGCTCCTGAGGCAGCAGAGCCACTTTGTTTCTAACGCTTGGGGTCTGAACATTGAAATCACCGTTTATGTGTGGTTTCACAGATTC
AGCTCTTTAAATGGACATGATACTTAGCTTTGAATCCTCTCCATTCTTGGGCTGGTGAGCAGGAAGCCGGCCTTTTCACTATAGCTCACTCTGC
CCCATAGCAGGTACTTCAGTCAGTGTGGGGGAGGGAAGGAAATTGTTTGTAGAGGAGAATTTTAAAAATAAGGCATTGCTGAATTTTTAAAAAG
AAGCATTACCTTTCTCAGGACTCAGCCCTGACAATTAGCTCCATTAACACACAAATACCTGTCTCCACTGCAAAAGGGTAGAAAAACTTCCCAT
GCTATTTGGTGAAAATTGAGTTGTGCCCAGAAACGATATCTTTGTTTCTAAGCACAAGTTGTACTTACAGTTCCTTCCCTTTGGAGAGGGCATG
CTGCCACTTTCATCTGACTTCAGGTGAGTTTCCAGAGGATCATACCTAGAACAGTGTTTAAGAGTTTCGAAGAAGCCAGGTGTGGTGGCGCACG
CCTTTAATCCCAGCACTCGGGAGGCAGAGGCAGGTGGATTTCAGAGTTTGCGGCCAGCCTGATCTACAAAGTGAGTTCCAGGACAGCCAGGGCT
ATCAGAGAAACCCTGTCTCGGAAAAAAAAAGAGTTACGTTGTTGCTGATAGGTACATATGCCATGTACATAAAACTTTCTTTCACCCACTTTTC
GAGTCATGCTGATACCTGGCCATGGCCTTCATGTAGTGTGAGAAAGTGGAGAGAAAGAGTGGGCAGCAAGCCAGGATGTTAAACTGTTTTGGGG
TGTGGGGTGGTGTAGTAAAATAAACGGGAAGTTTGACAAGAGAATTAAAAGACAATTCCTGAATATTAGTTTTTTTCACTTCTGAAACATGGAT
ATATAAGCCCCAAGATCCGCCATTTAGATGTTTAAACAAATTTGGATAAGTACCGAGGTTGCATCATTATGAAACTAACCAGAAGTGGCTGTGC
GCTCCAGTTGTACCGGAACAAAATGATGCTGGCACAGCAAGCTTCATGTCCTTTAGAACTTTATTATAAAGTTGGAGATGTTTTTTAGATACAT
TGGTATATTTGCATTATAGACTTAATGAATGTATGTAATGCCAAACAATGCTAAAATACTGACTTTTTAAAAAAAATATTAGTAAGTTAGGAGT
GTTGGTGGGTAGTTCAAGGTAATCCTAAACTACCTAGTGAGTTTGAAATCAATTGGGCTACATAAGACCTTGTCTTTAAAATATCAAAATAATA
ATTAAAGAAATGATTTAAACATACAGACTATATTACACTATATTACAAAGATCTCTCAGTTTATATTTACAGAATTCCGAGTTATATCTAATTG
CCTTTCTTCTCTTTCCTAATCCTTCTTTACTCTCTTGAAGTGGTTTTAAGGCAAACCCCCAAATCTTGCCCCCCCCCCCCCCGCCCCAATGAAT
AACAAGTTAGGAGTTCAAATCTGGTAGGATATCTAGCAGGAAAACAATAGTTTTCTTCTGTTTTCTGTCTGATTTTTCCCTTCTAAAAATGTAT
ATACAGCTGAATTTTTTTTTTTTTTTTTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNTTAATATGTAGCCCAGGTTGACCCAGTTCTCACAGTCCTCCTGCTTAGGTTTGTTTGTTTGTTTGTTTTTTTTAAGATTTATTTAT
TTATTTATTATATGTAAGTGCACTGTAGCTGTCCTCAGACACTCCAGAAGAGGGAGTCAGATCTTGTTACGGATGGTTGTGAGCCACCATGTGG
TTGCTGGGATTTGAACTTCTGACCTTTGGAAGAGCAGTCGGGTGCTCTTACCCACTGAGCCATCTCACCAGCCCCTGCTTAGGTTTTTGAGTGC
TTAGATTAGAAGTGTGTCCCACCTCACCGAATTTGAAAATGTTAATTATTTAGGGAACTATTTACAAATAAATTCAACACTAGCTCATAGCTGA
ACTTCTTATATACGTCCCTATCCATTTCTCTACCTTTTGCTCGTTTTGAGGAGGCTTTTTAAAAATTAATTAATTTATTTTATATATGTGGGTA
CACTGTAGCTGTAGATGGTTATGAGCCTTCATGTGGTTGTTGGGAATTGAATTTTAGGACCCCTGCTCCCTCTGGCCCAAAGGTTTATTTATTA
TTATACATAAGTACACTGTAGTTGACTTCAGTCAGGCGCACCAGAAGAGGGCATCAGATCTCATTACAGGTAGTTGTGAGCCACTATGTGGTTG
CTGGGATTTGAACTCAGGACTTTTGGAAGAGCAGTCAGTGCTCTTACCCAGAGTCATCTCACCAGCCCCCAAGGAGACTTTTCTTAAATACTTT
TTTGTTCCTTTAAATATAATCGTAAACGGTACTATTATCACACTTTAAAATGTTAGCAGTTGCTTCTTATATAGCCCCTCAGCACACTTGTTTG
CTTGGGTTTGGCTTTATGGAGTTGGTCTAATCTTACACCTTCCTTCTTCCTCCCTCCCTCCCTTTCACATTGAGACAGTTTTTCATTTTGCAGT
CCTGTCTAGCCTGAAACTCACTATATAGACCAGGCTGGCCTTAGACTCACAGAGATCCAACTATTTTTGCCTCCCGAGTTCTAGGATATAAAGC
ATTGACCTACTATTCCCAGCCACGATCATAACTTTAAATCTTTTAGAAATTCTTGTCTTTGGAAATAGCATCTGAAAGCTTGGTGGTAGTGACT
GGTGGATACATTTAGTCCCAGAACTTAGGAGGCAGAGGTAGGCAGATATCTGTGAATCCTCTAGGCTAGCATGGTCTACAGAAGGAGAGTTCTG
GGATATCTAGAGCTATACAGTGAGACCCTGACTCAAAAAACCAAAGGAAAAAAGAAAGAAAAAAGAAAATAGCATCTCAAACTAGGACAATAGT
GTTCTTTGTCAATGTGACTTCTCAGATGTCAGGCATTAACCTTGGAGTTGTACTGTTGAAGGGGACACTTCAGTAGTATATCACTTCAGTAGTA
TATCACTTCAGTAGTATATCACTTCAGTAGTATATCACTGAGAGGCTTATGGGATGAGGGCGTATCAGACTGATTATCTCACTATGTGATATAG
ATGATGTTTGTTTCTTTGTTTTTCAAGGCAGAGTTTCAGGTTAAAGACATGTACATCTCTACCCAGCTTCATAAATAAATAATATTTTTTTCAG
ACCAGAGTGAAAAGTGATTTAGTGAGGCCCTATTTGTATGTTGGAGAAATTGAAATTATTTTTCAAGACATGCACCATTAAATTTTAAATTCTA
GTTTATTTTTTGTATGTGTGCACACAGAGAAATCAGAGGACAACCTGAAGGAGTTCATTCTCCTGGGCAATCAAGTCAGGCTCTGGGTTTGACA
GCAGATACCTTCTGGCGAAGCCATCTTGATGGCTCGTATTTCTCCTTTTCATCAGTGGCAGGCTTGCAGCCCAAGTATCGTCAGTAACTGTGTG
AGATAATGGGGTCCTGAGGTCACTGCTGTGCCTGTCCTGGCTCCTTCACAGGGTCTTGACCAGAGGAGCGCTGTGCTGCTGATGCCTTTGTCAC
AAAGTTGGGGGCTTTATATCTCATACCATCACGTGAACTGTTCTAATCGTGCTGACATTTTATTTAAAGATATAGCATGTTACTTCCAGGAGAT
CACACCAACTTGTTTGTCACATCTTTAGTCCCATGTTCTTACATCATTTAAATTTCCTGAACAGCAGCTCTAATTTAAAGCTGACGGCAGATGT
GGGTCATGGGCAGTCGTGAGCCTCAGCAGGTGCTGTCTTAGTGGATTAGGCTGGAAAGTGCTACCTCAGCACAGCCAGAGCTTACCTGGGAGGC
TCTGGAGGAGGAGAGCTGCCCAGGCAGGCAGACCGGATGGTGGGGTTTCCAGAAGGGTCAAAGGACTAACGACACTAAAGAGAAAGGCAGAGGA
GACGAAACGTAAGTAAGACGTGTTTCTAATTGCTAAAGTTGTGTAAACAGTATTATGGCAGACTCTTCAGTTGTGTGCTGCACTTCACTCAGAC
TGTGAGAAGGTAATATTGGGACAGCAGGTAAAGGCACTCGCTGTGATGTTGCATGGCAGGAGAGAACCAGCTATTTCAGGTTATCCTCTGTCCT
TGGAATATGTGTTGTGGTACATACCCATACACAATTAAATAGGTAAAATGATAGAAGAAAATTACTTTAAAGATCGTTTTCTGCCCAGCAGTGG
TAGTAGTACACGAGGCCAGCCTGGTCTATAAAGCAAGTTTCAGGATAACCAGGGCTATACAAAGAAACCCTGTCTTGGAAAAAACCAAAAACAA
ACAAACAAAAAGTTGTTAAAAAAAAAAAATCCTGCTGTGTGGGAGGCAGAGGGTGACTCAGGCGCAGTTTTCTCCTCCCTCCTTTACATGGGTG
GGTTCTAGGGGGTGAACTAGGGTCCCCAGGCTTGCATAGCAAGGGACTTAACCCACAGAACCTGGAAATCATTCTTTTGATTGAATGCTTTCTT
CATATACAAGAAAAATATGTGACAGTCATCCAGGTAATATTGCTTAAAAGTAGAAAAATGTATTTACCAGAAACCTAGTGAGGAATAGAACTGA
TGGGCTATTGAGATAACTTTGGGTAAGGTTGGTGGCTGCCATGCCTGAGGAGTTTTTGAAGCAGCTCAGAAAGATCCCCTGTTTATACAACACT
GGTTCAGCATAGTTGTATTCGGTCTCATGATGTAAGAGCTTTAGTGTTTATGTCCTGCTCAACTGCTGCTTGTTGATTAGACTAAATCAGGTAC
CTCAGGACTTTGGTTGCTACTTTTTCTTACGTTAATGCTGGATTGGATGGAAGGTCTTTATAGCCAGAGTTCCTTTCAGTCAAGTAAGGAGTGC
TGAAAGGTGGTGATCTTGACTCTGTTAAACTAGTAAGAGGGTTTCTTCTTTGACCCTTTGTAAGGTAAAAACAAGTCAAACTCATGCGAGACAA
AAATGGCAGAGTATCTTTCTGTGTTTTTATTCATTTGGGATTTTATTCTGCCATATAGGAATGAATATTCCTAAATCTAGTAAGAGGGTTCTT
CTTGGACCCTTTGTAAGGTAAAAACAAGTCAAACTCATGCGAGACAAAAATGGCAGAGTATCTTTCTGTGTTTTTATTCATTTGGGATTTTATT
CTGCCATATAGGAATGAATATTCCTAAATTTTAGATCTTAGGTTTTGTGTTCTAAAGAGAATGGCTCAGTCTTCTCCTGCAAAAGTCATGCCAG
GTACCAGGGAGGCCCAAGGTGTCTCCCTTGGTGAATCAGGATCCACTCAAGAACCAGAGATGGTGGATATAACCTGTAATACTAGCCCTGGGGA
AGGGGAGGGAGTAAGGTCAGAGTAGGTGCCAAGGGAAGTTTTAGTATATACTGTACTGCTTAGCAAGACACTGTCTTAAGAAAGGCAGGAACGT
GACTGGAGAGATGGCTCAGCACTTTTCCAGAGGCTCTGAGTTCAATTCCCAGCAACCACACAGTGGCTCACAACCATCTATACTGGTGGGATCT
GATGCTCTCTTCTGGCATGCAGCTATACATACAGACAGACACTCAACATACATACCATAAATAAATAAATAAATAAATAAATAAATAAATAAAT
AAATATTTAAAAAAAAAGACAAGCAGGATAAGGAGCATCAACAGAAAATGAGAGTATCATTGTGGTCAGCAATCTTTTAGAAGCCGTCTTGATG
TATACCCTGCTTTTCAAGTGAGCAGCAGCAGCTGGTCTAGGAACATGGAAGCCCTCTTTCAGTGCACAGCTTTACCTTGTAGGCCTTGGTT
GCCCGTGCCCCCCCCCCCCATGTTAAGTACTTAGTAAGTCGACCCTTCTTTTTGTTCTGCCAGCAGCAAAGACACTTAGTTGGAAGGGATTCTG
TCACCATGAGCATATAGTGTGGAACTGTAGAATAGAGAAGTAAGGAACGTGAACAGTTCTGGGGTCATCCAGCTGATTTATTGTAGATGTGTCT

TACTCTAACAGTGATCTCAGGACACAGCAGGCAGAGCTCGGTGTGAAGCCAGCCCAGTCTACAAAGCAAGTTCCAGAACAGCTAGGGCCACACA
GTATAACCCTCTCTTGGGTGGTGGTGGGGGGCAAGGAAAAGAAATTAATATTGGTTAGTTAAGCATTTGGTATTTTTTAACTTTGACTTTTGAC
AAAAAGTTGATCTTGATACACAATCCTAAGAGATCTGGAGCCCACTATATTGCCCGAGAGGTCTTAGACTCAAAAGGAATCTTTCTGCCTCTGC
ATATCCCAAATTCTGAGATTATGGGTATGCTATCATACCTAACTTTATTATTATTATTATAAAATTTGTGTGTGCGTGTGTGTTTTATGTTTCT
GTAGGTATGCTCATGTATGTATGTATATGTTTATGTATGTATTTACATGTTTATGCAGGTATATTCATCTATGTATGTATGGAGGCTGATCATT
ATTTTATTAGTTGACCTCACTTGTCAACACAGGGTCTTACTGAACCAGAGCAGTGGTTCTCAACCCGTGGGTCATGACCCTTTTTGGGAGTTGA
ATGACTTTCACAGGGGTGGCCTAAGACCACTGGAAAACAGACATTTATATTATGGATCGCACAGAGGCAAAGTTACAATCATGAGTAGCAACAT
AAATAATTTTATAGTTGGGAGTCACCACCACATGAGGAACTATATTAAAGGGTAGCAGCATTAGGAAGGTTAAAAACCACTAGAGGTTTTCATT
TCAACTAGATTAATTTGTCATTGAACCCAAGAATCCATGTGTATCTGCCCACACCATTTTGAACCTCTTTAATTATTACACAAAATTTTTGAAG
ATTGTGTGGGGAGTGCTGGAAGATGATTCAGTAGTTAAATGCACTTGGTGCCCTTCCAGAGGACCCTAGTTTCATTCTCAATGCCTACATGACA
GCTAACAAACCATATGACTCAGATTCCAGGGAATCTGTATGTGTGTGTCAAAAACACTCATATTCTGTGTAATTTGCATGGGGAACTAAGAT
TCTTGCATAAATTATATTGGTATTAAGTTGTTTCACCTTCAATATTATGGTGTTATAATCACATTTATAATTGATTTAATAACCAACATCAGGT
CAGAATTGTAGCCTGTGTGCCCCAGGTACAGTGGTAGATGAGGCCTGCTGTTCTAACACTTAAAGAGTCTGAGGCAGGAGATTTGCTATTAGTT
CGAGGCCAGCATAGGCCACAGAAATAAGTTCAGGCAGGCACGCAGGCATTTCTATGTACAGCTTCCTCTGGGAAGTGAAGTCTTTTTGTGCTGT
TGTTTATTTTGGATTGGGCTTTTGAGACAGGATCTCTGCGGTCTTGGCTGGACTGGACTGGTGCATAGGTCTGGCTGGCCTTGAGTTCGGATCC
TCCCTTTCCTGCTTCCCAGCTGCTGGCTCGGGTTAAAGGCAGGCTCTACACTCTGAGGTATTTTATTTAAGGCATGCTCTACACTCTGAGGTAT
TTTATTTTCTGAGGCAGTGTCTCATGGAGCACAGACTGGCCTTAGACTACTGTGTAGCTGAAGATGACATTGAACTTTTTGCTTCCACATCCTG
AGTGGAATTATAGGTTAGCAACACCTCATGTGGGAATTCATACATTGTAGGTAATCAGTCTACTAGCTGAACTATATCTCCAACCCAGGAGGTC
AGGTTTGTTTGTTTGTTTAACAATCTAGTTTTGAAACAGTCATATCCTAGGCTGGCCTCAAGTTATGTAGTCAAAGATGGCCTTAAAAGATGAC
TCTTGGTTATTTTCCAAGTGCTGGGATTATAGATATGCACACCACCACACCTCATTTGTCTCGGGGCTGGACTCAAATCCAGAGCTTCATGCAT
GTGAGGCAAGCACTGTACCAACTCGACTTTTGCATACTCCATTGAAAGTCATTTTTATAACAGGATCATCTCAGTTGTCTCTGACAATGGGGAT
GTTTTATATGACTGTGTATGGCTTTGCAGCTTTGACAGCCTTATTCAAGCCCATATCTAGAAGGTATTTCTGAGCTTCCTGGGACTCCTCAGCA
TAGAGTCTGGGGAGAAATAGAAGACTTTTGAATGTCCCTTTGTCTTTCGGCTCATGATAACTGCCATAGCTTCAAAGTACTGGTTTTCCAGATT
ACCTCAGTCCTGTTTCTTAAAGAAATTACTCCTGGTTTCTCTGTGTGGTAGCTATTCTGGATGTCTGTGTTTGTTGTTGTTCTTCTTCTTCTTG
ATTTCTTTCTTTTATTATTTTTTAAAGATTTATTTATTTATTATTACATGTAAGTACTGTAGCTACCTTCAGACACCCCAGAAGAGGGCATCGG
ATCTCATTACGGATGGCTGTGAGCCACCATGTGGTTGCTGGGATTTGAACTCAGGACCTCTGGAAGAGCAGTCGGCGTTCTTAACCACTGAGCA
ATCTCTCCAGACCCTGTTCTTGATTTCTGAGAGACTCAGAATCTTTCCATGAGAAGGACCTGTGCTGTTTTAATATTGATTGATTGATTGATTG
ATTGATTGATTGGAGATTGGGTCTCTGTGGTACAGATTGGCATTGAAATTAAGATCTTCCTTCTTGGCCACCTAAGTAGTGGAATGCACCACCT
CTATTGGCATTAATTTTCTTTTTCAGTCCACCACAATATTTTCAGCAGTATATTAGTACAGTTAATAAAAGTGAAGATTGTGTTTTTAATCCAG
TTCTAGATAGAGTTTCAAAAGTTCTGATGAGTGCTGCAGAAAAGGTCTCTGCATTGTGTGATTGTAGCTGTGACGTTTTCAGTTAATCATACCG
TATCTTATGCATTTCTTGCCATGTTTCTGTTGCAGAGCTTGGATTCTGAAGTGTGGAAAGCACTGAGACGTGAAGATGAGTGAACTTGACCAGC
TGCGGCAGGAGGCCGAGCAACTGAAGAACCAAATTAGAGTATGTAGTCATGCGGGTTTGATATGTTTCATATCAGAAACATATCTATTGTGTGT
GGATAACAGAGTGAGATGAAATTGATCTATTATATGCTAGTTATATATCTGAATAACTTATGTTGTTTCAGAAATTTTGTTTTCTTATTAGCTA
CAAGTTGTTGCTTGAATGTACATGGCCCATGTCTGTAATACTTACCAAAGCTTTTGAACGTCTTCCTCCCGGGGAACTAGGTTTTGGACCCTCT
GTGTGGCCACTGTGGCCGCTGTGTCAGTTCTGAAGCAGCTCTGAAGAGCACGGCTACTAAACTGAGAGCAGAAATAGATACTTTAAATGAAGGG
ATCCGTAAAGTGGCATTTTAGATGTCTCTGTCTTATTTTTCATAGTTTCGCAATGGTTTGTGCTCCAGGAAGACCATTGGAATGTATGTAACAG
CTCTTAGGCCACCATAGAGAGCAGACTTGTCTACCTGGGTACAAAACTAAATGGAAGATAATTCCATGTATTCTGAGTTGTTCTTTCTGTGCTG
GGGACTAGTGTTAGAAATGGAGCTAAGAGCCCACACATCCCAGGCAAATGTGAGTTTTTTGGTTTTGGGGTTTGTATTTTAGTTTTGTTACTTG
AGACAGGTTCTTACTATGTAACTTTGTCCTGAAACTCAGTGTAGACCAGACTGGCCTTGAATGCAACATTATACAGAGATAAGTATGTGGGGTT
TTTTGTTTGTTTGTTTGTTTTTTGTTTTTCTTAGACTTGATCTAAGAGCATGGAAAAAATGACTTAAGACTTAACAAGAAAATCCCAGTTTTTC
GTTTGTGTAAGGATTTGTATATTTGAAATAGCTTCCTCTGATTTTCATGTTCTTGTCTGTAAGGATATGGCTGTCTGTCCTTGAGCGTCTCACT
AAGCCTTTAGAATGGTTCACATGTCTTTAACTTGTCAGTTGTGTTCTCAGGCTGCCAGGAGGACTAGGTGGAGAATTGCCAGCATCATTTTAGC
CAACTTTTACTTGAATTTAAGAAAACATACCAGAACTGCATAAGTTTTAGAGCAGAGATAAAACAAAATATCCTCTGCTGTAAGCACCTCACTG
GACATTGGTGTCTACGCTGTTCCTCCGTGTGTCAGTTTCTGTAAAGTTAATAATTTCATGTGTCAGGCAAGTTTATAGCACTGAACTATACCTA
GCCCTTGCCTAAAATCTTTTTAGGGTTAGGATTTTTGGAAGTGGGGCATCAAGTTGGGTTTTACTATGGTACTAAGATGATGTCAAAATTTGAG
TTCAAATGATCCCATGTGTCAGTCTCCCTTGTAGCTGGGATTGTGTAGCATGCCTGACTTTCCCTAAACTTTTGCATGACTTAAAAACTTAAAG
CCAACTTAAAGCCAGGGGCTGAGCATTTTAATCACTGCATTTAGGAGGAAGAAGCAGAGCGATAAGAGTTCAAAGTCATGATCAGCTACATAGT
GAGCTCAAGGCTCACCACGAGACCATCTCTCAAAAGGTAACAACAGACTGGAGAGGTGTCTCAACAATTAACAGCCCTTACTACACTTTCGAAG
GACTCCATTAGGTTCCCAGTGCCCAGATCAAGAGGCTCACAATCTTATGTAACTCTTAACTCCAAGGAATTTGACACCTTCTTCTGGCCTCTGC
AGATACTTTCATATCCCACACATAAACACACACAAAATAAAAGTTTAAAGTCAGGTACAATAGGGCATGTCTGTAATGCTATCAAGTCTGAATA
CTGAAGGAGTATTGAAGGTTTGAGGCCTGCGCATGGGCCATATGCTTTTGAGATTTTTATTTCTTTGTCCCAAAGTTCTGAAAATTAAGAGTAT
AGAAATGACAGAGGAGTTTTCAGACAAGGTCTCACTATGTAGCTGTGGCAGTCCGAGAACTCACTATATAGACCAGTGCTGGAGACTAAAGGTG
ACTAAAGCCACCACGCCTGGCTTTTGTGGTTTGAACTTCCTGGTTTTTCAAGACAGTTTCCCTGTGTGACCCTGTGACTGTCCTGGAACTCACT
TTGTAGACCAGGCTGCCTTCAAACCCATAGAAATACCCTTCCTCTGTCTCCCAATGATGAAATCACACTGCTTGGTGTGATTTCAGTTTTTAAA
ACGGGAGCAGGGTGGAGATGGCTATGCTGTTTTAAATTAAGCCAACATGGAGATCAACTGCACAGCATGGAGGGAAGATTTAGGGAAAGGATAA
GAAAGCCCAAGTGTTGAAGAAAGCATACTTAGAACAGATAGAAAGGAGAAAAAGAAATACTCAGAAAAACTAGCGGATTTACTAAGCCATATGG
TTGTAGCTGTGTAGCTGCTGAGACTCAAATCATTTAGCAGTAGATAAAGAGATTTTTAAAAAAGATTTGTTTGTTTGTTTGTTTATTATATGTG
TGAACACTGTAGCTGTCTTAAGACTCTCAAGAAGAGGGCATCAGATTTTTGTTACAGATGGTTGTGAGTCACCATGTGGTTGCTGGGATTTGAA
CTCAGGACCTTTGGAAGAGCAGTTGGTGCTCTTAACTGCTGAGCCATCTCTCCAGCCCAGATAAAGAGATAGTAAATCAAAGATAAATGTCA
TGCAATATTTTGATAAGCAGGTTTACATACTCTCTAGTCCCTAGTACCCACCCGCCTTTCTGCATCCAAATAGTGCCCCTGTAATTATAGCATT
CAAGAGGTAAAAACAGGAGGGTCAGAGTTCAAGGCCAGCTTCAGTGACATATCAAGTTTGAGGCCAACTGGGCAACATAAAGTGTTATGTTTAA
CATATGATGTTATGTTAATATATATTAGTAATATGAAATCTTAAGTTTCATCTAGTCCCATGTAAAGTATTATTTCAGTCAATAGATTCTTACT
GAGATAGTTTACAGTACTTACATTTCAGTTTTGTTTTGGTTTTAAAGTTCAGCTCATGCCTCCCTATAAGGGCATTCTACAGTTCTCTCTCACT
GTGTCTGACATGCACAGATAGTTGGTGACCCCCCCAAGACCTCTGTTGTGGACAGCACCAATTTGACTGTTCCTTATAGGGCCACTTTGTTTCA
ACCTTCATGATGAGCATCATCTTCACAAATGGCTCCATGGGTTTGGCCTTGCCTCTCAGCACTGCACTAATTTTAGAGTCGATTGGTGAGGAGA
TGTGAAGGCCATTGAGTCTCTAAATGGGAAGGAAGACTTTTGTTTGTTTTTGAGACATGGTCTCACTATGTAGCCTTGGCTGCCCTGCAACTT
GATATGTAGACTACTGGCCTCAAACTGCTTGCCTCTGCCTCCCCAGTTTACTTTGGAGACTAAAGCTGTGTGCTACCTTACCTGGCAAGGAATA
CTCTTTAAAAAAGTAAAATTCTGGAGTTAGATACTTAAGTGGTTAAGTTTAATCCCAGCACTGCTTATAACTGTAGCTCCAGAGAATCCAAGAC
TGCCTGTCTTTTGGTTTCAATAGGTACCTGCATACACATAAATTTAAAAACAAAAACAAAAAACTTTTTTTTCTGATATAAGGGAGGAAAAATG
TAAAATGTTCTTTACTAATTGCCTACTAAATACATGCTTGCTAAAGAACTTAGTACAAGGGCTGGAAGGATGGCATAACTCAGTAGTAGTCTAG
TGCTTTCCTAGCAGTGTGGTCCCCAAAGTTACAGGGAAAATACGAGGATTATCTTCACTTTGAAGGCCAGCCTAAACTACCAATCAAGAACCTG
TCTTAAAATCAGAAGCAGGAATCCGGGCCTGGTGGTGTACGCCTTTAATCCAAGCACTCGGGAGGCAGAGGCAGGAGGATTTTTGAGTTCGAGG
CCAGCCTGGTCTACAAAGTGAGTTCCAGGATTGGGTGAGACGGCGAGCACTTTTAATCTTAGCAGTCAGGAGGCAGAGTTAAGTGGATCTCTGT

GAATTCTAGGCCGGCCTGGTCTACTTAACAAGTTCCAAGATAGAATTATATAAAGACCCTATCTCAAAACAAACACAAAATCAGAAATAGCAGA
TGAGTTAATCAATGAAGTAAAGGTTCTTGCCACCCAACAGTGTAAGCCTGAAAACCTGAGTTCCATTTCTAGAGTCCACGTTAAGGTGGAAGGA
GAGAGTACTGTCTCTACAAAGTTGCCCCATGACCTCCATACTCTGTAGCAAGCACACTGATACACATCAGTCACACTCTTGGGTTTGTTTGTTT
GTTTGGATTTTTACCAACAAAGCGTTTGTGGGTGTTTTGTTCTCCCCTGTCCCCCCACTAACACCAACACAGGGTTTCTCTGTGTATGCCTGGC
TATCTTGGAACTTGCTCTGTAGACCAGACTGACTTCAAACTCAGAGATCCACCTGCCTCTGCCACTTGAGTACGTACTGGAATAAAAGCTGTGT
GCCACCACCACCTATACAGTCAATATACTTTCAATTATTAAAAATCAACAAAAGGCTTCTAGCTGGTGTGTTTATACACATACACAGCTTCTCA
AACTCGGGGGCCGAGGCAGAGGATCAGGAGTTCAAGGTCATCCTTAGCCGCATAGTAACTTTAAGACCAGTTTGCTTACACAGTGAATCACACA
AGAAATGGCAGTTAACTGTAAGAAGTGTTGTCTGGCCCTTTGATTTGTTTTTTATGTGAACTTCCCCTGGGGGAAAAAAGGAAAAACAAAAAAA
GAAGCTTGTCATTCTTTTGTTGATCCCAAGGAAACAGGCTCTCAAGTAGATGTTTAATTAAAGCACACACGCCTTAAATACAGAGGAACTGAAC
TTACTACTCTGATAGACCATTGCACACATGGACCAGAATGTAGCGACCCAGAGCTGAGGGTGGGCCCAGACTTTCCAATTTCACTGTGAGACAA
CAGTGCTGCATGATACGGGCCAGCCTCTTCTGTACTCAAACCAAACAGGACAGAATGATTGATTAAATGGATCAGTCTACATGAATCCATCAAG
AAATCATTGTAAAGCCGGGGGTGGGGGTGGAGTTTTTTTTTTTTTTTAAAGATTTATTTATTATTTATTATATGTAAGTACACTGTAGCTGTCTT
CAGACACACCAGAAGAGGGCATCAGATCTCATTATGGATGGTTGTGAGCCACCATGTGGTTGCTGGGATTTGAACTCTGGACCTTTGGAAGAGC
AGTCAGTGCTCTTAACCACTGAGCCATCTCTCCAGCCCGGGGGTGGAGGTTTTAATCCCAGCATTCTGGAGGCAGAGGCAAACAGATCTCTGAG
TTTGGGGCCAGCCTGGGCTACACAGAGAAACCCTGTCTTGAACAAGCAAGAAAGGGAGGGAGGGAGGGAAAGGAAAGGAAGAAAGGAAGGAAAA
AAAAAGAAAAGAAAGAAAGAAAAATTATTGTAGCTGGGCACGGTGGCACAGTTCTTTAATCCTGTCACTTGGGGAGGCAGAGACAGGTCAATAT
GTATAAGGTTGAGGCCATCCTAATCAACATTAAGTTTTAGGCCAGCCAGGTATAAGGGACCCTCTCAATCATAAATCAATCAGTCATTCTCAGG
CCAGCAGGGTGAGTCATCAACTAAAAGTATGTCAATATTTATTTTACTTATAAGTGAAAACACTTTAATTAATATGGTAAAAATTAAAGAAAAA
TTACTATAGTATATTGTTTTGTAGGTCTTAGCTACATTGGTATGTTTTATAAATAGAAAAGATTGCTGTTTTGTTACCAGTCTTATTGAAATTT
TATTAACAATTTTAGATTCCTTGGTCTATTCATAGAACTTAGATTTAATCATTGTTTGGCTTAAAAATAAAGTCCTTGCATAATGCATTCTCAA
AGAGAAGCTGTTGGCCTGAATAGCTAGTTGGTTTTCAGCCTGTTCTTTCATGCAACCCCTTGTGCTCCCATATAACCTGGGAAAGACAGAGCAG
GTGTGTGTTGGCTGTGGGGAGTCAGCCTTGGCTTCCAGGCTGCTCACTGCTGTACCAGCTCCCAGTGTAGTTTCTCCCGGGCCTGCCCAGAGTT
CTATGGGGTCTGCATGTCTTAGTTAGGTTTAGGTGTTGTGAGTTGTGTCTGTTTTGGCCTGAACAACTCAAAAGTGGCAGTGGACTTGGGACTA
TTAGAGAAGAATTAAGGAACAAGACAGTTTGTAGAGGCTTCTTGAAACTTTGGTAAGGAATGTCGTAAAGTTAAAAGTATGGAATAAAACTAAT
TTCCATTTGTTATTTCATAGGATGCTCGTAAAGCGTGTGCCGATGCGACTCTTTCTCAGGTAAGGAATAATTCCACCTTTCAGCTGTCCGTAAT
GCGCAGTCTGCCGCGGGCTTGTATCATGTGGGGTGAGCCCTTTTGTGAGGTGAGGTTGTAGGGCCACTGTCAGGGCTTTTCATTTGGAGGTTGC
TTTGCTGATGGGCAGAGAGGACAGGAACCACTGGTTCCTAAAATGGGAGTGATAGCTCTACCGTTTGACCCAACAATTTAATCAAACTGATTTT
AAAACATGTACCAGGCTGATGAGATGACTGCTACCAGGCTTGACAACCCGAGTTCCATCCCAGAGCTCACAGGGTAGAAGGAGATTCAGAGGTG
GTTCTCTGACCTCTGTGAGCATGTGCCGCTGTCCTGCCCAAGTAAATACAGTTAAACCGTGGGCATCCAGCTCCTGCTGTAGTGTATCTACTGC
TGTGAGAAACACTTCAAACTCTAAGGGAGGAAAGCATTTATATCGGTTTATACTTCTAGGTAATAATATATCATTGGAAAATCAGGGCAGGAAC
CATAGAGGAAAATTGCTTACTGGTTGCTTTCTCAAACAGCCAAAGATAATCTAATCTGTTTAGAAGTTGTCTTGTTCAGTGTAGGCTGGACCCT
CCTACATCTATTAGCAATCCAGACAGTGCTCCATACATAGGCCCACAGAGGAATCTGATCTAGGCAGTGTTTAATTGAAGTTCTCTCTTCTCAG
GTAACTGTGTGTCTAGTTAACAATAAAAACTAGCAACACACACACCTATACTCACACCTACTCTTGGGTAATCAATGGCCTGATCCTCAGAC
CTAATAGACATAGATTTATTTTCCCTGTGTATCCATGGCAGTGGTAAAGTGAGTATGTTAGGTAAAGGTGGAGATAACTAATAATTTAATAAAG
CAGTAATAAAATGGTAGCTATTCTATGAAATGGTAGTTACATGTGATATCAGATGATCTTAAAATATCTTACTGCATGTACTGGTGCGACAGGG
GATGACAGTGCCTATATCCTTGATAAGAAGAAGCGAGGTACTGAGCCATGTAAAAAGCATAGTGGTTGTGGTGTATTGCTGATAAACATGCTGT
ATACTTAAAGCATGGACTCACTGGACAAGGGAGTTAGGACCCAGGCACTACAGAGTGGATAGTTAATAGTGCTACTTAAGGGAGCAATGTGCAG
CCGGGCAGTGGTGGCGCACTCCTTTAATCCCAGCACTTGGGAGGCAGGCGGATTTCTGAGTTCGAGGCCAGCCTGGTCTATAGAGTGA
GTTCCAGGACAGCCAGGGCTATACAGAGAAACCCTGTCTTGTGGGGGAAAAAGGGGGGGGGGGAAGCAATGTGCAATTTAAAGTTTATGAATTG
GCTGCTGGAGAGATGGCTCAGCAGTTTAGAGCACTTGCTGCTCTTCTAGAGGACTGGGATTCTGTTTCCAGCACTCTGTAGTGGTTCACAACTG
TCTATAAATCTTCTGGTCTCCTAGGGCTTCTGCATGCTAAAAATATTCTCTCACATAAATATAGGATTTTCCATTTAATATATTTTTGGTTCTT
GGTTGATATTATATTACAGAGCCCACAGAACGCAAACCAAGAGTCTATTTGCTAAAATTAATCTTCACTAATTTTATTTTTTAAGATCACAAAC
AATATTGATCCAGTGGGAAGAATCCAAATGCGGACCAGGAGAACACTGAGGGGGCATCTGGCAAAGATTTATGCCATGCACTGGGGCACAGACT
CAAGGTATGAATGGGGCCTTCCTAAAGCAGTACTTGAAATGTTGCCTATCTGCTGGATTTCTAAAAGGTAATGGTTAGAAAGTTGAATTGGTGT
GGGTGTGATAGCACACTTTGAATCTCTGTACTCAGGAGACAGAAGCAGACAAATCTTTGTGAGTTTAAAGGCCAGCCTGATTTACATATTGAGT
TCCAGGCTAGCCAAGGCTACAATGAAATCCATCTCAAAACCAGTAGGATGGGGTGGGGTAGGAAGTTTGTGGTACCAGTTATCTGTATCCAGGT
CTCATGTTCACAGGTCATACTCAGATTTCCGTTTAGCTGGCTGACTGCACTGCTGTCCCTTGCATAGCAGCACCTGCTTTTCTTCACCCTATAC
CTTTTAGCTGTTGGGTCTCTGTTGTCTTGGCTACTCTGTGGGCTGTGTTTTAAGAGTTGGGCAATGGAAGGTAAAAGGTACTGAGTTTACAACA
GCAGACTGTGGTCCCAAAAACTAAATGTAGACTTCAGTGGTCTCTTCACCCTCACTGGGAAGCCTTATGGAAAATGAACGAATGGCTATCCTTA
TCATCCTTCCACATGGCCCTGCCTGCCATCTACTGGTGTATCATTTAAAGAGATACTACCATTTGGGGGTTCCTTTCTTTTATACTTTGATAAC
TACCCTTTATTGGACTGAGTCTCTCCTGACTTTTCCACTCATAACGAAATAAAGTGCGACATGGTTTGTGTTCTCCTTCCAGACCTAAAGGAAT
CTCAGCATCCTTTTCTTCTGAAGTCAGTTTTCATTTCTGCTTAGCTTTCTCTTTGTGAAATTATCTGCTGTAGGGTGTAAATAGCTAGAACAAAA
GATTCTATCTTTAGTTCTCTGCAGGGTCCCATACAATTGCTTGTGCAAATGAGCGCTATCTGAGGCTGTTTAATAATGGAAACAGTCCCATCAA
AAAAGAAAAAGGGGGCGGGGCATTGTGTTCTTGCTGCAGCTGCAGCTTCAGTTAGATAGATCATGGATGTATTCTATTGTTGCTGTCAGAATTG
TTAAGTGCAGATTTGTAGATTTATTGATTGATTGTTTTTTCAGTGCCGGACATTGAACCTAGGGTCTCATGACTGCAAGCAATTGGTGTACCAC
TAAGGTGCACCTCTAGTCCAAGAATAGTTACCATATGGTCCTAAAAATGTGAGATAATGACTGTGTTAATTCACTTAGTTTATATTCTGTAATA
TAAACATTAAACAACTTACAGTCCATAGTTACTGTCAATTAAAAATAAAGATCATAAAAAAAAAACCTAAGCAAAGTTAGAAAATGGACAAACA
ATGGTGGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAACTACAGCCCTTGGAATTAAAGCAATATAGCAAGTTCTAGGACAGCTTGGG
CTACACGAAACCCTGTCTTAAAAAGCAAATAAACCAGGGGCTGGTGAGATGGCTCAGTGGGTAAGAGCACCCGACTGCTCTTCCAAAGGTCCGG
AGTTCAAATCCCAGCAACCACATGGTGGCTCACAACCATCCGTAACGAGATCTGACGCCCTCTTCTGGGGTGTCTGAAGACAGCTACAGTGTAC
TTACATATAATAAATAAATAAATCTTTAAAAAAAGAAAAACAAATAAACCTTGCAAAGCATTATTTAGGGATTGCTTTAAATGAGCATACTTTC
TGGCTAGTCAGTGGTTGCATTTTAAAATCTAAAATAGCTGTTTAAGGAGTTGTTGTGGGTATGCATACCCCTCTACCCCCTTACATCATTTTCA
TATTTTTTGCTCTAATAGTAAAGGGTTGTTATTGAGCTTGGTGTGGTTGCAAATGTCTTTAATCACAGTACTTGGGAGACAGAGGCAGGTAGAT
CTCCATGAGATCAAGGGCAACCTGGTCTACATAGTGCGTTTTAGACCAACCACGTAGCACAAACTTGAAGACCTAGGTTTCGATCTCTAGGACA
CATGTAAAACTGATCATGGCCAGATACTTAGAACCCCACTGCTTCAGTCTGGTCGAGGTAAAAGAATTATTGGGATCACTGGCCCTAGCGGAAA
AATGATGAGCTTCCGGTTCAGTGTGAGACTGCTTGAGAGGAATAAGGCAGAGAGTCTAGAACAGGGAAACAGTCTGCTTCCTTTGACTTCTGAA
TAGGAACACACACACACACACACACACACACACACTAAAATTCAGCTTTGTGGGGGTGTGTGGAGGAGTGGCGGGGGTAGGCATGTGGAGGTCA
GGGCATTATGACCAAGGAATCAGTTCTACTTCTAAGTGGGTTCCTGGGACCAATTGGTTGGTTGGTTGGTTTTTTTGGGGGGGGGGGGGGTCTT
TCAGGAAATGTTTCCCTGTGCATCCTTGGCTATTCAGGAATTGTGTAGATAGGGCTGGCCTCAAACTCAGAGATCCTCCTGCCTCTACCTCCTG
AATGCTGCTGGAATTAAATGGTTGCAAGAGCCCGGGATTAGATTTAATGGAAGGGCTTGTTTGATAGGCACCTTTACCTGAGCCTTCTCTTTAG
CCCTAAAATTTAACTTGTAATACTATTCCAGTAGTGCTTTTCCAGGTCTGTGGGGTTTTTAATCCCCTCTCTACAGAGCCTGATGAAGTAGTCT
CTTTGGCTGGTCTTCCTCTGAGTAAACTGAAGAGTATGTGGGGTTGGTCTATGAGTGCCTCCTTTTGTTCTAGGCAGCTAATTTGGCTAGTTCT
CAGTTTCTATCTCTGTTTGAGGACAGAATATGAAAAGCTTTAGACAATGAACCGTGTTGATTCCTCCAAGTTACATGACCTGAGATTAGAAAGG

CGTGTCTTCTTTCACCTTCTGGAGGATCAGCTAACAGCTTAGCATTGTCTTAATTCCTCACTGAGTTAGCAATTATTGAGCTCTCTGAAGGTGA
CTTCTTAAATCAGAGGATGAGCTACTAAAGATGTCTCTTGATACCCTTGCTCAGAGTCAAAAAGACCAAGCAGAAATAGAGCAGCAGAGGGGCC
TCATACTGTCTGTCCTATAGAAATGGTTGAAAGGACCTTGGGTATAATGACTGAACTGCAATAGATGGGGAGCTGGAAAGACTTTGAGTGACTG
TTAGCCTTGGCTACACAGTACCCTATCTCCAAGGAAAGTAAAAGAATCGTCTGAGGAGTTGGAAATACTAGGTTGTAGTTGAGTTCCCTGTATT
CTCAAGGCTCCAGAGTTTAGTCCCTAGAACCTCATAAAGAAAAAATTTTACCAGAGGACTGAGGTGCAATTAATTGGTGAAGTACAATTTACTG
TGAATTCAATCTCTAGAACTGAAAAAGAAATAAAAGTTGTAGCTGAAAAGAAACTGGATGTCTGTGCCTAGTTCTGTGATAAATTTTGTGACTA
AGGATGGAAAAGGATTTTATTTCTTGTCACATATATATGTTGTTCTTTATAAAGGAAATTTACATATCAGAACATAGCTTGGCAGGGTATGATG
TAGTACAGCTTTAATGCAAGCACTTTGGAGGCAGAGACAAGTAGACCTCTGTGAGTTTGAGGTCATCCCGGTCTACATAATAAGTTCCAGGACA
GTCAAAGCTACATAATAGAGGAACCCTGTCTCAAAAAGGCAAGTGAGTCAGTCATACAAGCATGGTCTGATTAAAAGTGTCAGAGGGCTCAAAA
TGGCGTGGTTGAGTTTTACCTCAAGTCTTTGATGAGCTTCAGAAGTTCAAATATGCCCAAATATACTTGTGGCTGAAATACCTAGAATGTATAT
ATTTTGATTACAATTTGAAGTTAAAACCTGTATGTCACTATCACATGGTAGACCTGGGAGAGCCTCTCACCCTTCCTTAAGAGCACATTGTGTC
TGAGTAATGGTGCTTCCCAGAATTGCTCTCACTCAGTTACTTCCCAGATAACTGAGATTCCTTTGCTTGTTGGTCATGCTTGCCTTATGCAGTA
TATCCTGCCTCAGTCTACAATGCAGAGAACTGCAGGTTCCAAACTAGGACAGAGTCATGAGCAATTCATAATTCACTATAATTGGTGGCCTCTT
TTGCCCAACCATGTGCAATTCTGATGTCATTTATCATCTCACTACCACACAGTTTTATAGAGACAGGTATTCTAATTTATCTCTGTCTGGGAAG
TTTGAGAGTTCGTTTTTCTTTTAATTTTGAGGGATAGAGTCTGGGCCTTAAACTTGTTACATAGTGACCTTGAACTAACACTCACACACACACT
CTCTCCCCCTCTCCCTCTCCCTCCCCTTCCCCCTCCCTTCCTCCCTCTCTCTGTCTGATTTATGGTTTCTCCACATCCCACATTTATGAGTTAC
AACGTATGCTACCATTGGAGCTCATGGTTGTGTTCTAGTTTGATTTCTACTGGTGTGATTAAACACTGAGCAAGAGCAACTTGAAGAAGATTTT
GTTTGAGTTTATAGTTGTAGTCTATCATGAAAGGAAATCAGCAAAGACCGCAGAGGAATACCGCTTACTAGCTTTCTCTTTAGGGCTTACTTAG
CCTGCCATCCAGGACTACATGCCCAAAGACGACACTGCCCACAGTAAACTGGCCATGCTCACATCAATTATTAATCAAGGACATACCCATAGGT
TTACCTATGTGCCAATAAGATGGAGATATTTTCTCAGCTGAGGCTCCTTCTTCCTTAGAGGACTCTAGCTTCTGTCCTATCCCACCCCACCCCC
AATATAAATAAAAACAGGGCAGGTGTTTAAAATGGATTAAAATGGTTCCTGAGTGGGTAGTGTTTCAAGCTTTTCCCATAATATTCAAGCTTTC
TTGCTGTCAGTATGAACAAAACTGTGTCCTAAATATTTGACATGTCTCATGTCTCTGTGTATCTAATTTAACTTGGAATAAAAAAGAAACCCGT
CAGAAGCAGGTCAGATCAGTACCATCTCTCGGGTGATAAGAGAAGAGCTGGGGAGTCTGGTCATCCAGGTGTCCCCAGGGCTGAGTTGTTATCT
GACACTCATGGTATTCCATTGCTCAAGCATTGAGATCCTCTTTCTTATTATTAAGTGTATTATATTTTAAGCGAATGTAGCTTTAAAGCTCTAG
TTGGTCACCAAGATTTTTTGTTTCTGTTTTTTCTTTTCCTTTATCTTTTCTCCAGGCTCCTTGTCAGCGCCTCTCAGGATGGAAAACTCATCAT
CTGGGACAGTTATACCACAAACAAGGTGGGCAGTGCAAGACCCTCCCTGGAACAGTGACAGTCTGTTCATGGAGCAATGATGACCTCGGAGGGT
GATAGAAGAGCTTGTGTTGCTGACCCATTGAGCTTGGCACACAGTTGTGCTGTGGTTCCTGTCTTGGCATGTAGATAGGAGCTGAGTGCTTCCT
TGTCCTTGCACAAGAGCTACACTCCACTCCTAGTTTTGACTGGAAACTTTCCTAATTTATTACTAGAATACTGCAGATTCCATTTGATTT
AGTAGTTTGTTTTGTAGTAACAAGAGATAATCTAAGATGCACTATACTTTAATGTTTAGTGGAGGATTGGGAATGTAGCTCAGTGGTAGAATAC
TTGTCTACTGGGCATAATTCCCTGGATTTGATTCCCATAACCAGAAAAGATAAAAAACCAATGTAACCCAACAGATTGGTAAAAGTCTGTGATT
CTAGTAACTCAGGAGGCTAAGGTAGGATGATCGAATAAACCCAGAGGGCAAACCTGCCATGGCTAGATAGGGGAAAGGAGAAGACAGAGATACT
AGGTAGAATGTTTGCCTCATAGGTACAAATCTCTGAATTAAATTTCCACTTCTCTTATATTGAAATAAATTACACTGGGTATGGTGGTACATGC
TCATAATCTATCATTTGAGAATGTAAGCAGGAGCCTCAAGCATTAAAGATTATGCTTACCCACATAATAAAGTGAAACCAGCCTGAACTACATG
AGACCTTGTCTCTAAAAAATAGTATTCACAAAAAACCAAACAAACGGGGCTGGCGGGATGGCTCAGTGGTTAAGAGCACCGACTGCTCTTCTGA
AGGTTCTGAGTTCAAATCCCAGCAACCATATGGTGGCTCACAACCATCCGTAATGAAATCTGATGGCCTCTTCTGGAGTATCTGAGGATAGCTA
CAGTGTACTTACATATAAATAAAAAAAAAAAAATTAAAAAAAAATTTAAAAAAACAAACAAAAAGAATACATTTAAATTCTGAGTGGTTGCAG
TGGCCAGTCTATAATTCTAGCATTTGGAAGACAGAGACAAGGAATCCACAAAGCAATCTGGTTATCTAGACCTACAGACGAGCTCTAGACAGTC
CTGAGGAACACTGTCTCACAGAAGAAGGTGGAGAGCAGTCAGGGGAGGGCCCGTGTCAGCCTCAGCCTCCGTGTGCACAAGCACACATGCGCAT
AAAGTACGGGGAGCCGAGCCAGGCGTGGTGATACACGACTTTAATCTCAGAAGTTGGGAGGCAGAGGCAGGTAGATCTCTGTGAGTTAGGGGGC
CACCCTGTCTATAAAGTGAGTTCCAAGACAGCCAGAGCTCTAGAAACCCTGCCTGCAAAAACGAACGAAAAGGTGCAGGGCTGGAAAGATCGCT
CAGTCACTGCCTGATTTTTCCAGAACGTCTTGAGTTTTATCCCCAGCGTCTGCGTAGTGGTTTGCAGCCTTCTGTGTGTCAGTTAAAGGGGAAC
CCAGAGCCCTCCCTCCTTTAGCTTTCCAGGCTCTGTACTCAGTTAATCAACAGTTAATCAAATGTTCCTACAGATAACATGAAATTAAATCTCA
AGACAAGTTTTAATGCTGTCATCAATTAAGGAAAAAAAATTGGACAGTTGTATTTTCCCTCAAAATTAGTAAATACATGCCAAGATTACAGAAT
GTTAACTGCTCTATCTAAACAGCAAGACTAACTGTGTTACCAATGTGCAGTTAGGTTATTGCATGTGTGTGTCAGAGAGAATGAATATGAATGA
GTTCTGCCTCAGCTTCTTTATTGCTGGGATCGGCATGAATCACCATGCCTGGCTGTTTTTTATGTGCTTGTCTTTGTTTTTTTTTAAGCTCATA
GCCATGATAAATTAAAGGGGAAAGTAAATCTTTTCAAATCCTATTAACATCACTCCTTAAATCATTAAAATGCAAATATAATTTGTGTTTTCTT
TGAGATAGTTTTCCATTATGTATAGCTCAAAATATCCTCAAACTTGCCATCGGGGCTGGTGATATACACCCTACTGGACAAGACTTTTGAGTTC
AAGTCTCAGAACCAAAAAAGACAGACACGACAAAAAGCCCTCTTTTTCTTTCTCTTAGCTTTCCAACTCCTAGATTCACTGACGTATGCCATCA
CACCTATCTACTCATTAGGGTTTTTTGTGGTTTGGTTTGGTTTGGTTTGGTTTTGTTTTTGTTTTGTTTTTTTAGAGACAGTTTTA
CTATGGAGCCCTGGCTGGCCTCAAATTCAGAGATTCACCTACCTTTGCCTCCTGAGTGCTGGGGCTACAACATAAACTATACACCCAGCTGTAG
TCATATTTTCTTGAACTTAATAGTGTTTCCTGTCTGTATTCTTGTTATTTAGGTTCATGCCATCCCTCTGCGCTCCTCTTGGGTCATGACCTGC
GCATACGCTCCTTCTGGGAATTATGTGGCCTGTGGTGGCCTGGATAACATCTGCTCCATTTACAACCTGAAAACTCGTGAAGGGAATGTGCGTG
TGAGTCGTGAGCTGGCGGGACACACAGGTACACATCTCATGTTCCAGTGGTGTAAGCTGCTAACTGGGATGTATACTGCTCTTGTGATCTGTTG
ATTATTGGTTCAAGTAAAAGTGAAAGTAACGGCCAGAAATTTTCTGAAAGTGAAGCCAAACCAGGGCCAATATGCCTTCATCTTTAAGAAACAT
GGAAACTGGTTTTTTAGCCAGTTTTCGAATTCCCAGCTGCTTCAGCCATTCTTGTTTATCAACGAATTGATGTTTCAGTCCTGTTTTTAAACTG
CCTTCCATGCTTGGACATTAGCACAGGAATTCTCCTAGTCTAAGCAAGTGTCCATATGCACAGCCATATCTGTTTGTGCTCACTGACCAGTGCT
TTTTTAGAGGAGGCCGAAGAGAGTCTGTGGTCCATTCACCTTTGAATGTAACCAGCATTAAAATGTTGGGTGCATATTTTTGGAATTCATACA
ACACCATTTAGGACACATTGCCTTTCCAAGGAAGAAAGTCTCATAGTATTTTCTATCTATCCTGTCCCGCAGTGATAGGTAAAACACTCTTCGC
ATGTAAGCAAAGGATTGTTCATAATTAACTGTCATGAAGAACATGGCAGTTTTGTGTTTTAACCCTTAGGGTCAGGTAGGATTGCATCCTTTGG
TGCTTCTTAAGTTACATTGCCAGTGTTTATAACTACTTCAGGAATGCTTGCTTCTTAATATTCTGGCTTTAGCTGGAAGCATAAGCCACCAGTT
TTAGATCTCTTCTTTCTCAAATATATGAACTTAAAAGTGGCCAAATCCAGGCTGGGAGTGGTGGCGCACGCCTTTAATCCCAGCACTCGGGAGG
AGGTAGAGGCAGGAGGATTTCTGAGATCGAGGCCAGCCTGGTCTACAAAGTGAGTTCCAGGATAGCCGAGACTATACAGAGAAGCCCTGTCTTG
AAGGGGAAAGAAAAAAAAAAGGCAAAATCCATACAGGCATGGCTTCCTGTAAATTTTGATCAGTAGTATTTAAATTACTCTTCTAGGGGCTGGC
GATGTAGATTCGTTGGTAGAGTATTTTCCTAGCACACACAGTTCTAGGTCTATCCCAGCACCATAAAACTGGACATCATGATAATTTGTAATCC
CACCTCTCATGAAGTGGAGGTAAGAGGATGGAGAATTCAGTGAGTTTAAGGGCAGTCTGGGCTATATGAAACCCTGTCTTAAAAAAGAAGCATG
GTATAGTTCTCAAGTATATGATAGAAAAGAAAACAATCGGGGAGAAGTCTCGGTGACTAAGAACAGCCACTGCATAAGCACAAGGACCTGGGC
TCCATCCCAGCGCTCACAAGCAGGCCTGGCGTGTGATAATTTCATCATTGTAGGCTGACTCCAGCCTCGTTCAGTGAGAGGCCCAGTCTCAACG
GACTATAGCAAACAGTGATAGAGCAGGATATTCAATGTCTGGTGTCCTCTGTTAGTCTCTGGATAGGCATACACCACATACACAAATACAAGTA
AGACGGATATCTAAAAATCCTTGGGGGGGGGGGGTCCTGTTGAATTTGTATTAATTTTTTTAAAGATTTATTTATTTTATGTATGTGAGACAC
TATGGCTGTCTTCAGACATAGCAGAAGAGGGCATCAGATCTCGTTACAGATGGTTGTGAGCCACCATGTGGTTGCTGGGAATTGAACTCAGGAC
CTCTGGAAGAGCAGTCATTGCTCTTAACCGCTGAGCCATCTCTCCATTCCCCCTAAAATATATTATTTAGAGATTTGGAGAGATGGTTAAAAAC
ACTGGCTGCTCTTTCAGATGGCCTGGATTCAGTTCCCAGCACCTGCATGTGCCTTACAGACTTCTATATGTAATTCTAGTCCCAGGGAATTTCA
TGCCTTCTTCTGGCTTCTGTGAACACCAGACATGCTTGTGGAATACAGACACACAGGCAGTCCTGGTTTTATTGCTGTGATGTGACATCATGAC

CACAGCAACTCTTAGAAAGGAAAACATTTCATTGAGGCTAGTTATATAGCTCAGAGGTTTAGTTCATTATTGTCATGGGAGGAAGCATGGCAAC
ATGCAGACAGACATGGTGCTGGAGAGGTAGCTGAGTTCTATATTTGGATTCCCAGACAGCAGGAGAGAGTGACACTGGCCTGTCTTGAGCATCT
GAAACATCCACCCACCGTAGCCCTCTTCCTCCAACAAAGCCGTTTCAACAAGGAGGTGTTCCTAATAGCACCATTCCCTATGGGCCCGTGGGGG
CCATTTTCATTCAACACACCACACAGGCAGAAAATTCATATACATTAAAAATTTTGGGGCTGGAGAGATGGCTTAGTGGTTAGGAGCACTGACT
GCTCTTCCAAAGGTCCTGAGTTCAAATCCCAGCAACCACATGGTGGCTCACAACCATAGTAACAAGATCTGACATCATCTTCTGGAGTGTCTGA
AGACAGCTACAGTGTACTTACATATAATAAATAAATAAATCTTTAAAAAAATTTTTTTTTGAGAAATATTTAACTTACTAGTTTTTAGCTAATT
TTAAATTTGAACTGGTGGTCTACCAAGACATCATGCTATAAGAAACAGAAACTGTATTATCTGGTTGTTGGGCATAGTGTGTGTCTGTCTTTCC
ATCAGAAGGAAAGAATCTACATCTGTGTATTTCAGGTGTTGCATGTACATTTATTGCTGCTGTCTGTATCTCCTTGAATGATCGGTTGTTTTAT
CATGGCTTAGTATCCCCTCTCATATAATACTTTACTGTGAATCTACTTCATGTGGGGTTTTCAGCCAGCTCAGCCTCAATGCTCACTGTCTGCA
TGACATTTTTTCTTGTTGATTGTTTTTCTAATAAGTTGTCTCATACACAGCATAGAGTTAAGTCTTCACTTCTGTTTAAAGTCTCTGCCTTTAG
GAGCTGGGAACGTAGCTCCTTTAGGAGCTGGGAAAATAGAGTGCTTACCTACCATGAATGAAGCTCTAGGTTTGATCTTCAGCCCAGCATAAAA
CCAGATCTGGTGATGTAGCCCTGTAGTTCAAGCACTTAGATAGATGGAAGCTGGGAGTTGAAGGTAATCCTTTACTGTGTAGTGAGTTTGAAAC
TGCCTGAAGTACACGAGAGGTAGCTTTTAAAATAAATGGTTGGGGCAAGTCCTGTACCTTGTAAATACTTTACATATAGTTTCTTCTTGACTTA
TAATGAGGTTATATCCAGAAATATCAATCAATCAATCAATCAGTCTCTCTGTCTCTCTGTCTCTCTGTCTGTCTGTCTATCTGTCTATCTATCT
ATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTAGGGTTTCTCTATATAGCCCTGGCTATCCTAGAACTCA
CTCTGTAAACCAGGCTGGCCTTGAACTCAGAAATCTGCCTCCCAAGTGCTGGGTATCCAGAAATCTCTTTAATGTTTAAAATATTAGCCACTGA
ATTATGTTGACTCTGTCTAGCCTGCCATCCCACATCTTCCTCATCTTATATTGACCAGGCTGGCCTGAAATCTGCCTGCCTCTGCTTCCTGGGT
GCTCAGATTGAAGTGTGTGCTGCTTCGATGGGTGTATAAACTCTTTGTAGCCTAGGACATTTGAGGCTGCTGTGTTACATTCTTACAGTCCTGA
CAGAGAGCTTCAGTTCATTGCTGATAACCAGTACCCTGGGCAGATTATACATACCACTTATTGATAGGTTGAAAGAATTGCATTTAAAATTTGA
AGTTCATTTGCACTAAAAAAATCCTAAGTGTTCTTTGGATGTGGTTGGAGTTGGTACTTAGGGTGGTTCTCTCTCCCCTCTGCTTTCTTTTCTG
CTGTCTGTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTCTCTTTCTTTCTTTCCTCCT
TTCCCTCCCTCCCTCCCTCCCTCCCTCTCCCTCTCCCTCCCTCCTTCTCTCTCTTTCTCTCTCTCTCTCTCTCTCTCTTTCTTTCTTTCT
TTCTTTCTTTCTTCTTTTGGGTTACTCTGTTTCTAGCTCTAGCTTGCTCCAGCCTCTGCATTCTTTTCCCTCTGCCTCCCCAGTGCTGTAATTA
CAAGTGTGCACCACCATGCCTGGATTCAACATTGTGTTTGAAGAGTTGTATAGGCTCACATGCACTCAGACAAACAACGTCCTCATTTCCAGTG
CTGTGTACTCCTTCCTGGGGGGGCATCTCTTTTTCTGGTTTCCTGTATGCCAAAAAGCTACTCCCTCATAACACCTACAGTTGTACATTTTGCC
AGTCCCTTTATGTGCTATTTTTTTTAATGTCTGTATGTTTGTTCAATGAAATTTAATTTACAAATTAAAGAAAAGAGATTAACAGTAAGCAGTA
AGAAGGTAGTGCAATATAGCAATACACTATAATTAAGTTTTTGTTTTTTTTTTTTTTTTGACTCATGGCACTGAGAATTTTATTTATTTATTTATT
TATTTATTTATTATTTTTTAAAGATTTATTTATTTATTATATGTAAGTACACTGTAGCTGTCTTCAGACACTCCAGAAGAGGGCATCAGATTTC
GTTACGGATGGTTGTGAGCCACCATGTGGTTGCTGGGATTTGAGCTCATGACCTTCGGAAGAGCAGTTGGTGCTCTTAACCACCGAGCCATCTC
ACCAGACCTATTTTTTATTTTTTAAGGAATTATTTGTTTCTGGAATTTGCTTGGTTTCCATGGGTTAACTGAAACCAGATGAGGCTGCAGTGGT
TAGAGTAAACTGCTTGTGAGAAGTCTTGATTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAAGATCTGTTTTATAGTAGTAGTAGTTGTTGTTGTT
GTTGACAGGGTTTCTCTGTGTAGCCCTGACTATCCTGGAACTGGCTCTATAGATCAAGTTGACCTCAAACTCACAGAGATCCATCTGTCTTTGT
CACCACCTTTGAGTTAAATTATTTTTATTGCTTTTATTTATGTGGTGGGGGTCAAACATGAGGAGATCGAGGATGATTCTATAGAGTTAGTTCT
CTCCTCTCATCTCTGCATGGGGTCTGAAGATCAAACTCAGTAGGAAGTTCCTTTACCCACTGATTCATCATGCCAGTCTTTGACTTTCATGTGT
GTGTGTGTGTGTGTGTGTGTGTGTAATTAAGAGGACAACTTGTGGGAAGTTGGCTTTTCTCTTCCACCATGTAGGTCCTGCAAATTGAACTC
AAGTAATCAAATGGCAGCAAGCACCTGTACACATGGTCCCATCTTGCTGGCCCTTGACCTTTATTCCTGAAGGATAGTTTTGCTGGACATACAG
GATTGATGTCACCTTACATACAGTTGGTGTCACCTTCATGTGTATGTGTGTTTCCCCTGCATAAATGTTGATGCACCACATGCATGGCTGATGC
CAGCGAAGCCAGAGTGAGGGTACTGGGTTTCTCCTGGAACTGGAGTTAATAGTTACAACCCATCGTGTTGGTGCAATGAATTGAATCTGAGTCT
TCTAGAAAAGTAGCCACTGTTCTTAACCACTGAGCCATCTTCTCAGCTTTCAACATTTAAAAATATAACATATTAAAGGTGTATCTTTGATTTT
TGCAGTTTGATGGTGATATTCCTAGACGTGTAACTTTCTTTATATTCTTGTGTTTGGCATTTGGAACTCACTAAAATATGTCTTTTGCTAAATC
GTAAGGTTTGAGCTGTGTCTTCCAATGCCCTGGTTTCTATGGTTTTGGGGTGAGCTGCTTCAGTTTCCACTTCCTCACGTGTTTTGTTTCTATT
CAAGTCAATTCAGTTGACTTTGGTCACTAGACAACAGCTTTCCTTCTTGTTAGACCAGCAGTGAGCAGCATTTGAAGGAAGCTCAGCTGGAGTA
GACGGCAAGGGCACAGACTGGGCTGGGGAGGCATGGAGAGTGCTCACATAAGTGTCCACATTTGTGTCACATGGTCTCTTCAGATTCAGAATTT
CTGTGTTTTTATTTTAAAAGATCCCCTCTACAAGCACTGAGGCTTTATGTCTTCTTATTTATAAACAAGATTATTTCTCATGTTTCTGAATATA
ATTACAAGAGCTAAATGTAAAATGTCAGCTAATTGTAGCATCTGATCTTGAGGTATATCTTTGTGGTCCTTTCCTCTTGAGTGTGGATCACACT
TTGCCATTTCTTAGTGCACTTGCAGCCTTGGCAATATAATTGTCATAGCAACCGTGGGCTCGTTATGTTCCTTTCAGATGTCTGTTCAGTTTCA
TCAGGTTAAGAAACACATACATAGCAGCAAAACTCTTACTTGTCCTCCTGTCACTGGAGCTGTCTGTGGGTTTGCTTGCTGCCTGTGTGCTGTT
GCTGTTAACTATTAAAGTGCCTGTCTGTGTAAGTTAGGACTGTTGGAGGCTGCTTTAGCACTTCTCAGGGATGTTCCAGCAGACTGGCTGATCA
TCCAACTGTGTAAGACAAAACCATTGAAGTCCGTTGAAGAACAGGCGGTTGTCCATTTACGAGTTTCCTATGCCCTCCAGGGTCAAAACTTAAT
AGAATGTATAGGCTATCTTATAGGATAAGGAAACCCTAGAAATGGATGTAATTGGGTTCACAATAACTGAAAGAGTGTTCATTATTACTATTTA
TATTATTATTTATAATTTATAGGTAGAATGTATATTCTTTTTTTTTTTAATTCAAAATAATTAGCCAGGTGCTGTGGCATACTCCTTTAGTTCA
GCACTCAGAAGGCAGAAGCACAGGACTCTGACTTCAAGGCCAGCCTCATGTATAGACTTGAGTTCCAGAACAGCCAGGGCTACAAAGAGAAACC
CTGTCATAAACAAACAAACAAATAAGACAGGCACATACATATGTACATGTGTGTGTGCGCATGCGTGTACGTGCACTTTTTTTTCTTTTTTTTTT
TTTTGAAAATGTGACTGTTGCCTAGATACTATTTTTAAGGCGACTGGAACGTAGGCACAGATTGGTCTCAATGCTAATCCCTAGGGACTGATGA
AGAAAGAGTGGAAAGGTGGCCTCAGAGCTGCTGTTTTGAGACCTTTAGTTCTGGTCCCGAGGGCCATGATTTGCCTGCCCTTCTGATGTAACAT
GGCGTTGCCATTTAGTATTGTGACCTCGTAGAGTGAGTAGCTAGAACATTCTGGTGTATAATTTTTTTCATCTAATGAATAATTGGGTGTTTTA
CATATTTATGAATACAGTGGGTTGTCTTTGGGTTTTTTTTTTGTTTTTTGGGGGGCTGTTTGTTGGTTGGTCTGGGTTTTTTTCTCCCCTCCCT
CTGAAGAGTATTGGTGACCTTGGATATAGAAAAAAAGATTCTGTCTGTCTGCAAAGTCAGCTGTGAAACACAGAGCTGGTCAGTTACTTACTTC
TGTTACTGTCGTCTTGGTGTCCCCTCCCTCCATGTCACTCCAGCAAAAAGGAAGTGCTACTTTCAGGGCTAACCACACAGGCAATTGCAGCACG
TACCTGTGCACAGAACCCATACATATCAGGGAAGTTCTCAGTGTCCTGCCTTGTTGAGTGAAATTTTTTTTTTAAAGATTTATTTATTTATTATA
TGTAAAGTACACTGTAGCTGTCTTGAGCTAAGACAGGATCACTGCTACAGGATCACTGTAGCTGTCTTCAGACGAACCAGAAGAGGGCGGGTGG
TCGTGAGCCACCATGTGGTTGCTGGGATTTGAACTTCGGACCTTCAGAAGAGCAGTCTGGTGCTCTTACCCACTGAGCCATCTCACCAGCCCCC
ATTGTGTGAAATTTTATGTAACCATTTATAATTTGTCCCTTGGCTTGGCAGATTTTACTCCACTCTGGCAGAACTATGTGACTTTCAGATATCA
GTCTTTTCAGTTACTCATTTTCTTCTCCCTCAAAATTTTTATTGTATTTTGAGGCAGTCTCGCTGACCCCTGTTCCATCCACAGCTTCTAAGAA
ATCTTTCCAGTGGGTGTCAGCAGAAACATAGCTATTCTGTGCATACTCCATATCACAGCTCTTGAGAAAGCAAGCGCAGTCACCCGTATTTTTG
GAGCCTTCCCACTGGATACTTTCAGTGTGCTTGCTGTTCCTCTAGTTGGCCTGTAGCCCTTTCTCCCTTGGTTCCGTCACTATCTCCCTTCTCA
TTGGTTCTGAGCTCCTTTGTGTCCAGCTGCTCTACTCAATAAGTAGATGAGCACACAAATGAGGATAAAAGGAAATGGAAAGACACAGGTGGAA
GGATGAGGTGTTCCCAAGGCATAGCTCACTGCTATGTGCTGTGCAGGTGTGGGTCCGTGTGAATCATGAACCCATTGAGTCTGCCTATAGTTTC
ACCCATCCCGTGACAGACGTTCTGGGCATTTTTATTAACGTGGTTTTCACAGGGAGAGGCTCCTAAGATTGAGACTTTCTAGTCTTGGTTATTT
ATTTGTGTCTGCTCTTTTTCAGGTTATCTGTCCTGTTGCCGGTTCCTGGATGACAATCAGATAGTTACCAGTTCTGGAGACACCACATGGTGAG
TACCTGACAAGGCAGCAATTGAGGCTTGAGGTCTGTCTACTGTTCTTGTTAATACTGGTTAGTAGGGTTACTTCCCATTGCAAGATAAATGCTT
CTTGATCATAACCTGACAATTAGAAAACAAAGTATCAATGAGTAACTCATTGCATCATCTGTGGATATGCAAAGTTTGATTTTGAACAAAGAAC
TAAAATGTAGATATTTAAACTATAGTTGTATATCAAGTACCTGGTTTTTTCTCCATTTATTTTTACTCATGTATGTGGTGTTTTTAGCCCTGTG

GGGTTCTTTTTCACTGTAAAAGTCAACTTAGCATATTGTGAGAATGAGTAAAGCTTTCAAACAGCAGCTCTGTCAGATTTGTTTATTTTAGAAT
GTTTGCTTACTAGTAGATGGAGACACATTCAAGTAATTTTTCCCTTTGTTTATTAATGAAATGACCAGCTGGTTATTTTAAGAGAATCATTTTA
AACTTAAGCTGCCCTTGTGGGTTTTTCTGGTCGTGGGAGACATTCCTGGGAGGTCAGTAGCAATATTTTAAATTTGATTTAGTAGCATGGCTTA
CAGGCTGGTGAAATCCAACAATGGACTATTGATGAAAATGTTAGCCAGGCGTGGTGGCGCACGCCTTTAATCCCAGCACTCGGGAGGCAGAGGC
AGGCAGATTTCTGAGTTTGAGGCCAGCCTGGTCTACAGAGTGAGTTCCAGGACAGCCAGGGCTACACAGAGAAACCCTGTCTCTAAAAACAAAC
AAAAAAACAAAAACAAAAACAAAAATGTAGTCAGGTGGACAGTGAAGATTAGTCATTACAAATTTCAAATTGCATGTGTTGATTATTTTCTTGG
TTGAAATATGTGAAACTTTTGTGCTCTGTGCTTCTTCCTTCCAGTGTCCCTCATGCCTAGCAAAGATAACCAGCATTCATTGTAGTGAACTTGG
TTGATTGGATTGGTGTTGCTGGGTGAGACAAGCTGGTGAGGTTGACAAGAATGGACAGTGTATCATGCTGTTGCTTCTGCGGGTTGCAGCAGGA
AGTAGCCTGACTGCCATTTCCATAGCCAGCTCCCGCTTTATGTAATGCTGATGATATCGTGGCTTTTAGCCACTCTGTCAAGCAGAGGCCCTTG
GAAAACCTTGTACATCCATGAAGACCATCTTTGGTTTATGGTCCTCGTTGCAAGAGGAGTTGGAGCATCAGTTTCTCTGAGCCACTTATTTACA
TTCCTAGTGTCTAGGAAGGTGGAAAATGAGGGGATGGAAAGAATAACACAGGTGAAACAGGCTCCTTTCTTTCAGACCTTAGCATTTTCTGCCA
TCCCACAAACTGCCCATGATTATCTTGTGTGAAGGACAGTGGCTCCTTTGCTGTAGTGTGAGGTAACCTGGAAACAGCAGGCCCATATGCTCAT
CCATATGGTTGTTTATTGTTTTCATTTTCTTTTCCTTAGCAAAATCTCATCACAGAAGTAAATGTGTCTTCCCCGTGGCACAGAAGTCATCTGT
GATTCTGGGTAGTATAGAGGATGTTGTTCTAGGTGATTGGTCCCATGTGCGTGCCTGATACCTACTTTTCATTTCTTCCTGCACCAGTGCCCTG
TGGGACATCGAGACTGGCCAGCAGACAACCACATTTACTGGACACACTGGAGATGTCATGAGCCTGTCTCTTGCTCCTGACACCAGACTGTTTG
TCTCTGGTGCTTGTGATGCTTCAGCCAAGCTCTGGGATGTCCGAGAAGGGATGTGCCGGCAGACCTTTACAGGACACGAGTCTGACATCAATGC
CATATGTGTGAGTTTAAATTGTCTGCTTTAGATCTCAACCTTTGTTGTTGTTGTTGAAGATTTGGGTTTTTTTTTAGGGTCTGGAGAGATAGCA
TATTAGTTACTTTTCTGTTGCCGGAACAAAAACACCATGATCAAGGCAACCTAAAGAGAAAAAACATTTCATTGAGGCTTACAGTTTCAGAGGG
CGAATCCATGTCCATCACTGTGAGGAGCCTGGCTGCAAGCAGGCAAGCATGGTGCTAAAGAAGTAACTGAGAGCTTCATCTTGAGATATAAATA
ATCACAAGGCAGAGAGTGAGTGAGCGAAAACTTGGAATGGCATGGCCTTTTGAAACTTCAGGCATCCAACAAGGCCATACTTTTTAATACCTCC
CAAACAGTTCCACGAACTAGGAAATGAAGTGTTCAAACTTGAGAGCATGTGGGATCCATTCTCATTTATATTTGTGTCTGCCTGTCTGTGTATC
TGTATCTGGGTGTGTGCATGCGTATTAGAGCCAAGTAGGCTGTTAGGAGACACCTGATATAGATTGGGTGAACCAAACTTGGTTGTAGTAAATG
GCTTTTAAAGTACCTTTAAAGTACCACTACCTTTAAAAACATTTTTTTTCAAAGTTTGTTTTAAAATTTGTGCTCTGGTTTTTTGTTTGTTTGT
TTTGTTTTTTCTTTGTGTTTATTCTGAGAAAAGGTCTAGTAGTATAACCTAGGCTTACCTAGAACTGGAAGTCTCTCTAGCACTAAGATCACAG
GCAGGCCTTTCTACCAAACCAGGTTGTCCTTTTCTTTGCAAATACAACCAGAGTCAGAGTGTTTTAGAAGCAGCTAAAACCCTGTGCTGTGCAT
ATATTTCAGACACTGATGAAGCCATTAGGTGCCAGCTCAACTCTTCCTTTTTTTTAAGTGACCAGTAATTTAGAGGCTGAATATCTTGCCAGCT
AAGGGAATGGCAAATTTAGAACTTACTTTCTTGCTAGCACCTCCTGAAGAGATGAGTCTGGTGACTAGAGCAGTGACTTGCTCCATCCTCCACA
AGTCCCTCCTGACAGCTCGTGTCCAGAGGACAGAAGCCCTTCAGCAGTGCCTCAGTCTCATTGCTTTTCTGTACTGAAGTCTGCCTTGTTGACA
GTGGCAGTCCATGAGTACTATGTCAGTACCCCCCTAGTACATCCCCCATTCACTCTAGGATGACAGCCCTTATTCTTGCTGGAACATCATCCTG
TTTTCCTTTCCATGGCAGCCATGCCTCTGCATTAACATCATGTCTTGTTGAACATTTACTTTTATGTTAGTATATATAATTCAGCTTGACCTTG
AATTCACTATGTGCCTGAAGGCTGTGTACTCTATTCCATGGTTGATTACAGATTACTACACTTTTTAGCCTCCTGTGCTTGTGCCTGAACTATG
GGCCTTACCCACGCCAGGCAAGTGTTGAATCAGCTGGCCTGTGCCCCAGGCCTCATTGTTTACATATGTCTTGATTTGTCCTCTCTTTTTAGTT
CTTTCCCAATGGCAATGCCTTTGCCACTGGCTCAGACGATGCCACATGCAGGCTGTTTGACCTCCGTGCAGACCAGGAGCTCATGACCTACTCC
CATGACAACATTATCTGTGGTATCACATCTGTTTCCTTCTCCAAGAGTGGCCGCCTCCTCCTTGCTGGGTATGATGACTTCAACTGTAATGTCT
GGGATGCACTCAAAGCTGACAGAGCAGGTCAGTGGCCACATGGCCTTTCTGTGTTTTGGGGGCACCAGCTTGCTTCTTTCTATGTGGTAAAATG
AGGTTCAGATGAGCTGAAATGTGTACATTTGTATCATCAGCTTAGTTATGTCATAGCTCAGCAGAGGGGACAGTTAAAGGCCACATAATTTGAG
CTCTGGCACTCCAGGAAGTACCAAAAGCTCTCCTGTGAGGAGAATGTGGGAGTTGATAGTATGCCAGATACCACTGAGTTCAATGTTCAAGTTT
CCCATTTTGTCCTGTGGGTATCCATGGTTAGCCTAAAACACTCTATTAGACCAGATGTCCTTGAATTTAAAAGTCTTCTGATTCAGCCTTCTAA
ATACTAGAATTACTGGTGAGTACCATCAATTTTCAATCTTTCTGACTCATTCTCTGTAGTCACTTAGCTTCTGACATATTCCACCATGGACAGC
TCCATCTTCAGCTGTCTGAGCCTATCTATACAGCTTTGGCATCTGATGCCATGCCCCTTCGTCTGTACAAGGTTGTTGAACACTGTGCTGGTTG
CTGGTAATGATTCAATTTAAAGCCTGAATTTAATATGTCAGAATCAAGTGGATTAAATACAAGCTGGACAAAAGATTAGAAAGTTTTTGTCTCA
AGAGTCTCCCTTTGAGCTCAAGCTGGCCTTAAGCTTCAAGTTGAAGAGCTTTATTACATTCAACAAATCTGCTTTGGAGGAGGGAGGGAGGGTT
GTGACCATGAATCTCGTGGGTCCCACTGTGGCTGCTTATAACCCACCAGACTACTGAATTGAGGACAGTTTTGGTGGCTCACACATTTAATCCC
AAGTCTCAGAAGCATGCAAATTCTGTGAGTTGTAGGATAACCAGGGCCTGTCTCAAAAATAAAAATCAACATTTCTGCCTTTGCCATTGTAGCC
CAGGAAGTTGACTCTGAGTTTAAGAGAACCTTCCAGCCCTTGTTCTTAGTTGGTACATCAATAGCTACAGGACTAAATGTTTCTGAAGTTTCAA
ACCCTTCTGTGAGAGAAGGGGTGTTTTAGCAGGTGATGTGCCATGTGACAATGGGTCCATGATTTCAACTGTAGGCTCTGTGTACCCTGTGGTT
AGTTGTTCTGAGTTTACTATTCAGGCTTTTGGTTTTTTGGGTCATTATGTTTTGTTTTGTTTTTTTTAGAGATTTATTTATTGTAGCTGGACAC
TGGTGGGTTATACTTTAAATCCCAGCACTTGGGGAGGCACAAGCAGGCAGATCTGAGTTTGAGGCCAGCCAGGTTTACAGTGAGTTCCAGGACA
GTCAGAGCTACATAGAGAAATCTGTCTGGTGGATGGGGTGGATTTATTTATTTTATCAATATGAGTGTTTTGCCTGTGTACCTGCAGAGGCTGG
AAGAGGGTATTGCATTCCTCTGGAACTAGAGTTACAGATGTTTGTGAGACGCCATATGGGTGCTGGAAACCAAGCTCAGATCCTGAGACACAGA
TGGATGTTTATTCATTATTTACTTGTTTGTTCATTTGTATTTTCTAGACAAGGTTTCTCTGTAGCCTTGGTTAGCCTGGATCACCAGATCTGTC
TGCCTCTGTCTCCTGAGTGCTGGGATTAATCCAGCATGTGCGATTAAAAGGCATGCGCCACCACTACCCATTTTTGTATACTATCAGCTTTTTG
TTGGTGTACAAAAATTATCCCAAGGGGGTCTGTGTTTATGTCCTTGTTCTTCTTAGAGAAGAACATGTTATGATTGGTTGCTCTCTTTAACAGAA
TTGCCCATACACCTAAGGATCGTTTCTACTTGGATAAGAACCTTCTCCCTTTGTAGTGGCCTTCCCTTGCCCTCTTAAGTGCTTGTTTTACCAA
AGTCTTGTAGCGTTGTTCATCCAGATGAGCCTCCTGCTTTGTCACAGCCTCATGTGTGTTTGTGGTTGTGCTCTTTTTGTTCTCAGGTGTCTTA
GCTGGACACGACAACCGAGTCAGCTGCTTGGGGGTGACTGATGATGGCATGGCTGTGGCAACAGGGTCCTGGGACAGCTTCCTCAAGATCTGGA
ACTAAAGCCAGGAGGTAATGGGGCAGTCCCATTCCCAGGACATGGCATTTTCCTATATGGGTTATAGATTTACAGAGATCTTGTTGATCTGGCA
TTGTAGCAGATCTGCAGTGAAGGCCCTTAGCTGTGATGCAGAGAACAGTGGGAAGAGCTCGGGTTCTTTCTGTGTGCACTGACTCCAGGCTCTG
TTCACAGCAGCAGGTGGATGGATGCCATGGCGACTGGAAGACCATTCCAACCTTGAATCGTTACAGCGATAGCATATCCTATCCAACCATACTA
ACGTGGACACCCACACCTCCCCTCAGAACTTCAAAAGGGCAAGATCTTTTTTCCTTCACTTATTGCTGAAACCAAGAGCACAATTCCCATTAAG
AGAAGGATCTCTGTGCTGTAAACTAAACAAATTGTGCATTTTTTCTGGGGCCATTGTTTTTGGTTTATTTTGTTATTTTGTTTTGTTTTTGTTT
TTTTGGTTTCATTTTGTTTTGGGTTGGTCCAATTTTAAAAGGAAATACTACAATAAAAATGTTAACCAGAAGGTAACCCTGAGTGTGATTGTGA
GAGAGACACGCCTTTTTACTAGTTCATTTGCATTTAAATCAGTGATCCTGTTCTGTGGCATTCATGAAAAACAAGTTGAAGAATTTGTTATCT
GGAATTGTTTCTAAATATAAGTCATTTGTAGCAAGACTTTGGAAGCATTCTTTCTTAAACATATTCCTTTATGTTCAGTAGTTAAGAGAACCAG
GGCCCACGGCGGTCTCTGACTTGTCACTGATGTTTTTTTTTTTTTTTTGTCCCTGGCTTGCTTTTTTTTTTTTTTTTTTTGTCTCATGTCACAGA
TGACTGTTTCGCACAAACACAGCATAGTGGAAGAAAAAATTTCAGAAGCAAAGTAGCCAAGCACATGTTAGGATGGCCACGAATGCTTGGTCAG
AGTCCTTCCTTCCCTTGCTCAGCAGCGGACTTACTCCCAGCGCCTTCCCTCCCTCCTGTCCCTCCCTCACTGTCCACTTTCTGTTCTT
TCCTTGGGTTTCCTGTGAAGTTGGAGGGACGTTTGTAGTCATGTGACACTAGCCGTCCTGCCCCTGCTGTCAGAGATTTTTTTCTCCAGAGAGG
TGCCTGTCCTGTGCTTGGATAGTCAGTTGGTTATTTGTGTATGAAACAATGTACAAATCAATGTTTTGAAAATAATGATCTCAGACTTTCTAAG
TTAAATTTTAAACAATTTGATTGTTTGCCATATTGGGTGGGGTTACTCTTAGAATCGCATGCTGTAGAAATGCTCTAAAGTGCATATAGGACTC
AGTCCTTAGATGTTCTTTTTATTTTAAGAAATAACCTCTTCAAGTTGTAACCGTGGCGGCTTTGTCCATTACTGTTGCTATTCTGCACACATAT
CGGAAGCAGCAAGCGCTTTACACACTTGAGTAGTGGGATAAGTCACTGTTTTCTTTACTTTACAAAACAAAACAGTCCTGTTGGGAATGATTGC
TGTTGGATTCTGGAAGGGAGGGGAAAGCTGCTCTGCTGCCTCTTTGCCACTTCCTGGAAGCCTTCCTCCCTGGAAGAACAGCCTTTTGCATCTG

AGGCGACCATTTTTACACCATGCAGATCTTCGTGGTTATCATCTCAAAGCCATGTTCAGCAGCAGCGTTTGGACAGCAGTGTTCTGTGGGCCCT
CCCCTCCCCCATATCCTGCACCCCCTCATAGCAGTAGTGGCTTCGCCATTCTGTTTTCTGCAGTGTCCTGTACAAAACTGTGCTGTGACTGTGC
GGTAGGCCTGGACATGGCAAAGAGAATACAGCGAAGCCCCTTCTCTTCCTACCAAACAACTCTGTAGAGCTCTCTGCACCCTGTACCCTTTTCA
CCTTTTGTATTTAATTTTAAAGTCAGTGTACTGCAAGGAGGCTGGATGCAAGATAGATACTATATTAAACTGTACTGTTATTTAAGATGTAATA
AAGCAGTTTGACATGAGGGACTCTGGTGTGATGGTTATTTGAGGGTCATCTTCAGTGTGTGGGGGTTTGCCCCAACTGCTGACTCAACAGTTAT
ATAACGTCATGAGAGACCCTTATAAAAGTGTCAGCTCGGGCTGAATGTAGTAGTACACACCTTTAATCACAACACTCAGGAGGCAGGGCCAGAT
GGATCTCTGAGGTTAGGGCCAGCCTGGTCTACTTTGCAAATTTTAGGACTGCCAAGCAATATAGACACTGTCTCAAGGGACGTGGGGAGATGGG
CTCCTGGGAGGTTTCTGGTATATATCTCAGGTCTGCAGAGCCACATGTTTATCACGACAAGTGGCCTTTCACCCTCAGCACCTGGGCCCTGTCT
GCCGTCTCCTGCTGGACCAGCCAGCTGCTTCGACTTCCTCTTCCTGCACTAAAATGTCTGAGGACCTGCCCCTCCAGAGATACTTTCCTGTTGA
CTAAGCACCATTTCCTTCTCTGTCGATAAAGGTCACTGCATCTTGAAGGAGCGAGTATCAACCCCTGAGTTGTTGGACTGCCATTCCAGCTTCT
GACACCCATTCCACTGCAGTGCCTGCTTCTAAGTTTTATGATAAAAATTTAATCTTAAGGTTTTTTTTGTTTGTTTGTGGTGAGTTTTTTTGG
TTTTTTTCAAGACAGAGTTTCTCTTTGTAGAACTGGCTGTCCTGGAACTCACTCTGTAGATGAGGCTGGCCTCGAACTCAGAAATCCGTCTGCC
TCTGCCTCCCAAGTGCTGGGATTAAAGGCGTGTGCCACCACACCCGGCTTAATCTTAAATTTTAAGATTATAAAACATAACTGATCTTCAGGCT
CACATCCCCTAAACATTGACTGGCCCCAGCCACCTTGTTTGGACAATGGTAAGCAAACAAATCCATCCAGGGTCAGCGGTGGCCCCTGATACCA
CACATTGTGGTGTGATGGGCAGGTCCAGCAGATGGGATGGGATGGCCTAGTCTAATCCTCTCCTAGTCTCCTTGAAATAAATGTATTTTTCAAC
ACACACATTTTGCAAGTCTTTACCTACCTCAACTTCCACTGAGAATGCAAAACATTTGAGGTCCTTCTGATCTAGAAGGTGAAGCTCTGACCCT
AACTTCAAATTCTCTGGGAGTACATGTCTTAAACTGCTTCTAACCTACCTGACAACAAGCAGGCCCCAAATGGACTGGGGTAGATCTGTGTCTC
AGGCCTGTCCTACTTCTCAACCAACATCCAGGCCGCTGCCCACTTGTTTAACAAGCAGTCATGGAAGACATGTCCACTTTGGATATGTGGGCAG
TATTAATGACCAAAGAGCGTGCAGGCTTCACAAATGCTCAGGCTTACACATCTACATCCACCATTAAATACCACTCATGCTCTGGAAGCTGAGG
TGCCCGTGTGCTCTGTGTGTTGCTGCCCATGGTGGAAGTACACCTGTTGAAGTGCACACAGGCAGATAAGGGGCTGCTGCTATATTTTAGACCC
ACCATGTCTCATCATTTTCCTCCAGCGTATGGGCTGATGCCATTCCATGACCCCAGGATTCCAATTCTTCTGGCCTGTAAAGGGAGCCACCTCA
TTTATTTGCCAAATACTAGAGGCTGGAATCCTGATGAAAGGCCAGCCGGGTCCAGCTTGTGCCGTCCACCGTTTCCTTTGGCGCCTACTCTCTC
CTGCCGCTCTCACTGTGCTCCTGTATTCTCAGTACAACCTGACACCACCAGCATTCTGTTAGACCAGTCCAACCCCTCACCATCCAAGAGCAGC
CAGCAGTCTTTCACCTCTGCCTCTTCACACAGGGTGATCTTGGGACAAGGTGTTTGCTCTGGGAACCCATGAATAGTCTGGCAGGAATTCTATG
AGAACAAAGTGCCTGGTGTGAGATTACAGCTGGTGACTATGTAACCCACTGTTCCCTTGCCTGAGACATTTCTAAGCACCCTAGGCAAGACTAC
TCTGCTTGCTGTATCCAAAACGTGAGTACCTGGCAGCTGTCCCACTGATTTGGCAGAAGAAGGGATAAGGTTGCCCCTCACCCACCCCAGTGAA
GTGACCCTGATGATGACCTCAGTATTGGTCTTTACCTATGCCAAGTGCACTTTCGGAGAATGGACAAGATAACTAGTATCCCATGACAATCAAC
TCTCCTCTAAAATACACTCTTCTGGCTAGCTGTCACCTTGTTTAGGTACTGGACAGCCTTCACAAAGCAGTTTATCCCACCCTGGTCACATGAA
ACCAACTTTCCTCTTAGTACTAAGGCAGGACCCAAAGAGCTACAAAGCCTCCCTGATGCCTGCGCCTGAGAGCTTACCTGAAGGGACACCCCCC
CCCCATGTGACAACCTAACTTTGGGCACAGGCCCATCCTGTTTCCTCCTTGTTCTTCCTCCTCCCTTATCATTTAGCCTTTGAAGAGTAACCTC
CAGGTACTGGAGGCCTGAAGCAAAAATGTGTGTAATTGCCTTGATTTCGTCCTGCTACCTCACTCATCCCCATGTGACCTTTATTCTGCTGCTCC
TTGAAGCCAGCCCAAATTAAACACTCTAGGAGTCTTTTGAGTACCCTCTTGCCATTCCAAGCCTTGACCTTGACCTTGGCGACTGTCTTTAGCA
CAGTGGTGGGAATGAGCACTTGGTATCTGAGTCTTCAGAGTTTGATGGGGCCCAGTAAAACATTTCACAATGTCAGCTTTGTTCCTTCCTCAGA
AATGGAGAAGCCACCTGCATAATCTAGGCCTTGCCCCCACTGTGTAAAACAGATTTCCCTAGCAACCACTGGACATCTGCTCTTTAATTTAAG
GCTACACAGGTTACTTGGTATGTGACCTTGGACTGCAGACCATAGACTGGGTGCCTTTGCAGAAGAATATGACTGCTCCCACTCTGGATGTCTC
TCCAGGTCTGCTGGCCATGTGCCTGCCATTTACCACTAGATACCAATCAAGTGTTATATAATACAATAGCAGCATAGTTACAGCCTTCGGTGGG
TGTGGCTGGCGTTCACTCTGGGGAAGAAGTTAGGCTTACAAAACTCATGAGGAAGTTACAAAATTTAAGAAATCCCCGCAAATTCCCACCATCC
TCCCTACCCACTATTTTCCGTCCCCACTGCATTGATGTGTTCTTTTTGGAAGGACAGCACACAGGTCTCAGGAGTTCCCACCAGAGAACATCCT
GACTGCAGCAGGTATGGGGGGCTGTGGGGAAGCGTGGAGATTGGGCTATACAGGAAGGGCAATAGTGTGAACATCTTAAAACTACAGTGCTGGG
AGTCGGGACTGCGAAAACACCTACTGGTGCACTGTGCACACTGGTGGATATCAATGCACGAGCATGTCCACCAGTTCAGCATATCCCTGGCTCA
GCTACAAAGTCGGTGGCCTCCCTCTTTCCCTCCTTACAGCTGTGGGTGAGGCACGCTATTTACACAGTCGCTTCTCAACTATCAAGACTTTGTT
TTTCTTTTTGAGATAGGGTCTCTAACTATGGTACCCCTGGCTGGCCTCGAATTCCTAGAAATCCGGAGCTCTCATCTCTGGGATTAAAGTAGTG
AACCATTGTATCAACCAGCTGTCAGGTTTGTTACTTTCAGGCTCAAGTCCTTGACAGTTGCCAAAGGGTGTCAGGTCACTGCTGGTGGGCCTGA
GAGCCATATGAGCGCTGTCACCCGAGTTCTGCTTCTGAAAGATACCAGGTCCATGCGCTGGACATTAAGAACAACGTGGGAACAGGAGCCTGGC
ACGAAGCCCACCTTCCCACAAAGCTGGCCCGCGTTGTCCACATGGTCCTGGAGACCTCGCCAGCAAAAAGCAAACTGAGTGTGACGTAGGACAG
GAATAAAGATCAGACCGCGAGGCAAGGAGGCAAAAAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAA
GAAAGAAAGAAAGAAAAAGGAGAGAATCTGGTGGTTTTCTCTGTTGCTGCTGGGACTGAGCTTTTTGCCCCTCCTCGGTTACTCTTTTTTTTTT
TCTTTTTTTCTTTTTTTTCTCCCTCACCCCTCTGCCCCGCCTCCCCTTCCGCCCCGACTCCTCCACCCTTTGGCCCCGCCCACTCTCCCGATCT
TCCCCTTCCCTCCGGCTTAGTCTCCTTAGTTCCGTCCCTTTCCAGCTCTGCCCTCTTGCGACCTGTCCCTCCCACTCTGCCTGCCCCTTCTCCT
ACCCCGTCTGCCCCTCCCCTTTCTCCAACCCTTGGCCCCACCCCCCCGGGCTGTCTTCCGCTCCTTGGCCCCATCCCATTCCGCTATGCCNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCACCCCCCAGCCTCTGATCCTTGGCCTACAAAGGGTTTTGAAAAACCCGAAGTTTGCGTGCA
CGCCTGTGTAGGTGCGGCTGCGCCGCTCTCCCCACGTGCCCTGCAGCGCATGCGTGCGGGCTGCGCTTGCGCACTGACAGCCGCGGCGCAGCGG
GGCTTGGTGGTGCCCGGTCTCTGGACCGAGCGGCCATGGGGTGGCGGGCGGCTGGGTCGCTGAGAGCCAGGTAGCAGTAGGGCAGCAGGGACCGC
CTGCTCGGCCCAGCATGTAGACGTCCACGCGGGCGCGCGGCAGCCGACGGTGAGTGCGGGGCCTGGGGTCGCCCTCTGCCCGGCGTCACTGGCC
GGGACCCGTGAAGACAGGGTCACGGCGCCGGCCCTGCCCACCTGCCCGAGGCCGGGCGCTGGTGGCTCTGACGCGCCTCCCTGCGTCCGAACGT
GGGTTGCAGCCAGGATGACGCGTGGTCTCGGGGAAGGAGCCTAAGGGACAGGTCTGAAGATCTGGTCCGGCCTTGGGTTTAGGGGGACGAGTCA
GAGGTTCGGGTCCCGGGAGAAGCCATGTAGGCCGCCGTTCTGTTCTAAGCCAGTTCAGCGCGCAGCACCGCAGCCGAATCGGCTCCATTGGTCT
TCCAGTGGGGCCTTAGCAAGCGCCAGAGACCTTGGCATGTGGGCAAAGTAGTCAGACGAGCGTTTTGTAAGCAATCGAGGTGTGAAACTCTCCA
AAACCCCATCGTAAACTTGGTATCCAGTACTTGCCAGGAGCTTCCAAAGTCCTGAAGAGTCCATGGAGATGTTCCTAGAGGCTGCTGCCTCTCA
GGATGTCACACTCACAGGCCGCTTGTCTTGGCCTCTGGCAGGTTTCTTCGTTATGGGAACAGGGCGTGCCCAGCGCAGTCCCAGGATCTGCCTT
TGCTTGGCCAAGATCCGGCGTCTCTTTCCAGCTCTCCCAAGCAATGGGCTTTCTCCTGGCATTGATTCTGAATAGCGACTTGTTTTTCCTTTCT
TGTTTGGGAAACTCTCTGTTTTGGTTCAAAACTTATTCGTTTGGCTTGCCTCTTGAGAAGAGTGTTATTCAAACTTATATTCATTGGTTTCATG
TATCACTGTCAGTTTCCACGGGCCGGAAAGCTGGCATCCTCGCCTTGGTAATTAAAAGCACGGCACCTTCCCTCTGAACGTATTTGTCCTCAGC
AGTGACTTCACTGTGACTTACACTGCCCATCTTGGGCTCTGGGACAGCCACGGGTGCCAATATACAGTATGACCAGGTAGCTTCTTCATTTGGA
GGTGGCATCTCAGAATGCTTCTGCATTTTCTTCTTTGTAGATTTATTTATTAAAAACGATGCAGTTTTATTCATTTTTTTTCTTTTTCATCTTG
TTTGAAGTGCTACAGGTCCAGCCCAGATCCTCACACAAGTGCTGTCCCACTGAGCCACAATCCATCCCCCACCCCTCCTTTTGGGTAGAAGTGG
CTAACAGATAAAACAGCAGTACTTAAATGAATAGTTTAGCTCTCTAGGCATCACTTGGAGATGGAGAGAAGCAAGTGGTGGTTTTTTCCTTTTT
TTTTTAATGGGAGTGGACACTTGCTACTCTACTGCTCATGAATGGAAGGAAGAGCTTCCAAGTGTTGGTTTTCTCCTCCTGCTCCATGGGCTCC
ATGGATCAAACCCAAGACATCAGGCTTGGCAGTAAGTGCCTTTGTCTACTGAGCCATCTCTCTGATCCTTCCTTTGTTTTTAGACATAACTTTA
TGTATGCCAAGCTGATTTCTAATTCCCTGTGTAGCCAAGGGTGACTCTGAACTTCTTGTCCTGTATGTTCCTCTGCATGTTGGGATTACAGGCA
TGAACCAAACCATATCCAGTTGGGCTTTTTCTTGTTTTAATGTGATGTTGGGATGAAGCCCAGGGCTTTGTGTGTGCAAGCACTGTACCAACTG
AGCTCTTTTTCAAGCCTTGGGTGGTTTCACTCTTTTTTTTTCTTTCTTTCTTTCTTTTTTTTCCAGGGTGGAGGATGGAGTTCAAGACAGTGTT
TCTCTGTCCTGGAACTCACTCTGTAGACCAGGCTGCCCTTGAACTCAGAGATCCCCTGCCTCTGACTCCTGAGTGCTGGGATTAAAGACGTCCG

GGCACCACCACCCAAAGTCCTACTCTTAATGCTTTTTTTTTTTTTTTTTAAAGATTTATTTATTTATTTTATATGTATGATGCACCAGAAGAGGG
CATCAGATCTCATTACAGATGGTTGTGAGCCACCATGTGGCTGCTGGGAATTGAACTCAGGACCTCTGGAAGAGCAGTCAGTGCTGTTAACCAC
TGAGCCATCTCTCCAGCCCCCACTCTAAGATTTACTTTATTTTGGATTTATGTGTATGCATGTGTGTTTGCGTGTGGTTATTATGTGCACACGA
GTATGTGTGCCTTGGAGGCAGGAAGAGGGTGTCAGATCCCTTAGAGTTGGAGTTACAGATGGTTGAAAGCTGCCGGATGTGGGTGCTGGGAAGG
AAGCTCAAGTTCTCTGGGAGCAGCAAGAGCCTTGTAACTGCTGAGGCTTCGCCCTCTCAGGTGTTGGGAATGGATTCATCTCCATCTTTACCTT
GAATCTGTCTGTTTTCTGGTGTCGCAGCAAGAGGGAGATCCGTGCAAAATGCTCAGCACGCGGAGGAGGAGCCTTGGGAGGACAAGAGGGGTGG
GCTTTGATCTCAGGCTCTGCTTTCTAGGACTTGTGAGATCTGTTTACAGTTACCACATGGCTCCTGCCCTCCTGAAGGCAGAGGTGTCGCTTTC
AACCCCAGGAAACCATCCTAATTGTTTGTGATAGTTGCTTAGCTTATCATTGTCCTCTATTCTGATCCATGGCACCTGTCCTCCCAGGGCTACT
GCATTGGGAACAAGTTCGTGAAAACAAATGATCGGGTTAAGGCAGAGACGGTACTAGCAATGTACGCCAGTGCTGTCCACGGTGCAGTGGAAAG
GGCAGCAGCGCCTGACCACTTAGCCTTCTAGACCAGAGTGCCTCTCTTGGGTCTGTGAAACTATTCCACCACTAGATGGGTTCTGTGATCCCGT
TCCTTAGAACTTTCCAGAAACAGCACACTTCTCTGACCTGTCTGCTAGCTTGGGTATCATTTATTTGTAGAAATGAGGTAGGTATTAGGTAATC
ACTAAACCTGGACTCTGTGGCTCACAGTAGTGATACCATCATGTTTGATACAGCAACACGTTGTCTCATAAAACAAATGAACAAGAACTGGAAA
CTTTTCCAACTTGGTATTAACTAATGAAGTTAAACATTTACCTGTTGCTTTCACTAATTTTCCTTCTTTTTATTTTTTTCTCTCCATTTCTTC
CTTCATTCCCTCTATTTTCAAAGACTCAGACTTTTGTCACACAGATTGCAGTCTTCCTCCTGCGTGCTGAGTGCTTGGGTCACGGGTACGCACC
AACACACCTGGCTTCGCTTTTCATTTACCGCTTCTACATATATTTGAAGTTCACATGGAATTGAACGTTTGTATTACGTTTCTTGGGCTGACTC
TCTGTGTGTTCATGCCTGCCTTTGGTTCCTGTTGTACATGAGCTTATTGACATTTTGATATCTTTCTTGCTACTCCATGATGGTGACTCAGTTC
CTTTTCCAAGCCAGCCAAGCTACTCAACAATGAAAAAAATCCCAACAGGGATAACTAAGTGCACTCACCCCCCCCAGCTACCTCAGCACCTGAT
AATCATCTTGCCTAGCCTTTGTTTCCGCTTCACTTTCTAGACCTTGCTTGAAGAGTTACCTAGGGAAAGGTTGGCGACGAAAGAATTAAATAAT
GGAATTAAATAGAATTAAAAACAGAGGAGGAGGGATGATGGGTCAGTCCTAGCAACCACCCGGGATTCACTCCCAGGGACCCTCAGGGTAAGAG
GAGGGATTTAGGGGCTGCCCTTCGATTGCCACGGGCAGATTGTGTCATGCGAGTGAGCATGTGTGCACCAACCCATAAGTAAATACGTGTATCT
GTTTATTTACTTAATTGGGTTTTTTTTTTTCTTTTAAAAAAAAATTGGGGGAGGGGGTGTTGGGATGTTCAAATCAGGGTCTCTCTCTCTGAAGC
CCTGGCTGTCCTAGAACTCAATCTGTAGACCAGGCTGGCCTCACTTTAGAGAGCCACCTGCTTCTGCTGGGATTAAAGGCTTTTATACCACGAT
CTCCTGGTTTAT

HUMAN SEQUENCE - mRNA
ATGGGCGGCGAGTGGGGAGCGGGGCCGGGAGTGGAGCAGCCGCCGCGGCGGACTGGACCGAGCCTCGCCGGCGCGCACCTGCCCGCAGCGCCCG
CGGACGCGCAGCGCGGCCCGAGCGCGACGACCTGCCGAGCGGCGGCCGAGGCGGCGGTGTGGGCGCGTCAGGCCGCGACGAGGGCGCTGAGACA
AATTTACATGTATTGGAGACCAGACCAGAAGCCCTTCTGAATTAAGATCTCACATTCTTGAAGGTGGCATTGAAGAGCACTAAGATCGGAAGAT
GAGTGAGCTTGACCAGTTACGGCAGGAGGCCGAGCAACTTAAGAACCAGATTCGAGACGCCAGGAAAGCATGTGCAGATGCAACTCTCTCTCAG
ATCACAAACAACATCGACCCAGTGGGAAGAATCCAAATGCGCACGAGGAGGACACTGCGGGGGCACCTGGCCAAGATCTACGCCATGCACTGGG
GCACAGACTCCAGGCTTCTCGTCAGTGCCTCGCAGGATGGTAAACTTATCATCTGGGACAGCTACACCACCAACAAGGTCCACGCCATCCCTCT
GCGCTCCTCCTGGGTCATGACCTGTGCATATGCCCCTTCTGGGAACTATGTGGCCTGCGGTGGCCTGGATAACATTTGCTCCATTTACAATCTG
AAAACTCGTGAGGGGAACGTGCGCGTGAGTCGTGAGCTGGCAGGACACACAGGTTACCTGTCCTGCTGCCGATTCCTGGATGACAATCAGATCG
TCACCAGCTCTGGAGACACCACGTGTGCCCTGTGGGACATCGAGACCGGCCAGCAGACGACCACGTTTACCGGACACACTGGAGATGTCATGAG
CCTTTCTCTTGCTCCTGACACCAGACTGTTCGTCTCTGGTGCTTGTGATGCTTCAGCCAAACTCTGGGATGTGCGAGAAGGCATGTGCCGGCAG
ACCTTCACTGGCCACGAGTCTGACATCAATGCCATATGCTTCTTTCCAAATGGCAATGCATTTGCCACTGGCTCAGACGACGCCACCTGCAGGC
TGTTTGACCTTCGTGCTGACCAGGAGCTCATGACTTACTCCCATGACAACATCATCTGCGGGATCACCTCTGTCTCCTTCTCCAAGAGCGGGCG
CCTCCTCCTTGCTGGGTACGACGACTTCAACTGCAACGTCTGGGATGCACTCAAAGCCGACCGGGCAGGTGTCTTGGCTGGGCATGACAACCGC
GTCAGCTGCCTGGGCGTGACTGACGATGGCATGGCTGTGGCGACAGGGTCCTGGGATAGCTTCCTCAAGATCTGGAACTAACGCCAGTAGCATG
TGGATGCCATGGAGACTGGAAGACCATTCCAACTTGGACGCGTTACCATGAGAGCCAACCGTACTAACGTGACAACCCTACACCTCCCCTCAGA
ACTTCAAAAGGGCAAGATCTTTTTTCCTTCACTTATTGCTCATATCCTATGAAACCAAGAGCACAATTCCCATTGAGAGAAAGATCTCTGTGCT
GTAAACTAAAACAAATTGTGCATTCCTTCCGGGGCCATCGTCTTTGTTTTCTTTTTTGTCTTGAATGAATTTTAAAAGGAAATATATAATAAAA
ATGTTAACCAGAAGGTAAACTTGAGTGTAATTGTCAGACAGACACACTTTTCCACCAGTGTATTTGAATTTTAGACCAGTGACCCTGTTTTGTG
GCATTCATGCAAAACATGCTGAGGGCTTTGTTCATCTGGTCATCGTGTCCAAATTTCAGTCATGTTTGTAGCAAGATTTTGGAAGCATTCATAT
TTCCTTTTTAAAATGTATTCCTTTGTGTTCAACAGTTAATCAAAACCAGAGAGTCTAGGGCAGCCTCTCTGATGTTGTCAATGATGTAAATTCA
GTCCCTGGTTTTTAATTTTCTGTCTGATGTCACAGATCATTGTTGCACACAAACGTGGCATAGAAAAGAACATGTTCAGAAGCCATGGGGCCAA
GCACAATGCGGGGACGGTCTCAAAATGCGTGATCAGAGAATCCTTCACCTTATGCTGAAAAGTGAGCTCAGATCCACCTCCAATGTTCCTCCTG
ACCCATCCTGTCTATCTTCTCAGTTGAGTTTTTAATCTCACTTTGGGTTTCCTTGTGAAGTTGGAGGGAAGTTTATAATAGCCTAACACTACCC
CACCCCCAACTAGGAGGAACCTCTGTTTTCAAGAGAGATGCCTGTCCTGTGCTTGGATAGTCAGTCAATTATTTGTGTATGAAACAATGTACAA
ATCAATGTTTTGAAAATAATGATCTCAGACTTTCTAAGTTAAAGTTTTAAAAATTTTGATTGTTTGCCATATTGGGTGGGTTTACTCTTAGAAT
CGCATGCTGTAGAAAATGCTCAAAAGTGCATATGGGACTCAGTCCTTAGGTGTTCTTTTTCTTTTAAGAAATAACCTCTTACAGTTGTAACCAT
TGCGGCTCTGTCCACTTCTCGTTGCTGCTCTGTGGCACATATCGGAAGCAGTACAGCGCGCGGCTCTACACGCTTGGGTAGCGGGATAAGTCAC
TGTTTTCTTTATTTCTTTAAAAAAAAAAAAAGTTCTGTTGCAAACGACTGCTGTTGGATTCTGAGGGTGGGGAGGGAGAGAGGGAGGGAGAG
GGAGTGAAGAGCCTGCCCTCCTATAGTGGATTCTTCACGGGCCCTCCACATCTGAGGTGGCTCATTCCCATCACACACAGATTGTCCTGGTGTT
CATTTCAAGGCCAGTTGTCAGCAGCAGCGTTTGGAAAGCAGGTTCTGTGGGACCCCCCGCCCCGCCCCCCGCACTCCTTCATAGCAGCAGTAGT
GGCTTCTCCATCCTGTTTTCTGCAACATTCTATACAAAACTGTGCTGTGACCTTGCGGTAGGCCTGGATCTGGCAAAGAGAATACAAATGAAAC
CCCTTCTTTCTCTTTCCGTCCAACAACTCTGTAGAGCTCTCTGCACCCTTACCCCTTTCCACCTTTTGTATTTAATTTTAAAGTCAGTGTACTG
CAAGGAAGCTGGATGCAAGATAGATACTATATTAAACTGTACTGTTATTTAAGATGTAATAAAGCAGTTTGACATGAGGG

HUMAN SEQUENCE - CODING
ATGAGTGAGCTTGACCAGTTACGGCAGGAGGCCGAGCAACTTAAGAACCAGATTCGAGACGCCAGGAAAGCATGTGCAGATGCAACTCTCTCTC
AGATCACAAACAACATCGACCCAGTGGGAAGAATCCAAATGCGCACGAGGAGGACACTGCGGGGGCACCTGGCCAAGATCTACGCCATGCACTG
GGGCACAGACTCCAGGCTTCTCGTCAGTGCCTCGCAGGATGGTAAACTTATCATCTGGGACAGCTACACCACCAACAAGGTCCACGCCATCCCT
CTGCGCTCCTCCTGGGTCATGACCTGTGCATATGCCCCTTCTGGGAACTATGTGGCCTGCGGTGGCCTGGATAACATTTGCTCCATTTACAATC
TGAAAACTCGTGAGGGGAACGTGCGCGTGAGTCGTGAGCTGGCAGGACACACAGGTTACCTGTCCTGCTGCCGATTCCTGGATGACAATCAGAT
CGTCACCAGCTCTGGAGACACCACGTGTGCCCTGTGGGACATCGAGACCGGCCAGCAGACGACCACGTTTACCGGACACACTGGAGATGTCATG
AGCCTTTCTCTTGCTCCTGACACCAGACTGTTCGTCTCTGGTGCTTGTGATGCTTCAGCCAAACTCTGGGATGTGCGAGAAGGCATGTGCCGGC
AGACCTTCACTGGCCACGAGTCTGACATCAATGCCATATGCTTCTTTCCAAATGGCAATGCATTTGCCACTGGCTCAGACGACGCCACCTGCAG
GCTGTTTGACCTTCGTGCTGACCAGGAGCTCATGACTTACTCCCATGACAACATCATCTGCGGGATCACCTCTGTCTCCTTCTCCAAGAGCGGG
CGCCTCCTCCTTGCTGGGTACGACGACTTCAACTGCAACGTCTGGGATGCACTCAAAGCCGACCGGGCAGGTGTCTTGGCTGGGCATGACAACC
GCGTCAGCTGCCTGGGCGTGACTGACGATGGCATGGCTGTGGCGACAGGGTCCTGGGATAGCTTCCTCAAGATCTGGAACTAA

CLAIMS

We claim:

1. A recombinant nucleic acid comprising a nucleotide sequence selected from the group consisting of the sequences outlined in Tables 1-40.

2. A host cell comprising the recombinant nucleic acid of claim 1.

3. An expression vector comprising the recombinant nucleic acid according to claim 2.

4. A host cell comprising the expression vector of claim 3.

5. A recombinant protein comprising an amino acid sequence encoded by a nucleic acid sequence comprising a sequence selected from the group consisting of the sequences outlined in Tables 1-40.

6. A method of screening drug candidates comprising:

a) providing a cell that expresses a carcinoma associated (CA) gene comprising a nucleic acid sequence selected from the group consisting of the sequences outlined in Tables 1-40 or fragment thereof;

b) adding a drug candidate to said cell; and

c) determining the effect of said drug candidate on the expression of said CA gene.

7. A method according to claim 6 wherein said determining comprises comparing the level of expression in the absence of said drug candidate to the level of expression in the presence of said drug candidate.

8. A method of screening for a bioactive agent capable of binding to an CA protein (CAP), wherein said CAP is encoded by a nucleic acid comprising a nucleic acid sequence selected from the group consisting of the sequences outlined in Tables 1-40, said method comprising:

a) combining said CAP and a candidate bioactive agent; and

b) determining the binding of said candidate agent to said CAP.

9. A method for screening for a bioactive agent capable of modulating the activity of an CA protein (CAP), wherein said CAP is encoded by a nucleic acid comprising a nucleic acid sequence selected from the group consisting of the sequences outlined in Tables 1-40, said method comprising:

a) combining said CAP and a candidate bioactive agent; and

b) determining the effect of said candidate agent on the bioactivity of said CAP.

10. A method of evaluating the effect of a candidate carcinoma drug comprising:

a) administering said drug to a patient;

b) removing a cell sample from said patient; and

c) determining alterations in the expression or activation of a gene comprising a nucleic acid sequence selected from the group consisting of the sequences outlined in Tables 1-40.

11. A method of diagnosing carcinoma comprising:

a) determining the expression of one or more genes comprising a nucleic acid sequence selected from the group consisting of the sequences outlined in Tables 1-40, in a first tissue type of a first individual; and

b) comparing said expression of said gene(s) from a second normal tissue type from said first individual or a second unaffected individual;

wherein a difference in said expression indicates that the first individual has carcinoma.

12. A method for inhibiting the activity of a CA protein (CAP), wherein said CAP is encoded by a nucleic acid comprising a nucleic acid sequence selected from the group consisting of the sequences outlined in Tables 1-40, said method comprising binding an inhibitor to said CAP.

13. A method of treating carcinomas comprising administering to a patient an inhibitor of an CA protein (CAP), wherein said CAP is encoded by a nucleic acid comprising a nucleic acid sequence selected from the group consisting of the sequences outlined in Tables 1-40.

14. A method of neutralizing the effect of an CA protein (CAP), wherein said CAP is encoded by a nucleic acid comprising a nucleic acid sequence selected from the group consisting of the sequences outlined in Tables 1-40, comprising contacting an agent specific for said CAP protein with said CAP protein in an amount sufficient to effect neutralization.

15. A polypeptide which specifically binds to a protein encoded by a nucleic acid comprising a nucleic acid selected from the group consisting of the sequences outlined in Tables 1-40.

16. A polypeptide according to claim 15 comprising an antibody which specifically binds to a protein encoded by a nucleic acid comprising a nucleic acid sequence selected from the group consisting of the sequences outlined in Tables 1-40.

17. A biochip comprising one or more nucleic acid segments selected from the group consisting of a nucleic acid of the sequences outlined in Tables 1-40 or fragments thereof.

18. A method of diagnosing carcinoma or a propensity to carcinoma by sequencing at least one CA gene of an individual.

19. A method of determining CA gene copy number comprising adding an CA gene probe to a sample of genomic DNA from an individual under conditions suitable for hybridization.